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

ENVIRONMENT

Date  
March 14, 2014

Dear Ms. O'Brien:

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

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The next groundwater monitoring event at the site is scheduled for first quarter 2014. 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.

Our ref:  
WA000804.2014

Sincerely,

ARCADIS U.S., Inc.

Grant V. Sprick  
Certified Project Manager II

Rebecca Andresen, L.G.  
Associate Vice President

Enc.:  
First Quarter 2014 Groundwater Monitoring Report


CC:  
Mr. Dave Rowland, KMLT, Seattle, WA (CD Copy)  
Mr. Robert Truedinger, c/o Stephanie Randall, KMLT, Orange, CA (CD Copy)  
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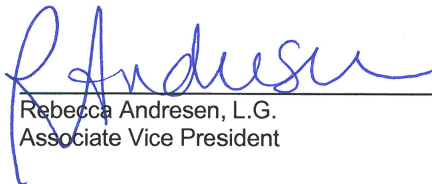
**First Quarter 2014 Groundwater  
Monitoring Report**

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



to   
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Grant V. Sprick  
Certified Project Manager II

  
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Rebecca Andresen, L.G.  
Associate Vice President



Rebecca K. Andresen

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

Prepared for:  
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Our Ref.:  
WA000804.2014

Date:  
March 14, 2014

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

## 1. Introduction

ARCADIS U.S., Inc. has prepared this report to present the findings of the First Quarter 2014 groundwater monitoring and sampling event and the First Quarter 2014 remedial performance monitoring 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 January 21 and 22, 2014. Additionally, low-flow groundwater sampling techniques were used in accordance with the Technical Revision Request (Delta 2008), presented as Attachment A.

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

### 1.1 Site Description

The site is currently a 14-acre bulk petroleum storage facility located east of 13<sup>th</sup> 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.

### **1.2 Regulatory Background**

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

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

mg/L = milligrams per liter

## **2. Scope of Work**

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

### **2.1 Compliance Monitoring Scope of Work**

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

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

- Measuring depth to water in 44 monitoring 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 and submitting a quarterly groundwater monitoring report to Ecology

### **2.2 Performance Monitoring Scope of Work**

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



in June 2013. The First Quarter performance monitoring event was conducted in conjunction with compliance monitoring on January 22, 2014 and included:

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

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

### **2.3 Compliance Monitoring Sampling and Analysis**

Groundwater samples were collected in accordance with the Reduced Monitoring Plan (Delta 2007) from four wells on January 21, 2014 and eleven wells on January 22, 2014.

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

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

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

The groundwater sample from monitoring well MW-21 was also analyzed for TPH-DRO and TPH-HO according to Northwest Method NWTPH-Dx.

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

## **2.4 Performance Monitoring Sampling and Analysis**

### 2.4.1 First Quarter Performance Monitoring

Groundwater samples were collected from 12 wells (A-27, MW-7, MW-9, MW-19, TMW-1 through TMW-6, 11, and 12) on January 22, 2014 for the First Quarter performance monitoring event in accordance with the EDR (ARCADIS 2012a) and subsequent RTC (ARCADIS 2012b).

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

- TPH-GRO according to Northwest Method NWTPH-Gx,
- BTEX according to EPA Method 8260B
- Sulfate according to EPA Method 300.0

- Sulfide according to Standard Method 4500-S D

Groundwater samples from performance monitoring wells MW-7, MW-9, TMW-1 through TMW-6, and 11 were collected and analyzed using Hach BART™, type SRB-BART field test kits in accordance with the RTC (ARCADIS 2012b). The BART™ samples were observed and photographed on twelve occasions over a 21-day period between January 22, 2014 and February 12, 2014; at days 1 and 2, days 5 through 9, days 12 through 15, and day 21. A photo log is included as Attachment D.

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 First Quarter performance monitoring event were measured on January 21, 2014 using an electronic oil-water interface probe. Measurable SPH was not observed during this event, however an absorbent sock is placed in monitoring well A-6 as discussed in section 3.1.1.

Groundwater elevations were calculated using depth-to-water measurements and wellhead survey elevations obtained in July 2003. Groundwater elevations during this sampling event ranged between 5.64 feet amsl (A-21) and 8.28 feet amsl (MW-20). 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 sock placement) was performed in these wells until Third Quarter 2013 when absorbent

socks were removed from the wells listed above after a period of approximately 12 months (4 monitoring events) with no measurable SPH.

Following absorbent sock removal, measurable SPH was observed during the Fourth Quarter 2013 event in well A-6, at a thickness of 0.04 foot. A new absorbent sock was placed in this well during the Fourth Quarter event, which was replaced during the First Quarter 2014 event. A replacement absorbent sock will be installed in well A-6 and as necessary in other groundwater monitoring wells, should measurable SPH be observed during future gauging events.

### **3.2 Compliance Monitoring Groundwater Analytical Results**

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

- TPH-GRO concentrations ranging from less than the laboratory method reporting limit (MRL) (<0.25 milligrams per liter [mg/L]) to 3.1 mg/L in monitoring well MW-24
- TPH-DRO concentration of 2.3 mg/L in monitoring well MW-21
- TPH-HO concentration of 0.77 mg/L in monitoring well MW-21
- Benzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 0.170 mg/L in monitoring well A-28R
- Toluene concentrations ranging from less than the MRL (<0.0005 mg/L) to 0.010 mg/L in monitoring well MW-7
- Ethylbenzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 0.180 mg/L in monitoring well MW-24
- Total xylenes concentrations ranging from less than the MRL (<0.0005 mg/L) to 0.330 mg/L in monitoring well MW-24

Groundwater samples collected from wells A-21, A-23R, MW-6, MW-14, and MW-18 did not exhibit COC concentrations at or above the MRLs.

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

### **3.3 Performance Monitoring Results**

#### 3.3.1 First Quarter Analytical Results

Groundwater samples collected during the First Quarter 2014 performance monitoring event contained TPH-GRO concentrations ranging from less than the MRL (<0.25 mg/L) at monitoring wells MW-9 and TMW-1 to 7.0 mg/L at monitoring well TMW-6. Sulfate concentrations during the First Quarter 2014 performance monitoring event ranged from less than the MRL (<0.50 mg/L) at well A-27 to 3,800 mg/L in monitoring well TMW-3. Sulfide concentrations during the First Quarter 2014 performance monitoring event ranged from less than the MRL (<0.10 mg/L) to 0.23 mg/L in monitoring well MW-7.

#### 3.3.2 First Quarter BART™ Testing Results

Samples collected from monitoring wells MW-7 and TMW-5 showed the most aggressive formation of sulfate-reducing bacteria (SRB) based on the presence of SRB in samples from these two wells on day twelve. Based on test kit instructions provided by Hach, formation of SRB by day five is considered aggressive while formation of SRB by day eight or later is considered non-aggressive or background. By day 15, samples from wells MW-7 and TMW-5 showed presence of a combination of anaerobic and aerobic SRB populations while samples from wells 11, MW-9, TMW-1 through TMW-4, and TMW-6 did not show presence of SRB. A photo log and summary of SRB sampling and observations is included as Attachment D.

### **3.4 Data Validation**

Groundwater samples collected during the First Quarter 2014 performance monitoring event on January 21 and 22, 2014 were processed within their specified hold times.

Alpha reported the method and laboratory control samples within acceptable limits, with the exception of low matrix spike (MS) recovery of TPH-GRO. The relative percent difference (RPD) between analytical results of the sample and duplicate sample was

2.5 percent. A duplicate sample was collected from MW-24 during First Quarter 2014 compliance monitoring and was analyzed for TPH-GRO, benzene, toluene, ethylbenzene, and total xylenes. The RPDs between the analytical results for these COCs in the samples collected from MW-24 were calculated as:

- TPH-GRO – 33.9 percent
- Benzene – 22.2 percent
- Toluene – 13.3 percent
- Ethylbenzene – 40.0 percent
- Total xylenes - 49.1 percent

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

#### **4. Conclusions**

##### **4.1 Compliance Monitoring**

The concentrations of COCs observed during the quarterly compliance monitoring event are consistent (and in many cases continue to decrease) with concentrations encountered during previous groundwater monitoring events. The remedial action discussed in the next section has been designed to enhance natural biodegradation in areas of the site where concentrations of COCs in groundwater exceed site cleanup levels.

No measurable SPH was observed during the First Quarter 2014 sampling event, including the sock that was pulled from well A-6. TPH-GRO concentrations continue to decrease, as evidenced by a decreasing trend in concentrations of TPH-GRO in monitoring wells, including wells A-27 and MW-23.

SPH removal is currently on-going and is anticipated to be within the cleanup goal of no sheen.

## **4.2 Sulfate Land Application**

### 4.2.1 First Quarter 2014 Analytical Results

Sulfate concentrations increased (>100 mg/L) at monitoring wells 12, MW-7, TMW-1, TMW-4, TMW-5, and TMW-6 during the First Quarter 2014 performance monitoring event as a result of the sulfate land application. An average sulfate concentration of 1,735 mg/L was calculated (compared to an average baseline concentration of 6.9 mg/L and a three-month average concentration of 1,841 mg/L) using the MRL value for samples where sulfate was not detected above the MRL, indicating stable concentrations of sulfate in the groundwater system.

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

Increasing trends in wells TMW-4, TMW-6, and 11 can likely be attributed to the physical flushing and/or biological surfactant effect of the infiltration of water with high sulfate concentrations through the vadose zone where residual source mass exists. This effect is accelerating the dissolution and remediation of this mass which acts as the historical source to groundwater impacts. An increasing trend in well A-27 is likely unrelated to sulfate land application, as sulfate has not been detected above baseline concentrations.

Wells onsite and with concentrations that currently exceed cleanup levels (MW-19 and MW-7) are within the footprint of the sulfate application area. Benzene concentrations in wells MW-7 and MW-9 have shown a decreasing trend, while concentrations in well MW-19 have shown a slight increase. Continued monitoring will provide more insight into the significance of these results and progress towards compliance.

The next compliance monitoring event is the Second Quarter 2014 groundwater monitoring scheduled for April 2014 and will be conducted in conjunction with the next performance monitoring event (approximately nine months post-construction).

## **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. September 9, 2013c. *Third Quarter 2013 Groundwater Monitoring Report.*

ARCADIS. November 19, 2013d. *Fourth Quarter 2013 Groundwater Monitoring 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 (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-1	02/11/02	10.93	7.47	--	3.46	
A-1	05/20/02	10.93	9.99	--	0.94	
A-1	08/27/02	10.93	4.72	--	6.21	
A-1	11/04/02	10.93	8.95	--	1.98	
A-1	02/18/03	10.93	7.92	--	3.01	
A-1	06/09/03	10.93	8.47	--	2.46	
A-1	09/15/03	14.64	8.83	--	5.81	
A-1	11/18/03	14.64	8.45	--	6.19	
A-1	02/24/04	14.64	7.89	--	6.75	
A-1	05/10/04	14.64	8.53	--	6.11	
A-1	08/24/04	14.64	8.73	--	5.91	
A-1	12/13/04	14.64	8.45	--	6.19	
A-1	03/08/05	14.64	8.59	--	6.05	
A-1	06/06/05	14.64	8.41	--	6.23	
A-1	09/19/05	14.64	8.87	--	5.77	
A-1	12/12/05	14.64	8.63	--	6.01	
A-1	03/13/06	14.64	7.95	--	6.69	
A-1	06/05/06	14.64	8.37	--	6.27	
A-1	09/11/06	14.64	8.81	--	5.83	
A-1	12/11/06	14.64	7.95	--	6.69	
A-2	02/11/02	10.85	7.41	--	3.44	
A-2	05/20/02	10.85	9.28	--	1.57	
A-2	08/27/02	10.85	4.66	--	6.19	
A-2	11/04/02	10.85	8.90	--	1.95	
A-2	02/18/03	10.85	7.98	--	2.87	
A-2	06/09/03	10.85	8.41	--	2.44	
A-2	09/15/03	14.66	8.77	--	5.89	
A-2	11/18/03	14.66	8.35	--	6.31	
A-2	02/24/04	14.66	7.80	--	6.86	
A-2	05/10/04	14.66	8.51	--	6.15	
A-2	08/24/04	14.66	8.55	--	6.11	
A-2	12/13/04	14.66	8.38	--	6.28	
A-2	03/08/05	14.66	8.77	--	5.89	
A-2	06/06/05	14.66	8.45	--	6.21	
A-2	09/19/05	14.66	8.79	--	5.87	
A-2	12/12/05	14.66	8.58	--	6.08	
A-2	03/13/06	14.66	7.81	--	6.85	
A-2	06/05/06	14.66	8.29	--	6.37	
A-2	09/11/06	14.66	8.76	--	5.90	
A-2	12/11/06	14.66	7.96	--	6.70	
A-3	02/11/02	10.50	7.30	<0.01	3.20*	
A-3	05/20/02	10.50	9.03	--	1.47	
A-3	08/27/02	10.50	8.43	--	2.07	
A-3	11/04/02	10.50	8.64	--	1.86	
A-3	02/18/03	10.50	7.61	--	2.89	
A-3	06/09/03	10.50	8.19	--	2.31	
A-3	09/15/03	14.32	8.50	--	5.82	
A-3	11/18/03	14.32	7.56	--	6.76	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-3	02/24/04	14.32	7.56	--	6.76	
A-3	05/10/04	14.32	8.12	--	6.20	
A-3	08/24/04	14.32	8.23	--	6.09	
A-3	12/13/04	14.32	7.85	--	6.47	
A-3	03/08/05	14.32	8.20	--	6.12	
A-3	06/06/05	14.32	8.03	--	6.29	
A-3	09/19/05	14.32	8.50	--	5.82	
A-3	12/12/05	14.32	8.32	--	6.00	
A-3	03/13/06	14.32	7.51	--	6.81	
A-3	06/05/06	14.32	7.96	--	6.36	
A-3	09/11/06	14.32	8.46	--	5.86	
A-3	12/11/06	14.32	7.56	--	6.76	
A-4	02/11/02	10.74	7.38	0.14	3.47*	
A-4	05/20/02	10.74	8.20	0.02	2.56*	
A-4	08/27/02	10.74	7.62	0.04	3.15*	
A-4	11/04/02	10.74	7.92	Sheen	2.82	Product recovery pump in well
A-4	02/18/03	10.74	7.84	Sheen	2.90	Product recovery pump in well
A-4	06/09/03	10.74	6.40	0.10	4.42*	Product recovery pump in well
A-4	09/15/03	13.22	8.38	0.10	4.92*	Product recovery pump in well
A-4	11/18/03	13.22	6.65	0.01	6.58*	Product recovery pump in well
A-4	02/24/04	13.22	7.00	--	6.22	Product recovery pump in well
A-4	05/10/04	13.22	6.79	--	6.43	Product recovery pump in well
A-4	08/24/04	13.22	7.76	--	5.46	Product recovery pump in well
A-4	12/13/04	13.22	6.10	Sheen	7.12	
A-4	03/08/05	13.22	7.21	Sheen	6.01	
A-4	06/06/05	13.22	7.23	Sheen	5.99	
A-4	09/19/05	13.22	7.78	--	5.44	
A-4	12/12/05	13.22	7.77	--	5.45	
A-4	03/13/06	13.22	6.85	--	6.37	
A-4	06/05/06	13.22	7.30	Sheen	5.92	
A-4	09/11/06	13.22	8.02	0.01	5.21*	
A-4	12/11/06	13.22	7.04	--	6.18	
A-4	03/26/07	13.22	6.90	--	6.32	
A-4	06/18/07	13.22	7.29	--	5.93	
A-4	09/24/07	13.22	7.48	Sheen	5.74	
A-4	12/10/07	13.22	6.83	--	6.39	
A-4	03/03/08	13.22	7.11	0.01	6.12*	
A-4	06/02/08	13.22	7.52	Sheen	5.70	
A-4	09/04/08	13.22	7.57	Sheen	5.65	
A-4	12/04/08	13.22	7.44	--	5.78	
A-4	03/04/09	13.22	7.09	--	6.13	
A-4	06/01/09	13.22	7.32	Sheen	5.90	
A-4	09/21/09	13.22	7.61	Sheen	5.61	
A-4	11/16/09	13.22	6.97	Sheen	6.25	
A-4	03/08/10	13.22	6.54	--	6.68	
A-4	06/07/10	13.22	6.92	Sheen	6.30	
A-4	09/09/10	13.22	7.59	--	5.63	
A-4	11/16/10	13.22	7.11	--	6.11	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-4	03/01/11	13.22	6.66	--	6.56	
A-4	05/23/11	13.22	6.84	Sheen	6.38	
A-4	08/29/11	13.22	7.50	--	5.72	
A-4	12/01/11	13.22	7.16	--	6.06	
A-4	03/01/12	13.22	--	--	--	Not Measured
A-4	05/30/12	13.22	6.88	--	6.34	
A-4	08/25/12	13.22	7.17	--	6.05	
A-4	11/07/12	13.22	6.77	--	6.45	
A-4	02/28/13	13.22	6.69	--	6.53	
A-4	04/08/13	13.22	6.83	--	6.39	
A-4	07/29/13	13.22	7.23	--	5.99	
A-4	10/02/13	13.22	5.10	--	8.12	
A-4	01/21/14	13.22	7.12	--	6.10	
A-5	02/11/02	10.42	7.00	--	3.42	
A-5	05/20/02	10.42	8.89	--	1.53	
A-5	08/27/02	10.42	8.25	--	2.17	
A-5	11/04/02	10.42	8.43	--	1.99	
A-5	02/18/03	10.42	7.35	--	3.07	
A-5	06/09/03	10.42	7.99	--	2.43	
A-5	09/15/03	14.13	8.33	Sheen	5.80	
A-5	11/18/03	14.13	7.82	--	6.31	
A-5	02/24/04	14.13	6.45	--	7.68	
A-5	05/10/04	14.13	8.04	--	6.09	
A-5	08/24/04	14.13	8.02	--	6.11	
A-5	12/13/04	14.13	7.88	--	6.25	
A-5	03/08/05	14.13	8.00	--	6.13	
A-5	06/06/05	14.13	7.89	--	6.24	
A-5	09/19/05	14.13	8.37	--	5.76	
A-5	12/12/05	14.13	8.15	--	5.98	
A-5	03/13/06	14.13	7.39	--	6.74	
A-5	06/05/06	14.13	7.82	--	6.31	
A-5	09/11/06	14.13	8.34	--	5.79	
A-5	12/11/06	14.13	7.41	--	6.72	
A-5	03/26/07	14.13	7.41	--	6.72	
A-5	06/18/07	14.13	8.32	--	5.81	
A-5	09/24/07	14.13	8.32	--	5.81	
A-5	12/10/07	14.13	7.66	--	6.47	
A-5	03/03/08	14.13	7.78	--	6.35	
A-5	06/02/08	14.13	8.21	--	5.92	
A-5	09/04/08	14.13	8.10	--	6.03	
A-5	12/04/08	14.13	8.15	--	5.98	
A-5	03/04/09	14.13	7.76	--	6.37	
A-5	06/01/09	14.13	8.03	--	6.10	
A-5	09/21/09	14.13	8.35	--	5.78	
A-5	11/16/09	14.13	7.70	--	6.43	
A-5	03/08/10	14.13	7.21	--	6.92	
A-5	06/07/10	14.13	7.74	--	6.39	
A-5	09/09/10	14.13	8.26	--	5.87	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-5	11/15/10	14.13	7.85	--	6.28	
A-5	03/01/11	14.13	7.47	--	6.66	
A-5	05/23/11	14.13	7.58	--	6.55	
A-5	08/29/11	14.13	8.17	--	5.96	
A-5	12/01/11	14.13	7.89	--	6.24	
A-5	03/01/12	14.13	7.62	--	6.51	
A-5	05/30/12	14.13	7.67	--	6.46	
A-5	08/25/12	14.13	7.91	--	6.22	
A-5	11/07/12	14.13	7.54	--	6.59	
A-5	02/27/13	14.13	7.59	--	6.54	
A-5	04/08/13	14.13	7.56	--	6.57	
A-5	07/29/13	14.13	7.88	--	6.25	
A-5	10/02/13	14.13	7.64	--	6.49	
A-5	01/21/14	14.13	7.92	--	6.21	
A-6	02/11/02	--	6.40	0.13	--	Not Measured-Casing Broken
A-6	05/20/02	--	8.13	0.14	--	Not Measured-Casing Broken
A-6	08/27/02	--	7.80	0.45	--	Not Measured-Casing Broken
A-6	11/04/02	--	7.33	0.01	--	Not Measured-Product recovery pump in well, Casing Broken
A-6	02/18/03	--	8.50	Sheen	--	Not Measured-Product recovery pump in well, Casing Broken
A-6	06/09/03	--	7.45	0.01	--	Not Measured-Re-cut TOC; repaired
A-6	09/15/03	12.81	7.77	0.01	5.05*	Product recovery pump in well
A-6	11/18/03	12.81	7.46	0.54	5.78*	Product recovery pump in well
A-6	02/24/04	12.81	6.65	0.40	6.48*	Product recovery pump in well
A-6	05/10/04	12.81	6.95	0.10	5.94*	Product recovery pump in well
A-6	08/24/04	12.81	7.21	0.21	5.77*	Product recovery pump in well
A-6	12/13/04	12.81	6.80	0.14	6.12*	
A-6	03/08/05	12.81	6.98	0.32	6.09*	
A-6	06/06/05	12.81	6.81	0.04	6.03*	
A-6	09/19/05	12.81	7.81	0.59	5.47*	
A-6	10/12/05	12.81	7.95	0.50	5.26*	
A-6	12/12/05	12.81	8.20	0.95	5.37*	
A-6	03/13/06	12.81	6.68	0.08	6.19*	
A-6	06/05/06	12.81	7.10	0.13	5.81*	
A-6	09/11/06	12.81	7.82	0.27	5.21*	
A-6	12/11/06	12.81	6.58	0.02	6.25*	
A-6	03/26/07	12.81	6.51	--	6.30	
A-6	06/18/07	12.81	7.00	--	5.81	
A-6	09/24/07	12.81	7.20	Sheen	5.61	
A-6	12/10/07	12.81	6.58	--	6.23	
A-6	03/03/08	12.81	6.59	--	6.22	
A-6	06/02/08	12.81	7.05	Sheen	5.76	
A-6	09/04/08	12.81	7.19	Sheen	5.62	
A-6	12/04/08	12.81	7.15	Sheen	5.66	
A-6	03/04/09	12.81	6.51	Sheen	6.30	
A-6	06/01/09	12.81	7.00	Sheen	5.81	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-6	09/21/09	12.81	7.24	Sheen	5.57	
A-6	11/16/09	12.81	6.50	Sheen	6.31	
A-6	03/08/10	12.81	6.14	--	6.67	
A-6	06/07/10	12.81	6.71	Sheen	6.10	
A-6	09/09/10	12.81	7.12	--	5.69	
A-6	11/15/10	12.81	6.79	Sheen	6.02	
A-6	03/01/11	12.81	6.38	Sheen	6.43	
A-6	05/23/11	12.81	6.52	Sheen	6.29	
A-6	08/29/11	12.81	7.04	0.03	5.79*	
A-6	12/01/11	12.81	6.95	Sheen	5.86	
A-6	03/01/12	12.81	6.60	--	6.21	
A-6	05/30/12	12.81	6.58	--	6.23	
A-6	08/25/12	12.81	7.18	--	5.63	
A-6	11/07/12	12.81	6.61	--	6.20	
A-6	02/27/13	12.81	6.54	--	6.27	
A-6	04/08/13	12.81	6.46	--	6.35	
A-6	07/29/13	12.81	6.83	--	5.98	
A-6	10/02/13	12.81	6.66	Sheen	6.15	0.04 ft of SPH observed. Absorbent sock placed in well.
A-6	01/21/14	12.81	6.80	--	6.01	
A-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-8	02/24/04	14.61	7.43	--	7.18	
A-8	05/10/04	14.61	8.04	--	6.57	
A-8	08/24/04	14.61	8.18	--	6.43	
A-8	12/13/04	14.61	7.90	--	6.71	
A-8	03/08/05	14.61	8.11	--	6.50	
A-8	06/06/05	14.61	7.98	--	6.63	
A-8	09/19/05	14.61	8.44	--	6.17	
A-8	12/12/05	14.61	8.22	--	6.39	
A-8	03/13/06	14.61	7.49	--	7.12	
A-8	06/05/06	14.61	7.89	--	6.72	
A-8	09/11/06	14.61	8.45	--	6.16	
A-8	12/11/06	14.61	7.66	--	6.95	
A-8	03/26/07	14.61	7.71	--	6.90	
A-8	06/18/07	14.61	8.27	--	6.34	
A-8	09/24/07	14.61	8.50	--	6.11	
A-8	12/10/07	14.61	7.44	--	7.17	
A-8	03/03/08	14.61	7.83	--	6.78	
A-8	06/02/08	14.61	8.20	--	6.41	
A-8	09/04/08	14.61	--	--	--	Inaccessible
A-8	12/04/08	14.61	8.20	--	6.41	
A-8	03/04/09	14.61	7.70	--	6.91	
A-8	06/01/09	14.61	8.11	--	6.50	
A-8	09/21/09	14.61	8.37	--	6.24	
A-8	11/16/09	14.61	7.70	--	6.91	
A-8	03/08/10	14.61	7.31	--	7.30	
A-8	06/07/10	14.61	7.85	--	6.76	
A-8	09/09/10	14.61	8.28	--	6.33	
A-8	11/15/10	14.61	7.94	--	6.67	
A-8	03/01/11	14.61	7.56	--	7.05	
A-8	05/23/11	14.61	7.70	--	6.91	
A-8	08/29/11	14.61	8.21	--	6.40	
A-8	12/01/11	14.61	8.06	--	6.55	
A-8	03/01/12	14.61	7.74	--	6.87	
A-8	05/30/12	14.61	7.87	--	6.74	
A-8	08/25/12	14.61	7.97	--	6.64	
A-8	11/07/12	14.61	7.63	--	6.98	
A-8	02/27/13	14.61	8.71	--	5.90	
A-8	04/08/13	14.61	7.67	--	6.94	
A-8	07/29/13	14.61	7.98	--	6.63	
A-8	10/02/13	14.61	7.75	--	6.86	
A-8	01/21/14	14.61	7.98	--	6.63	
A-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-9	11/18/03	14.42	7.62	--	6.80	
A-9	02/24/04	14.42	7.21	--	7.21	
A-9	05/10/04	14.42	8.00	--	6.42	
A-9	08/24/04	14.42	8.18	--	6.24	
A-9	12/13/04	14.42	7.73	--	6.69	
A-9	03/08/05	14.42	8.00	--	6.42	
A-9	06/06/05	14.42	7.89	--	6.53	
A-9	09/19/05	14.42	8.28	--	6.14	
A-9	12/12/05	14.42	8.04	--	6.38	
A-9	03/13/06	14.42	7.37	--	7.05	
A-9	06/05/06	14.42	7.79	--	6.63	
A-9	09/11/06	14.42	8.36	--	6.06	
A-9	12/11/06	14.42	7.46	--	6.96	
A-10	02/11/02	9.48	6.15	--	3.33	
A-10	05/20/02	9.48	7.98	--	1.50	
A-10	08/27/02	9.48	7.34	Sheen	2.14	
A-10	11/04/02	9.48	7.54	Sheen	1.94	
A-10	02/18/03	9.48	6.57	--	2.91	
A-10	06/09/03	9.48	7.15	--	2.33	
A-10	09/15/03	13.51	7.45	Sheen	6.06	
A-10	11/18/03	13.51	6.95	Sheen	6.56	
A-10	02/24/04	13.51	6.50	Sheen	7.01	
A-10	05/10/04	13.51	7.15	Sheen	6.36	
A-10	08/24/04	13.51	7.31	--	6.20	
A-10	12/13/04	13.51	6.95	--	6.56	
A-10	03/08/05	13.51	7.17	--	6.34	
A-10	06/06/05	13.51	7.01	--	6.50	
A-10	09/19/05	13.51	7.54	--	5.97	
A-10	12/12/05	13.51	7.25	--	6.26	
A-10	03/13/06	13.51	6.58	--	6.93	
A-10	06/05/06	13.51	6.92	--	6.59	
A-10	09/11/06	13.51	7.43	--	6.08	
A-10	12/11/06	13.51	6.59	--	6.92	
A-10	03/26/07	13.51	6.83	--	6.68	
A-10	06/18/07	13.51	7.29	--	6.22	
A-10	09/24/07	13.51	7.44	--	6.07	
A-10	12/10/07	13.51	6.79	--	6.72	
A-10	03/03/08	13.51	7.83	--	5.68	
A-10	06/02/08	13.51	7.31	--	6.20	
A-10	09/04/08	13.51	7.23	--	6.28	
A-10	12/04/08	13.51	6.87	--	6.64	
A-10	03/04/09	13.51	6.90	--	6.61	
A-10	06/01/09	13.51	7.18	--	6.33	
A-10	09/21/09	13.51	7.39	--	6.12	
A-10	11/16/09	13.51	6.84	--	6.67	
A-10	03/08/10	13.51	6.34	--	7.17	
A-10	06/07/10	13.51	6.84	--	6.67	
A-10	09/09/10	13.51	7.34	--	6.17	



**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-10	11/15/10	13.51	6.93	--	6.58	
A-10	03/01/11	13.51	6.60	--	6.91	
A-10	05/23/11	13.51	6.68	--	6.83	
A-10	08/29/11	13.51	7.25	--	6.26	
A-10	12/01/11	13.51	6.96	--	6.55	
A-10	03/01/12	13.51	6.72	--	6.79	
A-10	05/30/12	13.51	6.72	--	6.79	
A-10	08/25/12	13.51	7.30	--	6.21	
A-10	11/07/12	13.51	7.08	--	6.43	
A-10	02/27/13	13.51	6.64	--	6.87	
A-10	04/08/13	13.51	6.61	--	6.90	
A-10	07/29/13	13.51	6.95	--	6.56	
A-10	10/02/13	13.51	6.46	--	7.05	
A-10	01/21/14	13.51	7.05	--	6.46	
A-11	02/11/02	10.36	7.01	--	3.35	
A-11	05/20/02	10.36	8.83	--	1.53	
A-11	08/27/02	10.36	8.21	--	2.15	
A-11	11/04/02	10.36	8.73	--	1.63	
A-11	02/18/03	10.36	5.42	--	4.94	
A-11	06/09/03	10.36	8.01	--	2.35	
A-11	09/15/03	14.40	8.32	--	6.08	
A-11	11/18/03	14.40	6.71	--	7.69	
A-11	02/24/04	14.40	7.35	--	7.05	
A-11	05/10/04	14.40	8.10	--	6.30	
A-11	08/24/04	14.40	8.17	--	6.23	
A-11	12/13/04	14.40	7.85	--	6.55	
A-11	03/08/05	14.40	7.90	--	6.50	
A-11	06/06/05	14.40	7.88	--	6.52	
A-11	09/19/05	14.40	8.34	0.01	6.07*	
A-11	10/12/05	14.40	8.24	--	6.16	
A-11	12/12/05	14.40	8.10	--	6.30	
A-11	03/13/06	14.40	7.40	--	7.00	
A-11	06/05/06	14.40	7.80	--	6.60	
A-11	09/11/06	14.40	8.32	--	6.08	
A-11	12/11/06	14.40	7.42	--	6.98	
A-11	12/10/07	14.40	7.64	--	6.76	
A-11	03/03/08	14.40	7.39	--	7.01	
A-11	03/04/09	14.40	7.70	--	6.70	
A-11	06/01/09	14.40	8.00	--	6.40	
A-11	09/21/09	14.40	8.26	--	6.14	
A-11	11/16/09	14.40	7.65	--	6.75	
A-11	03/08/10	14.40	7.20	--	7.20	
A-11	06/07/10	14.40	7.69	--	6.71	
A-11	09/09/10	14.40	8.20	--	6.20	
A-11	11/15/10	14.40	7.78	--	6.62	
A-11	03/01/11	14.40	7.43	--	6.97	
A-11	05/23/11	14.40	7.52	--	6.88	
A-11	08/29/11	14.40	8.09	--	6.31	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-11	12/01/11	14.40	7.82	--	6.58	
A-11	03/01/12	14.40	7.55	--	6.85	
A-11	05/30/12	14.40	7.42	--	6.98	
A-11	08/25/12	14.40	7.63	--	6.77	
A-11	11/07/12	14.40	7.41	--	6.99	
A-11	02/27/13	14.40	7.42	--	6.98	
A-11	04/08/13	14.40	7.42	--	6.98	
A-11	07/29/13	14.40	7.75	--	6.65	
A-11	10/02/13	14.40	7.66	--	6.74	
A-11	01/21/14	14.40	7.93	--	6.47	
A-12	02/11/02	9.10	5.80	--	3.30	
A-12	05/20/02	9.10	8.68	--	0.42	
A-12	08/27/02	9.10	7.04	--	2.06	
A-12	11/04/02	9.10	7.23	--	1.87	
A-12	02/18/03	9.10	6.38	--	2.72	
A-12	06/09/03	9.10	6.83	--	2.27	
A-12	09/15/03	12.92	7.15	--	5.77	
A-12	11/18/03	12.92	6.60	--	6.32	
A-12	02/24/04	12.92	6.12	--	6.80	
A-12	05/10/04	12.92	6.74	--	6.18	
A-12	08/24/04	12.92	6.95	--	5.97	
A-12	12/13/04	12.92	6.57	--	6.35	
A-12	03/08/05	12.92	6.75	Sheen	6.17	
A-12	06/06/05	12.95	6.39	--	6.56	
A-12	09/19/05	12.95	7.09	--	5.86	
A-12	12/12/05	12.95	6.89	--	6.06	
A-12	03/13/06	12.95	6.23	--	6.72	
A-12	06/05/06	12.95	6.60	--	6.35	
A-12	09/11/06	12.95	7.14	--	5.81	
A-12	12/11/06	12.95	6.28	--	6.67	
A-12	12/10/07	12.95	6.43	--	6.52	
A-12	03/03/08	12.95	6.50	--	6.45	
A-12	03/04/09	12.95	6.39	--	6.56	
A-12	06/01/09	12.95	6.86	--	6.09	
A-12	09/21/09	12.95	7.02	--	5.93	
A-12	11/16/09	12.95	6.38	--	6.57	
A-12	03/08/10	12.95	6.00	--	6.95	
A-12	06/07/10	12.95	6.54	--	6.41	
A-12	09/09/10	12.95	6.95	--	6.00	
A-12	11/15/10	12.95	6.60	--	6.35	
A-12	03/01/11	12.95	6.24	--	6.71	
A-12	05/23/11	12.95	6.34	--	6.61	
A-12	08/29/11	12.95	6.87	--	6.08	
A-12	12/01/11	12.95	6.66	--	6.29	
A-12	03/01/12	12.95	6.46	--	6.49	
A-12	05/30/12	12.95	6.35	--	6.60	
A-12	08/25/12	12.95	6.57	--	6.38	
A-12	11/07/12	12.95	6.27	--	6.68	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-12	02/27/13	12.95	6.32	--	6.63	
A-12	04/08/13	12.95	6.28	--	6.67	
A-12	07/29/13	12.95	6.58	--	6.37	
A-12	10/02/13	12.95	6.41	--	6.54	
A-12	01/21/14	12.95	6.67	--	6.28	
A-13	03/27/01	--	--	--	--	Destroyed during construction activities
A-13	<b>Destroyed during construction activities</b>					
A-14	03/27/01	--	--	--	--	Destroyed during construction activities
A-14	<b>Destroyed during construction activities</b>					
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-14R	03/01/11	14.21	7.31	--	6.90	
A-14R	05/23/11	14.21	7.40	--	6.81	
A-14R	08/29/11	14.21	7.97	--	6.24	
A-14R	12/01/11	14.21	7.68	--	6.53	
A-14R	03/01/12	14.21	7.42	--	6.79	
A-14R	05/30/12	14.21	7.44	--	6.77	
A-14R	08/25/12	14.21	7.59	--	6.62	
A-14R	11/07/12	14.21	7.33	--	6.88	
A-14R	02/27/13	14.21	7.38	--	6.83	
A-14R	04/08/13	14.21	7.34	--	6.87	
A-14R	07/29/13	14.21	7.67	--	6.54	
A-14R	10/02/13	14.21	7.51	--	6.70	
A-14R	01/21/14	14.21	7.76	--	6.45	
A-15	03/27/01	--	--	--	--	Destroyed during construction activities
A-15	<b>Destroyed during construction activities</b>					
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*	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-16	11/16/09	14.39	7.95	Sheen	6.44	
A-16	03/08/10	14.39	7.40	--	6.99	
A-16	06/07/10	14.39	7.91	Sheen	6.48	
A-16	09/09/10	14.39	8.92	0.09	5.54*	
A-16	11/15/10	14.39	8.21	Sheen	6.18	
A-16	03/01/11	14.39	7.65	--	6.74	
A-16	05/23/11	14.39	7.79	--	6.60	
A-16	08/29/11	14.39	8.52	0.10	5.95*	
A-16	12/01/11	14.39	8.24	Sheen	6.15	
A-16	03/01/12	14.39	7.94	Sheen	6.45	
A-16	05/30/12	14.39	7.67	--	6.72	
A-16	08/25/12	14.39	7.79	--	6.60	
A-16	11/07/12	14.39	7.56	--	6.83	
A-16	02/27/13	14.39	7.66	--	6.73	
A-16	04/08/13	14.39	7.56	--	6.83	
A-16	07/29/13	14.39	7.88	--	6.51	
A-16	10/02/13	14.39	7.46	--	6.93	
A-16	01/21/14	14.39	8.05	--	6.34	
A-17	02/11/02	9.51	6.09	--	3.42	
A-17	05/20/02	9.51	7.92	--	1.59	
A-17	08/27/02	9.51	7.33	--	2.18	
A-17	11/04/02	9.51	8.52	--	0.99	
A-17	02/18/03	9.51	6.51	--	3.00	
A-17	06/09/03	9.51	7.19	--	2.32	
A-17	09/15/03	13.41	7.43	--	5.98	
A-17	11/18/03	13.41	7.85	--	5.56	
A-17	02/24/04	13.41	6.47	--	6.94	
A-17	05/10/04	13.41	7.11	--	6.30	
A-17	08/24/04	13.41	7.12	--	6.29	
A-17	12/13/04	13.41	6.90	--	6.51	
A-17	03/08/05	13.41	7.15	--	6.26	
A-17	06/06/05	13.41	6.89	--	6.52	
A-17	09/19/05	13.41	7.55	--	5.86	
A-17	12/12/05	13.41	7.24	--	6.17	
A-17	03/13/06	13.41	6.50	--	6.91	
A-17	06/05/06	13.41	6.94	--	6.47	
A-17	09/11/06	13.41	8.34	--	5.07	
A-17	12/11/06	13.41	6.79	--	6.62	
A-18	02/11/02	10.72	7.42	--	3.30	
A-18	05/20/02	10.72	9.22	--	1.50	
A-18	08/27/02	10.72	8.59	--	2.13	
A-18	11/04/02	10.72	9.80	--	0.92	
A-18	02/18/03	10.72	8.36	--	2.36	
A-18	06/09/03	10.72	8.36	--	2.36	
A-18	09/15/03	14.74	8.65	--	6.09	
A-18	11/18/03	14.74	8.22	--	6.52	
A-18	02/24/04	14.74	7.06	--	7.68	
A-18	05/10/04	14.74	8.50	--	6.24	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-18	08/24/04	14.74	8.56	--	6.18	
A-18	12/13/04	14.74	8.23	--	6.51	
A-18	03/08/05	14.74	8.33	--	6.41	
A-18	06/06/05	14.74	8.21	--	6.53	
A-18	09/19/05	14.74	8.67	0.02	6.09*	
A-18	10/12/05	14.74	8.55	--	6.19	
A-18	12/12/05	14.74	8.42	--	6.32	
A-18	03/13/06	14.74	7.74	--	7.00	
A-18	06/05/06	14.74	8.14	--	6.60	
A-18	09/11/06	14.74	8.63	--	6.11	
A-18	12/11/06	14.74	7.78	--	6.96	
A-18	12/10/07	14.74	7.81	--	6.93	
A-18	03/03/08	14.74	8.03	--	6.71	
A-18	03/04/09	14.74	8.07	--	6.67	
A-18	06/01/09	14.74	8.34	--	6.40	
A-18	09/21/09	14.74	8.57	--	6.17	
A-18	11/16/09	14.74	8.07	--	6.67	
A-18	03/08/10	14.74	7.54	--	7.20	
A-18	06/07/10	14.74	8.00	--	6.74	
A-18	09/09/10	14.74	8.53	--	6.21	
A-18	11/15/10	14.74	8.11	--	6.63	
A-18	03/01/11	14.74	7.75	--	6.99	
A-18	05/23/11	14.74	7.85	--	6.89	
A-18	08/29/11	14.74	8.44	--	6.30	
A-18	12/01/11	14.74	8.11	--	6.63	
A-18	03/01/12	14.74	7.83	--	6.91	
A-18	05/30/12	14.74	7.75	--	6.99	
A-18	08/25/12	14.74	7.89	--	6.85	
A-18	11/07/12	14.74	7.68	--	7.06	
A-18	02/27/13	14.74	7.72	--	7.02	
A-18	04/08/13	14.74	7.05	--	7.69	
A-18	07/29/13	14.74	7.99	--	6.75	
A-18	10/02/13	14.74	7.93	--	6.81	
A-18	01/21/14	14.74	8.27	--	6.47	
A-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-19	09/19/05	14.57	8.66	0.03	5.93*	
A-19	10/12/05	14.57	8.55	0.02	6.04*	
A-19	12/12/05	14.57	8.46	0.06	6.16*	
A-19	03/13/06	14.57	7.65	--	6.92	
A-19	06/05/06	14.57	8.10	--	6.47	
A-19	09/11/06	14.57	8.63	0.03	5.96*	
A-19	12/11/06	14.57	7.65	--	6.92	
A-19	03/26/07	14.57	7.89	--	6.68	
A-19	06/18/07	14.57	8.36	--	6.21	
A-19	09/25/07	14.57	8.64	--	5.93	
A-19	12/10/07	14.57	7.82	--	6.75	
A-19	03/03/08	14.57	7.95	--	6.62	
A-19	06/02/08	14.57	9.84	--	4.73	
A-19	09/04/08	14.57	8.30	--	6.27	
A-19	12/04/08	14.57	8.99	--	5.58	
A-19	03/04/09	14.57	7.89	--	6.68	
A-19	06/01/09	14.57	10.47	--	4.10	
A-19	09/21/09	14.57	8.53	--	6.04	
A-19	11/16/09	14.57	7.87	--	6.70	
A-19	03/08/10	14.57	7.45	--	7.12	
A-19	06/07/10	14.57	7.19	--	7.38	
A-19	09/09/10	14.57	8.41	--	6.16	
A-19	11/15/10	14.57	7.94	--	6.63	
A-19	03/01/11	14.57	7.72	--	6.85	
A-19	05/23/11	14.57	7.82	--	6.75	
A-19	08/29/11	14.57	8.39	--	6.18	
A-19	12/01/11	14.57	8.14	--	6.43	
A-19	03/01/12	14.57	7.82	--	6.75	
A-19	05/30/12	14.57	7.75	--	6.82	
A-19	08/25/12	14.57	7.88	--	6.69	
A-19	11/07/12	14.57	7.22	--	7.35	
A-19	02/27/13	14.57	7.68	--	6.89	
A-19	04/08/13	14.57	7.68	--	6.89	
A-19	07/29/13	14.57	7.93	--	6.64	
A-19	10/02/13	14.57	7.78	--	6.79	
A-19	01/21/14	14.57	8.86	--	5.71	
A-20	02/11/02	10.30	7.16	--	3.14	
A-20	05/20/02	10.30	9.76	--	0.54	
A-20	08/27/02	10.30	5.19	--	5.11	
A-20	11/04/02	10.30	8.39	--	1.91	
A-20	02/18/03	10.30	7.38	--	2.92	
A-20	06/09/03	10.30	7.95	--	2.35	
A-20	09/15/03	14.19	8.25	--	5.94	
A-20	11/18/03	14.19	7.70	--	6.49	
A-20	02/24/04	14.19	7.29	0.02	6.92*	
A-20	05/10/04	14.19	7.99	--	6.20	
A-20	08/24/04	14.19	8.18	--	6.01	
A-20	12/13/04	14.19	7.65	--	6.54	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-20	03/08/05	14.19	7.89	--	6.30	
A-20	06/06/05	14.19	7.81	--	6.38	
A-20	09/19/05	14.19	8.25	0.01	5.95*	
A-20	10/12/05	14.19	8.12	--	6.07	
A-20	12/12/05	14.19	8.00	--	6.19	
A-20	03/13/06	14.19	7.25	--	6.94	
A-20	06/05/06	14.19	7.72	--	6.47	
A-20	09/11/06	14.19	8.22	--	5.97	
A-20	12/11/06	14.19	7.28	--	6.91	
A-20	03/26/07	14.19	7.51	--	6.68	
A-20	06/18/07	14.19	7.98	--	6.21	
A-20	09/25/07	14.19	8.19	--	6.00	
A-20	12/10/07	14.19	7.45	--	6.74	
A-20	03/03/08	14.19	7.55	--	6.64	
A-20	06/02/08	14.19	8.48	--	5.71	
A-20	09/04/08	14.19	7.92	--	6.27	
A-20	12/04/08	14.19	7.99	--	6.20	
A-20	03/04/09	14.19	7.19	--	7.00	
A-20	06/01/09	14.19	8.38	--	5.81	
A-20	09/21/09	14.19	8.11	--	6.08	
A-20	11/16/09	14.19	7.43	--	6.76	
A-20	03/08/10	14.19	7.15	--	7.04	
A-20	06/07/10	14.19	7.54	--	6.65	
A-20	09/09/10	14.19	8.03	--	6.16	
A-20	11/15/10	14.19	7.51	--	6.68	
A-20	03/01/11	14.19	7.34	--	6.85	
A-20	05/23/11	14.19	7.45	--	6.74	
A-20	08/29/11	14.19	8.03	--	6.16	
A-20	12/01/11	14.19	7.70	--	6.49	
A-20	03/01/12	14.19	7.41	--	6.78	
A-20	05/30/12	14.19	7.30	--	6.89	
A-20	08/25/12	14.19	7.46	--	6.73	
A-20	11/07/12	14.19	6.61	--	7.58	
A-20	02/27/13	14.19	7.21	--	6.98	
A-20	04/08/13	14.19	6.96	--	7.23	
A-20	07/29/13	14.19	7.46	--	6.73	
A-20	10/02/13	14.19	7.40	--	6.79	
A-20	01/21/14	14.19	7.77	--	6.42	
A-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	



**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-21	08/24/04	14.35	8.29	--	6.06	
A-21	12/13/04	14.35	7.75	--	6.60	
A-21	03/08/05	14.35	8.00	--	6.35	
A-21	06/06/05	14.35	7.90	--	6.45	
A-21	09/19/05	14.35	8.24	--	6.11	
A-21	12/12/05	14.35	8.15	--	6.20	
A-21	03/13/06	14.35	7.38	--	6.97	
A-21	06/05/06	14.35	7.21	--	7.14	
A-21	09/11/06	14.35	8.31	--	6.04	
A-21	12/11/06	14.35	7.44	--	6.91	
A-21	03/26/07	14.35	7.64	--	6.71	
A-21	06/18/07	14.35	8.15	--	6.20	
A-21	09/25/07	14.35	8.30	--	6.05	
A-21	12/10/07	14.35	7.62	--	6.73	
A-21	03/03/08	14.35	7.67	--	6.68	
A-21	06/02/08	14.35	8.18	--	6.17	
A-21	09/04/08	14.35	8.09	--	6.26	
A-21	12/04/08	14.35	8.07	--	6.28	
A-21	03/04/09	14.35	7.51	--	6.84	
A-21	06/01/09	14.35	8.03	--	6.32	
A-21	09/21/09	14.35	8.27	--	6.08	
A-21	11/16/09	14.35	7.68	--	6.67	
A-21	03/08/10	14.35	7.26	--	7.09	
A-21	06/07/10	14.35	7.66	--	6.69	
A-21	09/09/10	14.35	8.19	--	6.16	
A-21	11/15/10	14.35	7.73	--	6.62	
A-21	03/01/11	14.35	7.42	--	6.93	
A-21	05/23/11	14.35	7.56	--	6.79	
A-21	08/29/11	14.35	8.11	--	6.24	
A-21	12/01/11	14.35	7.81	--	6.54	
A-21	03/01/12	14.35	7.53	--	6.82	
A-21	05/30/12	14.35	7.37	--	6.98	
A-21	08/25/12	14.35	7.49	--	6.86	
A-21	11/07/12	14.35	7.04	--	7.31	
A-21	02/27/13	14.35	7.32	--	7.03	
A-21	04/08/13	14.35	7.23	--	7.12	
A-21	07/29/13	14.35	7.59	--	6.76	
A-21	10/02/13	14.35	7.57	--	6.78	
A-21	01/21/14	14.35	8.71	--	5.64	
A-22	09/21/01	10.69	--	--	--	Destroyed
A-22				<b>Destroyed</b>		
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*	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-22R	11/18/03	14.11	7.70	0.05	6.45*	
A-22R	02/24/04	14.11	7.01	Sheen	7.10	
A-22R	05/10/04	14.11	7.68	<0.01	6.43*	
A-22R	08/24/04	14.11	7.90	0.18	6.35*	
A-22R	12/13/04	14.11	7.40	Sheen	6.71	
A-22R	03/08/05	14.11	7.08	--	7.03	
A-22R	06/06/05	14.11	7.21	--	6.90	
A-22R	09/19/05	14.11	8.11	0.01	6.01*	
A-22R	10/12/05	14.11	8.22	0.20	6.05*	
A-22R	12/12/05	14.11	7.87	--	6.24	
A-22R	03/13/06	14.11	7.15	--	6.96	
A-22R	06/05/06	14.11	7.75	--	6.36	
A-22R	09/11/06	14.11	8.16	--	5.95	
A-22R	12/11/06	14.11	7.14	--	6.97	
A-22R	03/26/07	14.11	7.34	--	6.77	
A-22R	06/18/07	14.11	7.86	--	6.25	
A-22R	12/10/07	14.11	7.38	--	6.73	
A-22R	03/03/08	14.11	7.47	--	6.64	
A-22R	06/02/08	14.11	8.90	--	5.21	
A-22R	09/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	12/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	03/04/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	06/01/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	09/21/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	11/16/09	14.11	7.36	--	6.75	
A-22R	03/08/10	14.11	6.95	--	7.16	
A-22R	06/07/10	14.11	7.52	--	6.59	
A-22R	09/09/10	14.11	7.94	--	6.17	
A-22R	11/15/10	14.11	7.92	--	6.19	
A-22R	03/01/11	14.11	7.21	--	6.90	
A-22R	05/23/11	14.11	7.35	--	6.76	
A-22R	08/29/11	14.11	7.87	--	6.24	
A-22R	12/01/11	14.11	7.75	--	6.36	
A-22R	03/01/12	14.11	7.37	--	6.74	
A-22R	05/30/12	14.11	7.48	--	6.63	
A-22R	08/25/12	14.11	7.62	--	6.49	
A-22R	11/07/12	14.11	7.18	--	6.93	
A-22R	02/27/13	14.11	7.38	--	6.73	
A-22R	04/08/13	14.11	7.31	--	6.80	
A-22R	07/29/13	14.11	7.64	--	6.47	
A-22R	10/02/13	14.11	7.01	--	7.10	
A-22R	01/21/14	14.11	7.63	--	6.48	
A-23	06/14/01	--	--	--	--	Destroyed during construction activities
A-23	<b>Destroyed during construction activities</b>					
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-23R	11/04/02	11.73	9.81	--	1.92	
A-23R	02/18/03	11.73	8.75	--	2.98	
A-23R	06/09/03	11.73	9.35	--	2.38	
A-23R	09/15/03	15.57	10.03	--	5.54	
A-23R	11/18/03	15.57	7.85	--	7.72	
A-23R	02/24/04	15.57	8.05	--	7.52	
A-23R	05/10/04	15.57	8.69	--	6.88	
A-23R	08/24/04	15.57	7.69	--	7.88	
A-23R	12/13/04	15.57	9.22	--	6.35	
A-23R	03/08/05	15.57	9.38	--	6.19	
A-23R	06/07/05	15.57	9.35	--	6.22	
A-23R	09/20/05	15.57	9.68	--	5.89	
A-23R	12/12/05	15.57	9.20	--	6.37	
A-23R	03/13/06	15.57	8.69	--	6.88	
A-23R	06/08/06	15.57	9.13	--	6.44	
A-23R	09/11/06	15.57	10.03	--	5.54	
A-23R	12/11/06	15.57	8.72	--	6.85	
A-23R	03/26/07	15.57	8.94	--	6.63	
A-23R	06/18/07	15.57	9.37	--	6.20	
A-23R	09/25/07	--	--	--	--	Not Measured-Inaccessible
A-23R	12/10/07	15.57	8.91	--	6.66	
A-23R	03/03/08	15.57	9.00	--	6.57	
A-23R	06/02/08	15.57	9.22	--	6.35	
A-23R	09/04/08	15.57	--	--	--	Not Measured-Inaccessible
A-23R	12/04/08	15.57	9.34	--	6.23	
A-23R	03/04/09	15.57	9.81	--	5.76	
A-23R	06/01/09	15.57	9.26	--	6.31	
A-23R	09/21/09	15.57	9.51	--	6.06	
A-23R	11/16/09	15.57	8.94	--	6.63	
A-23R	03/08/10	15.57	8.48	--	7.09	
A-23R	06/07/10	15.57	8.95	--	6.62	
A-23R	09/09/10	15.57	9.45	--	6.12	
A-23R	11/16/10	15.57	9.01	--	6.56	
A-23R	03/01/11	15.57	8.68	--	6.89	
A-23R	05/24/11	15.57	8.85	--	6.72	
A-23R	08/29/11	15.57	9.41	--	6.16	
A-23R	12/01/11	15.57	9.09	--	6.48	
A-23R	03/01/12	15.57	8.79	--	6.78	
A-23R	05/30/12	15.57	8.73	--	6.84	
A-23R	08/25/12	15.57	--	--	--	Inaccessible due to site access issues
A-23R	11/07/12	15.57	8.52	--	7.05	
A-23R	02/27/13	15.57	8.45	--	7.12	
A-23R	04/08/13	15.57	8.63	--	6.94	
A-23R	07/29/13	15.57	8.92	--	6.65	
A-23R	10/02/13	15.57	8.81	--	6.76	
A-23R	01/21/14	15.57	9.16	--	6.41	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-24	10/06/00	--	--	--	--	Destroyed during construction activities
<b>A-24 Destroyed during construction activities</b>						
A-25	02/11/02	10.12	6.78	--	3.34	
A-25	05/20/02	10.12	8.56	--	1.56	
A-25	08/27/02	10.12	7.99	--	2.13	
A-25	11/04/02	10.12	8.18	--	1.94	
A-25	02/18/03	10.12	7.08	--	3.04	
A-25	06/09/03	10.12	8.71	--	1.41	
A-25	09/15/03	13.90	8.05	--	5.85	
A-25	11/18/03	13.90	7.50	Sheen	6.40	
A-25	02/24/04	13.90	7.00	--	6.90	
A-25	05/10/04	13.90	7.75	--	6.15	
A-25	08/24/04	13.90	7.82	--	6.08	
A-25	12/13/04	13.90	7.46	--	6.44	
A-25	03/08/05	13.90	7.70	--	6.20	
A-25	06/06/05	13.90	7.53	--	6.37	
A-25	09/19/05	13.90	8.07	0.01	5.84*	
A-25	10/12/05	13.90	7.95	--	5.95	
A-25	12/12/05	13.90	7.79	--	6.11	
A-25	03/13/06	13.90	6.98	--	6.92	
A-25	06/05/06	13.90	7.43	--	6.47	
A-25	09/11/06	13.90	8.10	--	5.80	
A-25	12/11/06	13.90	7.05	--	6.85	
A-25	12/10/07	13.90	7.23	--	6.67	
A-25	03/03/08	13.90	7.36	--	6.54	
A-25	03/04/09	13.90	7.37	--	6.53	
A-25	06/01/09	13.90	7.81	--	6.09	
A-25	09/21/09	13.90	8.00	--	5.90	
A-25	11/16/09	13.90	7.16	--	6.74	
A-25	03/08/10	13.90	6.83	--	7.07	
A-25	06/07/10	13.90	7.36	--	6.54	
A-25	09/09/10	13.90	7.97	--	5.93	
A-25	11/15/10	13.90	7.44	Sheen	6.46	
A-25	03/01/11	13.90	7.04	--	6.86	
A-25	05/23/11	13.90	7.18	--	6.72	
A-25	08/29/11	13.90	7.81	--	6.09	
A-25	12/01/11	13.90	7.52	--	6.38	
A-25	03/01/12	13.90	7.75	--	6.15	
A-25	05/30/12	13.90	7.30	--	6.60	
A-25	08/25/12	13.90	7.56	--	6.34	
A-25	11/07/12	13.90	7.11	--	6.79	
A-25	02/27/13	13.90	7.18	--	6.72	
A-25	04/08/13	13.90	7.08	--	6.82	
A-25	07/29/13	13.90	7.52	--	6.38	
A-25	10/02/13	13.90	7.23	--	6.67	
A-25	01/21/14	13.90	7.51	--	6.39	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-26	03/27/01	--	--	--	--	Destroyed during construction of utility trench
<b>A-26 Destroyed during construction activities of utility trench</b>						
A-26R	02/11/02	10.39	7.13	0.02	3.28*	
A-26R	05/20/02	10.39	9.79	--	0.60	
A-26R	08/27/02	10.39	8.23	0.02	2.18*	
A-26R	11/04/02	10.39	8.41	0.04	2.01*	
A-26R	02/18/03	10.39	7.29	--	3.10	
A-26R	06/09/03	10.39	7.92	--	2.47	
A-26R	09/15/03	14.19	8.31	--	5.88	
A-26R	11/18/03	14.19	7.64	Sheen	6.55	
A-26R	02/24/04	14.19	7.17	--	7.02	
A-26R	05/10/04	14.19	7.93	--	6.26	
A-26R	08/24/04	14.19	8.10	--	6.09	
A-26R	12/13/04	14.19	7.55	--	6.64	
A-26R	03/08/05	14.19	7.80	--	6.39	
A-26R	06/06/05	14.19	7.18	--	7.01	
A-26R	09/19/05	14.19	8.25	0.01	5.95*	
A-26R	10/12/05	14.19	8.20	--	5.99	
A-26R	12/12/05	14.19	7.98	--	6.21	
A-26R	03/13/06	14.19	7.21	--	6.98	
A-26R	06/05/06	14.19	7.66	--	6.53	
A-26R	09/11/06	14.19	8.25	--	5.94	
A-26R	12/11/06	14.19	7.22	--	6.97	
A-26R	12/10/07	14.19	7.48	--	6.71	
A-26R	03/03/08	14.19	7.58	--	6.61	
A-26R	03/04/09	14.19	7.56	--	6.63	
A-26R	06/01/09	14.19	--	--	--	Not Measured-Inaccessible
A-26R	09/21/09	14.19	8.21	--	5.98	
A-26R	11/16/09	14.19	7.48	--	6.71	
A-26R	03/08/10	14.19	7.04	--	7.15	
A-26R	06/07/10	14.19	7.57	--	6.62	
A-26R	09/09/10	14.19	8.17	--	6.02	
A-26R	11/15/10	14.19	7.69	--	6.50	
A-26R	03/01/11	14.19	7.28	--	6.91	
A-26R	05/23/11	14.19	7.40	--	6.79	
A-26R	08/29/11	14.19	7.99	--	6.20	
A-26R	12/01/11	14.19	7.81	--	6.38	
A-26R	03/01/12	14.19	7.47	--	6.72	
A-26R	05/30/12	14.19	7.55	--	6.64	
A-26R	08/25/12	14.19	7.73	--	6.46	
A-26R	11/07/12	14.19	7.37	--	6.82	
A-26R	02/27/13	14.19	7.42	--	6.77	
A-26R	04/08/13	14.19	7.34	--	6.85	
A-26R	07/29/13	14.19	7.69	--	6.50	
A-26R	10/02/13	14.19	7.41	--	6.78	
A-26R	01/21/14	14.19	7.69	--	6.50	
A-27	02/11/02	13.45	10.05	--	3.40	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-27	05/20/02	13.45	12.84	--	0.61	
A-27	08/27/02	13.45	11.31	--	2.14	
A-27	11/04/02	13.45	11.46	--	1.99	
A-27	02/18/03	13.45	10.32	--	3.13	
A-27	06/09/03	13.45	10.97	--	2.48	
A-27	09/15/03	17.22	11.38	--	5.84	
A-27	11/18/03	17.22	10.75	--	6.47	
A-27	02/24/04	17.22	10.15	--	7.07	
A-27	05/10/04	17.22	8.00	--	9.22	
A-27	08/24/04	17.22	11.15	--	6.07	
A-27	12/13/04	17.22	7.80	--	9.42	
A-27	03/08/05	17.22	10.83	--	6.39	
A-27	06/06/05	17.22	10.80	--	6.42	
A-27	09/19/05	17.22	11.32	--	5.90	
A-27	12/12/05	17.22	11.01	--	6.21	
A-27	03/13/06	17.22	10.17	--	7.05	
A-27	06/05/06	17.22	10.69	--	6.53	
A-27	09/11/06	17.22	11.30	--	5.92	
A-27	12/11/06	17.22	10.16	--	7.06	
A-27	03/26/07	17.22	10.41	--	6.81	
A-27	06/18/07	17.22	11.00	--	6.22	
A-27	09/24/07	17.22	11.20	--	6.02	
A-27	12/10/07	17.22	10.41	--	6.81	
A-27	03/03/08	17.22	10.54	--	6.68	
A-27	06/02/08	17.22	11.06	--	6.16	
A-27	09/04/08	17.22	11.50	--	5.72	
A-27	12/04/08	17.22	11.05	--	6.17	
A-27	03/04/09	17.22	10.64	--	6.58	
A-27	06/01/09	17.22	10.87	--	6.35	
A-27	09/21/09	17.22	11.25	--	5.97	
A-27	11/16/09	17.22	10.50	--	6.72	
A-27	03/08/10	17.22	10.01	--	7.21	
A-27	06/07/10	17.22	10.54	--	6.68	
A-27	09/09/10	17.22	11.19	--	6.03	
A-27	11/15/10	17.22	10.61	--	6.61	
A-27	03/01/11	17.22	10.20	--	7.02	
A-27	05/23/11	17.22	10.30	--	6.92	
A-27	08/29/11	17.22	11.03	--	6.19	
A-27	12/01/11	17.22	10.72	--	6.50	
A-27	03/01/12	17.22	10.44	--	6.78	
A-27	05/30/12	17.22	10.47	--	6.75	
A-27	08/25/12	17.22	10.78	--	6.44	
A-27	11/07/12	17.22	10.33	--	6.89	
A-27	02/27/13	17.22	10.28	--	6.94	
A-27	04/08/13	17.22	10.24	--	6.98	
A-27	06/21/13	17.22	10.68	--	6.54	Baseline monitoring event
A-27	07/29/13	17.22	10.69	--	6.53	
A-27	08/26/13	17.22	10.71	--	6.51	Two-month monitoring event

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-27	10/02/13	17.22	10.40	--	6.82	
A-27	01/21/14	17.22	10.63	--	6.59	
A-28	06/14/01	--	--	--	--	Destroyed during construction activities
A-28	<b>Destroyed during construction activities</b>					
A-28R	02/11/02	11.19	7.72	--	3.47	
A-28R	05/20/02	11.19	9.51	--	1.68	
A-28R	08/27/02	11.19	8.97	--	2.22	
A-28R	11/04/02	11.19	9.20	--	1.99	
A-28R	02/18/03	11.19	8.20	--	2.99	
A-28R	06/09/03	11.19	8.67	--	2.52	
A-28R	09/15/03	14.93	9.05	--	5.88	
A-28R	11/18/03	14.93	8.45	--	6.48	
A-28R	02/24/04	14.93	7.91	--	7.02	
A-28R	05/10/04	14.93	8.66	--	6.27	
A-28R	08/24/04	14.93	7.90	--	7.03	
A-28R	12/13/04	14.93	8.58	--	6.35	
A-28R	03/08/05	14.93	8.67	--	6.26	
A-28R	06/06/05	14.93	8.47	--	6.46	
A-28R	09/19/05	14.93	8.99	--	5.94	
A-28R	12/12/05	14.93	7.71	--	7.22	
A-28R	03/13/06	14.93	7.79	--	7.14	
A-28R	06/05/06	14.93	9.13	--	5.80	
A-28R	09/11/06	14.93	9.00	--	5.93	
A-28R	12/11/06	14.93	7.89	--	7.04	
A-28R	03/26/07	14.93	8.05	--	6.88	
A-28R	06/18/07	14.93	8.64	--	6.29	
A-28R	09/24/07	14.93	8.81	--	6.12	
A-28R	12/10/07	14.93	8.01	--	6.92	
A-28R	03/03/08	14.93	8.17	--	6.76	
A-28R	06/02/08	14.93	8.64	--	6.29	
A-28R	09/04/08	14.93	8.73	--	6.20	
A-28R	12/04/08	14.93	8.69	--	6.24	
A-28R	03/04/09	14.93	8.29	--	6.64	
A-28R	06/01/09	14.93	8.51	--	6.42	
A-28R	09/21/09	14.93	8.92	--	6.01	
A-28R	11/16/09	14.93	8.21	--	6.72	
A-28R	03/08/10	14.93	7.61	--	7.32	
A-28R	06/07/10	14.93	8.14	--	6.79	
A-28R	09/09/10	14.93	8.73	--	6.20	
A-28R	11/15/10	14.93	8.22	--	6.71	
A-28R	03/01/11	14.93	7.80	--	7.13	
A-28R	05/23/11	14.93	7.89	--	7.04	
A-28R	08/29/11	14.93	8.70	--	6.23	
A-28R	12/01/11	14.93	8.32	--	6.61	
A-28R	03/01/12	14.93	7.95	--	6.98	
A-28R	05/30/12	14.93	8.04	--	6.89	
A-28R	08/25/12	14.93	8.35	--	6.58	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-28R	11/07/12	14.93	7.89	--	7.04	
A-28R	02/27/13	14.93	7.78	--	7.15	
A-28R	04/08/13	14.93	7.67	--	7.26	
A-28R	07/29/13	14.93	8.20	--	6.73	
A-28R	10/02/13	14.93	7.88	--	7.05	
A-28R	01/21/14	14.93	8.20	--	6.73	
A-29	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-29	<b>Destroyed during construction activities of utility trench</b>					
A-29R	02/11/02	10.12	6.78	--	3.34	
A-29R	05/20/02	10.12	8.53	--	1.59	
A-29R	08/27/02	10.12	7.92	--	2.20	
A-29R	11/04/02	10.12	8.09	--	2.03	
A-29R	02/18/03	10.12	7.05	--	3.07	
A-29R	02/19/03	10.12	7.05	--	3.07	
A-29R	06/09/03	10.12	7.61	--	2.51	
A-29R	09/15/03	13.85	8.00	--	5.85	
A-29R	11/18/03	13.85	7.50	--	6.35	
A-29R	02/24/04	13.85	6.97	--	6.88	
A-29R	05/10/04	13.85	7.66	--	6.19	
A-29R	08/24/04	13.85	7.43	--	6.42	
A-29R	12/13/04	13.85	7.46	--	6.39	
A-29R	03/08/05	13.85	7.65	--	6.20	
A-29R	06/06/05	13.85	7.51	--	6.34	
A-29R	09/19/05	13.85	8.02	--	5.83	
A-29R	12/12/05	13.85	7.75	--	6.10	
A-29R	03/13/06	13.85	--	--	--	Not Measured-Inaccessible
A-29R	06/05/06	13.85	7.44	--	6.41	
A-29R	09/11/06	13.85	8.00	--	5.85	
A-29R	12/11/06	13.85	7.07	--	6.78	
A-29R	03/26/07	13.85	7.25	--	6.60	
A-29R	06/18/07	13.85	7.58	--	6.27	
A-29R	09/24/07	13.85	8.03	--	5.82	
A-29R	12/10/07	13.85	7.21	--	6.64	
A-29R	06/02/08	13.85	8.46	--	5.39	
A-29R	09/04/08	13.85	7.82	--	6.03	
A-29R	12/04/08	13.85	7.78	--	6.07	
A-29R	05/23/11	13.85	7.22	--	6.63	
3	02/11/02	9.78	5.71	--	4.07	Casing Damaged
3	05/20/02	9.78	7.97	--	1.81	Casing Damaged
3	08/27/02	9.78	7.57	--	2.21	Casing Damaged
3	11/04/02	9.78	7.82	--	1.96	Casing Damaged
3	02/18/03	9.78	6.02	--	3.76	Casing Damaged
3	06/09/03	9.78	7.16	--	2.62	Casing Damaged
3	06/11/03	--	--	--	--	Abandoned
3	<b>Abandoned</b>					
4	02/11/02	7.97	3.86	--	4.11	
4	05/20/02	7.97	6.07	--	1.90	



**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 (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
4	08/27/02	7.97	5.17	--	2.80	
4	11/04/02	7.97	5.40	--	2.57	
4	02/18/03	7.97	3.78	--	4.19	
4	02/19/03	7.97	3.78	--	4.19	
4	06/09/03	7.97	4.75	--	3.22	
4	09/15/03	11.01	5.37	--	5.64	Casing Broken
4	11/18/03	11.01	4.33	--	6.68	Casing Broken
4	02/24/04	11.01	3.91	--	7.10	Casing Broken
4	05/10/04	11.01	4.75	--	6.26	Casing Broken
4	08/24/04	11.01	4.94	--	6.07	Casing Broken
4	12/13/04	11.01	4.17	--	6.84	Casing Broken
4	03/08/05	11.01	3.80	--	7.21	Casing Broken
4	06/06/05	11.01	4.63	--	6.38	Casing Broken
4	09/19/05	11.01	--	--	--	Not Measured-Casing Broken
4	12/12/05	11.01	4.76	--	6.25	Casing Broken
4	03/13/06	11.01	3.82	--	7.19	Casing Broken
4	06/05/06	11.01	--	--	--	Not Measured-Casing Broken
4	09/11/06	11.01	--	--	--	Not Measured-Casing Broken
4	12/11/06	11.01	--	--	--	Not Measured-Casing Broken
5	02/11/02	8.30	3.73	--	4.57	Casing Damaged
5	05/20/02	8.30	5.89	--	2.41	Casing Damaged
5	08/27/02	8.30	5.40	--	2.90	Casing Damaged
5	11/04/02	8.30	5.74	--	2.56	Casing Damaged
5	02/18/03	8.30	4.20	--	4.10	Casing Damaged
5	06/11/03	--	--	--	--	Abandoned
5				<b>Abandoned</b>		
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
7	12/18/00	9.09	6.02	--	3.07	
7	03/27/01	9.09	6.44	--	2.65	
7	06/14/01	9.09	6.49	--	2.60	
7	09/21/01	9.09	6.91	--	2.18	
7	02/11/02	9.09	5.23	--	3.86	
7	05/20/02	9.09	7.31	--	1.78	
7	08/27/02	9.09	6.85	--	2.24	
7	11/04/02	9.09	7.07	--	2.02	
7	02/18/03	9.09	7.74	--	1.35	
7	06/09/03	9.09	6.45	--	2.64	
7	09/15/03	12.72	7.04	--	5.68	
7	11/18/03	12.72	6.11	--	6.61	
7	02/24/04	12.72	5.96	--	6.76	
7	05/10/04	12.72	6.62	--	6.10	
7	08/24/04	12.72	6.56	--	6.16	
7	12/13/04	12.72	6.00	--	6.72	
7	03/08/05	12.72	5.66	--	7.06	
7	06/06/05	12.72	6.45	--	6.27	
7	09/19/05	12.72	7.04	--	5.68	
7	12/12/05	12.72	6.69	--	6.03	
7	03/13/06	12.72	5.07	--	7.65	
7	06/05/06	12.72	7.40	--	5.32	
7	09/11/06	12.72	6.98	--	5.74	
7	12/11/06	12.72	5.62	--	7.10	
8	02/11/02	9.42	5.20	--	4.22	
8	05/20/02	9.42	7.52	--	1.90	Casing Tilted
8	08/27/02	9.42	7.12	--	2.30	Casing Tilted
8	11/04/02	9.42	7.25	--	2.17	Casing Tilted
8	02/18/03	9.42	5.79	--	3.63	Casing Tilted
8	06/11/03	--	--	--	--	Abandoned
8	<b>Abandoned</b>					
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
9	06/05/06	12.89	5.51	--	7.38	
9	09/11/06	12.89	6.80	--	6.09	
9	12/11/06	12.89	4.79	--	8.10	
10	02/11/02	9.57	4.39	--	5.18	
10	05/20/02	9.57	6.98	--	2.59	
10	08/27/02	9.57	6.95	--	2.62	
10	11/04/02	9.57	7.29	--	2.28	
10	02/18/03	9.57	5.05	--	4.52	
10	06/09/03	9.57	6.34	--	3.23	
10	09/15/03	13.20	7.21	--	5.99	
10	11/18/03	13.20	5.62	--	7.58	
10	02/24/04	13.20	5.21	--	7.99	
10	05/10/04	13.20	6.47	--	6.73	
10	08/24/04	13.20	6.61	--	6.59	
10	12/13/04	13.20	5.48	--	7.72	
10	03/08/05	13.20	6.41	--	6.79	
10	06/06/05	13.20	6.09	--	7.11	
10	09/19/05	13.20	7.17	--	6.03	
10	12/12/05	13.20	6.29	--	6.91	
10	03/13/06	13.20	5.15	--	8.05	
10	06/05/06	13.20	5.70	--	7.50	
10	09/11/06	13.20	7.06	--	6.14	
10	12/11/06	13.20	4.88	--	8.32	
11	02/11/02	8.57	3.01	--	5.56	
11	05/20/02	8.57	5.61	--	2.96	
11	08/27/02	8.57	5.76	--	2.81	
11	11/04/02	8.57	6.03	--	2.54	
11	02/18/03	8.57	3.57	--	5.00	
11	06/09/03	8.57	4.98	--	3.59	
11	09/15/03	12.08	6.00	--	6.08	
11	11/18/03	12.08	2.38	--	9.70	
11	02/24/04	12.08	3.70	--	8.38	
11	05/10/04	12.08	5.07	--	7.01	
11	08/24/04	12.08	5.02	--	7.06	
11	12/13/04	12.08	4.12	--	7.96	
11	03/08/05	12.08	4.99	--	7.09	
11	06/06/05	12.08	4.74	--	7.34	
11	09/19/05	12.08	5.93	--	6.15	
11	12/12/05	12.08	4.95	--	7.13	
11	03/13/06	12.08	3.64	--	8.44	
11	06/05/06	12.08	4.32	--	7.76	
11	09/11/06	12.08	5.82	--	6.26	
11	12/11/06	12.08	3.91	--	8.17	
11	06/21/13	12.08	4.57	--	7.51	Baseline monitoring event
11	07/29/13	12.08	4.99	--	7.09	
11	08/26/13	12.08	4.99	--	7.09	Two-month monitoring event
11	10/02/13	12.08	3.96	--	8.12	
11	01/21/14	12.08	4.60	--	7.48	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
12	02/11/02	9.06	3.57	0.04	5.52*	
12	05/20/02	9.06	6.14	0.04	2.95*	Casing Damaged
12	08/27/02	9.06	3.41	0.01	5.66*	Casing Damaged
12	11/04/02	9.06	3.80	0.01	5.27*	Casing Damaged
12	02/18/03	9.06	0.80	Sheen	8.26	Casing Damaged
12	06/09/03	9.06	2.99	Sheen	6.07	Casing Damaged
12	09/15/03	9.79	--	--	--	Not Measured-Not Located
12	11/18/03	9.79	--	--	--	Not Measured-surface water covering well 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	
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
12	06/21/13	9.79	2.84	--	6.95	Baseline monitoring event
12	07/29/13	9.79	3.95	--	5.84	
12	08/26/13	9.79	1.91	--	7.88	Two-month monitoring event
12	10/02/13	9.79	1.14	--	8.65	
12	01/21/14	9.79	2.11	--	7.68	
13	02/11/02	9.77	5.06	--	4.71	
13	05/20/02	9.77	7.30	--	2.47	
13	08/27/02	9.77	7.15	--	2.62	
13	11/04/02	--	--	--	--	Not Measured-Recently destroyed
13	06/11/03	--	--	--	--	Abandoned
13	<b>Abandoned</b>					
14	06/11/03	--	--	--	--	Abandoned
14	<b>Abandoned</b>					
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	<b>Abandoned</b>					
16	02/11/02	9.73	4.50	--	5.23	
16	05/20/02	9.73	7.12	--	2.61	
16	08/27/02	9.73	7.14	--	2.59	
16	11/04/02	9.73	7.46	--	2.27	
16	02/18/03	9.73	5.12	--	4.61	
16	06/09/03	9.73	6.51	--	3.22	
16	09/15/03	13.29	7.37	--	5.92	
16	11/18/03	13.29	5.60	--	7.69	
16	02/24/04	13.29	5.46	--	7.83	
16	05/10/04	13.29	6.42	--	6.87	
16	08/24/04	13.29	6.81	--	6.48	
16	12/13/04	13.29	5.94	--	7.35	
16	03/08/05	13.29	6.51	--	6.78	
16	06/06/05	13.29	6.24	--	7.05	
16	09/19/05	13.29	7.30	--	5.99	
16	12/12/05	13.29	6.46	--	6.83	
16	03/13/06	13.29	5.20	--	8.09	
16	06/05/06	13.29	5.76	--	7.53	
16	09/11/06	13.29	7.21	--	6.08	
16	12/11/06	13.29	4.88	--	8.41	
17	02/11/02	11.48	6.39	--	5.09	
17	05/20/02	11.48	8.61	--	2.87	
17	08/27/02	11.48	8.68	--	2.80	
17	11/04/02	11.48	9.06	--	2.42	
17	02/18/03	11.48	6.92	--	4.56	
17	06/09/03	11.48	7.95	--	3.53	
17	09/15/03	15.06	8.89	--	6.17	
17	11/18/03	15.06	8.51	--	6.55	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
20	03/13/06	12.49	3.64	--	8.85	
20	06/05/06	12.49	4.44	--	8.05	
20	09/11/06	12.49	5.98	--	6.51	
20	12/11/06	12.49	3.47	--	9.02	
21	02/11/02	9.42	3.58	--	5.84	
21	05/20/02	9.42	6.18	--	3.24	
21	08/27/02	9.42	6.43	--	2.99	
21	11/04/02	9.42	6.81	--	2.61	
21	02/18/03	9.42	4.18	--	5.24	
21	06/09/03	9.42	5.56	--	3.86	
21	09/15/03	13.04	6.68	--	6.36	
21	11/18/03	13.04	5.03	--	8.01	
21	02/24/04	13.04	4.30	--	8.74	
21	05/10/04	13.04	6.56	--	6.48	
21	08/24/04	13.04	6.04	--	7.00	
21	12/13/04	13.04	5.02	--	8.02	
21	03/08/05	13.04	5.62	--	7.42	
21	06/06/05	13.04	5.43	--	7.61	
21	09/19/05	13.04	6.63	--	6.41	
21	12/12/05	13.04	5.70	--	7.34	
21	03/13/06	13.04	4.19	--	8.85	
21	06/05/06	13.04	4.96	--	8.08	
21	09/11/06	13.04	6.50	--	6.54	
21	12/11/06	13.04	3.99	--	9.05	
22	02/11/02	9.57	3.72	--	5.85	
22	05/20/02	9.57	6.21	--	3.36	
22	08/27/02	9.57	6.55	--	3.02	
22	11/04/02	9.57	6.89	--	2.68	
22	02/18/03	9.57	4.27	--	5.30	
22	06/09/03	9.57	5.60	--	3.97	
22	09/15/03	13.19	6.75	--	6.44	
22	11/18/03	13.19	5.07	--	8.12	
22	02/24/04	13.19	4.39	--	8.80	
22	05/10/04	13.19	5.75	--	7.44	
22	08/24/04	13.19	6.23	--	6.96	
22	12/13/04	13.19	5.04	--	8.15	
22	03/08/05	13.19	5.77	--	7.42	
22	06/06/05	13.19	5.55	--	7.64	
22	09/19/05	13.19	6.75	--	6.44	
22	12/12/05	13.19	5.80	--	7.39	
22	03/13/06	13.19	4.35	--	8.84	
22	06/05/06	13.19	5.04	--	8.15	
22	09/11/06	13.19	6.66	--	6.53	
22	12/11/06	13.19	4.11	--	9.08	
23	02/11/02	8.94	3.51	--	5.43	
23	05/20/02	8.94	5.93	--	3.01	
23	08/27/02	8.94	5.93	--	3.01	
23	11/04/02	8.94	6.29	--	2.65	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
23	02/18/03	8.94	4.04	--	4.90	
23	06/09/03	8.94	5.26	--	3.68	
23	09/15/03	12.55	6.19	--	6.36	
23	11/18/03	12.55	6.11	--	6.44	
23	02/24/04	12.55	4.20	--	8.35	
23	05/10/04	12.55	5.35	--	7.20	
23	08/24/04	12.55	5.78	--	6.77	
23	12/13/04	12.55	4.73	--	7.82	
23	03/08/05	12.55	5.37	--	7.18	
23	06/06/05	12.55	5.16	--	7.39	
23	09/19/05	12.55	6.46	--	6.09	
23	12/12/05	12.55	5.40	--	7.15	
23	03/13/06	12.55	4.03	--	8.52	
23	06/05/06	12.55	4.79	--	7.76	
23	09/11/06	12.55	6.13	--	6.42	
23	12/11/06	12.55	4.01	--	8.54	
24	06/11/03	--	--	--	--	Abandoned
24	<b>Abandoned</b>					
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	<b>Abandoned</b>					
26	02/11/02	9.43	3.70	--	5.73	
26	05/20/02	9.43	--	--	--	Not Measured-Dry
26	08/27/02	9.43	6.02	--	3.41	
26	11/04/02	9.43	5.97	--	3.46	
26	02/18/03	9.43	5.11	--	4.32	
26	06/09/03	9.43	6.02	--	3.41	
26	09/15/03	13.87	6.01	--	7.86	
26	11/18/03	13.87	4.32	--	9.55	
26	02/24/04	13.87	5.14	--	8.73	
26	05/10/04	13.87	6.05	--	7.82	
26	08/24/04	13.87	5.19	--	8.68	
26	12/13/04	13.87	5.99	--	7.88	
26	03/08/05	13.87	6.02	--	7.85	
26	06/06/05	13.87	6.02	--	7.85	
26	09/19/05	13.87	4.51	--	9.36	
26	12/12/05	13.87	6.05	--	7.82	
26	03/13/06	13.87	5.00	--	8.87	
26	06/05/06	13.87	5.78	--	8.09	
26	09/11/06	13.87	7.01	--	6.86	
26	12/11/06	13.87	4.81	--	9.06	
27	02/11/02	9.20	3.57	--	5.63	
27	05/20/02	9.20	6.00	--	3.20	
27	08/27/02	9.20	6.21	--	2.99	



**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
27	11/04/02	9.20	6.63	--	2.57	
27	02/18/03	9.20	4.03	--	5.17	
27	06/09/03	9.01	5.22	--	3.79	
27	09/15/03	12.65	6.36	--	6.29	
27	11/18/03	12.65	5.84	--	6.81	
27	02/24/04	12.65	4.04	--	8.61	
27	05/10/04	12.65	5.31	--	7.34	
27	08/24/04	12.65	5.71	--	6.94	
27	12/13/04	12.65	4.91	--	7.74	
27	03/08/05	12.65	5.28	--	7.37	
27	06/06/05	12.65	5.13	--	7.52	
27	09/19/05	12.65	6.22	--	6.43	
27	12/12/05	12.65	5.40	--	7.25	
27	03/13/06	12.65	3.82	--	8.83	
27	06/05/06	12.65	4.66	--	7.99	
27	09/11/06	12.65	6.16	--	6.49	
27	12/11/06	12.65	3.60	--	9.05	
MW-1	02/11/02	9.37	4.60	--	4.77	
MW-1	05/20/02	9.37	6.75	--	2.62	
MW-1	08/27/02	9.37	6.51	--	2.86	
MW-1	11/04/02	9.37	6.90	--	2.47	
MW-1	02/18/03	9.37	5.10	--	4.27	
MW-1	06/09/03	9.37	5.94	--	3.43	
MW-1	09/15/03	13.21	6.72	--	6.49	
MW-1	11/18/03	13.21	5.91	--	7.30	
MW-1	02/24/04	13.21	5.05	--	8.16	
MW-1	05/10/04	13.21	6.06	--	7.15	
MW-1	08/24/04	13.21	6.45	--	6.76	
MW-1	12/13/04	13.21	5.63	--	7.58	
MW-1	03/08/05	13.21	6.09	--	7.12	
MW-1	06/06/05	13.21	6.93	--	6.28	
MW-1	09/19/05	13.21	6.74	--	6.47	
MW-1	12/12/05	13.21	6.16	--	7.05	
MW-1	03/13/06	13.21	4.96	--	8.25	
MW-1	06/05/06	13.21	5.72	--	7.49	
MW-1	09/11/06	13.21	6.72	--	6.49	
MW-1	12/11/06	13.21	5.20	--	8.01	
MW-1	03/26/07	13.21	5.24	--	7.97	
MW-1	06/18/07	13.21	5.98	--	7.23	
MW-1	09/25/07	13.21	6.72	--	6.49	
MW-1	12/10/07	13.21	5.34	--	7.87	
MW-1	03/03/08	13.21	5.70	--	7.51	
MW-1	06/02/08	13.21	6.30	--	6.91	
MW-1	09/04/08	13.21	6.48	--	6.73	
MW-1	12/04/08	13.21	6.33	--	6.88	
MW-1	03/04/09	13.21	--	--	--	Not Measured-Inaccessible
MW-1	06/01/09	13.21	6.00	--	7.21	
MW-1	09/21/09	13.21	6.75	--	6.46	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-1	11/16/09	13.21	5.62	--	7.59	
MW-1	03/08/10	13.21	5.05	--	8.16	
MW-1	06/07/10	13.21	5.48	--	7.73	
MW-1	09/09/10	13.21	6.55	--	6.66	
MW-1	11/15/10	13.21	5.71	--	7.50	
MW-1	03/01/11	13.21	4.97	--	8.24	
MW-1	05/23/11	13.21	5.04	--	8.17	
MW-1	08/29/11	13.21	6.35	--	6.86	
MW-1	12/01/11	13.21	5.80	--	7.41	
MW-1	03/01/12	13.21	5.59	--	7.62	
MW-1	05/30/12	13.21	5.55	--	7.66	
MW-1	08/25/12	13.21	6.25	--	6.96	
MW-1	11/07/12	13.21	5.58	--	7.63	
MW-1	02/27/13	13.21	5.24	--	7.97	
MW-1	04/08/13	13.21	5.12	--	8.09	
MW-1	07/29/13	13.21	6.19	--	7.02	
MW-1	10/02/13	13.21	5.83	--	7.38	
MW-1	01/21/14	13.21	5.96	--	7.25	
MW-2	02/11/02	11.33	6.13	--	5.20	
MW-2	05/20/02	11.33	8.40	--	2.93	
MW-2	08/27/02	11.33	8.50	--	2.83	
MW-2	11/04/02	11.33	8.85	--	2.48	
MW-2	02/18/03	11.33	6.10	--	5.23	
MW-2	06/09/03	11.33	7.68	--	3.65	
MW-2	09/15/03	15.22	8.71	--	6.51	
MW-2	11/18/03	15.22	7.60	--	7.62	
MW-2	02/24/04	15.22	6.56	--	8.66	
MW-2	05/10/04	15.22	7.78	--	7.44	
MW-2	08/24/04	15.22	8.33	--	6.89	
MW-2	12/13/04	15.22	7.69	--	7.53	
MW-2	03/08/05	15.22	7.72	--	7.50	
MW-2	06/06/05	15.22	7.61	--	7.61	
MW-2	09/19/05	15.22	8.58	--	6.64	
MW-2	12/12/05	15.22	7.86	--	7.36	
MW-2	03/13/06	15.22	6.38	--	8.84	
MW-2	06/05/06	15.22	7.39	--	7.83	
MW-2	09/11/06	15.22	8.50	--	6.72	
MW-2	12/11/06	15.22	6.37	--	8.85	
MW-2	03/26/07	15.22	6.71	--	8.51	
MW-2	06/18/07	15.22	7.68	--	7.54	
MW-2	09/24/07	15.22	8.84	--	6.38	
MW-2	12/10/07	15.22	6.85	--	8.37	
MW-2	03/03/08	15.22	7.14	--	8.08	
MW-2	06/02/08	15.22	7.91	--	7.31	
MW-2	09/04/08	15.22	8.33	--	6.89	
MW-2	12/04/08	15.22	8.01	--	7.21	
MW-2	03/04/09	15.22	7.43	--	7.79	
MW-2	06/01/09	15.22	7.54	--	7.68	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-2	09/21/09	15.22	8.52	--	6.70	
MW-2	11/16/09	15.22	7.28	--	7.94	
MW-2	03/08/10	15.22	6.42	--	8.80	
MW-2	06/07/10	15.22	7.00	--	8.22	
MW-2	09/09/10	15.22	8.26	--	6.96	
MW-2	11/15/10	15.22	7.21	--	8.01	
MW-2	03/01/11	15.22	6.26	--	8.96	
MW-2	05/23/11	15.22	6.39	--	8.83	
MW-2	08/29/11	15.22	8.01	--	7.21	
MW-2	12/01/11	15.22	7.56	--	7.66	
MW-2	03/01/12	15.22	7.03	--	8.19	
MW-2	05/30/12	15.22	6.97	--	8.25	
MW-2	08/25/12	15.22	7.88	--	7.34	
MW-2	11/07/12	15.22	7.34	--	7.88	
MW-2	02/27/13	15.22	6.59	--	8.63	
MW-2	04/08/13	15.22	6.36	--	8.86	
MW-2	07/29/13	15.22	7.82	--	7.40	
MW-2	10/02/13	15.22	7.44	--	7.78	
MW-2	01/21/14	15.22	7.55	--	7.67	
MW-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 (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	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-3	10/02/13	11.39	3.06	--	8.33	
MW-3	01/21/14	11.39	3.43	--	7.96	
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-4	03/04/09	14.69	6.68	--	8.01	
MW-4	06/01/09	14.69	6.78	--	7.91	
MW-4	09/21/09	14.69	7.56	--	7.13	
MW-4	11/16/09	14.69	6.34	--	8.35	
MW-4	03/08/10	14.69	5.86	--	8.83	
MW-4	06/07/10	14.69	6.27	--	8.42	
MW-4	09/09/10	14.69	7.40	--	7.29	
MW-4	11/15/10	14.69	6.39	--	8.30	
MW-4	03/01/11	14.69	5.70	--	8.99	
MW-4	05/23/11	14.69	5.74	--	8.95	
MW-4	08/29/11	14.69	7.25	--	7.44	
MW-4	12/01/11	14.69	6.52	--	8.17	
MW-4	03/01/12	14.69	6.38	--	8.31	
MW-4	05/30/12	14.69	6.33	--	8.36	
MW-4	08/25/12	14.69	7.05	--	7.64	
MW-4	11/07/12	14.69	6.31	--	8.38	
MW-4	02/27/13	14.69	6.02	--	8.67	
MW-4	04/08/13	14.69	5.74	--	8.95	
MW-4	07/29/13	14.69	7.02	--	7.67	
MW-4	10/02/13	14.69	6.53	--	8.16	
MW-4	01/21/14	14.69	6.75	--	7.94	
MW-5	02/11/02	7.10	1.50	--	5.60	
MW-5	05/20/02	7.10	4.06	--	3.04	
MW-5	08/27/02	7.10	4.23	--	2.87	
MW-5	11/04/02	7.10	4.63	--	2.47	
MW-5	02/18/03	7.10	1.98	--	5.12	
MW-5	06/09/03	7.10	3.47	--	3.63	
MW-5	09/15/03	11.13	4.49	--	6.64	
MW-5	11/18/03	11.13	2.81	--	8.32	
MW-5	02/24/04	11.13	2.11	--	9.02	
MW-5	05/10/04	11.13	3.50	--	7.63	
MW-5	08/24/04	11.13	3.71	--	7.42	
MW-5	12/13/04	11.13	2.75	--	8.38	
MW-5	03/08/05	11.13	3.53	--	7.60	
MW-5	06/06/05	11.13	3.22	--	7.91	
MW-5	09/19/05	11.13	4.33	--	6.80	
MW-5	12/12/05	11.13	3.43	--	7.70	
MW-5	03/13/06	11.13	2.10	--	9.03	
MW-5	06/05/06	11.13	2.59	--	8.54	
MW-5	09/11/06	11.13	4.33	--	6.80	
MW-5	12/11/06	11.13	1.70	--	9.43	
MW-5	03/26/07	11.13	2.22	--	8.91	
MW-5	06/18/07	11.13	--	--	--	Not Measured-No Access due to construction
MW-5	09/24/07	11.13	4.28	--	6.85	
MW-5	12/10/07	11.13	2.06	--	9.07	
MW-5	03/03/08	11.13	2.81	--	8.32	
MW-5	06/02/08	11.13	3.36	--	7.77	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-5	09/04/08	11.13	3.91	--	7.22	
MW-5	12/04/08	11.13	3.64	--	7.49	
MW-5	03/04/09	11.13	2.98	--	8.15	
MW-5	06/01/09	11.13	3.21	--	7.92	
MW-5	09/21/09	11.13	4.23	--	6.90	
MW-5	11/16/09	11.13	2.50	--	8.63	
MW-5	03/08/10	11.13	2.11	--	9.02	
MW-5	06/07/10	11.13	2.55	--	8.58	
MW-5	09/09/10	11.13	3.93	--	7.20	
MW-5	11/15/10	11.13	2.55	--	8.58	
MW-5	03/01/11	11.13	1.63	--	9.50	
MW-5	05/23/11	11.13	2.00	--	9.13	
MW-5	08/29/11	11.13	3.82	--	7.31	
MW-5	12/01/11	11.13	2.80	--	8.33	
MW-5	03/01/12	11.13	2.66	--	8.47	
MW-5	05/30/12	11.13	2.73	--	8.40	
MW-5	08/25/12	11.13	3.54	--	7.59	
MW-5	11/07/12	11.13	2.56	--	8.57	
MW-5	02/27/13	11.13	2.20	--	8.93	
MW-5	04/08/13	11.13	1.69	--	9.44	
MW-5	07/29/13	11.13	3.41	--	7.72	
MW-5	10/02/13	11.13	2.51	--	8.62	
MW-5	01/21/14	11.13	3.11	--	8.02	
MW-6	02/11/02	11.15	6.35	--	4.80	
MW-6	05/20/02	11.15	8.48	--	2.67	
MW-6	08/27/02	11.15	8.45	--	2.70	
MW-6	11/04/02	11.15	8.80	--	2.35	
MW-6	02/18/03	11.15	6.85	--	4.30	
MW-6	06/09/03	11.15	7.74	--	3.41	
MW-6	09/15/03	15.17	8.65	--	6.52	
MW-6	11/18/03	15.17	7.60	--	7.57	
MW-6	02/24/04	15.17	6.61	--	8.56	
MW-6	05/10/04	15.17	7.76	--	7.41	
MW-6	08/24/04	15.17	8.28	--	6.89	
MW-6	12/13/04	15.17	7.67	--	7.50	
MW-6	03/08/05	15.17	7.70	--	7.47	
MW-6	06/06/05	15.17	7.55	--	7.62	
MW-6	09/19/05	15.17	8.48	--	6.69	
MW-6	12/12/05	15.17	7.89	--	7.28	
MW-6	03/13/06	15.17	6.46	--	8.71	
MW-6	06/05/06	15.17	7.25	--	7.92	
MW-6	09/11/06	15.17	8.43	--	6.74	
MW-6	12/11/06	15.17	6.50	--	8.67	
MW-6	03/26/07	15.17	6.61	--	8.56	
MW-6	06/18/07	15.17	7.76	--	7.41	
MW-6	09/24/07	15.17	8.43	--	6.74	
MW-6	12/10/07	15.17	6.93	--	8.24	
MW-6	03/03/08	15.17	7.09	--	8.08	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-6	06/02/08	15.17	7.88	--	7.29	
MW-6	09/04/08	15.17	8.19	--	6.98	
MW-6	12/04/08	15.17	7.95	--	7.22	
MW-6	03/04/09	15.17	7.41	--	7.76	
MW-6	06/01/09	15.17	7.54	--	7.63	
MW-6	09/21/09	15.17	8.42	--	6.75	
MW-6	11/16/09	15.17	7.30	--	7.87	
MW-6	03/08/10	15.17	6.45	--	8.72	
MW-6	06/07/10	15.17	7.09	--	8.08	
MW-6	09/09/10	15.17	8.10	--	7.07	
MW-6	11/15/10	15.17	7.21	--	7.96	
MW-6	03/01/11	15.17	6.24	--	8.93	
MW-6	05/23/11	15.17	6.42	--	8.75	
MW-6	08/29/11	15.17	7.92	--	7.25	
MW-6	12/01/11	15.17	7.45	--	7.72	
MW-6	03/01/12	15.17	6.97	--	8.20	
MW-6	05/30/12	15.17	6.91	--	8.26	
MW-6	08/25/12	15.17	7.09	--	8.08	
MW-6	11/07/12	15.17	7.12	--	8.05	
MW-6	02/27/13	15.17	6.59	--	8.58	
MW-6	04/08/13	15.17	6.22	--	8.95	
MW-6	07/29/13	15.17	7.34	--	7.83	
MW-6	10/02/13	15.17	6.98	--	8.19	
MW-6	01/21/14	15.17	7.21	--	7.96	
MW-7	02/11/02	6.78	1.49	--	5.29	
MW-7	05/20/02	6.78	3.91	--	2.87	
MW-7	08/27/02	6.78	4.03	--	2.75	
MW-7	11/04/02	6.78	4.44	--	2.34	
MW-7	02/18/03	6.78	1.82	Sheen	4.96	
MW-7	06/09/03	6.78	3.29	--	3.49	
MW-7	09/15/03	10.62	4.30	--	6.32	
MW-7	11/18/03	10.62	2.83	--	7.79	
MW-7	02/24/04	10.62	2.16	--	8.46	
MW-7	05/10/04	10.62	3.32	--	7.30	
MW-7	08/24/04	10.62	3.31	--	7.31	
MW-7	12/13/04	10.62	2.27	--	8.35	
MW-7	03/08/05	10.62	3.23	--	7.39	
MW-7	06/06/05	10.62	3.03	--	7.59	
MW-7	09/19/05	10.62	4.16	Sheen	6.46	
MW-7	12/12/05	10.62	3.17	--	7.45	
MW-7	03/13/06	10.62	1.88	--	8.74	
MW-7	06/05/06	10.62	2.34	--	8.28	
MW-7	09/11/06	10.62	4.10	--	6.52	
MW-7	12/11/06	10.62	1.72	--	8.90	
MW-7	03/26/07	10.62	2.00	--	8.62	
MW-7	06/18/07	10.62	3.34	--	7.28	
MW-7	09/24/07	10.62	4.00	--	6.62	
MW-7	12/10/07	10.62	1.12	Sheen	9.50	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-7	03/03/08	10.62	2.49	Sheen	8.13	
MW-7	06/02/08	10.62	3.41	Sheen	7.21	
MW-7	09/04/08	10.62	3.60	--	7.02	
MW-7	12/04/08	10.62	3.36	--	7.26	
MW-7	03/04/09	10.62	2.90	--	7.72	
MW-7	06/01/09	10.62	3.08	Sheen	7.54	
MW-7	09/21/09	10.62	1.91	--	8.71	
MW-7	11/16/09	10.62	2.54	Sheen	8.08	
MW-7	03/08/10	10.62	2.31	--	8.31	
MW-7	06/07/10	10.62	2.67	--	7.95	
MW-7	09/09/10	10.62	3.79	--	6.83	
MW-7	11/15/10	10.62	2.58	--	8.04	
MW-7	03/01/11	10.62	2.51	--	8.11	
MW-7	05/23/11	10.62	2.24	--	8.38	
MW-7	08/29/11	10.62	3.87	--	6.75	
MW-7	12/01/11	10.62	2.67	--	7.95	
MW-7	03/01/12	10.62	2.80	--	7.82	
MW-7	05/30/12	10.62	2.82	--	7.80	
MW-7	08/25/12	10.62	3.35	--	7.27	
MW-7	11/07/12	10.62	2.23	--	8.39	
MW-7	02/27/13	10.62	2.33	--	8.29	
MW-7	04/08/13	10.62	1.88	--	8.74	
MW-7	06/21/13	10.62	3.10	--	7.52	Baseline monitoring event
MW-7	07/29/13	10.62	3.16	--	7.46	
MW-7	08/26/13	10.62	2.82	--	7.80	Two-month monitoring event
MW-7	10/02/13	10.62	2.08	--	8.54	
MW-7	01/21/14	10.62	2.78	--	7.84	
MW-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	



**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-8	06/18/07	10.63	4.55	--	6.08	
MW-8	09/24/07	10.63	5.05	--	5.58	
MW-8	12/10/07	10.63	4.18	--	6.45	
MW-8	03/03/08	10.63	4.25	--	6.38	
MW-8	06/02/08	10.63	4.65	--	5.98	
MW-8	09/04/08	10.63	4.69	--	5.94	
MW-8	12/04/08	10.63	--	--	--	Not Measured-Inaccessible
MW-8	03/04/09	10.63	3.36	--	7.27	
MW-8	06/01/09	10.63	3.67	--	6.96	
MW-8	09/21/09	10.63	4.42	--	6.21	
MW-8	11/16/09	10.63	2.85	--	7.78	
MW-8	03/08/10	10.63	2.65	--	7.98	
MW-8	06/07/10	10.63	3.10	--	7.53	
MW-8	09/09/10	10.63	4.29	--	6.34	
MW-8	11/15/10	10.63	3.12	--	7.51	
MW-8	03/01/11	10.63	2.22	--	8.41	
MW-8	05/23/11	10.63	2.76	--	7.87	
MW-8	08/29/11	10.63	4.22	--	6.41	
MW-8	12/01/11	10.63	3.11	--	7.52	
MW-8	03/01/12	10.63	3.18	--	7.45	
MW-8	05/30/12	10.63	3.27	--	7.36	
MW-8	08/25/12	10.63	4.02	--	6.61	
MW-8	11/07/12	10.63	2.93	--	7.70	
MW-8	02/27/13	10.63	2.98	--	7.65	
MW-8	04/08/13	10.63	2.41	--	8.22	
MW-8	07/29/13	10.63	3.98	--	6.65	
MW-8	10/02/13	10.63	2.86	--	7.77	
MW-8	01/21/14	10.63	3.56	--	7.07	
MW-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-9	03/26/07	9.75	2.44	--	7.31	
MW-9	06/18/07	9.75	2.44	--	7.31	
MW-9	09/24/07	9.75	3.88	--	5.87	
MW-9	12/10/07	9.75	2.24	Sheen	7.51	
MW-9	03/03/08	9.75	2.82	Sheen	6.93	
MW-9	06/02/08	9.75	3.52	--	6.23	
MW-9	09/04/08	9.75	3.54	--	6.21	
MW-9	12/04/08	9.75	3.34	--	6.41	
MW-9	03/04/09	9.75	2.89	--	6.86	
MW-9	06/01/09	9.75	3.19	--	6.56	
MW-9	09/21/09	9.75	3.76	Sheen	5.99	
MW-9	11/16/09	9.75	2.63	--	7.12	
MW-9	03/08/10	9.75	2.31	Sheen	7.44	
MW-9	06/07/10	9.75	2.72	Sheen	7.03	
MW-9	09/09/10	9.75	3.69	Sheen	6.06	
MW-9	11/15/10	9.75	2.71	Sheen	7.04	
MW-9	03/01/11	9.75	2.39	Sheen	7.36	
MW-9	05/23/11	9.75	2.58	Sheen	7.17	
MW-9	08/29/11	9.75	3.57	--	6.18	
MW-9	12/01/11	9.75	2.90	--	6.85	
MW-9	03/01/12	9.75	2.96	--	6.79	
MW-9	05/30/12	9.75	2.66	--	7.09	
MW-9	08/25/12	9.75	3.28	--	6.47	
MW-9	11/07/12	9.75	2.49	--	7.26	
MW-9	02/27/13	9.75	2.71	--	7.04	
MW-9	04/08/13	9.75	2.02	--	7.73	
MW-9	06/21/13	9.75	3.01	--	6.74	Baseline monitoring event
MW-9	07/29/13	9.75	3.19	--	6.56	
MW-9	08/26/13	9.75	3.11	--	6.64	Two-month monitoring event
MW-9	10/02/13	9.75	2.40	--	7.35	
MW-9	01/21/14	9.75	2.85	--	6.90	
MW-10D	03/27/01	--	--	--	--	Not Measured-Damaged
MW-10D	09/24/07	9.75	3.88	--	5.87	
MW-10D	<b>Destroyed during construction activities in 2000</b>					
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
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	<b>Destroyed during construction activities</b>					
MW-12R	02/11/02	11.15	6.12	--	5.03	
MW-12R	05/20/02	11.15	8.36	--	2.79	
MW-12R	08/27/02	11.15	8.19	--	2.96	
MW-12R	11/04/02	11.15	8.56	--	2.59	
MW-12R	02/18/03	11.15	7.85	--	3.30	
MW-12R	06/09/03	11.15	7.67	--	3.48	
MW-12R	09/15/03	15.47	8.45	--	7.02	
MW-12R	11/18/03	15.47	7.87	--	7.60	
MW-12R	02/24/04	15.47	6.98	--	8.49	
MW-12R	05/10/04	15.47	7.79	--	7.68	
MW-12R	08/24/04	15.47	8.11	--	7.36	
MW-12R	12/13/04	15.47	7.54	--	7.93	
MW-12R	03/08/05	15.47	7.93	--	7.54	
MW-12R	06/06/05	15.47	6.41	--	9.06	
MW-12R	09/19/05	15.47	8.41	--	7.06	
MW-12R	12/12/05	15.47	7.92	--	7.55	
MW-12R	03/13/06	15.47	6.85	--	8.62	
MW-12R	06/05/06	15.47	7.43	--	8.04	
MW-12R	09/11/06	15.47	8.39	--	7.08	
MW-12R	12/11/06	15.47	6.95	--	8.52	
MW-12R	03/26/07	15.47	7.02	--	8.45	
MW-12R	06/18/07	15.47	7.84	--	7.63	
MW-12R	09/25/07	15.47	8.38	--	7.09	
MW-12R	12/10/07	15.47	7.02	--	8.45	
MW-12R	03/03/08	15.47	7.11	--	8.36	
MW-12R	06/02/08	15.47	7.98	--	7.49	
MW-12R	09/04/08	15.47	8.13	--	7.34	
MW-12R	12/04/08	15.47	7.98	--	7.49	
MW-12R	03/04/09	15.47	7.54	--	7.93	
MW-12R	06/01/09	15.47	7.71	--	7.76	
MW-12R	09/21/09	15.47	8.39	--	7.08	
MW-12R	11/16/09	15.47	7.40	--	8.07	
MW-12R	03/08/10	15.47	6.86	--	8.61	
MW-12R	06/07/10	15.47	7.23	--	8.24	
MW-12R	09/09/10	15.47	8.22	--	7.25	
MW-12R	11/15/10	15.47	7.40	--	8.07	
MW-12R	03/01/11	15.47	6.76	--	8.71	
MW-12R	05/23/11	15.47	6.87	--	8.60	
MW-12R	08/29/11	15.47	8.07	--	7.40	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-12R	12/01/11	15.47	7.51	--	7.96	
MW-12R	03/01/12	15.47	7.31	--	8.16	
MW-12R	05/30/12	15.47	7.30	--	8.17	
MW-12R	08/25/12	15.47	7.89	--	7.58	
MW-12R	11/07/12	15.47	7.34	--	8.13	
MW-12R	02/27/13	15.47	7.02	--	8.45	
MW-12R	04/08/13	15.47	6.88	--	8.59	
MW-12R	07/29/13	15.47	7.84	--	7.63	
MW-12R	10/02/13	15.47	7.42	--	8.05	
MW-12R	01/21/14	15.47	7.70	--	7.77	
MW-13	02/11/02	--	--	--	--	Destroyed during construction activities
MW-13	<b>Destroyed during construction activities</b>					
MW-13R	02/11/02	10.99	5.95	--	5.04	
MW-13R	05/20/02	10.99	8.08	--	2.91	
MW-13R	08/27/02	10.99	7.93	--	3.06	
MW-13R	11/04/02	10.99	8.30	--	2.69	
MW-13R	02/18/03	10.99	6.55	--	4.44	
MW-13R	06/09/03	10.99	7.37	--	3.62	
MW-13R	09/15/03	15.15	8.19	--	6.96	
MW-13R	11/18/03	15.15	7.56	--	7.59	
MW-13R	02/24/04	15.15	6.50	--	8.65	
MW-13R	05/10/04	15.15	7.45	--	7.70	
MW-13R	08/24/04	15.15	8.13	--	7.02	
MW-13R	12/13/04	15.15	7.10	--	8.05	
MW-13R	03/08/05	15.15	7.62	--	7.53	
MW-13R	06/06/05	15.15	7.37	--	7.78	
MW-13R	09/19/05	15.15	8.22	--	6.93	
MW-13R	12/12/05	15.15	7.61	--	7.54	
MW-13R	03/13/06	15.15	6.50	--	8.65	
MW-13R	06/05/06	15.15	7.03	--	8.12	
MW-13R	09/11/06	15.15	8.13	--	7.02	
MW-13R	12/11/06	15.15	6.60	--	8.55	
MW-13R	03/26/07	15.15	6.60	--	8.55	
MW-13R	06/18/07	15.15	7.53	--	7.62	
MW-13R	09/25/07	15.15	8.10	--	7.05	
MW-13R	12/10/07	15.15	6.74	--	8.41	
MW-13R	03/03/08	15.15	7.45	--	7.70	
MW-13R	06/02/08	15.15	7.70	--	7.45	
MW-13R	09/04/08	15.15	7.86	--	7.29	
MW-13R	12/04/08	15.15	7.72	--	7.43	
MW-13R	03/04/09	15.15	7.30	--	7.85	
MW-13R	06/01/09	15.15	7.43	--	7.72	
MW-13R	09/21/09	15.15	8.12	--	7.03	
MW-13R	11/16/09	15.15	7.07	--	8.08	
MW-13R	03/08/10	15.15	6.57	--	8.58	
MW-13R	06/07/10	15.15	6.95	--	8.20	
MW-13R	09/09/10	15.15	7.94	--	7.21	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-13R	11/15/10	15.15	7.12	--	8.03	
MW-13R	03/01/11	15.15	6.42	--	8.73	
MW-13R	05/23/11	15.15	6.52	--	8.63	
MW-13R	08/29/11	15.15	7.79	--	7.36	
MW-13R	12/01/11	15.15	7.21	--	7.94	
MW-13R	03/01/12	15.15	6.99	--	8.16	
MW-13R	05/25/12	--	--	--	--	Abandoned
MW-13R	<b>Abandoned on 5/25/2012</b>					
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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-14	03/01/12	11.44	3.05	--	8.39	
MW-14	05/30/12	11.44	3.09	--	8.35	
MW-14	08/25/12	11.44	4.04	--	7.40	
MW-14	11/07/12	11.44	2.92	--	8.52	
MW-14	02/27/13	11.44	2.66	--	8.78	
MW-14	04/08/13	11.44	2.18	--	9.26	
MW-14	07/29/13	11.44	3.90	--	7.54	
MW-14	10/02/13	11.44	3.08	--	8.36	
MW-14	01/21/14	11.44	5.59	--	5.85	
MW-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-16	09/19/05	15.23	8.40	--	6.83	
MW-16	12/12/05	15.23	7.69	--	7.54	
MW-16	03/13/06	15.23	6.16	--	9.07	
MW-16	06/05/06	15.23	7.22	--	8.01	
MW-16	09/11/06	15.23	8.32	--	6.91	
MW-16	12/11/06	15.23	6.40	--	8.83	
MW-16	03/26/07	15.23	6.53	--	8.70	
MW-16	06/18/07	15.23	7.60	--	7.63	
MW-16	09/24/07	15.23	8.36	--	6.87	
MW-16	12/10/07	15.23	6.85	--	8.38	
MW-16	03/03/08	15.23	6.95	--	8.28	
MW-16	06/02/08	15.23	7.62	--	7.61	
MW-16	09/04/08	15.23	8.07	--	7.16	
MW-16	12/04/08	15.23	7.82	--	7.41	
MW-16	03/04/09	15.23	7.47	--	7.76	
MW-16	06/01/09	15.23	7.37	--	7.86	
MW-16	09/21/09	15.23	8.33	--	6.90	
MW-16	11/16/09	15.23	7.30	--	7.93	
MW-16	03/08/10	15.23	6.34	--	8.89	
MW-16	06/07/10	15.23	6.87	--	8.36	
MW-16	09/09/10	15.23	8.04	--	7.19	
MW-16	11/15/10	15.23	7.14	--	8.09	
MW-16	03/01/11	15.23	6.12	--	9.11	
MW-16	05/23/11	15.23	6.22	--	9.01	
MW-16	08/29/11	15.23	7.97	--	7.26	
MW-16	12/01/11	15.23	7.45	--	7.78	
MW-16	03/01/12	15.23	6.81	--	8.42	
MW-16	05/30/12	15.23	6.71	--	8.52	
MW-16	08/25/12	15.23	7.57	--	7.66	
MW-16	11/07/12	15.23	7.20	--	8.03	
MW-16	02/27/13	15.23	6.18	--	9.05	
MW-16	04/08/13	15.23	6.28	--	8.95	
MW-16	07/29/13	15.23	7.31	--	7.92	
MW-16	10/02/13	15.23	7.21	--	8.02	
MW-16	01/21/14	15.23	7.19	--	8.04	
MW-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-17	06/06/05	15.38	7.55	--	7.83	
MW-17	09/19/05	15.38	8.56	--	6.82	
MW-17	12/12/05	15.38	7.85	--	7.53	
MW-17	03/13/06	15.38	6.30	--	9.08	
MW-17	06/05/06	15.38	7.44	--	7.94	
MW-17	09/11/06	15.38	8.52	--	6.86	
MW-17	12/11/06	15.38	6.49	--	8.89	
MW-17	05/23/11	15.38	6.30	--	9.08	
MW-17	08/29/11	15.38	6.30	--	9.08	
MW-18	02/11/02	11.29	5.97	--	5.32	
MW-18	05/20/02	11.29	8.20	--	3.09	
MW-18	08/27/02	11.29	7.34	--	3.95	
MW-18	11/04/02	11.29	8.73	--	2.56	
MW-18	02/18/03	11.29	6.45	--	4.84	
MW-18	06/09/03	11.29	7.59	--	3.70	
MW-18	09/15/03	15.49	8.65	--	6.84	
MW-18	11/18/03	15.49	7.68	--	7.81	
MW-18	02/24/04	15.49	6.38	--	9.11	
MW-18	05/10/04	15.49	7.65	--	7.84	
MW-18	08/24/04	15.49	8.17	--	7.32	
MW-18	12/13/04	15.49	7.61	--	7.88	
MW-18	03/08/05	15.49	7.47	--	8.02	
MW-18	06/06/05	15.49	7.41	--	8.08	
MW-18	09/19/05	15.49	8.43	--	7.06	
MW-18	12/12/05	15.49	7.70	--	7.79	
MW-18	03/13/06	15.49	6.23	--	9.26	
MW-18	06/05/06	15.49	7.31	--	8.18	
MW-18	09/11/06	15.49	8.34	--	7.15	
MW-18	12/11/06	15.49	6.34	--	9.15	
MW-18	03/26/07	15.49	6.59	--	8.90	
MW-18	06/18/07	15.49	7.66	--	7.83	
MW-18	09/24/07	15.49	8.40	--	7.09	
MW-18	12/10/07	15.49	6.68	--	8.81	
MW-18	03/03/08	15.49	6.98	--	8.51	
MW-18	06/02/08	15.49	7.70	--	7.79	
MW-18	09/04/08	15.49	8.11	--	7.38	
MW-18	12/04/08	15.49	7.84	--	7.65	
MW-18	03/04/09	15.49	7.34	--	8.15	
MW-18	06/01/09	15.49	7.36	--	8.13	
MW-18	09/21/09	15.49	8.40	--	7.09	
MW-18	11/16/09	15.49	7.18	--	8.31	
MW-18	03/08/10	15.49	6.23	--	9.26	
MW-18	06/07/10	15.49	6.89	--	8.60	
MW-18	09/09/10	15.49	8.11	--	7.38	
MW-18	11/15/10	15.49	7.12	--	8.37	
MW-18	03/01/11	15.49	6.11	--	9.38	
MW-18	05/23/11	15.49	6.25	--	9.24	
MW-18	08/29/11	15.49	7.87	--	7.62	



**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-18	12/01/11	15.49	7.38	--	8.11	
MW-18	03/01/12	15.49	6.88	--	8.61	
MW-18	05/30/12	15.49	6.75	--	8.74	
MW-18	08/25/12	15.49	--	--	--	Inaccessible due to truck parked on top
MW-18	11/07/12	15.49	7.21	--	8.28	
MW-18	02/27/13	15.49	6.43	--	9.06	
MW-18	04/08/13	15.49	6.39	--	9.10	
MW-18	07/29/13	15.49	7.63	--	7.86	
MW-18	10/02/13	15.49	7.39	--	8.10	
MW-18	01/21/14	15.49	7.35	--	8.14	
MW-19	02/11/02	7.16	1.63	--	5.53	
MW-19	05/20/02	7.16	4.08	Sheen	3.08	
MW-19	08/27/02	7.16	4.25	--	2.91	
MW-19	11/04/02	7.16	4.65	--	2.51	
MW-19	02/18/03	7.16	2.14	--	5.02	
MW-19	06/09/03	7.16	3.45	--	3.71	
MW-19	09/15/03	11.39	4.50	--	6.89	
MW-19	11/18/03	11.39	2.51	--	8.88	
MW-19	02/24/04	11.39	2.36	--	9.03	
MW-19	05/10/04	11.39	3.41	--	7.98	
MW-19	08/24/04	11.39	8.13	--	3.26	
MW-19	12/13/04	11.39	2.98	--	8.41	
MW-19	03/08/05	11.39	3.40	--	7.99	
MW-19	06/06/05	11.39	3.24	--	8.15	
MW-19	09/19/05	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	12/12/05	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	03/13/06	11.39	--	--	--	Not Measured-Inaccessible, under pipe stockpile
MW-19	06/05/06	11.39	2.91	--	8.48	
MW-19	09/11/06	11.39	4.72	--	6.67	
MW-19	12/11/06	11.39	2.00	--	9.39	
MW-19	03/26/07	11.39	2.22	--	9.17	
MW-19	06/18/07	11.39	3.56	--	7.83	
MW-19	09/24/07	11.39	4.31	--	7.08	
MW-19	12/10/07	11.39	2.38	--	9.01	
MW-19	03/03/08	11.39	2.98	--	8.41	
MW-19	06/02/08	11.39	3.67	--	7.72	
MW-19	09/04/08	11.39	3.98	--	7.41	
MW-19	12/04/08	11.39	3.68	--	7.71	
MW-19	03/04/09	11.39	3.03	--	8.36	
MW-19	06/01/09	11.39	3.23	--	8.16	
MW-19	09/21/09	11.39	4.23	--	7.16	
MW-19	11/16/09	11.39	2.85	--	8.54	
MW-19	03/08/10	11.39	2.25	--	9.14	
MW-19	06/07/10	11.39	2.67	--	8.72	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-19	09/09/10	11.39	3.97	--	7.42	
MW-19	11/15/10	11.39	2.75	--	8.64	
MW-19	03/01/11	11.39	1.82	--	9.57	
MW-19	05/23/11	11.39	2.02	--	9.37	
MW-19	08/29/11	11.39	3.77	--	7.62	
MW-19	12/01/11	11.39	3.03	--	8.36	
MW-19	03/01/12	11.39	2.82	--	8.57	
MW-19	05/30/12	11.39	2.79	--	8.60	
MW-19	08/25/12	11.39	3.62	--	7.77	
MW-19	11/07/12	11.39	2.77	--	8.62	
MW-19	02/27/13	11.39	2.18	--	9.21	
MW-19	04/08/13	11.39	1.82	--	9.57	
MW-19	06/21/13	11.39	3.05	--	8.34	Baseline monitoring event
MW-19	07/29/13	11.39	3.56	--	7.83	
MW-19	08/26/13	11.39	3.45	--	7.94	Two-month monitoring event
MW-19	10/02/13	11.39	2.72	--	8.67	
MW-19	01/21/14	11.39	3.12	--	8.27	
MW-20	02/11/02	7.37	1.73	--	5.64	
MW-20	05/20/02	7.37	4.25	--	3.12	
MW-20	08/27/02	7.37	4.31	--	3.06	
MW-20	11/04/02	7.37	4.04	--	3.33	
MW-20	02/18/03	7.37	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	06/09/03	7.37	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	09/15/03	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	11/18/03	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	02/24/04	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	05/10/04	11.72	--	--	--	Not Measured-Overflowed when well cap removed
MW-20	08/24/04	11.72	4.04	--	7.68	
MW-20	12/13/04	11.72	2.29	--	9.43	
MW-20	03/08/05	11.72	3.64	--	8.08	
MW-20	06/06/05	11.72	3.43	--	8.29	
MW-20	09/19/05	11.72	4.55	--	7.17	
MW-20	12/12/05	11.72	3.67	--	8.05	
MW-20	03/13/06	11.72	2.21	--	9.51	
MW-20	06/05/06	11.72	3.00	--	8.72	
MW-20	09/11/06	11.72	4.49	--	7.23	
MW-20	12/11/06	11.72	2.36	--	9.36	
MW-20	03/26/07	11.72	2.49	--	9.23	
MW-20	06/18/07	11.72	4.44	--	7.28	
MW-20	09/24/07	11.72	4.61	--	7.11	
MW-20	12/10/07	11.72	2.56	--	9.16	
MW-20	03/03/08	11.72	2.97	--	8.75	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-20	06/02/08	11.72	3.90	--	7.82	
MW-20	09/04/08	11.72	4.14	--	7.58	
MW-20	12/04/08	11.72	3.89	--	7.83	
MW-20	03/04/09	11.72	4.99	--	6.73	
MW-20	06/01/09	11.72	3.46	--	8.26	
MW-20	09/21/09	11.72	4.42	--	7.30	
MW-20	11/16/09	11.72	2.91	--	8.81	
MW-20	03/08/10	11.72	2.40	--	9.32	
MW-20	06/07/10	11.72	2.76	--	8.96	
MW-20	09/09/10	11.72	4.22	--	7.50	
MW-20	11/15/10	11.72	3.03	--	8.69	
MW-20	03/01/11	11.72	2.18	--	9.54	
MW-20	05/23/11	11.72	2.11	--	9.61	
MW-20	08/29/11	11.72	4.05	--	7.67	
MW-20	12/01/11	11.72	3.08	--	8.64	
MW-20	03/01/12	11.72	3.09	--	8.63	
MW-20	05/30/12	11.72	2.89	--	8.83	
MW-20	08/25/12	11.72	3.88	--	7.84	
MW-20	11/07/12	11.72	2.98	--	8.74	
MW-20	02/27/13	11.72	2.60	--	9.12	
MW-20	04/08/13	11.72	2.23	--	9.49	
MW-20	07/29/13	11.72	4.93	--	6.79	
MW-20	10/02/13	11.72	4.64	--	7.08	
MW-20	01/21/14	11.72	3.44	--	8.28	
MW-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-21	03/03/08	9.41	3.18	--	6.23	
MW-21	06/02/08	9.41	3.63	Sheen	5.78	
MW-21	09/04/08	9.41	3.60	--	5.81	
MW-21	12/04/08	9.41	3.48	Sheen	5.93	
MW-21	03/04/09	9.41	2.84	Sheen	6.57	
MW-21	06/01/09	9.41	3.34	--	6.07	
MW-21	09/21/09	9.41	3.74	Sheen	5.67	
MW-21	11/16/09	9.41	2.59	--	6.82	
MW-21	03/08/10	9.41	2.23	--	7.18	
MW-21	06/07/10	9.41	--	--	--	Not Measured
MW-21	09/09/10	9.41	3.66	--	5.75	
MW-21	11/15/10	9.41	2.79	--	6.62	
MW-21	03/01/11	9.41	2.21	--	7.20	
MW-21	05/23/11	9.41	2.47	--	6.94	
MW-21	08/29/11	9.41	3.53	--	5.88	
MW-21	12/01/11	9.41	2.77	Sheen	6.64	
MW-21	03/01/12	9.41	2.27	Sheen	7.14	
MW-21	05/30/12	9.41	2.86	--	6.55	
MW-21	08/25/12	9.41	3.20	--	6.21	
MW-21	11/07/12	9.41	2.53	--	6.88	
MW-21	02/27/13	9.41	2.61	--	6.80	
MW-21	04/08/13	9.41	1.99	--	7.42	
MW-21	07/29/13	9.41	3.31	--	6.10	
MW-21	10/02/13	9.41	2.49	--	6.92	
MW-21	01/21/14	9.41	3.02	--	6.39	
MW-22	02/11/02	12.39	7.18	--	5.21	
MW-22	05/20/02	12.39	9.44	--	2.95	
MW-22	08/27/02	12.39	9.55	--	2.84	
MW-22	11/04/02	12.39	9.91	--	2.48	
MW-22	02/18/03	12.39	7.75	--	4.64	
MW-22	06/09/03	12.39	8.71	--	3.68	
MW-22	09/15/03	16.32	9.75	--	6.57	
MW-22	11/18/03	16.32	8.55	--	7.77	
MW-22	02/24/04	16.32	7.56	--	8.76	
MW-22	05/10/04	16.32	8.76	--	7.56	
MW-22	08/24/04	16.32	9.25	--	7.07	
MW-22	12/13/04	16.32	8.70	--	7.62	
MW-22	03/08/05	16.32	8.72	--	7.60	
MW-22	06/06/05	16.32	8.58	--	7.74	
MW-22	09/19/05	16.32	9.61	--	6.71	
MW-22	12/12/05	16.32	8.90	--	7.42	
MW-22	03/13/06	16.32	4.37	--	11.95	
MW-22	06/05/06	16.32	8.31	--	8.01	
MW-22	09/11/06	16.32	9.54	--	6.78	
MW-22	12/11/06	16.32	7.44	--	8.88	
MW-22	03/26/07	16.32	7.68	--	8.64	
MW-22	06/18/07	16.32	8.78	--	7.54	
MW-22	09/24/07	16.32	9.55	--	6.77	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-22	12/10/07	16.32	7.84	--	8.48	
MW-22	03/03/08	16.32	8.12	--	8.20	
MW-22	06/02/08	16.32	8.85	--	7.47	
MW-22	09/04/08	16.32	9.22	--	7.10	
MW-22	12/04/08	16.32	9.00	--	7.32	
MW-22	03/04/09	16.32	8.43	--	7.89	
MW-22	06/01/09	16.32	8.56	--	7.76	
MW-22	09/21/09	16.32	9.51	--	6.81	
MW-22	11/16/09	16.32	8.31	--	8.01	
MW-22	03/08/10	16.32	7.40	--	8.92	
MW-22	06/07/10	16.32	8.00	--	8.32	
MW-22	09/09/10	16.32	9.22	--	7.10	
MW-22	11/15/10	16.32	8.20	--	8.12	
MW-22	03/01/11	16.32	7.18	--	9.14	
MW-22	05/23/11	16.32	7.35	--	8.97	
MW-22	08/29/11	16.32	9.01	--	7.31	
MW-22	12/01/11	16.32	8.48	--	7.84	
MW-22	03/01/12	16.32	7.98	--	8.34	
MW-22	05/30/12	16.32	7.92	--	8.40	
MW-22	08/25/12	16.32	8.79	--	7.53	
MW-22	11/07/12	16.32	8.24	--	8.08	
MW-22	02/27/13	16.32	7.42	--	8.90	
MW-22	04/08/13	16.32	7.28	--	9.04	
MW-22	07/29/13	16.32	8.59	--	7.73	
MW-22	10/02/13	16.32	8.29	--	8.03	
MW-22	01/21/14	16.32	8.39	--	7.93	
MW-23	11/18/03	14.15	7.66	Sheen	6.49	
MW-23	02/24/04	14.15	7.18	Sheen	6.97	
MW-23	05/10/04	14.15	7.89	<0.01	6.26*	
MW-23	08/24/04	14.15	8.89	--	5.26	
MW-23	12/13/04	14.15	7.49	Sheen	6.66	
MW-23	03/08/05	14.15	7.57	Sheen	6.58	
MW-23	06/06/05	14.15	7.72	Sheen	6.43	
MW-23	09/19/05	14.15	8.17	0.17	6.12*	
MW-23	10/12/05	14.15	8.10	Sheen	6.05	
MW-23	12/12/05	14.15	7.93	--	6.22	
MW-23	03/13/06	14.15	7.17	--	6.98	
MW-23	06/05/06	14.15	7.62	--	6.53	
MW-23	09/11/06	14.15	8.22	0.02	5.95*	
MW-23	12/11/06	14.15	7.17	--	6.98	
MW-23	03/26/07	14.15	7.41	--	6.74	
MW-23	06/18/07	14.15	7.90	--	6.25	
MW-23	09/25/07	14.15	8.14	Sheen	6.01	
MW-23	12/10/07	14.15	7.38	Sheen	6.77	
MW-23	03/03/08	14.15	7.49	Sheen	6.66	
MW-23	06/02/08	14.15	8.71	Sheen	5.44	
MW-23	09/04/08	14.15	8.04	--	6.11	
MW-23	12/04/08	14.15	8.05	--	6.10	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-23	03/04/09	14.15	7.48	--	6.67	
MW-23	06/01/09	14.15	7.98	--	6.17	
MW-23	09/21/09	14.15	8.13	--	6.02	
MW-23	11/16/09	14.15	7.50	Sheen	6.65	
MW-23	03/08/10	14.15	7.01	--	7.14	
MW-23	06/07/10	14.15	7.49	Sheen	6.66	
MW-23	09/09/10	14.15	8.02	Sheen	6.13	
MW-23	11/15/10	14.15	7.60	--	6.55	
MW-23	03/01/11	14.15	7.26	Sheen	6.89	
MW-23	05/23/11	14.15	7.38	Sheen	6.77	
MW-23	08/29/11	14.15	7.91	Sheen	6.24	
MW-23	12/01/11	14.15	7.58	--	6.57	
MW-23	03/01/12	14.15	7.35	--	6.80	
MW-23	05/30/12	14.15	7.29	--	6.86	
MW-23	08/25/12	14.15	7.41	--	6.74	
MW-23	11/07/12	14.15	7.19	--	6.96	
MW-23	02/27/13	14.15	7.23	--	6.92	
MW-23	04/08/13	14.15	7.15	--	7.00	
MW-23	07/29/13	14.15	7.47	--	6.68	
MW-23	10/02/13	14.15	7.34	--	6.81	
MW-23	01/21/14	14.15	7.72	--	6.43	
MW-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	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-24	06/07/10	14.34	7.51	Sheen	6.83	
MW-24	09/09/10	14.34	8.01	Sheen	6.33	
MW-24	11/15/10	14.34	7.61	Sheen	6.73	
MW-24	03/01/11	14.34	7.26	Sheen	7.08	
MW-24	05/23/11	14.34	7.37	--	6.97	
MW-24	08/29/11	14.34	7.92	Sheen	6.42	
MW-24	12/01/11	14.34	7.73	--	6.61	
MW-24	03/01/12	14.34	7.39	--	6.95	
MW-24	05/30/12	14.34	7.41	--	6.93	
MW-24	08/25/12	14.34	7.59	--	6.75	
MW-24	11/07/12	14.34	7.26	--	7.08	
MW-24	02/27/13	14.34	7.34	--	7.00	
MW-24	04/08/13	14.34	7.27	--	7.07	
MW-24	07/29/13	14.34	7.58	--	6.76	
MW-24	10/02/13	14.34	7.34	--	7.00	
MW-24	01/21/14	14.34	7.66	--	6.68	
MW-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	--	--	--	Not Measured-Dry
E-1	11/04/02	--	--	--	--	Not Measured-Dry/Damaged
E-1	06/11/03	--	--	--	--	Not Measured-Damaged
E-1	05/30/12	13.05	7.12	--	5.93	
E-1				<b>Abandoned</b>		
SF-01	12/18/00	--	--	--	--	Abandoned
SF-01				<b>Abandoned</b>		
SF-01R	02/11/02	10.68	7.11	--	3.57	
SF-01R	05/20/02	10.68	9.07	Sheen	1.61	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
SF-01R	08/27/02	10.68	8.44	0.01	2.25*	
SF-01R	11/04/02	10.68	9.63	--	1.05	
SF-01R	02/18/03	10.68	7.72	--	2.96	
SF-01R	06/09/03	10.68	8.30	--	2.38	
SF-01R	09/15/03	14.74	8.60	--	6.14	
SF-01R	11/18/03	14.74	7.45	--	7.29	
SF-01R	02/24/04	14.74	7.76	--	6.98	
SF-01R	05/10/04	14.74	8.11	--	6.63	
SF-01R	08/24/04	14.74	8.49	--	6.25	
SF-01R	12/13/04	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	03/08/05	14.74	8.16	--	6.58	
SF-01R	06/06/05	14.74	8.16	--	6.58	
SF-01R	09/19/05	14.74	--	--	--	Inaccessible, under construction trailer
SF-01R	12/12/05	14.74	8.39	--	6.35	
SF-01R	03/13/06	14.74	7.70	--	7.04	
SF-01R	06/05/06	14.74	8.09	--	6.65	
SF-01R	09/11/06	14.74	8.60	--	6.14	
SF-01R	12/11/06	14.74	7.73	--	7.01	
SH-02	02/11/02	--	--	--	--	Destroyed during construction activities
SH-02	<b>Destroyed during construction activities</b>					
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	



**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
SH-02R	06/02/08	13.40	6.10	--	7.30	
SH-02R	09/04/08	13.40	6.19	--	7.21	
SH-02R	12/04/08	13.40	6.08	--	7.32	
SH-02R	03/04/09	13.40	5.63	--	7.77	
SH-02R	06/01/09	13.40	5.79	--	7.61	
SH-02R	09/21/09	13.40	6.49	--	6.91	
SH-02R	11/16/09	13.40	5.37	--	8.03	
SH-02R	03/08/10	13.40	4.88	--	8.52	
SH-02R	06/07/10	13.40	5.25	--	8.15	
SH-02R	09/09/10	13.40	6.31	--	7.09	
SH-02R	11/15/10	13.40	5.42	--	7.98	
SH-02R	03/01/11	13.40	4.71	--	8.69	
SH-02R	05/23/11	13.40	4.78	--	8.62	
SH-02R	08/29/11	13.40	6.16	--	7.24	
SH-02R	12/01/11	13.40	5.50	--	7.90	
SH-02R	03/01/12	13.40	5.34	--	8.06	
SH-02R	05/30/12	13.40	5.32	--	8.08	
SH-02R	08/25/12	13.40	6.03	--	7.37	
SH-02R	11/07/12	13.40	5.37	--	8.03	
SH-02R	02/27/13	13.40	5.01	--	8.39	
SH-02R	04/08/13	13.40	4.77	--	8.63	
SH-02R	07/29/13	13.40	5.98	--	7.42	
SH-02R	10/02/13	13.40	5.54	--	7.86	
SH-02R	01/21/14	13.40	5.76	--	7.64	
SH-04	02/11/02	13.45	9.40	--	4.05	
SH-04	05/20/02	13.45	11.24	--	2.21	
SH-04	08/27/02	13.45	11.02	--	2.43	
SH-04	11/04/02	13.45	9.31	--	4.14	
SH-04	02/18/03	13.45	9.80	--	3.65	
SH-04	06/09/03	13.45	10.41	--	3.04	
SH-04	09/15/03	17.41	11.15	--	6.26	
SH-04	11/18/03	17.41	7.61	--	9.80	
SH-04	02/24/04	17.41	6.62	--	10.79	
SH-04	05/10/04	17.41	11.40	--	6.01	
SH-04	08/24/04	17.41	10.88	--	6.53	
SH-04	12/13/04	17.41	10.68	--	6.73	
SH-04	03/08/05	17.41	10.33	--	7.08	
SH-04	06/06/05	17.41	10.23	--	7.18	
SH-04	09/19/05	17.41	11.03	--	6.38	
SH-04	12/12/05	17.41	10.53	--	6.88	
SH-04	03/13/06	17.41	9.22	--	8.19	
SH-04	06/05/06	17.41	10.05	--	7.36	
SH-04	09/11/06	17.41	11.00	--	6.41	
SH-04	12/11/06	17.41	9.50	--	7.91	
SH-05R	05/20/02	9.83	8.07	Sheen	1.76	
SH-05R	08/27/02	9.83	7.59	--	2.24	
SH-05R	11/04/02	9.83	7.81	Sheen	2.02	
SH-05R	02/18/03	9.83	7.60	--	2.23	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
SH-05R	06/09/03	9.83	7.29	--	2.54	
SH-05R	09/15/03	13.89	7.42	Sheen	6.47	
SH-05R	11/18/03	13.89	7.21	Sheen	6.68	
SH-05R	02/24/04	13.89	6.41	--	7.48	
SH-05R	05/10/04	13.89	7.33	--	6.56	
SH-05R	08/24/04	13.89	7.60	--	6.29	
SH-05R	12/13/04	13.89	7.15	--	6.74	
SH-05R	03/08/05	13.89	7.62	--	6.27	
SH-05R	06/06/05	13.89	7.24	--	6.65	
SH-05R	09/19/05	13.89	7.80	--	6.09	
SH-05R	12/12/05	13.89	7.49	--	6.40	
SH-05R	03/13/06	13.89	6.38	--	7.51	
SH-05R	06/05/06	13.89	7.10	--	6.79	
SH-05R	09/11/06	13.89	7.72	--	6.17	
SH-05R	12/11/06	13.89	6.61	--	7.28	
SH-05R	03/26/07	13.89	6.82	--	7.07	
SH-05R	06/18/07	13.89	7.43	--	6.46	
SH-05R	09/25/07	13.89	7.72	--	6.17	
SH-05R	12/10/07	13.89	6.70	--	7.19	
SH-05R	03/03/08	13.89	7.01	--	6.88	
SH-05R	06/02/08	13.89	7.50	--	6.39	
SH-05R	09/04/08	13.89	7.55	--	6.34	
SH-05R	12/04/08	13.89	7.12	--	6.77	
SH-05R	03/04/09	13.89	7.02	--	6.87	
SH-05R	06/01/09	13.89	7.36	--	6.53	
SH-05R	09/21/09	13.89	7.73	--	6.16	
SH-05R	11/16/09	13.89	6.93	--	6.96	
SH-05R	03/08/10	13.89	6.47	--	7.42	
SH-05R	06/07/10	13.89	6.63	--	7.26	
SH-05R	09/09/10	13.89	7.58	--	6.31	
SH-05R	11/16/10	13.89	7.04	--	6.85	
SH-05R	03/01/11	13.89	6.58	--	7.31	
SH-05R	05/23/11	13.89	6.74	--	7.15	
SH-05R	08/29/11	13.89	7.52	--	6.37	
SH-05R	12/01/11	13.89	7.09	--	6.80	
SH-05R	03/01/12	13.89	6.89	--	7.00	
SH-05R	05/30/12	13.89	6.91	--	6.98	
SH-05R	08/25/12	13.89	7.29	--	6.60	
SH-05R	11/07/12	13.89	6.79	--	7.10	
SH-05R	02/27/13	13.89	6.77	--	7.12	
SH-05R	04/08/13	13.89	5.59	--	8.30	
SH-05R	07/29/13	13.89	7.25	--	6.64	
SH-05R	10/02/13	13.89	6.82	--	7.07	
SH-05R	01/21/14	13.89	7.18	--	6.71	
MW-07	01/13/97	7.66	--	--	--	Destroyed during construction activities
MW-07						<b>Destroyed during construction activities</b>
MW-07R	02/11/02	9.93	4.95	--	4.98	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-07R	05/20/02	9.93	7.29	--	2.64	
MW-07R	08/27/02	9.93	7.17	--	2.76	
MW-07R	11/04/02	9.93	7.53	--	2.40	
MW-07R	02/18/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/09/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/11/03	--	--	--	--	Not Measured-Located & cleaned out
MW-07R	09/15/03	13.92	8.40	--	5.52	
MW-07R	11/18/03	13.92	8.17	--	5.75	
MW-07R	02/24/04	13.92	5.64	--	8.28	
MW-07R	05/10/04	13.92	6.70	--	7.22	
MW-07R	08/24/04	13.92	6.95	--	6.97	
MW-07R	12/13/04	13.92	6.43	--	7.49	
MW-07R	03/08/05	13.92	6.67	--	7.25	
MW-07R	06/06/05	13.92	6.48	--	7.44	
MW-07R	09/19/05	13.92	7.35	--	6.57	
MW-07R	12/12/05	13.92	6.71	--	7.21	
MW-07R	03/13/06	13.92	5.59	--	8.33	
MW-07R	06/05/06	13.92	7.20	--	6.72	
MW-07R	09/11/06	13.92	7.30	--	6.62	
MW-07R	12/11/06	13.92	5.50	--	8.42	
MW-07R	03/26/07	13.92	5.84	--	8.08	
MW-07R	06/18/07	13.92	6.80	--	7.12	
MW-07R	09/25/07	13.92	7.27	--	6.65	
MW-07R	12/10/07	13.92	5.60	--	8.32	
MW-07R	03/03/08	13.92	6.20	--	7.72	
MW-07R	06/02/08	13.92	6.88	--	7.04	
MW-07R	09/04/08	13.92	6.94	--	6.98	
MW-07R	12/04/08	13.92	7.84	--	6.08	
MW-07R	03/04/09	13.92	6.30	--	7.62	
MW-07R	06/01/09	13.92	6.57	--	7.35	
MW-07R	09/21/09	13.92	7.24	--	6.68	
MW-07R	11/16/09	13.92	6.04	--	7.88	
MW-07R	03/08/10	13.92	5.63	--	8.29	
MW-07R	06/07/10	13.92	6.04	--	7.88	
MW-07R	09/09/10	13.92	7.05	--	6.87	
MW-07R	11/15/10	13.92	6.11	--	7.81	
MW-07R	03/01/11	13.92	5.43	--	8.49	
MW-07R	05/23/11	13.92	5.66	--	8.26	
MW-07R	08/29/11	13.92	6.97	--	6.95	
MW-07R	12/01/11	13.92	6.24	--	7.68	
MW-07R	03/01/12	13.92	6.10	--	7.82	
MW-07R	05/30/12	13.92	6.12	--	7.80	
MW-07R	08/25/12	13.92	--	--	--	Not Measured
MW-07R	11/07/12	13.92	6.02	--	7.90	
MW-07R	02/27/13	13.92	5.84	--	8.08	

**Table 1**



**Groundwater Elevation Data**

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
MW-07R	04/08/13	13.92	5.49	--	8.43	
MW-07R	07/29/13	13.92	6.70	--	7.22	
MW-07R	10/02/13	13.92	6.06	--	7.86	
MW-07R	01/21/14	13.92	6.49	--	7.43	
TMW-B1	09/09/10	--	--	--	--	Not Measured-SPH recovery unit in well
TMW-B1	05/23/11	--	7.37	--	--	Not Measured-SPH recovery unit in well
TMW-B1	12/01/11	--	8.17	--	--	Not Measured-SPH recovery unit in well
TMW-B1	03/01/12	--	7.75	--	--	Not Measured-SPH recovery unit in well
TMW-B1	08/25/12	--	8.37	--	--	Not Measured
TMW-B1	07/29/13	--	7.80	--	--	
TMW-B1	10/02/13	--	7.47	--	--	
TMW-B1	01/21/14	--	7.78	--	--	
TMW-1	06/21/13	--	3.44	--	--	Baseline monitoring event
TMW-1	07/29/13	--	3.72	--	--	
TMW-1	08/26/13	--	3.74	--	--	Two-month monitoring event
TMW-1	10/02/13	--	2.97	--	--	
TMW-1	01/21/14	--	3.48	--	--	
TMW-2	06/21/13	--	3.83	--	--	Baseline monitoring event
TMW-2	07/29/13	--	3.94	--	--	
TMW-2	08/26/13	--	3.91	--	--	Two-month monitoring event
TMW-2	10/02/13	--	3.15	--	--	
TMW-2	01/21/14	--	3.63	--	--	
TMW-3	06/21/13	--	3.81	--	--	Baseline monitoring event
TMW-3	07/29/13	--	3.91	--	--	
TMW-3	08/26/13	--	3.88	--	--	Two-month monitoring event
TMW-3	10/02/13	--	3.14	--	--	
TMW-3	01/21/14	--	3.76	--	--	
TMW-4	06/21/13	--	3.50	--	--	Baseline monitoring event
TMW-4	07/29/13	--	3.75	--	--	
TMW-4	08/26/13	--	3.80	--	--	Two-month monitoring event
TMW-4	10/02/13	--	2.99	--	--	
TMW-4	01/21/14	--	3.45	--	--	
TMW-5	06/21/13	--	3.24	--	--	Baseline monitoring event
TMW-5	07/29/13	--	3.31	--	--	
TMW-5	08/26/13	--	3.39	--	--	Two-month monitoring event
TMW-5	10/02/13	--	2.80	--	--	
TMW-5	01/21/14	--	3.22	--	--	
TMW-6	06/21/13	--	2.93	--	--	Baseline monitoring event
TMW-6	07/29/13	--	2.91	--	--	
TMW-6	08/26/13	--	2.92	--	--	Two-month monitoring event
TMW-6	10/02/13	--	2.12	--	--	
TMW-6	01/21/14	--	2.74	--	--	

# Table 1



## Groundwater Elevation Data

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
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**Notes:**

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

feet-msl = feet above mean sea level.

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

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

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

QA/QC: Rory G. Henneck

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
A-5	02/14/02	<0.25	<b>2.3</b>	<0.5	<b>0.00055</b>	<b>0.0017</b>	<0.0005	<0.0005	--	
A-5	05/22/02	<0.25	<b>2.0</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-5	08/29/02	<0.25	<b>1.2</b>	<0.5	<b>0.0017</b>	<b>0.00062</b>	<0.0005	<b>0.00099</b>	--	
A-5	11/06/02	<0.25	<b>1.2</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-5	02/20/03	<0.25	<0.25	<0.5	<b>0.00086</b>	<b>0.0019</b>	<0.0005	<b>0.0010</b>	--	
A-5	06/10/03	<b>0.26</b>	<b>0.40</b>	<0.25	<0.0005	<b>0.00067</b>	<0.0005	<b>0.00070</b>	--	
A-5	09/17/03	<0.25	<b>0.60</b>	<0.50	<b>0.0042</b>	<0.0005	<0.0005	<0.0005	--	
A-5	11/20/03	<0.25	<b>0.53</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-5	02/26/04	<0.25	<b>3.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-5	05/12/04	<b>0.27</b>	<b>0.43</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00057</b>	--	
A-5	08/25/04	<0.25	<b>1.1</b>	<0.50	<b>0.0029</b>	<0.0005	<0.0005	<0.0005	--	
A-5	12/14/04	<0.25	<b>0.43</b>	<0.50	<b>0.021</b>	<0.001	<0.001	<0.001	--	
A-5	03/10/05	<b>0.43</b>	<b>5.2</b>	<0.50	<b>0.12</b>	<b>0.0025</b>	<0.001	<b>0.0012</b>	--	
A-5	06/07/05	<b>0.54</b>	<b>2.4</b>	<b>1.7</b>	<b>0.12</b>	<b>0.0028</b>	<0.001	<b>0.0013</b>	--	
A-5	09/20/05	<b>0.37</b>	<b>1.2</b>	<0.50	<b>0.037</b>	<b>0.0017</b>	<0.001	<b>0.0011</b>	--	
A-5	12/13/05	<b>0.44</b>	<b>0.31</b>	<0.50	<b>0.049</b>	<b>0.0021</b>	<0.0005	<b>0.0013</b>	--	
A-5	03/15/06	<b>0.36</b>	<b>0.45</b>	<0.50	<b>0.052</b>	<b>0.0017</b>	<0.001	<b>0.0017</b>	--	
A-5	06/08/06	<b>0.91</b>	<b>0.55</b>	<0.50	<b>0.099</b>	<b>0.0036</b>	<b>0.00076</b>	<b>0.0034</b>	--	
A-5	09/12/06	<b>0.46</b>	<b>0.43</b>	<0.50	<b>0.031</b>	<b>0.0016</b>	<0.001	<b>0.0014</b>	--	
A-5	12/12/06	<b>0.70</b>	<b>0.53</b>	<0.50	<b>0.079</b>	<b>0.0028</b>	<0.001	<b>0.0025</b>	--	
A-5	03/27/07	<b>1.4</b>	--	--	<b>0.19</b>	<b>0.0045</b>	<b>0.0014</b>	<b>0.0050</b>	--	
A-5	06/19/07	<b>1.1</b>	<b>1.9</b>	<0.50	<b>0.090</b>	<b>0.0027</b>	<b>0.00072</b>	<b>0.0039</b>	--	
A-5	09/24/07	<b>0.72</b>	--	--	<b>0.039</b>	<b>0.0019</b>	<0.0005	<b>0.0018</b>	--	
A-5	12/11/07	<b>0.31</b>	--	--	<b>0.017</b>	<b>0.00096</b>	<0.0005	<b>0.00088</b>	--	
A-5	03/04/08	<b>1.4</b>	--	--	<b>0.12</b>	<b>0.0040</b>	<0.0010	<b>0.0040</b>	--	
A-5	06/03/08	<b>0.85</b>	--	--	<b>0.048</b>	<0.0015	<0.0015	<b>0.0029</b>	--	
A-5	09/08/08	<b>1.5</b>	--	--	<b>0.15</b>	<b>0.0032</b>	<b>0.0031</b>	<b>0.0076</b>	--	
A-5	12/05/08	<b>0.64</b>	--	--	<b>0.089</b>	<0.0010	<0.0010	<b>0.0038</b>	--	
A-5	03/04/09	<0.25	--	--	<b>0.0011</b>	<0.0010	<b>0.0020</b>	<b>0.0071</b>	--	
A-5	06/03/09	<b>0.45</b>	--	--	<b>0.022</b>	<0.0010	<0.0010	<b>0.0027</b>	--	
A-5	09/22/09	<b>0.75</b>	--	--	<b>0.063</b>	<b>0.0012</b>	<b>0.0041</b>	<b>0.021</b>	--	
A-5	11/17/09	<b>0.43</b>	--	--	<b>0.011</b>	<0.0010	<0.0010	<b>0.0038</b>	--	
A-5	03/08/10	<b>0.34</b>	--	--	<b>0.0059</b>	<0.0010	<b>0.0012</b>	<b>0.0051</b>	--	
A-5	06/09/10	<0.25	--	--	<b>0.0063</b>	<0.0010	<0.0010	<b>0.0019</b>	--	
A-5	09/10/10	<b>0.80</b>	--	--	<b>0.031</b>	<b>0.00170</b>	<b>0.0047</b>	<b>0.025</b>	--	
A-5	11/16/10	<b>0.35</b>	--	--	<b>0.0025</b>	<0.0010	<b>0.0011</b>	<b>0.0086</b>	--	
A-5	03/02/11	<b>0.34</b>	--	--	<b>0.0042</b>	<0.0010	<0.0010	<b>0.0019</b>	--	
A-5	05/25/11	<b>0.39</b>	--	--	<b>0.0078</b>	<b>0.00057</b>	<0.0005	<b>0.0014</b>	--	
A-5	08/30/11	<b>0.47</b>	--	--	<b>0.0027</b>	<b>0.00070</b>	<0.0005	<b>0.0013</b>	--	
A-5	12/02/11	<b>0.29</b>	--	--	<b>0.0017</b>	<0.0010	<0.0010	<0.0020	--	
A-5	03/02/12	<0.25	--	--	<b>0.00094</b>	<0.0005	<0.0005	<0.0005	--	

# Table 2

## Groundwater Analytical Results

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
A-5	06/01/12	<0.25	--	--	<b>0.012</b>	<0.0010	<0.0010	<b>0.0010</b>	--	Duplicate of A-5
A-5 (DUP)	06/01/12	<0.25	--	--	<b>0.011</b>	<0.0010	<0.0010	<b>0.0010</b>	--	
A-5	08/25/12	<b>0.57</b>	--	--	<b>0.020</b>	<b>0.0012</b>	<0.0010	<b>0.0014</b>	--	
A-5	11/08/12	<b>0.27</b>	--	--	<b>0.028</b>	<0.001	<0.001	<b>0.0011</b>	--	
A-5	02/28/13	<b>0.66</b>	--	--	<b>0.062</b>	<b>0.0017</b>	<0.0005	<b>0.0013</b>	--	
A-5	04/10/13	<b>0.46</b>	--	--	<b>0.014</b>	<0.001	<0.001	<0.001	--	
A-5	07/29/13	<b>0.54</b>	--	--	<b>0.033</b>	<b>0.0022</b>	<0.0005	<b>0.0022</b>	--	
A-5	10/03/13	<b>0.47</b>	--	--	<b>0.049</b>	<b>0.0014</b>	<0.001	<b>0.0016</b>	--	
A-5	01/21/14	<b>0.51</b>	--	--	<b>0.051</b>	<b>0.0012</b>	<0.001	<0.001	--	
A-8	02/14/02	<0.25	<b>1.6</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-8	05/22/02	<0.25	<b>0.51</b>	<0.5	<0.0005	<b>0.00058</b>	<0.0005	<0.0005	--	
A-8	08/28/02	<0.25	<0.5	<0.5	<0.0005	<b>0.0014</b>	<0.0005	<b>0.00066</b>	--	
A-8	11/06/02	<0.25	<b>0.43</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-8	02/20/03	<0.25	<0.25	<0.5	<0.0005	<b>0.00083</b>	<0.0005	<0.0005	--	
A-8	06/10/03	<0.25	<0.25	<0.25	<0.0005	<b>0.00056</b>	<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	<b>1.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-8	02/26/04	<b>0.35</b>	<b>1.0</b>	<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	<b>4.9</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	
A-8	12/14/04	<0.25	<b>1.7</b>	<0.50	<b>0.00056</b>	<b>0.00052</b>	<0.0005	<b>0.00094</b>	--	
A-8	03/10/05	<0.25	<b>2.1</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00055</b>	--	
A-8	06/07/05	<0.25	<b>1.2</b>	<b>1.5</b>	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-8	09/20/05	<0.25	<b>3.5</b>	<b>0.83</b>	<b>0.0012</b>	<0.001	<0.001	<b>0.0012</b>	--	
A-8	12/13/05	<0.25	<b>0.54</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.0011</b>	--	
A-8	03/15/06	<0.25	<b>0.55</b>	<0.50	<0.0010	<0.0010	<0.0010	<b>0.0010</b>	--	
A-8	06/08/06	<0.25	<b>0.47</b>	<0.50	<0.0010	<0.0010	<0.0010	<b>0.0010</b>	--	
A-8	09/12/06	<0.25	<b>0.76</b>	<0.50	<0.0010	<0.0010	<0.0010	<b>0.0011</b>	--	
A-8	12/12/06	<b>0.27</b>	<b>0.87</b>	<0.50	<0.0010	<b>0.0011</b>	<0.0010	<b>0.0015</b>	--	
A-8	06/19/07	<0.25	<b>2.4</b>	<b>0.58</b>	<0.0010	<0.0010	<0.0010	<b>0.0010</b>	--	
A-8	06/03/08	<0.30	<b>0.46</b>	<0.50	<0.0015	<0.0015	<0.0015	<0.0015	--	
A-8	06/03/09	<0.25	<b>1.6</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
A-8	06/09/10	<0.25	<b>0.45</b>	<0.50	<b>0.0054</b>	<0.0010	<0.0010	<0.0010	--	
A-8	05/25/11	<0.25	<b>1.2</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
A-8	06/01/12	<0.50	<b>0.90</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	
A-8	04/10/13	<b>0.25</b>	--	<0.50	<0.001	<0.001	<0.001	<0.001	--	
A-10	02/14/02	<0.25	<b>9.2</b>	<0.5	<0.0005	<b>0.00062</b>	<0.0005	<0.0005	--	
A-10	05/22/02	<b>0.31</b>	<b>8.8</b>	<0.5	<0.0005	<b>0.00086</b>	<0.0005	<0.0005	--	
A-10	08/28/02	<b>0.30</b>	<b>15</b>	<0.5	<0.001	<0.001	<0.001	<0.001	--	
A-10	11/06/02	<b>0.37</b>	<b>13</b>	<0.50	<0.0005	<b>0.00057</b>	<0.0005	<0.0005	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
A-10	02/20/03	<0.25	<b>6.0</b>	<0.5	<b>0.0013</b>	<0.0005	<0.0005	<b>0.00055</b>	--	
A-10	06/10/03	<b>0.45</b>	<b>19</b>	<0.25	<0.001	<0.001	<0.001	<0.001	--	
A-10	09/17/03	<b>0.68</b>	<b>30</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	11/20/03	<b>1.1</b>	<b>89</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	02/26/04	<0.25	<b>35</b>	<b>0.74</b>	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	05/12/04	<0.25	<b>3.5</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	08/25/04	<0.25	<b>5.1</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	12/14/04	<0.25	<b>1.1</b>	<0.50	<b>0.0030</b>	<0.001	<0.001	<0.001	--	
A-10	03/10/05	<0.25	<b>4.6</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	06/07/05	<b>0.30</b>	<b>68</b>	<b>2.1</b>	<b>0.00069</b>	<0.0005	<0.0005	<0.0005	--	
A-10	09/20/05	<b>0.60</b>	<b>1.5</b>	<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	<b>1.7</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00050</b>	--	
A-10	06/08/06	<0.25	<b>0.66</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00050</b>	--	
A-10	09/12/06	<0.25	<b>0.65</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00050</b>	--	
A-10	12/12/06	<0.25	<b>0.98</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	06/19/07	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	06/03/09	<0.25	<b>2.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	06/09/10	<0.25	<b>0.56</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	05/25/11	<0.25	<b>0.80</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	06/01/12	<0.25	<b>0.62</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-10	04/10/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-12	12/12/06	<0.25	<b>0.98</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-12	06/03/08	<0.25	<b>0.63</b>	<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	<b>0.00061</b>	<b>0.0021</b>	<0.0005	<0.0005	<b>0.005*</b>	
A-14R	05/22/02	<0.25	<0.5	<0.5	<b>0.00053</b>	<b>0.0021</b>	<0.0005	<b>0.00054</b>	<b>0.02*</b>	
A-14R	08/28/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
A-14R	11/06/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
A-14R	02/20/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
A-14R	06/10/03	<0.25	<0.25	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.020</b>	
A-14R	09/17/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.025*</b>	
A-14R	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.032*</b>	
A-14R	02/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.018*</b>	
A-14R	05/12/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0072*</b>	
A-14R	03/10/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	06/07/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	09/20/05	--	--	--	--	--	--	--	--	Not Sampled



**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
A-14R	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-14R	06/19/07	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-14R	06/03/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-14R	06/03/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-14R	06/09/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-14R	05/25/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-14R	06/01/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-14R	04/10/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-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	<b>2.5</b>	--	--	<0.0010	<0.0010	<b>0.037</b>	<b>0.013</b>	--	
A-21	02/14/02	<0.25	<0.25	<0.5	<0.0005	<b>0.0010</b>	<0.0005	<0.0005	<0.005*	
A-21	05/22/02	<0.25	<0.5	<0.5	<b>0.00061</b>	<b>0.0017</b>	<0.0005	<b>0.00057</b>	<0.005*	
A-21	08/29/02	<0.25	<b>0.76</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
A-21	11/06/02	<0.25	<b>0.37</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
A-21	02/19/03	<0.25	<0.5	<0.5	<b>0.0013</b>	<b>0.0018</b>	<0.0005	<b>0.00061</b>	<0.005*	
A-21	06/10/03	<b>0.25</b>	<0.25	<0.25	<b>0.0082</b>	<b>0.00058</b>	<0.0005	<0.0005	<b>0.062*</b>	
A-21	09/16/03	<0.25	<0.25	<0.50	<b>0.0034</b>	<0.0005	<0.0005	<0.0005	<b>0.0085*</b>	
A-21	11/19/03	<b>0.47</b>	<0.25	<0.50	<b>0.061</b>	<b>0.0019</b>	<0.0005	<b>0.0029</b>	<b>0.0067*</b>	
A-21	02/25/04	<b>0.63</b>	<0.50	<0.50	<b>0.013</b>	<b>0.00066</b>	<b>0.045</b>	<b>0.0016</b>	<0.0050*	
A-21	05/12/04	<b>0.50</b>	<0.25	<0.50	<b>0.0019</b>	<0.0005	<b>0.0042</b>	<b>0.00072</b>	<0.0050*	
A-21	08/25/04	<b>0.26</b>	<0.25	<0.50	<b>0.0015</b>	<0.0005	<0.0005	<b>0.0015</b>	<0.0050*	
A-21	12/14/04	<b>0.99</b>	<0.25	<0.50	<b>0.061</b>	<b>0.0025</b>	<b>0.022</b>	<b>0.0083</b>	<0.0050*	
A-21	03/10/05	<b>1.5</b>	<b>0.26</b>	<0.50	<b>0.024</b>	<b>0.0021</b>	<b>0.0025</b>	<b>0.011</b>	<b>0.020*</b>	
A-21	06/07/05	<b>1.2</b>	<b>0.35</b>	<0.50	<b>0.0076</b>	<b>0.00084</b>	<b>0.00077</b>	<b>0.0043</b>	<0.0050*	
A-21	09/20/05	<b>1.3</b>	<0.25	<0.50	<b>0.011</b>	<b>0.0012</b>	<b>0.00066</b>	<b>0.0048</b>	<0.0050*	
A-21	12/13/05	<b>1.6</b>	<0.25	<0.50	<b>0.017</b>	<b>0.00160</b>	<b>0.0015</b>	<b>0.0052</b>	<0.0050*	
A-21	03/15/06	<b>0.97</b>	<0.25	<0.50	<b>0.0098</b>	<b>0.00097</b>	<b>0.0023</b>	<b>0.0033</b>	<0.0050*	
A-21	06/08/06	<b>0.82</b>	<0.25	<0.50	<b>0.0023</b>	<b>0.00059</b>	<0.0005	<b>0.0019</b>	<0.0050*	
A-21	09/12/06	<b>0.85</b>	<0.25	<0.50	<b>0.0019</b>	<0.0005	<0.0005	<b>0.0016</b>	<0.0050*	
A-21	12/12/06	<b>0.85</b>	<0.25	<0.50	<b>0.0071</b>	<0.0005	<b>0.0021</b>	<b>0.0014</b>	<0.0050*	
A-21	03/27/07	<b>0.28</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-21	06/19/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-21	09/25/07	<0.25	--	--	<b>0.0040</b>	<0.0005	<0.0005	<0.0005	--	
A-21	12/11/07	<b>0.51</b>	--	--	<b>0.0062</b>	<0.0005	<b>0.026</b>	<b>0.0020</b>	--	
A-21	03/04/08	<0.25	--	--	<0.0005	<0.0005	<b>0.0051</b>	<0.0005	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
A-21	06/04/08	<0.25	--	--	<0.0005	<0.0005	<b>0.00075</b>	<0.0005	<0.0050	
A-21	09/08/08	<b>0.41</b>	--	--	<0.0005	<b>0.00074</b>	<b>0.0018</b>	<b>0.00053</b>	--	
A-21	12/04/08	<b>0.96</b>	--	--	<0.0010	<0.0010	<b>0.150</b>	<0.0010	--	
A-21	03/04/09	<b>0.48</b>	--	--	<b>0.0075</b>	<0.0005	<b>0.0068</b>	<b>0.021</b>	--	
A-21	06/02/09	<b>0.46</b>	--	--	<b>0.0027</b>	<0.00050	<b>0.0023</b>	<b>0.0059</b>	<b>0.0087</b>	
A-21	09/22/09	<b>0.27</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-21	11/17/09	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-21	03/08/10	<0.25	--	--	<b>0.0026</b>	<0.0005	<b>0.0019</b>	<b>0.0046</b>	--	
A-21	06/08/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-21	09/10/10	<0.25	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	
A-21	11/16/10	<b>0.82</b>	--	--	<0.0010	<0.0010	<b>0.056</b>	<b>0.011</b>	--	
A-21	03/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-21	05/24/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-21	08/30/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-21	12/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	
A-21	03/02/12	<b>1.7</b>	--	--	<0.0010	<0.0010	<b>0.16</b>	<b>0.026</b>	--	
A-21	05/30/12	<b>1.5</b>	--	--	<0.0010	<0.0010	<b>0.027</b>	<0.0010	<0.0050	
A-21	08/25/12	<b>1.6</b>	--	--	<0.0010	<0.0010	<b>0.024</b>	<0.0010	--	
A-21	11/08/12	<b>0.53</b>	--	--	<0.0005	<0.0005	<b>0.0011</b>	<b>0.0015</b>	--	
A-21	02/28/13	<b>0.44</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-21	04/10/13	<b>0.58</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-21	07/29/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-21	10/03/13	<0.25	--	--	<0.001	<0.001	<0.001	<0.001	--	
A-21	01/21/14	<0.25	--	--	<0.001	<0.001	<0.001	<0.001	--	
A-22R	05/25/11	<b>27</b>	--	--	<b>3.4</b>	<b>0.086</b>	<b>3.0</b>	<b>1.7</b>	--	
A-23R	02/14/02	<b>0.26</b>	<b>2.1</b>	<0.5	<b>0.060</b>	<b>0.0010</b>	<b>0.0099</b>	<b>0.0072</b>	<b>0.72*a</b>	
A-23R	05/20/02	<b>0.74</b>	<b>6.9</b>	<0.5	<b>0.15</b>	<0.001	<b>0.088</b>	<b>0.0067</b>	<b>0.095*a</b>	
A-23R	08/28/02	<b>0.62</b>	<b>2.1</b>	<0.5	<b>0.20</b>	<b>0.0035</b>	<b>0.021</b>	<b>0.0075</b>	<b>0.23*</b>	
A-23R	11/05/02	<b>0.74</b>	<b>1.7</b>	<0.5	<b>0.22</b>	<0.0015	<b>0.0059</b>	<b>0.014</b>	<b>0.18*</b>	
A-23R	02/19/03	<b>0.71</b>	<b>2.3</b>	<0.5	<b>0.26</b>	<b>0.0033</b>	<b>0.0054</b>	<b>0.0059</b>	<b>0.049*</b>	
A-23R	06/10/03	<0.25	<b>1.8</b>	<0.25	<b>0.0073</b>	<0.001	<b>0.0028</b>	<0.001	<0.005*	
A-23R	09/16/03	<b>0.70</b>	<b>1.3</b>	<0.50	<b>0.043</b>	<b>0.0029</b>	<b>0.057</b>	<b>0.0018</b>	<b>0.38*</b>	
A-23R	11/19/03	<b>1.0</b>	<b>0.78</b>	<0.50	<b>0.080</b>	<b>0.0037</b>	<b>0.069</b>	<b>0.0035</b>	<b>0.13*</b>	
A-23R	02/25/04	<b>1.6</b>	<b>0.78</b>	<0.50	<b>0.26</b>	<b>0.0072</b>	<b>0.061</b>	<b>0.015</b>	<b>0.081*</b>	
A-23R	05/12/04	<b>0.28</b>	<b>0.45</b>	<0.50	<b>0.020</b>	<b>0.00075</b>	<b>0.0022</b>	<b>0.00082</b>	<0.0050*	
A-23R	08/25/04	<b>2.3</b>	<b>0.35</b>	<0.50	<b>0.46</b>	<b>0.012</b>	<b>0.074</b>	<b>0.020</b>	<b>0.012*</b>	
A-23R	12/14/04	<b>2.0</b>	<b>0.65</b>	<0.50	<b>0.37</b>	<b>0.0084</b>	<b>0.041</b>	<b>0.013</b>	<b>0.018*</b>	
A-23R	03/10/05	<b>0.60</b>	<b>0.31</b>	<0.50	<b>0.035</b>	<b>0.0011</b>	<b>0.0045</b>	<b>0.0014</b>	<b>0.035*</b>	
A-23R	06/07/05	<b>0.33</b>	<0.25	<0.50	<b>0.0080</b>	<0.0005	<b>0.0012</b>	<0.0005	<b>0.013*</b>	
A-23R	09/20/05	<0.25	<0.25	<0.50	<b>0.00060</b>	<0.0005	<0.0005	<0.0005	<b>0.0096*a</b>	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
A-23R	12/14/05	<b>0.37</b>	<0.25	<0.50	<b>0.019</b>	<b>0.00056</b>	<b>0.00065</b>	<b>0.00058</b>	<b>0.032*</b>	
A-23R	03/15/06	<b>1.1</b>	<0.25	<0.50	<b>0.34</b>	<b>0.0033</b>	<0.0025	<b>0.0051</b>	<0.0050*	
A-23R	06/08/06	<b>0.34</b>	<0.25	<0.50	<b>0.033</b>	<0.0005	<0.0005	<b>0.031</b>	<b>0.0081*</b>	
A-23R	09/12/06	<b>0.42</b>	<0.25	<0.50	<b>0.010</b>	<0.0005	<b>0.032</b>	<b>0.0013</b>	<b>0.035*</b>	
A-23R	12/12/06	<b>2.1</b>	<0.25	<0.50	<b>0.52</b>	<b>0.0066</b>	<b>0.053</b>	<b>0.021</b>	<0.0050*	
A-23R	03/27/07	<b>0.86</b>	--	--	<b>0.17</b>	<b>0.0019</b>	<b>0.0019</b>	<b>0.0045</b>	--	
A-23R	06/19/07	<b>0.44</b>	--	--	<b>0.021</b>	<b>0.00058</b>	<b>0.010</b>	<b>0.0013</b>	<b>0.0076*</b>	
A-23R	09/24/07	--	--	--	--	--	--	--	--	Not Sampled
A-23R	12/11/07	<b>0.79</b>	--	--	<b>0.095</b>	<b>0.0025</b>	<b>0.0050</b>	<b>0.0026</b>	--	
A-23R	03/04/08	<0.25	--	--	<b>0.00097</b>	<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	--	--	<b>0.00073</b>	<0.0005	<b>0.0022</b>	<b>0.013</b>	--	
A-23R	06/02/09	<0.25	--	--	<b>0.0013</b>	<0.00050	<b>0.0021</b>	<b>0.0059</b>	<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	<b>0.0010</b>	<0.0005	--	
A-23R	03/08/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	06/08/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
A-23R	09/09/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	11/16/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	03/01/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	05/24/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050***	
A-23R	08/29/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	12/01/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	
A-23R	03/01/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	05/30/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050***	
A-23R	11/07/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	02/27/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	04/08/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
A-23R	07/29/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-23R	10/02/13	<0.25	--	--	<0.001	<0.001	<0.001	<0.001	--	
A-23R	01/21/14	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
A-25	06/16/11	<b>4.1</b>	--	--	<b>0.27</b>	<b>0.038</b>	<b>0.28</b>	<b>0.19</b>	--	
A-26R	05/25/11	<b>22</b>	--	--	<b>4.0</b>	<b>0.095</b>	<b>1.6</b>	<b>0.75</b>	--	
A-27	02/14/02	<b>2.9</b>	<b>11</b>	<0.5	<b>0.13</b>	<b>0.014</b>	<b>0.096</b>	<b>0.25</b>	--	
A-27	05/22/02	<b>3.3</b>	<b>8.2</b>	<0.5	<b>0.20</b>	<b>0.016</b>	<b>0.14</b>	<b>0.38</b>	--	
A-27	08/29/02	<b>3.8</b>	<b>8.1</b>	<0.5	<b>0.24</b>	<b>0.016</b>	<b>0.14</b>	<b>0.29</b>	--	
A-27	11/06/02	<b>3.2</b>	<b>8.0</b>	<0.5	<b>0.16</b>	<b>0.016</b>	<b>0.065</b>	<b>0.14</b>	--	
A-27	02/19/03	<b>3.1</b>	<b>6.8</b>	<0.5	<b>0.17</b>	<b>0.017</b>	<b>0.052</b>	<b>0.13</b>	--	
A-27	06/10/03	<b>3.7</b>	<b>4.5</b>	<0.25	<b>0.14</b>	<b>0.013</b>	<b>0.11</b>	<b>0.23</b>	--	

# Table 2

## Groundwater Analytical Results

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

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

# Table 2

## Groundwater Analytical Results

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments	
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058		
A-27	06/21/13	1.0	0.40 K	--	0.053	0.0024	0.043	0.0083	--	Baseline monitoring event	
A-27	07/30/13	1.8	--	--	0.073	0.0039	0.051	0.017	--		
A-27	10/02/13	1.9	--	--	0.066	0.0041	0.038	0.021	--		
A-27	01/22/14	2.6	--	--	0.078	0.0042	0.061	0.062	--		
A-28R	02/14/02	5.3	2.7	<0.5	0.66	0.027	0.42	0.20	0.035*		
A-28R	05/22/02	3.1	6.7	<0.5	0.14	0.010	0.20	0.092	0.05*		
A-28R	08/29/02	4.0	6.0	<0.5	0.15	0.019	0.23	0.078	0.032*		
A-28R	11/06/02	3.4	1.8	<0.5	0.47	0.015	0.053	0.050	0.028*		
A-28R	02/19/03	3.5	4.6	<0.5	0.46	0.015	0.051	0.050	0.013*		
A-28R	06/10/03	3.7	2.9	<0.25	0.31	0.0081	0.085	0.051	0.064*		
A-28R	09/16/03	3.8	2.0	<0.50	1.0	0.013	0.075	0.048	0.17*		
A-28R	11/19/03	4.9	<0.25	<0.50	0.58	0.012	0.059	0.064	0.11*		
A-28R	02/25/04	5.1	1.7	<0.50	0.63	0.0093	0.19	0.076	0.0080*		
A-28R	05/12/04	6.5	2.6	<0.50	0.96	0.012	0.20	0.058	<0.0050*		
A-28R	08/25/04	5.9	0.88	<0.50	2.1	0.018	0.050	0.053	0.043*		
A-28R	12/14/04	7.6	3.0	<0.50	1.4	0.015	0.073	0.062	0.025*		
A-28R	03/10/05	10	0.76	<0.50	1.9	0.019	0.077	0.064	0.0078*		
A-28R	06/07/05	6.4	1.2	<0.50	2.1	0.015	0.069	0.048	0.0068*		
A-28R	09/20/05	--	--	--	--	--	--	--	--		Not Sampled
A-28R	12/13/05	5.4	<0.25	<0.50	0.93	0.011	0.033	0.036	0.012*		
A-28R	03/15/06	4.6	<0.25	<0.50	0.80	0.012	0.11	0.035	<0.0050*		
A-28R	06/08/06	4.2	0.49	0.73	0.87	0.013	0.070	0.035	0.019*		
A-28R	09/12/06	5.2	<0.25	<0.50	1.0	0.015	0.048	0.036	0.016*		
A-28R	12/12/06	4.0	0.57	<0.50	0.30	0.0095	0.027	0.028	<0.0050*		
A-28R	03/27/07	5.5	--	--	0.71	0.014	0.062	0.022	--		
A-28R	06/19/07	5.3	--	--	0.59	0.018	0.058	0.041	<0.0050		
A-28R	09/24/07	3.9	--	--	0.53	0.015	0.041	0.035	--		
A-28R	12/11/07	2.1	--	--	0.088	0.0044	0.013	0.015	--		
A-28R	03/04/08	3.6	--	--	0.27	0.0087	0.044	0.022	--		
A-28R	06/04/08	2.2	--	--	0.095	0.0049	0.0060	0.012	<0.0050		
A-28R	12/04/08	1.4	--	--	0.026	0.0022	0.011	0.0075	--		
A-28R	03/04/09	1.4	--	--	0.12	0.0060	0.057	0.029	--		
A-28R	06/02/09	2.1	--	--	0.055	0.0020	0.016	0.0069	<0.0050		
A-28R	09/22/09	2.3	--	--	0.10	0.0026	0.038	0.016	--		
A-28R	11/16/09	1.7	--	--	0.080	0.0020	0.039	0.017	--		
A-28R	03/09/10	7.3	--	--	0.65	0.0079	0.32	0.092	--		
A-28R	06/08/10	2.2	--	--	0.14	0.0018	0.045	0.013	<0.0050		
A-28R	09/10/10	2.4	--	--	0.12	0.0020	0.041	0.011	--		
A-28R	11/16/10	1.8	--	--	0.077	0.0017	0.047	0.013	--		
A-28R	03/02/11	2.8	--	--	0.15	0.0029	0.083	0.016	--		

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
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	0.044	0.0059	--	
A-28R	04/10/13	3.2	--	--	0.035	0.0013	0.03	0.0042	<0.0050	
A-28R	07/29/13	2.5	--	--	0.043	0.0018	0.019	0.0034	--	
A-28R	10/02/13	1.4	--	--	0.015	<0.001	0.0043	0.0026	--	
A-28R	01/22/14	1.4	--	--	0.17	0.0027	0.006	0.0033	--	
A-29R	05/25/11	5.6	--	--	2.3	0.018	<0.015	0.024	--	
11	06/24/13	<0.25	0.30	--	<0.0005	<0.0005	<0.0005	<0.0005	--	Baseline monitoring event
11	07/30/13	<0.25	--	--	--	--	--	--	--	
11	10/03/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
11	01/22/14	0.75	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
12	06/24/13	4.1	5.3 K	--	0.037	0.045	0.13	0.53	--	Baseline monitoring event
12	10/03/13	2.7	--	--	0.002	0.0057	0.043	0.18	--	
12	01/22/14	4.2	--	--	0.0067	0.015	0.027	0.34	--	
MW-1	02/13/02	<0.25	2.0	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-1	05/21/02	<0.25	1.9	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-1	08/28/02	<0.25	1.0	<0.5	0.0013	0.0067	0.00052	0.0016	<0.005*	
MW-1	11/05/02	<0.25	0.87	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	0.021*	
MW-1	02/19/03	<0.25	1.9	<0.5	<0.0005	0.00058	<0.0005	<0.0005	<0.005*	
MW-1	06/10/03	<0.25	1.1	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-1	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	02/25/04	<0.25	1.3	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	05/11/04	<0.25	0.87	<0.50	<0.0005	0.00068	<0.0005	<0.0005	<0.0050*	
MW-1	08/25/04	0.83	0.40	<0.50	<0.0005	<0.0005	0.00065	<0.0005	<0.0050*	
MW-1	12/15/04	<0.25	0.38	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	03/09/05	<0.25	0.63	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	06/08/05	<0.25	0.80	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	09/21/05	<0.25	0.40	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	06/07/06	<0.25	0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-1	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0052*</b>	
MW-1	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-1	06/20/07	<0.25	<b>0.75</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-1	06/05/08	<0.25	<b>0.32</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.0013</b>	<0.0050	
MW-1	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-1	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-1	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-1	06/01/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-1	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-2	02/13/02	<0.25	<b>0.71</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-2	05/21/02	<0.25	<b>0.66</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-2	08/29/02	<0.25	<b>0.91</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-2	11/05/02	<0.25	<b>0.73</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-2	02/19/03	<0.25	<b>0.74</b>	<0.5	<0.0005	<b>0.00062</b>	<0.0005	<0.0005	<b>0.028*</b>	
MW-2	06/10/03	<0.25	<b>0.61</b>	<0.25	<0.0005	<b>0.00071</b>	<0.0005	<0.0005	<b>0.026*a</b>	
MW-2	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.062*</b>	
MW-2	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.021*</b>	
MW-2	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.030*</b>	
MW-2	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	12/14/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	03/10/05	<0.25	<b>0.29</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	06/07/05	<0.25	<b>0.91</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.036*</b>	
MW-2	09/20/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	12/13/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.024*</b>	
MW-2	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0063*</b>	
MW-2	09/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	12/12/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-2	06/19/07	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-2	06/04/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-2	06/03/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-2	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.063</b>	
MW-2	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-2	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-2	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-3	02/13/02	<0.25	<b>1.8</b>	<0.5	<b>0.011</b>	<b>0.0015</b>	<b>0.0045</b>	<b>0.011</b>	<0.005*	
MW-3	05/20/02	<b>0.38</b>	<b>1.9</b>	<0.5	<b>0.052</b>	<b>0.0028</b>	<b>0.025</b>	<b>0.020</b>	<b>0.01*</b>	
MW-3	08/28/02	<b>0.62</b>	<b>2.5</b>	<0.5	<b>0.11</b>	<b>0.0071</b>	<b>0.021</b>	<b>0.030</b>	<0.005*	
MW-3	11/06/02	<b>0.63</b>	<b>1.1</b>	<0.5	<b>0.14</b>	<b>0.0053</b>	<b>0.021</b>	<b>0.015</b>	<b>0.006*</b>	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-3	02/19/03	<0.25	<b>1.8</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.014*</b>	
MW-3	06/11/03	<0.25	<b>1.3</b>	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.019*</b>	
MW-3	09/17/03	<0.25	<b>1.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.042*</b>	
MW-3	11/20/03	<0.25	<b>2.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0063*</b>	
MW-3	02/25/04	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.025*</b>	
MW-3	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	08/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0051*</b>	
MW-3	12/15/04	<0.25	<b>0.33</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.018*</b>	
MW-3	03/09/05	<0.25	<0.25	<0.50	<b>0.0010</b>	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	06/08/05	<0.25	<0.25	<0.50	<b>0.0011</b>	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	09/21/05	<0.25	<0.25	<0.50	<b>0.00094</b>	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-3	06/20/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-3	06/05/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-3	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-3	06/09/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<b>0.0011</b>	<b>0.0053</b>	<0.0050	
MW-3	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-3	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-3	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-4	02/14/02	<b>0.78</b>	<b>280</b>	<50	<b>0.30</b>	<b>0.0072</b>	<b>0.0023</b>	<b>0.0082</b>	--	
MW-4	05/21/02	<b>1.5</b>	<b>8.6</b>	<0.5	<b>0.43</b>	<b>0.023</b>	<b>0.034</b>	<b>0.13</b>	--	
MW-4	08/28/02	<b>3.3</b>	<b>30</b>	<b>2.6</b>	<b>1.1</b>	<b>0.016</b>	<b>0.016</b>	<b>0.024</b>	--	
MW-4	11/05/02	--	--	--	--	--	--	--	--	Not Sampled
MW-4	02/19/03	<b>3.1</b>	<b>31</b>	<0.5	<b>0.056</b>	<b>0.0017</b>	<b>0.014</b>	<b>0.020</b>	--	
MW-4	06/10/03	<b>0.39</b>	<b>12</b>	<0.25	<b>0.031</b>	<b>0.0012</b>	<b>0.0091</b>	<b>0.0096</b>	--	
MW-4	09/16/03	--	--	--	--	--	--	--	--	Not Sampled
MW-4	11/19/03	<b>0.25</b>	<b>19</b>	<0.50	<b>0.033</b>	<0.001	<b>0.0042</b>	<b>0.0069</b>	--	
MW-4	02/25/04	<b>0.36</b>	<b>15</b>	<0.50	<b>0.035</b>	<b>0.0014</b>	<b>0.0056</b>	<b>0.0094</b>	--	
MW-4	05/12/04	<b>0.33</b>	<b>7.4</b>	<0.50	<b>0.012</b>	<0.001	<b>0.0048</b>	<b>0.0058</b>	--	
MW-4	08/26/04	<0.50	<b>5.1</b>	<0.50	<b>0.014</b>	<0.0025	<b>0.0039</b>	<b>0.0069</b>	--	
MW-4	12/15/04	--	--	--	--	--	--	--	--	Not Sampled
MW-4	03/09/05	<2.0	<b>11</b>	<0.50	<0.01	<0.01	<0.01	<b>0.013</b>	--	
MW-4	06/08/05	<1.0	<b>16</b>	<b>1.1</b>	<0.005	<0.005	<0.005	<0.005	<0.0050	
MW-4	09/21/05	<2.0	<b>19</b>	<b>2.1</b>	<0.010	<0.010	<0.010	<0.010	--	
MW-4	12/14/05	<0.50	<b>6.2</b>	<b>0.81</b>	<b>0.012</b>	<0.0025	<b>0.0032</b>	<b>0.0084</b>	--	
MW-4	03/14/06	<0.40	<b>3.9</b>	<b>0.69</b>	<b>0.0063</b>	<0.0020	<b>0.0020</b>	<b>0.0062</b>	--	
MW-4	06/07/06	<0.50	<b>4.5</b>	<0.50	<b>0.0037</b>	<0.0025	<0.0025	<0.0025	--	



**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-4	09/13/06	<0.50	<b>2.7</b>	<0.50	<b>0.0034</b>	<0.0025	<0.0025	<b>0.0029</b>	--	
MW-4	12/13/06	<0.25	<b>3.7</b>	<b>0.62</b>	<b>0.0012</b>	<0.0005	<0.0005	<b>0.0023</b>	--	
MW-4	06/20/07	<0.25	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-4	06/05/08	<0.25	<b>1.2</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-4	06/01/09	<0.25	<b>2.1</b>	<b>0.61</b>	<0.0005	<0.0005	<0.0005	<b>0.00080</b>	--	
MW-4	06/08/10	<0.25	<b>0.86</b>	<0.50	<0.0005	<b>0.00057</b>	<0.0005	<b>0.0018</b>	--	
MW-4	05/23/11	<0.25	<b>1.6</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-4	06/01/12	<0.50	<b>2.0</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-4	04/09/13	<0.50 O	--	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-5	02/13/02	<0.25	<0.25	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-5	05/21/02	<0.25	<0.5	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.01*</b>	
MW-5	08/29/02	<0.25	<b>1.2</b>	<0.5	<0.0005	<b>0.0018</b>	<0.0005	<b>0.00063</b>	<0.005*	
MW-5	11/05/02	<0.25	<b>1.6</b>	<0.5	<b>0.0055</b>	<b>0.0016</b>	<0.0005	<b>0.00056</b>	<0.005*	
MW-5	02/20/03	<0.25	<0.25	<0.5	<0.0005	<b>0.00066</b>	<0.0005	<0.0005	<0.005*	
MW-5	06/11/03	<0.25	<b>0.36</b>	<0.25	<0.0005	<b>0.00079</b>	<0.0005	<0.0005	<0.005*	
MW-5	09/16/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.011*</b>	
MW-5	11/20/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0086*</b>	
MW-5	02/24/04	<0.25	<0.50	<0.50	<0.0005	<b>0.0014</b>	<0.0005	<0.0005	<0.0050*	
MW-5	05/11/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-5	08/26/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-5	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-5	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.11*</b>	
MW-5	06/08/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-5	09/21/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-5	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-5	03/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.012*</b>	
MW-5	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0099*</b>	
MW-5	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.013*</b>	
MW-5	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0088*</b>	
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	<b>0.0094</b>	
MW-5	06/02/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00078</b>	<0.0050	
MW-5	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-5	05/24/11	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
MW-5	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-5	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0073</b>	
MW-6	02/13/02	<b>0.97</b>	<b>1.1</b>	<0.5	<b>0.014</b>	<b>0.00070</b>	<0.0005	<b>0.00065</b>	<0.005*	
MW-6	05/22/02	<b>1.1</b>	<b>2.5</b>	<0.5	<b>0.035</b>	<b>0.0012</b>	<b>0.0024</b>	<b>0.00072</b>	<0.005*	
MW-6	08/29/02	<b>0.58</b>	<b>6.4</b>	<0.5	<b>0.0014</b>	<0.001	<0.001	<0.001	<0.005*	
MW-6	11/05/02	<b>0.59</b>	<b>7.3</b>	<0.5	<b>0.064</b>	<0.001	<0.001	<b>0.0016</b>	<b>0.02*</b>	

# Table 2

## Groundwater Analytical Results

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-6	02/19/03	<b>0.54</b>	<b>1.7</b>	<0.5	<b>0.0062</b>	<0.0005	<0.0005	<0.0005	<0.005*	
MW-6	06/10/03	<b>0.70</b>	<b>1.9</b>	<0.25	<b>0.025</b>	<b>0.0011</b>	<b>0.00052</b>	<b>0.00051</b>	<0.005*	
MW-6	09/16/03	<b>0.68</b>	<0.50	<0.50	<0.0005	<0.0005	<b>0.00053</b>	<0.0005	<b>0.019*</b>	
MW-6	11/19/03	<b>0.44</b>	<b>1.6</b>	<0.50	<b>0.0095</b>	<b>0.00067</b>	<0.0005	<b>0.00051</b>	<0.0050*	
MW-6	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-6	05/11/04	<b>1.0</b>	<b>0.67</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-6	08/25/04	<0.25	<b>0.50</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-6	12/14/04	<b>0.82</b>	<b>0.81</b>	<0.50	<b>0.0080</b>	<0.0005	<0.0005	<0.0005	<b>0.011*</b>	
MW-6	03/10/05	<b>1.0</b>	<b>0.42</b>	<0.50	<b>0.0011</b>	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-6	06/07/05	<b>0.92</b>	<0.25	<0.50	<b>0.0014</b>	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-6	09/20/05	<b>0.91</b>	<0.25	<0.50	<0.0005	<0.0005	<b>0.00062</b>	<0.0005	<0.0050*	
MW-6	12/13/05	<b>1.2</b>	<b>0.38</b>	<0.50	<b>0.0032</b>	<0.0005	<b>0.00050</b>	<0.0005	<0.0050*	
MW-6	03/15/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-6	06/08/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-6	09/12/06	<b>0.71</b>	<0.25	<0.50	<0.0005	<b>0.00055</b>	<0.0005	<0.0005	<0.0050*	
MW-6	12/12/06	<0.25	<0.25	<0.50	<0.0005	<b>0.00055</b>	<0.0005	<0.0005	<0.0050*	
MW-6	03/27/07	<b>0.81</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	06/19/07	<b>0.73</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-6	09/24/07	<b>0.55</b>	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-6	12/11/07	<b>0.54</b>	--	--	<b>0.0014</b>	<0.0005	<0.0005	<0.0005	--	
MW-6	03/04/08	<b>0.25</b>	--	--	<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	<b>0.51</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	12/04/08	<b>0.43</b>	--	--	<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	<b>0.25</b>	--	--	<0.0005	<0.0005	<0.0005	<b>0.0025</b>	<0.0050	
MW-6	09/21/09	<b>0.33</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	11/17/09	<b>0.31</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	03/09/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<b>0.00095</b>	--	
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	<b>0.27</b>	--	--	<0.00050	<0.00050	<0.00050	<0.00050	--	
MW-6	11/08/12	<b>0.25</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	02/28/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-6	04/09/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-6	07/29/13	<b>0.30</b>	--	--	<0.0005	<0.0005	<0.0005	<b>0.00059</b>	--	
MW-6	10/02/13	<b>0.69</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-6	01/22/14	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-7	02/14/02	<b>13</b>	<b>7.5</b>	<0.5	<b>0.20</b>	<b>0.24</b>	<b>0.57</b>	<b>1.8</b>	<b>0.035*</b>	
MW-7	05/21/02	<b>6.6</b>	<b>11</b>	<0.5	<b>0.16</b>	<b>0.089</b>	<b>0.43</b>	<b>0.66</b>	<b>0.04*</b>	
MW-7	08/29/02	<b>2.9</b>	<b>5.7</b>	<0.5	<b>0.12</b>	<b>0.042</b>	<b>0.24</b>	<b>0.11</b>	<b>0.047*</b>	
MW-7	11/05/02	<b>0.90</b>	<b>5.9</b>	<0.5	<b>0.021</b>	<b>0.0022</b>	<b>0.0040</b>	<b>0.0066</b>	<b>0.041*</b>	
MW-7	02/20/03	<b>9.7</b>	<b>11</b>	<0.5	<b>0.12</b>	<b>0.13</b>	<b>0.33</b>	<b>1.4</b>	<b>0.11*a</b>	
MW-7	06/11/03	<b>5.7</b>	<b>8.7</b>	<0.25	<b>0.13</b>	<b>0.092</b>	<b>0.26</b>	<b>0.52</b>	<b>0.081*a</b>	
MW-7	09/17/03	<b>1.4</b>	<b>12</b>	<0.50	<b>0.078</b>	<b>0.031</b>	<b>0.15</b>	<b>0.089</b>	<b>0.11*a</b>	
MW-7	11/20/03	<b>0.26</b>	<b>0.79</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.035</b>	<b>0.019*a</b>	
MW-7	02/26/04	<b>15</b>	<b>21</b>	<0.50	<b>0.11</b>	<b>0.34</b>	<b>0.63</b>	<b>3.8</b>	<b>0.034*a</b>	
MW-7	05/11/04	<b>6.3</b>	<b>11</b>	<0.50	<b>0.059</b>	<b>0.15</b>	<b>0.31</b>	<b>1.3</b>	<b>0.0083*a</b>	
MW-7	08/26/04	<b>7.1</b>	<b>20</b>	<0.50	<b>0.054</b>	<b>0.22</b>	<b>0.34</b>	<b>1.7</b>	<b>0.067*a</b>	
MW-7	12/15/04	<b>18</b>	<b>4.4</b>	<0.50	<b>0.14</b>	<b>0.37</b>	<b>0.53</b>	<b>3.0</b>	<b>0.19*a</b>	
MW-7	03/09/05	<b>3.5</b>	<b>2.1</b>	<0.50	<b>0.045</b>	<b>0.034</b>	<b>0.090</b>	<b>0.27</b>	<b>0.079*a</b>	
MW-7	06/08/05	<b>2.9</b>	<b>2.3</b>	<0.50	<b>0.054</b>	<b>0.050</b>	<b>0.11</b>	<b>0.44</b>	<b>0.069*a</b>	
MW-7	09/20/05	--	--	--	--	--	--	--	--	Not Sampled
MW-7	09/21/05	--	--	--	--	--	--	--	--	Not Sampled
MW-7	12/14/05	<b>8.8</b>	<b>0.59</b>	<0.50	<b>0.16</b>	<b>0.19</b>	<b>0.31</b>	<b>1.5</b>	<b>0.042*a</b>	
MW-7	03/14/06	<b>15</b>	<b>0.50</b>	<0.50	<b>0.12</b>	<b>0.26</b>	<b>0.50</b>	<b>3.6</b>	<b>0.026*</b>	
MW-7	06/07/06	<b>17</b>	<b>0.85</b>	<0.50	<b>0.12</b>	<b>0.35</b>	<b>0.69</b>	<b>4.5</b>	<b>0.023*</b>	
MW-7	09/13/06	<b>2.4</b>	<b>0.32</b>	<0.50	<b>0.050</b>	<b>0.055</b>	<b>0.19</b>	<b>0.39</b>	<b>0.021*a</b>	
MW-7	12/13/06	--	--	--	--	--	--	--	--	Not Sampled
MW-7	03/27/07	<b>13</b>	--	--	<b>0.091</b>	<b>0.22</b>	<b>0.60</b>	<b>2.5</b>	--	
MW-7	06/20/07	<b>6.6</b>	--	--	<b>0.027</b>	<b>0.060</b>	<b>0.19</b>	<b>1.1</b>	<b>0.030*</b>	
MW-7	09/24/07	<b>6.6</b>	--	--	<b>0.023</b>	<b>0.094</b>	<b>0.27</b>	<b>2.0</b>	--	
MW-7	12/11/07	<b>27</b>	--	--	<b>0.031</b>	<b>0.33</b>	<b>0.87</b>	<b>6.6</b>	--	
MW-7	03/04/08	<b>19</b>	--	--	<b>0.032</b>	<b>0.19</b>	<b>0.66</b>	<b>3.8</b>	--	
MW-7	06/04/08	<b>6.4</b>	--	--	<0.01	<b>0.088</b>	<b>0.30</b>	<b>0.77</b>	<b>0.019***</b>	
MW-7	09/08/08	<b>15</b>	--	--	<b>0.015</b>	<b>0.064</b>	<b>0.35</b>	<b>2.6</b>	--	
MW-7	12/05/08	<b>8.7</b>	--	--	<b>0.019</b>	<b>0.046</b>	<b>0.33</b>	<b>1.5</b>	--	
MW-7	03/04/09	<b>5.7</b>	--	--	<b>0.014</b>	<b>0.073</b>	<b>0.25</b>	<b>1.4</b>	--	
MW-7	06/02/09	<b>5.5</b>	--	--	<b>0.014</b>	<b>0.029</b>	<b>0.15</b>	<b>0.89</b>	<b>0.0072*</b>	
MW-7	09/21/09	<b>6.1</b>	--	--	<b>0.0072</b>	<b>0.030</b>	<b>0.18</b>	<b>1.1</b>	--	
MW-7	11/17/09	<b>18</b>	--	--	<0.020	<b>0.16</b>	<b>0.54</b>	<b>4.3</b>	--	
MW-7	03/09/10	<b>5.8</b>	--	--	<b>0.013</b>	<b>0.047</b>	<b>0.20</b>	<b>0.90</b>	--	
MW-7	06/09/10	<b>4.9</b>	--	--	<b>0.0075</b>	<b>0.058</b>	<b>0.25</b>	<b>1.2</b>	<b>0.0064*</b>	
MW-7	09/09/10	<b>1.9</b>	<0.25	<0.50	<b>0.0036</b>	<b>0.0082</b>	<b>0.041</b>	<b>0.23</b>	--	
MW-7	11/15/10	<b>8.8</b>	--	--	<b>0.012</b>	<b>0.10</b>	<b>0.34</b>	<b>2.1</b>	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-7	03/01/11	4.9	--	--	0.0051	0.055	0.11	0.77	--	
MW-7	05/24/11	5.0	--	--	0.0062	0.050	0.14	0.66	0.0082***	
MW-7	08/29/11	2.3	--	--	0.0022	0.0055	0.026	0.16	--	
MW-7	12/01/11	5.2	--	--	<0.0005	0.026	0.036	0.83	--	
MW-7	03/01/12	6.0	<0.25	<0.50	0.011	0.0987	0.24	0.90	--	
MW-7	05/31/12	8.8	--	--	0.020	0.14	0.36	1.9	0.0063***	
MW-7	08/25/12	1.8	--	--	0.0024	0.0062	0.030	0.160	--	
MW-7	11/08/12	2.4	--	--	0.0028	0.028	0.072	0.55	--	
MW-7	02/28/13	1.3	--	--	<0.0015	0.007	0.007	0.19	--	
MW-7	04/09/13	8.1	--	--	<0.005	0.07	0.25	1.4	0.0097	
MW-7	04/09/13	5.7	--	--	0.0071	0.072	0.24	1.2	--	
MW-7	06/21/13	4.0	0.27 K	--	0.0059	0.064	0.28	1.1	--	Baseline monitoring event
MW-7	07/30/13	7.2	--	--	0.016	0.11	0.29	1.6	--	
MW-7	10/03/13	2.8	--	--	0.016	0.033	0.15	0.54	--	
MW-7	01/22/14	2.1	--	--	0.014	0.01	0.13	0.17	--	
MW-8	02/14/02	<0.25	8.1	<5.0	<0.0005	0.00086	<0.0005	<0.0005	0.03*	
MW-8	08/29/02	<0.25	7.5	<0.5	<0.0005	0.00082	<0.0005	<0.0005	0.017*	
MW-8	11/05/02	<0.25	1.7	1.2	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	
MW-8	02/20/03	<0.25	6.6	<0.5	<0.0005	0.00055	<0.0005	0.0024	0.029*	
MW-8	06/11/03	<0.25	3.8	<0.25	0.0013	<0.001	<0.001	<0.001	0.012*	
MW-8	09/17/03	<0.25	3.3	0.77	<0.0005	<0.0005	<0.0005	<0.0005	0.030*	
MW-8	11/20/03	<0.25	2.5	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*	
MW-8	02/26/04	<0.25	2.7	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.016*	
MW-8	05/11/04	<0.25	1.5	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-8	08/26/04	<0.25	1.0	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-8	12/15/04	<0.25	1.5	<0.50	<0.001	<0.001	<0.001	<0.001	0.0071*	
MW-8	03/09/05	<0.25	1.6	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0094*	
MW-8	06/08/05	<0.25	1.8	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.014*	
MW-8	09/21/05	<0.25	0.97	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*	
MW-8	12/14/05	<0.25	1.1	0.58	<0.001	<0.001	<0.001	0.0013	0.0060*	
MW-8	03/14/06	<0.25	0.54	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.011*	
MW-8	06/07/06	<0.25	0.88	0.61	<0.0005	<0.0005	<0.0005	<0.0005	0.0093*	
MW-8	09/13/06	<0.25	0.35	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	
MW-8	12/13/06	<0.25	0.82	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.0060*	
MW-8	06/20/07	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.029	
MW-8	06/04/08	<0.25	0.37	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	0.064	
MW-8	06/02/09	<0.25	0.52	<0.50	<0.00050	<0.00050	<0.00050	<0.00050	0.020	
MW-8	06/09/10	<0.25	0.82	0.65	<0.0005	<0.0005	<0.0005	<0.0005	0.013	
MW-8	05/24/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.020	
MW-8	05/31/12	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	0.032	

# Table 2

## Groundwater Analytical Results

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-8	04/10/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.046</b>	
MW-9	06/11/03	<b>6.0</b>	<b>13</b>	<0.50	<b>0.0031</b>	<b>0.036</b>	<b>0.076</b>	<b>0.60</b>	<b>0.022*</b>	
MW-9	09/17/03	<b>5.3</b>	<b>39</b>	<b>0.72</b>	<b>0.026</b>	<b>0.027</b>	<b>0.090</b>	<b>0.45</b>	<b>0.0095*</b>	
MW-9	11/20/03	<b>8.5</b>	<b>19</b>	<0.50	<0.005	<b>0.018</b>	<b>0.14</b>	<b>1.1</b>	<b>0.0096*</b>	
MW-9	02/26/04	<b>4.1</b>	<b>28</b>	<0.50	<b>0.022</b>	<b>0.0072</b>	<b>0.025</b>	<b>0.47</b>	<b>0.0083*</b>	
MW-9	05/11/04	<b>4.1</b>	<b>5.8</b>	<0.50	<b>0.0023</b>	<b>0.0093</b>	<b>0.081</b>	<b>0.44</b>	<0.0050*	
MW-9	08/26/04	<b>4.2</b>	<b>6.2</b>	<0.50	<b>0.0066</b>	<b>0.025</b>	<b>0.13</b>	<b>0.43</b>	<b>0.0099*</b>	
MW-9	12/15/04	<b>5.4</b>	<b>7.6</b>	<0.50	<0.0025	<b>0.011</b>	<b>0.12</b>	<b>0.39</b>	<b>0.0094*</b>	
MW-9	03/09/05	<b>4.5</b>	<b>3.5</b>	<0.50	<b>0.0037</b>	<b>0.0047</b>	<b>0.042</b>	<b>0.18</b>	<b>0.021*</b>	
MW-9	06/08/05	<b>3.2</b>	<b>3.9</b>	<0.50	<b>0.0035</b>	<b>0.0087</b>	<b>0.069</b>	<b>0.17</b>	<b>0.0076*</b>	
MW-9	09/21/05	<b>2.3</b>	<b>2.6</b>	<0.50	<b>0.0070</b>	<b>0.0077</b>	<b>0.033</b>	<b>0.12</b>	<b>0.0076*</b>	
MW-9	12/14/05	<b>4.7</b>	<b>1.2</b>	<0.50	<b>0.0078</b>	<b>0.010</b>	<b>0.12</b>	<b>0.38</b>	<b>0.0095*</b>	
MW-9	03/14/06	<b>2.4</b>	<b>1.4</b>	<0.50	<b>0.0024</b>	<b>0.0034</b>	<b>0.018</b>	<b>0.12</b>	<b>0.013*</b>	
MW-9	06/07/06	<0.25	<b>1.0</b>	<0.50	<b>0.0011</b>	<b>0.023</b>	<b>0.049</b>	<b>0.21</b>	<b>0.021*</b>	
MW-9	09/13/06	<b>1.8</b>	<b>0.46</b>	<0.50	<b>0.0044</b>	<b>0.016</b>	<b>0.063</b>	<b>0.064</b>	<b>0.010*</b>	
MW-9	12/13/06	<b>2.6</b>	<b>3.8</b>	<0.50	<0.0025	<0.0025	<b>0.024</b>	<b>0.19</b>	<b>0.025*</b>	
MW-9	03/27/07	<b>1.5</b>	--	--	<b>0.16</b>	<b>0.0013</b>	<b>0.0051</b>	<b>0.026</b>	--	
MW-9	06/20/07	<b>2.0</b>	--	--	<b>0.066</b>	<b>0.015</b>	<b>0.051</b>	<b>0.12</b>	<b>0.017</b>	
MW-9	09/24/07	<b>1.7</b>	--	--	<b>0.0036</b>	<b>0.0072</b>	<b>0.029</b>	<b>0.093</b>	--	
MW-9	12/11/07	<b>2.9</b>	--	--	<0.0025	<0.0025	<b>0.057</b>	<b>0.55</b>	--	
MW-9	03/04/08	<b>3.0</b>	--	--	<b>0.0096</b>	<0.0015	<b>0.016</b>	<b>0.15</b>	--	
MW-9	06/04/08	<b>2.0</b>	--	--	<b>0.0019</b>	<b>0.0073</b>	<b>0.039</b>	<b>0.089</b>	<b>0.0088</b>	
MW-9	09/08/08	<b>2.4</b>	--	--	<b>0.0022</b>	<b>0.020</b>	<b>0.077</b>	<b>0.16</b>	--	
MW-9	12/05/08	<b>0.93</b>	--	--	<0.0015	<0.0015	<0.0015	<b>0.052</b>	--	
MW-9	03/04/09	<b>0.42</b>	--	--	<0.0010	<0.0010	<b>0.0040</b>	<b>0.031</b>	--	
MW-9	06/02/09	<b>1.2</b>	--	--	<0.00050	<0.00050	<b>0.0041</b>	<b>0.032</b>	<b>0.0099</b>	
MW-9	09/22/09	<b>1.2</b>	--	--	<b>0.0060</b>	<b>0.0018</b>	<b>0.0068</b>	<b>0.033</b>	--	
MW-9	11/17/09	<0.25	--	--	<0.0005	<b>0.00050</b>	<0.0005	<b>0.0043</b>	--	
MW-9	03/09/10	<0.25	--	--	<b>0.00092</b>	<b>0.00050</b>	<b>0.00055</b>	<b>0.00071</b>	--	
MW-9	06/09/10	<b>0.30</b>	--	--	<b>0.0014</b>	<0.0005	<b>0.00081</b>	<b>0.0058</b>	<0.0050	
MW-9	09/09/10	<b>0.48</b>	--	--	<b>0.0058</b>	<b>0.0014</b>	<b>0.0061</b>	<b>0.025</b>	--	
MW-9	11/15/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<b>0.00085</b>	--	
MW-9	03/01/11	<0.25	--	--	<b>0.014</b>	<0.0005	<0.0005	<b>0.00085</b>	--	
MW-9	05/24/11	<0.25	--	--	<b>0.0043</b>	<0.0005	<0.0005	<b>0.00085</b>	<b>0.0093</b>	
MW-9	08/29/11	<b>0.28</b>	--	--	<b>0.0067</b>	<0.0005	<b>0.00078</b>	<b>0.0038</b>	--	
MW-9	12/01/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<b>0.0024</b>	--	
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	<b>0.012</b>	
MW-9	08/25/12	<b>0.67</b>	--	--	<0.00050	<0.00050	<b>0.00062</b>	<b>0.0057</b>	--	
MW-9	11/08/12	<0.25	--	--	<0.001	<0.001	<0.001	<b>0.0029</b>	--	
MW-9	02/28/13	<0.25	--	--	<b>0.0012</b>	<0.0005	<0.0005	<0.0005	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-9	04/10/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	Baseline monitoring event
MW-9	06/24/13	<b>0.33</b>	<b>0.37</b>	--	<b>0.014</b>	<0.0005	<0.0005	<b>0.0035</b>	--	
MW-9	07/30/13	<b>0.27</b>	--	--	<b>0.0017</b>	<0.0005	<b>0.00071</b>	<b>0.006</b>	--	
MW-9	10/03/13	<b>0.30</b>	--	--	<b>0.0056</b>	<0.0005	<0.0005	<b>0.0092</b>	--	
MW-9	01/22/14	<0.25	--	--	<0.0005	<0.0005	<0.0005	<b>0.0013</b>	--	
MW-12	06/19/01	<0.05	<b>1.6</b>	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	
MW-12	06/20/01	<0.06	<b>1.7</b>	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	
MW-12		Destroyed during construction activities								
MW-12R	02/14/02	<0.25	<b>1.4</b>	<0.5	<b>0.014</b>	<0.0005	<0.0005	<0.0005	<0.005*	
MW-12R	05/21/02	<0.25	<b>2.5</b>	<0.5	<b>0.080</b>	<b>0.0013</b>	<0.0005	<b>0.00066</b>	<0.005*	
MW-12R	08/28/02	<0.25	<b>2.1</b>	<0.5	<b>0.028</b>	<b>0.0059</b>	<0.0005	<b>0.0015</b>	<0.005*	
MW-12R	11/05/02	<0.25	<b>1.3</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-12R	02/19/03	<b>0.26</b>	<b>2.5</b>	<0.5	<b>0.19</b>	<b>0.0012</b>	<0.001	<0.001	<0.005*	
MW-12R	06/10/03	<b>0.41</b>	<b>1.3</b>	<0.25	<b>0.11</b>	<b>0.00055</b>	<0.0005	<0.0005	<0.005*	
MW-12R	09/16/03	<0.25	<b>0.67</b>	<0.50	<b>0.0021</b>	<0.0005	<0.0005	<0.0005	<b>0.013*</b>	
MW-12R	11/19/03	<b>0.42</b>	<0.25	<0.50	<b>0.26</b>	<0.001	<0.001	<0.001	<b>0.0078</b>	
MW-12R	02/25/04	<b>0.26</b>	<b>1.8</b>	<0.50	<b>0.099</b>	<b>0.00050</b>	<0.0005	<b>0.00076</b>	<b>0.010*</b>	
MW-12R	05/12/04	<b>0.56</b>	<b>0.74</b>	<0.50	<b>0.20</b>	<0.001	<0.001	<0.001	<0.0050*	
MW-12R	08/26/04	<b>0.35</b>	<b>0.50</b>	<0.50	<b>0.089</b>	<0.001	<0.001	<0.001	<0.0050*	
MW-12R	12/15/04	<0.25	<b>0.50</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-12R	03/09/05	<0.25	<b>0.39</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-12R	06/08/05	<0.25	<b>0.39</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-12R	09/21/05	<b>0.26</b>	<b>0.25</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-12R	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*	
MW-12R	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-12R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-12R	12/13/06	<0.25	<b>0.27</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-12R	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-12R	06/20/07	<0.25	--	--	<0.0005	<b>0.0010</b>	<0.0005	<0.0005	<0.0050	
MW-12R	06/05/08	<0.25	<b>0.78</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
MW-12R	06/01/09	<0.25	<b>0.32</b>	<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	<b>0.41</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
MW-12R	06/01/12	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
MW-12R	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-13	06/19/01	<0.05	<b>1.3</b>	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004	
MW-13		Destroyed during construction activities								
MW-13R	02/14/02	<0.25	<b>3.2</b>	<0.5	<b>0.056</b>	<0.0005	<0.0005	<b>0.00075</b>	<0.005*	
MW-13R	05/21/02	<0.25	<b>3.5</b>	<0.5	<b>0.0025</b>	<0.0005	<0.0005	<0.0005	<0.005*	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-13R	08/28/02	<0.25	<b>2.4</b>	<0.5	<0.0005	<b>0.0019</b>	<0.0005	<b>0.00070</b>	<0.005*	
MW-13R	11/05/02	<0.25	<b>2.0</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-13R	02/19/03	<0.25	<b>1.7</b>	<0.5	<b>0.00078</b>	<b>0.0032</b>	<0.0005	<b>0.00083</b>	<0.005*	
MW-13R	06/10/03	<0.25	<b>0.76</b>	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-13R	09/16/03	<0.25	<b>1.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0078*</b>	
MW-13R	11/19/03	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0066</b>	
MW-13R	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.012*</b>	
MW-13R	05/12/04	<0.25	<b>0.61</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-13R	08/26/04	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-13R	12/15/04	<0.25	<b>0.91</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-13R	03/09/05	<0.25	<b>0.35</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-13R	06/08/05	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-13R	09/21/05	<0.25	<b>0.39</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-13R	03/14/06	<0.25	<0.25	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*	
MW-13R	06/07/06	<0.25	<0.25	<0.50	<0.005	<0.005	<0.005	<0.005	<0.0050*	
MW-13R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-13R	12/13/06	<0.25	<b>0.33</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0077*	
MW-13R	12/14/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-13R	06/20/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-13R	06/05/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-13R	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-13R	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-13R	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-13R		Abandoned on 5/25/2012								
MW-14	02/13/02	<b>2.5</b>	<b>37</b>	<5.0	<b>0.010</b>	<b>0.0085</b>	<b>0.18</b>	<b>0.22</b>	--	
MW-14	05/21/02	<b>2.9</b>	<b>23</b>	<b>1.0</b>	<b>0.0093</b>	<b>0.0057</b>	<b>0.18</b>	<b>0.15</b>	--	
MW-14	08/29/02	<b>2.9</b>	<b>28</b>	<0.5	<b>0.017</b>	<b>0.0073</b>	<b>0.21</b>	<b>0.14</b>	--	
MW-14	11/05/02	<b>2.0</b>	<b>28</b>	<b>0.91</b>	<b>0.060</b>	<b>0.0059</b>	<b>0.12</b>	<b>0.076</b>	--	
MW-14	02/20/03	<b>3.4</b>	<b>18</b>	<0.5	<b>0.056</b>	<b>0.0062</b>	<b>0.14</b>	<b>0.11</b>	--	
MW-14	06/11/03	<b>3.1</b>	<b>28</b>	<0.5	<b>0.059</b>	<b>0.0098</b>	<b>0.23</b>	<b>0.13</b>	--	
MW-14	09/16/03	<1.0	<b>15</b>	<0.50	<b>0.13</b>	<0.005	<b>0.019</b>	<b>0.022</b>	--	
MW-14	11/20/03	<2.0	<b>29</b>	<b>0.70</b>	<b>0.12</b>	<0.01	<b>0.020</b>	<b>0.031</b>	--	
MW-14	02/24/04	<b>2.4</b>	<b>21</b>	<0.50	<b>0.061</b>	<b>0.014</b>	<b>0.25</b>	<b>0.20</b>	--	
MW-14	05/11/04	<b>2.7</b>	<b>27</b>	<0.50	<b>0.053</b>	<b>0.0092</b>	<b>0.21</b>	<b>0.16</b>	--	
MW-14	08/26/04	<b>2.3</b>	<b>11</b>	<b>0.53</b>	<b>0.024</b>	<0.0025	<b>0.16</b>	<b>0.19</b>	--	
MW-14	12/15/04	<b>1.2</b>	<b>9.6</b>	<0.50	<b>0.0084</b>	<0.005	<b>0.010</b>	<b>0.0055</b>	--	
MW-14	03/09/05	<b>4.2</b>	<b>7.7</b>	<0.50	<b>0.0053</b>	<b>0.0094</b>	<b>0.18</b>	<b>0.099</b>	--	
MW-14	06/08/05	<b>3.1</b>	<b>8.8</b>	<0.50	<b>0.0043</b>	<b>0.0069</b>	<b>0.17</b>	<b>0.11</b>	--	
MW-14	09/21/05	<b>1.6</b>	<b>10</b>	<b>1.1</b>	<b>0.012</b>	<b>0.0048</b>	<b>0.077</b>	<b>0.068</b>	--	
MW-14	12/14/05	<b>3.1</b>	<b>2.0</b>	<0.50	<b>0.0059</b>	<b>0.0075</b>	<b>0.12</b>	<b>0.068</b>	--	
MW-14	03/14/06	<b>0.79</b>	<b>2.1</b>	<0.50	<0.0025	<0.0025	<b>0.023</b>	<b>0.030</b>	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-14	06/07/06	<b>0.84</b>	<b>3.0</b>	<0.50	<0.0025	<0.0025	<b>0.061</b>	<b>0.033</b>	--	
MW-14	09/13/06	<b>2.4</b>	<b>1.8</b>	<0.50	<0.0025	<b>0.0060</b>	<b>0.10</b>	<b>0.056</b>	--	
MW-14	12/13/06	<b>1.1</b>	<b>1.4</b>	<0.50	<0.0025	<0.0025	<b>0.044</b>	<b>0.029</b>	--	
MW-14	03/27/07	<b>1.3</b>	--	--	<b>0.0057</b>	<0.0025	<b>0.049</b>	<b>0.024</b>	--	
MW-14	06/20/07	<b>1.5</b>	--	--	<0.0025	<b>0.0039</b>	<b>0.087</b>	<b>0.046</b>	--	
MW-14	09/24/07	<b>2.5</b>	--	--	<b>0.0024</b>	<b>0.0077</b>	<b>0.15</b>	<b>0.13</b>	--	
MW-14	12/11/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-14	03/04/08	<b>0.43</b>	--	--	<0.0015	<0.0015	<b>0.019</b>	<b>0.0073</b>	--	
MW-14	06/04/08	<0.30	--	--	<0.0015	<0.0015	<0.015	<0.015	--	
MW-14	09/08/08	<b>2.5</b>	--	--	<b>0.0024</b>	<b>0.0070</b>	<b>0.17</b>	<b>0.075</b>	--	
MW-14	12/05/08	<0.50	--	--	<0.0025	<0.0025	<b>0.0047</b>	<b>0.0036</b>	--	
MW-14	03/04/09	<0.25	--	--	<b>0.0011</b>	<0.0010	<b>0.0011</b>	<b>0.0038</b>	--	
MW-14	06/02/09	<0.25	--	--	<0.0010	<0.0010	<0.0010	<b>0.0018</b>	--	
MW-14	09/21/09	<b>0.56</b>	--	--	<0.0025	<0.0025	<b>0.044</b>	<b>0.013</b>	--	
MW-14	11/17/09	<0.50	--	--	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-14	03/08/10	<0.25	--	--	<b>0.0010</b>	<0.0010	<b>0.0010</b>	<b>0.0021</b>	--	
MW-14	06/08/10	<0.25	--	--	<0.0005	<0.0005	<b>0.0011</b>	<b>0.0014</b>	--	
MW-14	09/09/10	<b>0.50</b>	--	--	<b>0.0013</b>	<b>0.0018</b>	<b>0.031</b>	<b>0.036</b>	--	
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	<b>0.41</b>	--	--	<0.0010	<b>0.0011</b>	<b>0.019</b>	<b>0.026</b>	--	
MW-14	12/01/11	<0.25	--	--	<0.0010	<0.0010	<0.0010	<b>0.0032</b>	--	
MW-14	03/01/12	<0.25	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-14	05/31/12	<0.25	--	--	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-14	08/25/12	<0.25	--	--	<0.00050	<0.00050	<b>0.0028</b>	<b>0.0017</b>	--	
MW-14	11/08/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<b>0.0041</b>	--	
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	<b>0.00058</b>	<b>0.011</b>	<b>0.0092</b>	--	
MW-14	10/03/13	<0.25	--	--	<0.001	<0.001	<b>0.0034</b>	<b>0.022</b>	--	
MW-14	01/22/14	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-16	02/13/02	<0.25	<0.25	<0.5	<b>0.0013</b>	<b>0.0037</b>	<0.0005	<b>0.0011</b>	--	
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	<b>0.0022</b>	<0.0005	<b>0.00069</b>	--	
MW-16	11/05/02	<0.25	<b>0.29</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-16	02/19/03	<0.25	<0.25	<0.5	<0.0005	<b>0.0018</b>	<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	<b>0.0013</b>	<0.0005	<b>0.00062</b>	--	
MW-16	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	



**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
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	<b>0.029</b>	<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	<b>0.00062</b>	<b>0.0012</b>	<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	<b>0.39</b>	<b>0.43</b>	<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	<b>0.0012</b>	--	
MW-16	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-16	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-16	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-17	05/23/11	<b>0.30</b>	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	02/13/02	<b>7.6</b>	<b>0.77</b>	<0.5	<b>1.8</b>	<b>0.067</b>	<b>0.29</b>	<b>0.34</b>	--	
MW-18	05/21/02	<b>1.2</b>	<b>0.30</b>	<0.5	<b>0.25</b>	<b>0.016</b>	<b>0.068</b>	<b>0.068</b>	--	
MW-18	08/29/02	<b>1.6</b>	<0.5	<0.5	<b>0.45</b>	<b>0.014</b>	<b>0.032</b>	<b>0.044</b>	--	
MW-18	11/05/02	<b>1.1</b>	<0.25	<0.5	<0.3	<b>0.010</b>	<b>0.011</b>	<b>0.031</b>	--	
MW-18	02/19/03	<0.25	<0.25	<0.5	<b>0.0035</b>	<b>0.0047</b>	<0.0005	<b>0.0016</b>	--	
MW-18	06/10/03	<0.25	<0.25	<0.25	<b>0.022</b>	<b>0.0016</b>	<0.0005	<b>0.0040</b>	--	
MW-18	09/16/03	<0.25	<0.50	<0.50	<b>0.036</b>	<b>0.0019</b>	<0.0005	<b>0.0075</b>	--	
MW-18	11/19/03	<0.25	<0.25	<0.50	<b>0.0042</b>	<0.0005	<0.0005	<b>0.0015</b>	--	
MW-18	02/25/04	<b>0.58</b>	<0.25	<0.50	<b>0.11</b>	<b>0.0048</b>	<b>0.00087</b>	<b>0.026</b>	--	
MW-18	05/11/04	<b>1.1</b>	<0.25	<0.50	<b>0.25</b>	<b>0.0073</b>	<b>0.0016</b>	<b>0.037</b>	--	
MW-18	08/26/04	<0.25	<0.25	<0.50	<b>0.0030</b>	<0.0005	<0.0005	<0.0005	--	
MW-18	12/15/04	<b>0.84</b>	<0.25	<0.50	<b>0.14</b>	<b>0.0060</b>	<b>0.0019</b>	<b>0.029</b>	--	
MW-18	03/10/05	<b>0.84</b>	<0.25	<0.50	<b>0.25</b>	<b>0.0049</b>	<b>0.0020</b>	<b>0.021</b>	--	
MW-18	06/07/05	<b>0.68</b>	<0.25	<0.50	<b>0.17</b>	<b>0.0039</b>	<b>0.0019</b>	<b>0.0098</b>	--	
MW-18	09/20/05	<b>4.0</b>	<0.25	<0.50	<b>0.74</b>	<b>0.021</b>	<b>0.0091</b>	<b>0.090</b>	--	
MW-18	12/13/05	<b>2.3</b>	<0.25	<0.50	<b>0.45</b>	<b>0.015</b>	<b>0.0067</b>	<b>0.033</b>	--	
MW-18	03/15/06	<b>4.9</b>	<0.25	<0.50	<b>1.2</b>	<b>0.035</b>	<b>0.025</b>	<b>0.12</b>	--	
MW-18	06/08/06	<b>1.2</b>	<0.25	<0.50	<b>0.15</b>	<b>0.011</b>	<b>0.011</b>	<b>0.034</b>	--	
MW-18	09/12/06	<b>0.35</b>	<0.25	<0.50	<b>0.023</b>	<b>0.0021</b>	<b>0.0022</b>	<b>0.0047</b>	--	
MW-18	12/12/06	<b>0.28</b>	<0.25	<0.50	<b>0.023</b>	<b>0.0018</b>	<b>0.0019</b>	<b>0.0060</b>	--	
MW-18	03/27/07	<b>0.78</b>	--	--	<b>0.022</b>	<b>0.0029</b>	<b>0.0051</b>	<b>0.012</b>	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-18	06/19/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	09/24/07	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	12/11/07	<0.25	--	--	<b>0.011</b>	<b>0.00075</b>	<0.0005	<b>0.0032</b>	--	
MW-18	03/04/08	<b>0.29</b>	--	--	<b>0.0090</b>	<b>0.0016</b>	<b>0.00050</b>	<b>0.00088</b>	--	
MW-18	06/04/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	09/08/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	12/04/08	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	03/04/09	<0.25	--	--	<b>0.00080</b>	<0.0005	<0.0005	<0.0005	--	
MW-18	06/03/09	<0.25	--	--	<b>0.00061</b>	<0.0005	<0.0005	<0.0005	--	
MW-18	09/22/09	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	11/17/09	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	03/09/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<b>0.0011</b>	--	
MW-18	06/08/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	09/10/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	11/16/10	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	03/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	05/23/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	08/30/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	12/02/11	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0010	--	
MW-18	03/02/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	05/31/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	11/08/12	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	02/28/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	04/09/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	07/29/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	10/02/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-18	01/22/14	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-19	02/13/02	<b>29</b>	<b>6.8</b>	<2.5	<b>0.057</b>	<b>0.73</b>	<b>0.58</b>	<b>6.5</b>	--	
MW-19	05/21/02	<b>30</b>	<b>7.7</b>	<0.5	<b>0.049</b>	<b>0.65</b>	<b>0.53</b>	<b>6.5</b>	--	
MW-19	08/29/02	<b>13</b>	<b>11</b>	<0.5	<b>0.14</b>	<b>0.29</b>	<b>0.20</b>	<b>2.1</b>	--	
MW-19	11/05/02	<b>8.2</b>	<b>3.0</b>	<0.5	<b>0.21</b>	<b>0.37</b>	<b>0.16</b>	<b>1.7</b>	--	
MW-19	02/20/03	<b>38</b>	<b>19</b>	<0.5	<b>0.091</b>	<b>1.2</b>	<b>0.80</b>	<b>8.0</b>	--	
MW-19	06/11/03	<b>32</b>	<b>15</b>	<1.0	<b>0.042</b>	<b>0.38</b>	<b>0.80</b>	<b>6.7</b>	--	
MW-19	09/16/03	<b>4.2</b>	<b>12</b>	<0.50	<b>0.19</b>	<b>0.043</b>	<b>0.19</b>	<b>1.1</b>	--	
MW-19	11/20/03	<b>22</b>	<b>10</b>	<0.50	<b>0.11</b>	<b>0.67</b>	<b>0.75</b>	<b>6.1</b>	--	
MW-19	02/24/04	<b>19</b>	<b>14</b>	<0.50	<0.015	<b>0.49</b>	<b>0.63</b>	<b>4.7</b>	--	
MW-19	05/11/04	<b>27</b>	<b>13</b>	<0.50	<0.025	<b>0.22</b>	<b>0.87</b>	<b>7.2</b>	--	
MW-19	08/26/04	<b>22</b>	<b>0.72</b>	<0.50	<b>0.042</b>	<b>0.26</b>	<b>0.64</b>	<b>4.6</b>	--	
MW-19	12/15/04	<b>15</b>	<b>7.6</b>	<0.50	<b>0.039</b>	<b>0.12</b>	<b>0.37</b>	<b>2.7</b>	--	
MW-19	03/09/05	<b>27</b>	<b>9.1</b>	<0.50	<b>0.073</b>	<b>0.18</b>	<b>0.56</b>	<b>3.4</b>	--	
MW-19	06/08/05	<b>17</b>	<b>6.3</b>	<0.50	<b>0.071</b>	<b>0.17</b>	<b>0.61</b>	<b>2.8</b>	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-19	09/20/05	--	--	--	--	--	--	--	--	Not Sampled
MW-19	12/14/05	--	--	--	--	--	--	--	--	Not Sampled
MW-19	03/14/06	--	--	--	--	--	--	--	--	Not Sampled
MW-19	06/07/06	14	1.4	<0.50	<0.010	0.043	0.29	1.4	--	
MW-19	09/13/06	11	0.50	<0.50	0.032	0.047	0.41	1.1	--	
MW-19	12/13/06	8.0	1.4	<0.50	0.016	0.052	0.30	1.4	--	
MW-19	03/27/07	13	--	--	<0.010	0.047	0.35	1.8	--	
MW-19	06/20/07	12	--	--	0.050	0.092	0.29	1.2	--	
MW-19	09/24/07	10	--	--	0.13	0.11	0.42	1.3	--	
MW-19	12/11/07	12	--	--	0.11	0.14	0.40	1.9	--	
MW-19	03/04/08	17	--	--	0.15	0.28	0.52	2.4	--	
MW-19	06/04/08	11	--	--	0.070	0.023	0.45	1.0	--	
MW-19	09/08/08	5.3	--	--	0.078	0.0063	0.12	0.29	--	
MW-19	12/05/08	7.8	--	--	0.071	0.047	0.38	0.73	--	
MW-19	03/04/09	9.4	--	--	0.076	0.13	0.43	1.4	--	
MW-19	06/02/09	13	--	--	0.071	0.13	0.43	1.6	--	
MW-19	09/21/09	8.4	--	--	0.052	0.0097	0.32	0.29	--	
MW-19	11/17/09	7.4	--	--	0.023	0.049	0.34	1.2	--	
MW-19	03/08/10	10	--	--	0.017	0.11	0.46	1.8	--	
MW-19	06/08/10	12	--	--	0.042	0.17	0.55	1.6	--	
MW-19	09/09/10	7.3	0.71	<0.50	0.039	0.020	0.42	0.18	--	
MW-19	11/15/10	4.5	--	--	0.039	0.18	0.44	0.13	--	
MW-19	03/01/11	9.6	--	--	0.039	0.13	0.34	0.88	--	
MW-19	05/24/11	7.4	--	--	0.0028	0.011	0.17	0.38	--	
MW-19	08/29/11	7.0	--	--	0.012	0.015	0.15	0.066	--	
MW-19	12/01/11	7.5	--	--	0.059	0.034	0.22	0.30	--	
MW-19	03/01/12	6.4	--	--	0.15	0.064	0.34	0.44	--	
MW-19	05/31/12	8.3	--	--	0.079	0.073	0.48	0.81	--	
MW-19	08/25/12	5.2	--	--	0.054	0.0076	0.270	0.089	--	
MW-19	11/08/12	4.7	--	--	0.042	0.0096	0.28	0.18	--	
MW-19	02/28/13	8.1	--	--	0.045	0.13	0.44	0.77	--	
MW-19	04/09/13	6.9	--	--	0.029	0.15	0.32	0.57	--	
MW-19	06/21/13	2.8	1.1 K	--	0.019	0.017	0.31	0.081	--	Baseline monitoring event
MW-19	07/30/13	4.4	--	--	0.0086	0.0051	0.16	0.013	--	
MW-19	10/03/13	3.2	--	--	0.0076	0.0023	0.046	0.002	--	
MW-19	01/22/14	2.2	--	--	0.021	0.00065	0.029	<0.0005	--	
MW-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	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
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	<b>0.68</b>	<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	<b>0.00072</b>	--	
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	<b>0.30</b>	<0.50	<b>0.0013</b>	<0.0005	<0.0005	<0.0005	--	
MW-20	03/09/05	<0.25	<0.25	<0.50	<b>0.00074</b>	<0.0005	<0.0005	<0.0005	--	
MW-20	06/08/05	<0.25	<b>0.55</b>	<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	--	
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	<b>0.00054</b>	<b>0.0028</b>	--	
MW-20	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-20	05/31/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-20	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-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	<b>0.97</b>	<b>19</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-21	02/26/04	<b>2.3</b>	<b>35</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-21	05/11/04	<b>1.2</b>	<b>29</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-21	08/26/04	<b>4.3</b>	<b>33</b>	<0.50	<0.001	<0.001	<b>0.0013</b>	<b>0.0014</b>	--	
MW-21	12/15/04	--	--	--	--	--	--	--	--	Not Sampled
MW-21	03/09/05	<b>2.4</b>	<b>140</b>	<5.0	<0.0015	<0.0015	<b>0.0016</b>	<0.0015	--	
MW-21	06/08/05	<b>1.8</b>	<b>31</b>	<b>0.50</b>	<0.002	<0.002	<b>0.0026</b>	<0.002	--	
MW-21	09/21/05	<b>1.7</b>	<b>46</b>	<b>3.3</b>	<0.0010	<0.0010	<b>0.0013</b>	<0.0010	--	
MW-21	12/14/05	<b>1.0</b>	<b>6.1</b>	<b>0.54</b>	<0.002	<0.002	<b>0.0027</b>	<0.002	--	
MW-21	03/14/06	<0.25	<b>33</b>	<b>3.1</b>	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	06/07/06	<b>0.77</b>	<b>18</b>	<b>1.2</b>	<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	<b>9.6</b>	<b>0.75</b>	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-21	06/20/07	<0.50	<b>8.5</b>	<b>0.66</b>	<0.0025	<0.0025	<0.0025	<0.0025	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-21	09/24/07	<b>0.36</b>	<b>4.3</b>	<b>0.52</b>	<0.0015	<0.0015	<b>0.0018</b>	<0.0015	--	
MW-21	12/11/07	<0.25	<b>34</b>	<b>2.5</b>	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-21	03/04/08	<0.50	<b>12</b>	<b>0.92</b>	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-21	06/04/08	<0.30	<b>4.7</b>	<0.50	<0.0015	<0.0015	<0.015	<0.0015	--	
MW-21	09/08/08	<b>0.98</b>	<b>3.8</b>	<0.50	<0.0015	<b>0.0015</b>	<b>0.0049</b>	<b>0.0028</b>	--	
MW-21	12/05/08	<1.0	<b>4.8</b>	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	--	
MW-21	03/04/09	<0.50	<b>6.4</b>	<b>0.89</b>	<0.0025	<0.0025	<0.0025	<b>0.0034</b>	--	
MW-21	06/02/09	<b>0.70</b>	<b>2.9</b>	<b>0.68</b>	<0.0010	<0.0010	<b>0.0016</b>	<0.0010	--	
MW-21	09/22/09	<b>1.7</b>	<b>4.7</b>	<0.50	<0.0025	<0.0025	<b>0.0029</b>	<0.0025	--	
MW-21	11/17/09	<0.25	<b>0.87</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	03/09/10	<0.25	<b>1.1</b>	<0.50	<b>0.0014</b>	<0.0010	<0.0010	<0.0005	--	
MW-21	09/10/10	<b>0.60</b>	<b>3.7</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-21	11/15/10	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	03/01/11	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	05/23/11	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	08/29/11	<b>0.35</b>	<b>3.7</b>	<b>0.98</b>	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-21	12/01/11	<0.25	<b>1.7</b>	--	<0.0010	<0.0010	<0.0010	<0.0020	--	
MW-21	03/01/12	<0.25	<b>0.51</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-21	05/31/12	<0.25	<b>6.1</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-21	08/25/12	<b>0.56</b>	<b>1.8</b>	<b>0.59</b>	<0.0025 o	<0.0025 o	<0.0025 o	<0.0025 o	--	
MW-21	11/08/12	<0.25	--	<0.50	<0.001	<0.001	<0.001	<0.001	--	
MW-21	02/28/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	04/10/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	07/30/13	<b>0.32</b>	<b>2.9</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	10/03/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-21	01/22/14	<0.25	<b>2.3</b>	<b>0.77</b>	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	02/13/02	<b>0.96</b>	<b>9.2</b>	<0.5	<b>0.012</b>	<b>0.0053</b>	<b>0.017</b>	<b>0.0097</b>	--	
MW-22	05/21/02	<b>1.1</b>	<b>7.7</b>	<0.5	<b>0.16</b>	<b>0.049</b>	<b>0.023</b>	<b>0.030</b>	--	
MW-22	08/29/02	<b>1.4</b>	<b>2.4</b>	<0.5	<b>0.50</b>	<b>0.0093</b>	<b>0.044</b>	<b>0.0066</b>	--	
MW-22	11/05/02	<b>0.49</b>	<b>1.7</b>	<0.5	<b>0.14</b>	<b>0.0031</b>	<b>0.025</b>	<0.001	--	
MW-22	02/19/03	<0.25	<b>9.1</b>	<0.5	<0.001	<0.001	<0.001	<0.001	--	
MW-22	06/10/03	<0.25	<b>7.4</b>	<b>0.87a</b>	<0.001	<0.001	<0.001	<0.001	--	
MW-22	09/16/03	<0.25	<b>2.7</b>	<0.50	<b>0.0018</b>	<0.0005	<0.0005	<0.0005	--	
MW-22	11/19/03	<0.50	<b>8.4</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	--	
MW-22	02/25/04	<0.25	<b>6.4</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	
MW-22	05/11/04	<0.25	<b>2.0</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	
MW-22	08/25/04	<0.25	<b>0.61</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	
MW-22	12/14/04	<0.25	<b>1.1</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	03/10/05	<0.25	<b>2.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	06/07/05	<0.25	<b>3.0</b>	<0.50	<b>0.0049</b>	<0.001	<0.001	<0.001	--	
MW-22	09/20/05	<b>0.40</b>	<b>2.9</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-22	12/13/05	<0.25	<b>0.71</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	
MW-22	03/15/06	<0.25	<b>2.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	06/08/06	<0.25	<b>0.89</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	09/12/06	<0.25	<b>0.45</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	12/12/06	<0.25	<b>1.4</b>	<0.50	<0.001	<0.001	<0.001	<0.001	--	
MW-22	06/19/07	<0.25	<b>1.1</b>	<0.50	<b>0.0094</b>	<0.0005	<0.0005	<0.0005	--	
MW-22	06/04/08	<0.25	<b>0.77</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	06/03/09	<0.25	<b>1.8</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-22	06/09/10	<0.25	<b>1.2</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.0011</b>	--	
MW-22	05/23/11	<0.25	<b>2.7</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	--	
MW-22	05/31/12	<1.0	<b>2.1</b>	<b>0.73</b>	<0.0050	<0.0050	<0.0050	<0.0050	--	
MW-22	04/09/13	<0.25	--	<0.50	<0.001	<0.001	<0.001	<0.001	--	
MW-23	11/19/03	<b>5.3</b>	<b>1.4</b>	<0.50	<b>0.87</b>	<b>0.016</b>	<b>0.098</b>	<b>0.23</b>	--	
MW-23	02/25/04	<b>3.3</b>	<b>0.85</b>	<0.50	<b>0.91</b>	<b>0.011</b>	<b>0.046</b>	<b>0.030</b>	<b>0.0052*</b>	
MW-23	05/12/04	<b>4.2</b>	<b>1.3</b>	<0.50	<b>1.1</b>	<b>0.013</b>	<b>0.046</b>	<b>0.048</b>	<0.0050*	
MW-23	08/26/04	<b>5.3</b>	<b>0.72</b>	<0.50	<b>1.1</b>	<b>0.023</b>	<b>0.20</b>	<b>0.17</b>	<b>0.014*</b>	
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	<b>6.3</b>	<0.25	<0.50	<b>1.3</b>	<b>0.014</b>	<b>0.048</b>	<b>0.044</b>	<0.0050*	
MW-23	03/15/06	<b>7.0</b>	<b>0.28</b>	<0.50	<b>1.4</b>	<b>0.015</b>	<b>0.19</b>	<b>0.21</b>	<0.0050*	
MW-23	06/08/06	<b>5.2</b>	<b>1.3</b>	<0.50	<b>1.4</b>	<b>0.014</b>	<b>0.11</b>	<b>0.11</b>	<0.0050*	
MW-23	09/12/06	--	--	--	--	--	--	--	--	Not Sampled
MW-23	12/12/06	<b>8.1</b>	<0.25	<0.50	<b>1.8</b>	<b>0.020</b>	<b>0.11</b>	<b>0.16</b>	<0.0050*	
MW-23	03/27/07	<b>8.4</b>	--	--	<b>1.8</b>	<b>0.019</b>	<b>0.16</b>	<b>0.16</b>	--	
MW-23	06/19/07	<b>8.7</b>	--	--	<b>1.8</b>	<b>0.021</b>	<b>0.23</b>	<b>0.23</b>	<0.0050	
MW-23	09/25/07	<b>6.9</b>	--	--	<b>1.5</b>	<b>0.021</b>	<b>0.085</b>	<b>0.11</b>	--	
MW-23	12/11/07	<b>9.1</b>	--	--	<b>1.3</b>	<b>0.022</b>	<b>0.053</b>	<b>0.097</b>	--	
MW-23	03/04/08	<b>7.8</b>	--	--	<b>1.5</b>	<b>0.018</b>	<b>0.089</b>	<b>0.10</b>	--	
MW-23	06/04/08	<b>19</b>	--	--	<b>2.4</b>	<b>0.061</b>	<b>0.59</b>	<b>3.2</b>	<0.0050	
MW-23	09/08/08	<b>6.4</b>	--	--	<b>0.79</b>	<b>0.014</b>	<b>0.070</b>	<b>0.038</b>	--	
MW-23	12/04/08	<b>5.4</b>	--	--	<b>0.52</b>	<b>0.0088</b>	<b>0.091</b>	<b>0.063</b>	--	
MW-23	03/04/09	<b>4.8</b>	--	--	<b>0.81</b>	<b>0.012</b>	<b>0.27</b>	<b>0.11</b>	--	
MW-23	06/02/09	<b>5.7</b>	--	--	<b>0.21</b>	<b>0.0061</b>	<b>0.17</b>	<b>0.054</b>	<0.0050	
MW-23	09/21/09	<b>5.9</b>	--	--	<b>0.64</b>	<b>0.013</b>	<b>0.26</b>	<b>0.025</b>	--	
MW-23	11/16/09	<b>6.2</b>	--	--	<b>0.80</b>	<b>0.017</b>	<b>0.45</b>	<b>0.036</b>	--	
MW-23	03/08/10	<b>4.8</b>	--	--	<b>0.25</b>	<b>0.0077</b>	<b>0.19</b>	<b>0.031</b>	--	
MW-23	06/08/10	<b>5.5</b>	--	--	<b>0.39</b>	<b>0.0082</b>	<b>0.17</b>	<b>0.025</b>	<0.0050	
MW-23	09/10/10	<b>4.9</b>	--	--	<b>0.21</b>	<b>0.0044</b>	<b>0.11</b>	<b>0.019</b>	--	
MW-23	11/16/10	<b>4.5</b>	--	--	<b>0.37</b>	<b>0.010</b>	<b>0.23</b>	<b>0.020</b>	--	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
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 o	0.059	0.0046	--	
MW-23	11/08/12	2.3	--	--	0.021	<0.001	0.065	0.0038	--	
MW-23	02/28/13	2.6	--	--	0.034	<0.0025	0.16	0.01	--	
MW-23	04/10/13	0.54	--	--	0.015	<0.001	0.015	0.0013	<0.0050	
MW-23	07/29/13	1.7	--	--	0.0097	<0.001	0.025	0.0011	--	
MW-23	10/02/13	0.39	--	--	0.015	<0.001	0.0019	<0.001	--	
MW-23	01/21/14	0.27	--	--	0.011	<0.001	<0.001	<0.001	--	
MW-24	11/19/03	34	6.4	0.54	2.8	0.54	1.4	6.0	--	
MW-24	02/25/04	26	3.0	<0.50	4.3	0.085	1.0	3.3	<0.0050*	
MW-24	05/12/04	--	--	--	--	--	--	--	--	Not Sampled
MW-24	08/26/04	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/14/04	--	--	--	--	--	--	--	--	Not Sampled
MW-24	03/08/05	--	--	--	--	--	--	--	--	Not Sampled
MW-24	06/07/05	--	--	--	--	--	--	--	--	Not Sampled
MW-24	09/20/05	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/13/05	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/14/05	--	--	--	--	--	--	--	--	Not Sampled
MW-24	03/15/06	26	0.34	<0.50	4.4	0.064	0.88	4.2	0.0069	
MW-24	06/08/06	21	<0.25	<0.50	1.5	0.039	0.86	4.9	0.0068	
MW-24	09/12/06	--	--	--	--	--	--	--	--	Not Sampled
MW-24	12/12/06	20	1.1	<0.50	1.5	0.037	0.69	3.2	0.0078*	
MW-24	03/27/07	27	--	--	3.4	0.062	1.3	4.6	--	
MW-24	06/19/07	31	--	--	3.0	0.063	1.0	5.7	0.022	
MW-24	09/25/07	16	--	--	2.0	0.036	0.79	2.3	--	
MW-24	12/11/07	40	--	--	1.5	0.066	1.8	9.2	--	
MW-24	03/04/08	41	--	--	1.8	0.052	1.4	7.7	--	
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	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
MW-24	09/10/10	28	--	--	2.4	0.066	1.8	4.3	--	
MW-24	11/16/10	26	--	--	1.3	0.051	1.5	5.8	--	
MW-24	03/02/11	26	--	--	2.2	0.057	1.3	4.8	--	
MW-24	05/24/11	11	--	--	1.2	0.028	0.51	1.3	<0.0050	
MW-24	08/30/11	30	--	--	2.0	0.057	1.4	4.2	--	
MW-24	12/02/11	18	--	--	0.37	0.016	0.42	2.56	--	
MW-24	03/02/12	8.7	--	--	0.53	0.014	0.25	1.1	--	
MW-24	05/30/12	7.3	--	--	0.39	0.013	0.30	0.88	<0.0050	
MW-24	08/25/12	11	--	--	0.560	<0.020 V	0.41	1.4	--	
MW-24 (BD-1)	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	--	
MW-24	02/28/13	6.6	--	--	0.29	<0.01	0.39	0.84	--	
MW-24	02/28/13	9.0	--	--	0.48	0.016	0.59	1.3	--	
MW-24	04/10/13	20	--	--	1.1	0.048	0.22	3.8	--	
MW-24	04/10/13	23	--	--	1.2	0.061	1.7	4.1	0.010	
MW-24	07/29/13	27	--	--	1.1	0.059	2.1	4.7	--	
MW-24	10/02/13	33	--	--	1.1	0.072	2.6	6.3	--	
MW-24	01/22/14	3.1	--	--	0.088	0.0034	0.18	0.33	--	
MW-24 (DUP-1)	01/22/14	2.2	--	--	0.056	0.0026	0.12	0.2	--	
MW-25	11/20/03	<0.25	1.3	<0.50	0.0061	<0.0005	<0.0005	<0.0005	--	
MW-25	02/26/04	0.38	8.9	<0.50	0.0011	<0.0005	0.0027	<0.0005	0.012*	
MW-25	05/12/04	<0.25	1.6	<0.50	<0.0005	<0.0005	0.0034	<0.0005	<0.0050*	
MW-25	08/26/04	<0.25	0.27	<0.50	0.013	<0.0005	<0.0005	<0.0005	0.034*a	
MW-25	12/14/04	<0.25	1.4	<0.50	0.0035	<0.001	<0.001	<0.001	<0.0050*	
MW-25	03/10/05	0.31	3.7	<0.50	0.0014	<0.0005	0.00064	<0.0005	<0.0050*	
MW-25	06/07/05	0.40	3.2	<0.50	<0.001	<0.001	0.0014	<0.001	<0.0050*	
MW-25	09/20/05	0.30	1.4	<0.50	0.0016	<0.0005	<0.0005	<0.0005	0.059*a	
MW-25	12/13/05	<0.25	1.2	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*	
MW-25	03/15/06	<0.25	1.0	<0.50	0.0019	<0.001	<0.001	<0.001	<0.0050*	
MW-25	06/08/06	<0.25	1.4	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-25	09/12/06	<0.25	0.31	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-25	12/12/06	<0.25	0.86	<0.50	0.0052	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-25	06/19/07	<0.50	1.6	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	
MW-25	06/04/08	<0.25	0.26	<0.50	0.0020	<0.0005	<0.0005	<0.0005	<0.0050	
MW-25	06/03/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-25	06/09/10	<0.25	0.32	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050	
MW-25	05/25/11	<0.50	1.4	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	
MW-25	06/01/12	<0.25	<0.25	<0.50	0.0011	<0.0010	<0.0010	<0.0010	<0.0050	
MW-25	04/10/13	<0.25	--	<0.50	0.0013	<0.0005	<0.0005	<0.0005	<0.0050	



**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
SH-02	12/20/00	<b>0.078</b>	<0.25	<0.5	<b>0.0010</b>	<0.001	<0.001	<0.003	<b>0.015**</b>	
SH-02		Destroyed during construction activities								
SH-02R	02/13/02	<0.25	<b>0.56</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
SH-02R	05/21/02	<0.25	<b>2.4</b>	<0.5	<b>0.037</b>	<0.0005	<0.0005	<0.0005	<b>0.005*</b>	
SH-02R	08/28/02	<0.25	<b>4.3</b>	<0.5	<b>0.087</b>	<b>0.0038</b>	<b>0.00061</b>	<b>0.0023</b>	<b>0.006*</b>	
SH-02R	11/05/02	<0.25	<b>1.1</b>	<0.5	<b>0.016</b>	<0.0005	<0.0005	<0.0005	<b>0.005*</b>	
SH-02R	02/19/03	<0.25	<0.5	<0.5	<0.0005	<b>0.00086</b>	<0.0005	<0.0005	<0.005*	
SH-02R	06/10/03	<0.25	<b>0.97</b>	<0.25	<0.0005	<b>0.00051</b>	<0.0005	<0.0005	<b>0.0059*</b>	
SH-02R	09/16/03	<0.25	<b>3.0</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.010*</b>	
SH-02R	11/19/03	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	02/25/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	05/12/04	<0.25	<b>0.74</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	08/26/04	<0.25	<b>0.58</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	12/15/04	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	03/09/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	06/08/05	<0.25	<b>0.31</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	09/21/05	<0.25	<b>0.58</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	12/14/05	<0.25	<b>0.30</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0078*</b>	
SH-02R	03/14/06	<0.25	<b>0.30</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0072*</b>	
SH-02R	06/07/06	<0.25	<b>0.59</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	
SH-02R	09/13/06	<0.25	<0.25	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050*	
SH-02R	12/13/06	<0.25	<b>0.49</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-02R	06/20/07	<0.25	<b>0.77</b>	<0.50	<0.0010	<0.0010	<0.0010	<b>0.0016</b>	<0.0050	
SH-02R	06/05/08	<0.25	<b>0.28</b>	<0.50	<0.0005	<0.0005	<0.0005	<b>0.00073</b>	<0.0050	
SH-02R	06/01/09	<0.25	<b>0.37</b>	<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	<b>0.29</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
SH-02R	06/01/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
SH-02R	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
SH-05	12/20/00	<0.05	<b>1.0</b>	<0.5	<0.001	<0.001	<0.003	<0.001	<b>0.017**</b>	
SH-05R	05/21/02	<b>0.71</b>	<b>11</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
SH-05R	08/28/02	<b>0.77</b>	<b>10</b>	<0.5	<0.0005	<b>0.0015</b>	<0.0005	<0.0005	<b>0.006*</b>	
SH-05R	11/05/02	<b>1.4</b>	<b>7.1</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.008*</b>	
SH-05R	02/19/03	<b>0.80</b>	<b>6.8</b>	<0.5	<0.001	<b>0.0016</b>	<0.001	<0.001	<0.005*	
SH-05R	06/10/03	<b>1.1</b>	<b>45</b>	<0.25	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.04*</b>	
SH-05R	09/16/03	<0.25	<b>23</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.074*</b>	
SH-05R	11/19/03	<b>0.62</b>	<b>19</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.075*</b>	
SH-05R	02/25/04	<0.25	<b>5.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-05R	05/12/04	<b>0.43</b>	<b>4.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-05R	08/26/04	<b>0.63</b>	<b>3.0</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	

**Table 2**

**Groundwater Analytical Results**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
SH-05R	12/15/04	<b>0.30</b>	<b>10</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0056*</b>	
SH-05R	03/09/05	<b>0.78</b>	<b>4.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-05R	06/08/05	<b>0.32</b>	<b>4.0</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-05R	09/21/05	<b>0.61</b>	<b>2.8</b>	<b>1.0</b>	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-05R	12/14/05	<b>0.78</b>	<b>1.3</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-05R	03/14/06	<0.25	<b>1.4</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0074*</b>	
SH-05R	06/07/06	<0.25	<b>1.4</b>	<0.50	<0.001	<0.001	<0.001	<0.001	<0.0050*	
SH-05R	09/13/06	<b>0.34</b>	<b>0.56</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
SH-05R	12/13/06	<0.50	<b>1.9</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050*	
SH-05R	06/20/07	<b>0.59</b>	<b>1.8</b>	<0.50	<0.0005	<b>0.00058</b>	<0.0005	<0.0005	<0.0050	
SH-05R	06/05/08	<0.25	<b>1.7</b>	<0.50	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	
SH-05R	06/01/09	<b>0.36</b>	<b>0.99</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
SH-05R	06/08/10	<0.25	<b>0.28</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
SH-05R	05/23/11	<0.25	<b>1.4</b>	<0.50	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	
MW-07R	02/13/02	<0.25	<b>1.2</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.035*</b>	
MW-07R	05/21/02	<0.25	<b>2.1</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.005*</b>	
MW-07R	08/28/02	<0.25	<b>2.4</b>	<0.5	<0.0005	<b>0.0028</b>	<0.0005	<b>0.0012</b>	<b>0.006*</b>	
MW-07R	11/05/02	<0.25	<b>3.7</b>	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	
MW-07R	02/19/03	--	--	--	--	--	--	--	--	Not Sampled
MW-07R	06/10/03	--	--	--	--	--	--	--	--	Not Sampled
MW-07R	09/16/03	<0.25	<b>1.9</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.045*</b>	
MW-07R	11/19/03	<0.25	<b>2.1</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.020*</b>	
MW-07R	02/25/04	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	05/12/04	<0.25	<b>0.48</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	08/26/04	<0.25	<b>0.42</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	
MW-07R	12/15/04	<0.25	<b>0.85</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0076*</b>	
MW-07R	03/09/05	<0.25	<b>0.54</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	06/08/05	<0.25	<b>0.46</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	09/21/05	<0.25	<b>0.70</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	12/14/05	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	03/14/06	<0.25	<b>0.25</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	06/07/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	09/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0065</b>	
MW-07R	12/13/06	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050*	
MW-07R	06/20/07	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-07R	06/05/08	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-07R	06/01/09	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-07R	06/08/10	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-07R	05/23/11	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-07R	06/01/12	<0.25	<0.25	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	
MW-07R	04/09/13	<0.25	--	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	

**Table 2**

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

Well ID	Date Sampled	TPH-Gasoline	TPH-Diesel	TPH-Oil	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	0.071	200	29.0	NA	0.0058	
TMW-B1	10/29/09	5.7	<0.25	<0.50	0.12	0.0070	0.058	0.15	--	
TMW-B1	05/25/11	9.1	--	--	0.024	<0.0050	0.24	0.56	--	
TMW-B1	12/02/11	6.6	--	--	0.091	<0.0050	0.15	0.26	--	
TMW-B1	03/01/12	8.0	--	--	0.079	<0.0025	0.28	0.55	--	
TMW-B1	11/08/12	3.7	--	--	0.16	0.01	0.019	0.036	--	
TMW-B1	02/28/13	14	--	--	0.026	<0.01	0.5	0.87	--	
TMW-B1	10/02/13	5.8	--	--	0.039	<0.005	0.16	0.24	--	
TMW-1	06/21/13	<0.25	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	--	Baseline monitoring event
TMW-1	07/30/13	<0.25	--	--	--	--	--	--	--	
TMW-1	10/03/13	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
TMW-1	01/22/14	<0.25	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	
TMW-2	06/21/13	0.25	0.28	--	0.0075	0.00097	<0.0005	0.00068	--	Baseline monitoring event
TMW-2	07/30/13	0.26	--	--	--	--	--	--	--	
TMW-2	10/03/13	0.50	--	--	0.013	0.00074	<0.0005	0.0024	--	
TMW-2	01/22/14	0.28	--	--	0.011	<0.0005	<0.0005	<0.0005	--	
TMW-3	06/24/13	0.86	0.85	--	<0.0005	0.00052	<0.0005	0.00087	--	Baseline monitoring event
TMW-3	07/30/13	0.98	--	--	--	--	--	--	--	
TMW-3	10/03/13	0.92	--	--	0.00057	0.0018	0.0076	0.0072	--	
TMW-3	01/22/14	0.75	--	--	<0.001	0.0022	<0.001	<0.001	--	
TMW-4	06/24/13	4.9	2.5 Z	--	0.17	0.084	0.23	0.95	--	Baseline monitoring event
TMW-4	07/30/13	5.1	--	--	--	--	--	--	--	
TMW-4	10/03/13	4.7	--	--	0.13	0.12	0.29	1.3	--	
TMW-4	01/22/14	6.0	--	--	0.21	0.07	0.4	0.99	--	
TMW-5	06/21/13	1.3	0.65 K	--	0.1	0.0097	0.022	0.02	--	Baseline monitoring event
TMW-5	07/30/13	4.3	--	--	--	--	--	--	--	
TMW-5	10/03/13	1.9	--	--	0.044	0.0063	0.0038	0.0088	--	
TMW-5	01/22/14	1.9	--	--	0.0039	0.0031	0.0012	0.0023	--	
TMW-6	06/24/13	4.9	1.8 Z	--	0.067	0.0099	0.15	0.55	--	Baseline monitoring event
TMW-6	07/30/13	7.8	--	--	--	--	--	--	--	
TMW-6	10/03/13	5.4	--	--	0.028	0.01	0.18	0.42	--	
TMW-6	01/22/14	7.0	--	--	0.06	0.01	0.28	0.53	--	

## Table 2

### Groundwater Analytical Results

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

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

**Notes:**

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

**Bold** = Concentration detected above the laboratory reporting limit.

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

-- = Not analyzed for this parameter

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

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

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

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

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

o = Reporting Limits were increase due to sample foaming.

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

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

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

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

### Table 3

#### Groundwater Natural Attenuation Parameters

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

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

### Table 3

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

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

**Table 3**

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

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

### Table 3

#### Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-21	06/08/10	0.33	<b>0.015</b>	--	--	<b>0.72</b>	<b>0.28</b>	<b>85.00</b>	<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	<b>0.038</b>	--	--	<b>0.19</b>	<b>0.50</b>	<b>25.00</b>	<b>0.10</b>	
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	--	--	<b>9.60</b>	<0.25	<b>940.00</b>	<b>0.15</b>	
A-21	04/10/13	--	<0.010	--	--	--	<0.25	<b>920</b>	<0.10	
A-21	10/03/13	0.00	--	--	--	--	--	--	--	
A-21	01/21/14	<b>3.53</b>	--	--	--	--	--	--	--	
A-23R	02/14/02	1.20	<b>1.70</b>	--	--	<b>29.00</b>	<0.25	<b>580.00</b>	<0.1	
A-23R	05/20/02	2.30	<b>1.80</b>	--	--	<b>26.00</b>	<0.25	<b>420.00</b>	<0.1	
A-23R	08/28/02	2.40	<b>4.10</b>	--	--	<b>13.00</b>	<0.25	<b>270.00</b>	<b>0.20</b>	
A-23R	11/05/02	2.40	<b>3.60</b>	--	--	<b>11.00</b>	<0.25	<b>200.00</b>	<b>1.60</b>	
A-23R	02/19/03	3.00	<b>6.10</b>	--	--	<b>12.00</b>	<0.25	<b>120.00</b>	<0.1	
A-23R	06/10/03	1.80	<b>1.80</b>	--	--	<b>30.00</b>	<0.25	<b>300.00</b>	<b>0.20</b>	
A-23R	09/16/03	1.40	<b>7.60</b>	--	--	<b>12.00</b>	<0.25b	<b>100.00</b>	<b>0.90</b>	
A-23R	11/19/03	1.50	<b>8.70</b>	--	--	<b>7.80</b>	<0.25b	<b>26.00</b>	<b>0.80</b>	
A-23R	02/25/04	1.70	<b>13.00</b>	--	--	<b>14.00</b>	<0.25b	<b>17.00</b>	<b>0.70</b>	
A-23R	05/12/04	4.70	<b>5.30</b>	--	--	<b>23.00</b>	<0.25	<b>80.00</b>	<1.0	
A-23R	08/25/04	1.80	<b>10.00</b>	--	--	<b>11.00</b>	<0.25	<b>31.00</b>	<b>0.34</b>	
A-23R	12/14/04	2.20	<b>12.00</b>	--	--	<b>9.80</b>	<0.25	<b>6.40</b>	<b>0.25</b>	
A-23R	03/10/05	1.10	<b>7.30</b>	--	--	<b>30.00</b>	<0.25	<b>220.00</b>	<b>0.20</b>	
A-23R	06/07/05	1.50	<b>5.60</b>	--	--	<b>28.00</b>	<0.25	<b>200.00</b>	<b>1.90</b>	
A-23R	09/20/05	1.50	<b>2.60</b>	--	--	<b>34.00</b>	<0.25	<b>270.00</b>	<0.10	
A-23R	12/14/05	0.80	<b>5.30</b>	--	--	<b>25.00</b>	<0.25	<b>50.00</b>	<b>0.17</b>	
A-23R	03/15/06	0.80	<b>13.00</b>	--	--	<b>27.00</b>	<0.25	<b>21.00</b>	<b>0.28</b>	
A-23R	06/08/06	0.70	<b>4.00</b>	--	--	<b>38.00</b>	<0.25	<b>150.00</b>	<b>0.19</b>	
A-23R	09/12/06	1.40	<b>3.60</b>	--	--	<b>33.00</b>	<0.25	<b>100.00</b>	<0.10	
A-23R	12/12/06	2.80	<b>16.00</b>	--	--	<b>24.00</b>	<0.25	<b>4.20</b>	<b>0.31</b>	
A-23R	03/27/07	1.10	--	--	--	--	--	--	--	
A-23R	06/19/07	1.40	<b>3.00</b>	--	--	<b>32.00</b>	<0.25	<b>180.00</b>	<b>0.11</b>	
A-23R	12/11/07	2.73	--	--	--	--	--	--	--	
A-23R	03/04/08	3.20	--	--	--	--	--	--	--	
A-23R	06/05/08	2.40	<b>2.60</b>	--	--	<b>44.00</b>	<0.25	<b>440.00</b>	<0.10	



**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-23R	12/05/08	0.33	--	--	--	--	--	--	--	
A-23R	03/04/09	0.35	--	--	--	--	--	--	--	
A-23R	06/02/09	0.60	<b>2.10</b>	--	--	<b>22.00</b>	<0.25	<b>290.00</b>	<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	<b>1.10</b>	--	--	<b>39.00</b>	<0.25	<b>450.00</b>	<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	<b>1.00</b>	--	--	<b>44.00</b>	<0.25	<b>450.00</b>	<b>0.10</b>	
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	--	--	<b>86.00</b>	<0.25	<b>470.00</b>	<0.10	
A-23R	04/08/13	--	<0.010	--	--	<b>11</b>	<0.25 *	<b>1,000</b>	<0.10	
A-23R	10/02/13	0.00	--	--	--	--	--	--	--	
A-23R	01/21/14	4.28	--	--	--	--	--	--	--	
A-27	02/14/02	6.70	<b>7.40</b>	--	--	<b>20.00</b>	<0.25	<b>0.55</b>	<b>0.10</b>	
A-27	05/22/02	3.50	<b>9.10</b>	--	--	<b>27.00</b>	<0.25	<b>1.60</b>	<0.1	
A-27	08/29/02	2.30	<b>7.50</b>	--	--	<b>24.00</b>	<0.25	<b>0.29</b>	<b>0.20</b>	
A-27	11/06/02	0.70	<b>5.20</b>	--	--	<b>26.00</b>	<0.25	<0.25	<b>0.20</b>	
A-27	02/19/03	3.20	<b>6.60</b>	--	--	<b>19.00</b>	<0.25	<0.25	<0.1	
A-27	06/10/03	1.20	<b>10.00</b>	--	--	<b>19.00</b>	<0.25	<b>0.77</b>	<b>0.10</b>	
A-27	09/16/03	1.00	<b>8.60</b>	--	--	<b>51.00</b>	<0.25b	<b>0.59</b>	<b>0.70</b>	
A-27	11/19/03	1.10	<b>8.90</b>	--	--	<b>19.00</b>	<0.25b	<b>0.33</b>	<0.1	
A-27	02/25/04	1.90	<b>12.00</b>	--	--	<b>27.00</b>	<0.25b	<0.25	<b>0.30</b>	
A-27	05/11/04	0.70	<b>8.40</b>	--	--	<b>25.00</b>	<0.25	<0.50	<0.10	
A-27	08/25/04	1.68	<b>12.00</b>	--	--	<b>22.00</b>	<0.25	<0.50	<b>0.13</b>	
A-27	12/14/04	1.32	<b>12.00</b>	--	--	<b>10.00</b>	<0.25	<0.50	<b>0.12</b>	
A-27	03/10/05	1.62	<b>12.00</b>	--	--	<b>18.00</b>	<0.25	<b>0.78</b>	<0.10	
A-27	06/07/05	1.00	<b>7.00</b>	--	--	<b>19.00</b>	<0.25	<0.50	<b>0.30</b>	
A-27	09/20/05	3.10	<b>10.00</b>	--	--	<b>29.00</b>	<0.25	<b>0.84</b>	<b>0.16</b>	
A-27	12/13/05	2.30	<b>16.00</b>	--	--	<b>24.00</b>	<0.25	<0.50	<0.10	
A-27	03/15/06	2.30	<b>15.00</b>	--	--	<b>14.00</b>	<0.25	<0.50	<b>0.16</b>	
A-27	06/08/06	1.20	<b>13.00</b>	--	--	<b>25.00</b>	<0.25	<b>0.51</b>	<b>0.15</b>	
A-27	09/12/06	1.90	<b>12.00</b>	--	--	<b>19.00</b>	<0.25	<0.50	<b>0.23</b>	

**Table 3**
**Groundwater Natural Attenuation Parameters**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-27	12/12/06	1.00	<b>13.00</b>	--	--	<b>24.00</b>	<0.25	<0.50	<0.10	
A-27	03/27/07	1.40	--	--	--	--	--	--	--	
A-27	06/19/07	2.40	<b>11.00</b>	--	--	<b>7.50</b>	<0.25	<1.0	<b>0.10</b>	
A-27	09/24/07	1.50	--	--	--	--	--	--	--	
A-27	12/11/07	1.50	--	--	--	--	--	--	--	
A-27	03/04/08	1.80	--	--	--	--	--	--	--	
A-27	06/04/08	2.00	<b>9.90</b>	--	--	<b>10.00</b>	<0.25	<0.50	<b>0.13</b>	
A-27	09/08/08	1.85	--	--	--	--	--	--	--	
A-27	12/05/08	0.39	--	--	--	--	--	--	--	
A-27	03/04/09	0.39	--	--	--	--	--	--	--	
A-27	06/02/09	0.63	<b>6.5</b>	--	--	<b>13</b>	<0.25	<b>1.2</b>	<0.10	
A-27	09/22/09	0.45	--	--	--	--	--	--	--	
A-27	11/16/09	0.46	--	--	--	--	--	--	--	
A-27	03/09/10	1.32	--	--	--	--	--	--	--	
A-27	06/08/10	0.00	<b>3.90</b>	--	--	<b>12.00</b>	<0.25	<b>2.10</b>	<0.10	
A-27	09/09/10	0.47	--	--	--	--	--	<0.50	--	
A-27	11/16/10	0.34	--	--	--	--	--	--	--	
A-27	03/02/11	0.00	--	--	--	--	--	--	--	
A-27	05/24/11	0.27	<b>3.30</b>	--	--	<b>8.80</b>	<0.25	<b>2.20</b>	<b>0.10</b>	
A-27	08/30/11	0.36	--	--	--	--	--	--	--	
A-27	12/02/11	0.77	--	--	--	--	--	--	--	
A-27	03/01/12	0.32	--	--	--	--	--	--	--	
A-27	05/30/12	0.00	<b>2.60</b>	--	--	<b>21.00</b>	<0.25	<b>1.10</b>	<0.10	
A-27	04/10/13	--	<b>3.9</b>	--	--	<b>21</b>	<0.25 *	<b>3.3</b>	<0.10	
A-27	06/21/13	--	--	--	--	--	<0.25 *	<b>2.7</b>	<0.10	Baseline monitoring event
A-27	07/30/13	--	<b>6.2</b>	<b>16</b>	<b>3.6</b>	--	<b>16</b>	<0.50	<0.10	
A-27	10/02/13	0.00	<b>7.4</b>	<b>14</b>	<b>3.6</b>	--	<0.50 *	<0.50	<0.10	
A-27	01/22/14	<b>7.32</b>	--	--	--	--	--	<0.50	<0.10	
A-28R	02/14/02	0.40	<b>8.80</b>	--	--	<b>59.00</b>	<0.25	<b>1.20</b>	<b>0.30</b>	
A-28R	05/22/02	4.40	<b>3.40</b>	--	--	<b>42.00</b>	<0.25	<b>28.00</b>	<b>0.30</b>	
A-28R	08/29/02	3.60	<b>6.20</b>	--	--	<b>45.00</b>	<0.25	<b>0.73</b>	<b>0.30</b>	
A-28R	11/06/02	2.20	<b>5.90</b>	--	--	<b>46.00</b>	<0.25	<b>0.57</b>	<0.1	
A-28R	02/19/03	3.00	<b>6.30</b>	--	--	<b>48.00</b>	<0.25	<b>0.56</b>	<0.1	
A-28R	06/10/03	1.20	<b>6.10</b>	--	--	<b>42.00</b>	<0.25	<0.25	<0.1	
A-28R	09/16/03	0.90	<b>10b</b>	--	--	<b>58.00</b>	<0.25b	<b>0.41</b>	<b>0.50</b>	
A-28R	11/19/03	1.20	<b>9.90</b>	--	--	<b>47.00</b>	<0.25b	<b>0.25</b>	<0.1	

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 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-28R	02/25/04	1.80	<b>9.60</b>	--	--	<b>46.00</b>	<0.25b	<0.25	<b>1.40</b>	
A-28R	05/12/04	1.90	<b>11.00</b>	--	--	<b>47.00</b>	<0.25	<0.50	<0.10	
A-28R	08/25/04	0.50	<b>12.00</b>	--	--	<b>38.00</b>	<0.25	--*b	--*b	
A-28R	12/14/04	1.72	<b>12.00</b>	--	--	<b>22.00</b>	<0.25	<0.50	<b>0.12</b>	
A-28R	03/10/05	3.32	<b>14.00</b>	--	--	<b>42.00</b>	<0.25	<0.50	<0.10	
A-28R	06/07/05	1.00	<b>13.00</b>	--	--	<b>35.00</b>	<0.25	<0.50	<b>0.70</b>	
A-28R	12/13/05	0.89	<b>15.00</b>	--	--	<b>28.00</b>	<0.25	<0.50	<b>0.13</b>	
A-28R	03/15/06	0.89	<b>15.00</b>	--	--	<b>45.00</b>	<0.25	<b>1.30</b>	<0.10	
A-28R	06/08/06	0.80	<b>13.00</b>	--	--	<b>34.00</b>	<0.25	<0.50	--	
A-28R	09/12/06	1.10	<b>16.00</b>	--	--	<b>35.00</b>	<0.25	<0.50	<0.10	
A-28R	12/12/06	1.70	<b>13.00</b>	--	--	<b>25.00</b>	<0.25	<0.50	<0.10	
A-28R	03/27/07	3.20	--	--	--	--	--	--	--	
A-28R	06/19/07	3.20	<b>12.00</b>	--	--	<b>32.00</b>	<0.25	<b>2.50</b>	<0.10	
A-28R	09/24/07	2.90	--	--	--	--	--	--	--	
A-28R	12/11/07	2.60	--	--	--	--	--	--	--	
A-28R	03/04/08	0.80	--	--	--	--	--	--	--	
A-28R	06/04/08	2.30	<b>7.00</b>	--	--	<b>18.00</b>	<0.25	<0.50	<0.10	
A-28R	12/04/08	0.36	--	--	--	--	--	--	--	
A-28R	03/04/09	0.44	--	--	--	--	--	--	--	
A-28R	06/02/09	0.46	<b>2.30</b>	--	--	<b>15.00</b>	<0.25	<b>2.80</b>	<b>0.18</b>	
A-28R	09/22/09	0.55	--	--	--	--	--	--	--	
A-28R	11/16/09	0.52	--	--	--	--	--	--	--	
A-28R	03/09/10	0.50	--	--	--	--	--	--	--	
A-28R	06/08/10	0.00	<b>2.40</b>	--	--	<b>31.00</b>	<0.25	<b>18.00</b>	<b>0.29</b>	
A-28R	09/10/10	3.81	--	--	--	--	--	--	--	
A-28R	11/16/10	0.79	--	--	--	--	--	--	--	
A-28R	03/02/11	0.00	--	--	--	--	--	--	--	
A-28R	05/24/11	0.00	<b>3.60</b>	--	--	<b>39.00</b>	<0.25	<b>1.60</b>	<b>0.13</b>	
A-28R	08/30/11	0.31	--	--	--	--	--	--	--	
A-28R	12/02/11	0.30	--	--	--	--	--	--	--	
A-28R	03/02/12	2.47	--	--	--	--	--	--	--	
A-28R	05/30/12	0.00	<b>2.00</b>	--	--	<b>42.00</b>	<0.25	<0.50	<b>0.11</b>	
A-28R	04/10/13	--	<b>2.5</b>	--	--	<b>37</b>	<0.25 *	<b>7.9</b>	<0.10	
A-28R	10/02/13	0.00	--	--	--	--	--	--	--	
A-28R	01/22/14	5.55	--	--	--	--	--	--	--	
11	06/24/13	--	--	--	--	--	<0.25	<b>2.5</b>	<0.10	Baseline monitoring event

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
11	07/30/13	--	<b>0.42</b>	<b>1.0</b>	<0.30	--	<0.25	<b>0.88</b>	<0.10	
11	10/03/13	0.69	<b>0.046</b>	<b>5.2</b>	<b>0.78</b>	--	<b>1.2 *</b>	<b>560</b>	<0.10	
11	01/22/14	9.20	--	--	--	--	--	<b>120</b>	<0.10	
12	06/24/13	--	--	--	--	--	<0.25	<0.50	<0.10	Baseline monitoring event
12	10/03/13	0.00	<b>2.2</b>	<b>39</b>	<b>35</b>	--	<b>1.1 *</b>	<b>5,500</b>	<0.10	
12	01/22/14	3.42	--	--	--	--	--	<b>3,000</b>	<0.10	
MW-1	02/13/02	0.70	<b>4.20</b>	--	--	<b>35.00</b>	<0.25	<b>30.00</b>	<0.1	
MW-1	05/21/02	3.90	<b>6.80</b>	--	--	<b>48.00</b>	<0.25	<b>31.00</b>	<0.1	
MW-1	08/28/02	3.20	<b>4.00</b>	--	--	<b>12.00</b>	<0.25	<b>1.20</b>	<b>0.20</b>	
MW-1	11/05/02	1.90	<b>3.60</b>	--	--	<b>85.00</b>	<0.25	<b>0.99</b>	<b>1.30</b>	
MW-1	02/19/03	3.60	<b>4.90</b>	--	--	<b>16.00</b>	<0.25	<b>11.00</b>	<b>0.10</b>	
MW-1	06/10/03	1.30	<b>7.60</b>	--	--	<b>28.00</b>	<0.25	<b>6.40</b>	<0.1	
MW-1	09/16/03	2.40	<b>5.60</b>	--	--	<b>25.00</b>	<0.25b	<b>5.20</b>	<0.1	
MW-1	11/19/03	1.90	<b>3.80</b>	--	--	<b>15.00</b>	<0.25b	<b>0.50</b>	<0.1	
MW-1	02/25/04	2.20	<b>2.60</b>	--	--	<b>21.00</b>	<0.25b	<b>17.00</b>	<b>0.20</b>	
MW-1	05/11/04	1.80	<b>1.60</b>	--	--	<b>27.00</b>	<0.25	<b>11.00</b>	<0.10	
MW-1	08/25/04	2.38	<b>1.60</b>	--	--	<b>18.00</b>	<0.25	<b>2.80</b>	<0.10	
MW-1	12/15/04	3.20	<b>1.40</b>	--	--	<b>4.30</b>	<b>0.72</b>	<b>26.00</b>	<0.10	
MW-1	03/09/05	3.40	<b>1.50</b>	--	--	<b>19.00</b>	<0.25	<b>9.80</b>	<0.10	
MW-1	06/08/05	3.00	<b>0.82</b>	--	--	<b>11.00</b>	<0.25	<b>15.00</b>	<0.2	
MW-1	09/21/05	3.50	<b>0.68</b>	--	--	<b>51.00</b>	<0.25	<b>52.00</b>	<0.10	
MW-1	12/14/05	2.20	<b>1.10</b>	--	--	<b>18.00</b>	<0.25	<b>21.00</b>	<0.10	
MW-1	03/14/06	1.10	<b>0.16</b>	--	--	<b>20.00</b>	<0.25	<b>21.00</b>	<0.10	
MW-1	06/07/06	1.80	<b>0.14</b>	--	--	<b>23.00</b>	<0.25	<b>86.00</b>	<0.10	
MW-1	09/13/06	2.20	<b>2.50</b>	--	--	<b>24.00</b>	<0.25	<b>15.00</b>	<0.10	
MW-1	12/13/06	2.60	<b>0.22</b>	--	--	<b>6.60</b>	<b>1.00</b>	<b>49.00</b>	<0.10	
MW-1	06/20/07	3.40	--	--	--	--	--	--	--	
MW-1	03/04/08	1.20	--	--	--	--	--	<b>26.00</b>	--	
MW-1	06/05/08	2.70	--	--	--	--	<0.25	<b>41.00</b>	--	
MW-1	06/02/09	0.68	--	--	--	--	--	--	--	
MW-1	06/08/10	0.00	--	--	--	--	--	--	--	
MW-1	05/24/11	0.12	--	--	--	--	--	--	--	
MW-1	05/31/12	0.00	--	--	--	--	--	--	--	
MW-2	02/13/02	0.40	<0.01	--	--	<b>0.60</b>	<b>0.45</b>	<b>15.00</b>	<b>0.10</b>	
MW-2	05/21/02	3.10	<0.01	--	--	<b>0.90</b>	<0.25	<b>12.00</b>	<0.1	
MW-2	08/29/02	2.10	<b>0.69</b>	--	--	<b>1.60</b>	<0.25	<b>9.80</b>	<0.1	

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-2	11/05/02	1.90	<b>1.20</b>	--	--	<b>5.10</b>	<0.25	<b>9.60</b>	<0.1	
MW-2	02/19/03	2.10	<b>0.031</b>	--	--	<b>1.60</b>	<0.25	<b>55.00</b>	<0.1	
MW-2	06/10/03	1.40	<b>0.059</b>	--	--	<b>1.60</b>	<0.25	<b>25.00</b>	<b>0.30</b>	
MW-2	09/16/03	1.40	<b>1.10</b>	--	--	<b>12.00</b>	<0.25b	<b>21.00</b>	<b>0.60</b>	
MW-2	11/19/03	6.40	<b>0.13</b>	--	--	<b>0.40</b>	<0.25b	<b>8.30</b>	<0.1	
MW-2	02/25/04	4.30	<b>0.079</b>	--	--	<b>0.75</b>	<b>0.67b</b>	<b>17.00</b>	<b>0.20</b>	
MW-2	05/11/04	2.70	<b>0.24</b>	--	--	<b>0.18</b>	<b>0.64</b>	<b>25.00</b>	<0.10	
MW-2	08/25/04	2.02	<b>0.11</b>	--	--	<b>0.063</b>	<0.25	<b>21.00</b>	<0.10	
MW-2	12/14/04	2.72	<b>0.093</b>	--	--	<0.050	<0.25	<b>11.00</b>	<0.10	
MW-2	03/10/05	1.00	<b>0.23</b>	--	--	<b>0.32</b>	<b>0.34</b>	<b>31.00</b>	<0.10	
MW-2	06/07/05	1.00	<b>0.44</b>	--	--	<b>0.059</b>	<b>0.26</b>	<b>21.00</b>	<0.2	
MW-2	09/20/05	1.70	<b>0.033</b>	--	--	<0.050	<0.25	<b>25.00</b>	<0.10	
MW-2	12/13/05	3.00	<b>0.71</b>	--	--	<b>1.60</b>	<0.25	<b>4.50</b>	<0.10	
MW-2	03/15/06	1.80	<0.010	--	--	<0.050	<b>0.54</b>	<b>17.00</b>	<0.10	
MW-2	06/08/06	1.20	<b>0.013</b>	--	--	<0.050	<b>0.35</b>	<b>10.00</b>	<0.10	
MW-2	09/12/06	1.50	<b>0.49</b>	--	--	<0.050	<0.25	<b>13.00</b>	<0.10	
MW-2	12/12/06	1.20	<b>0.018</b>	--	--	<b>0.068</b>	<b>0.91</b>	<b>14.00</b>	<0.10	
MW-2	06/19/07	1.80	--	--	--	--	--	--	--	
MW-2	03/04/08	3.20	--	--	--	--	--	<b>19.00</b>	--	
MW-2	06/04/08	1.90	--	--	--	--	<b>0.97</b>	<b>12.00</b>	--	
MW-2	06/02/09	4.27	--	--	--	--	--	--	--	
MW-2	06/08/10	1.71	--	--	--	--	--	--	--	
MW-2	05/23/11	3.30	--	--	--	--	--	--	<b>0.0050</b>	
MW-2	05/31/12	1.83	--	--	--	--	--	--	<b>0.0050</b>	
MW-2	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-3	02/13/02	0.30	<b>0.033</b>	--	--	<b>0.40</b>	<b>2.50</b>	<b>16.00</b>	<b>0.10</b>	
MW-3	05/20/02	4.10	<b>0.96</b>	--	--	<b>3.50</b>	<0.25	<b>29.00</b>	<b>0.10</b>	
MW-3	08/28/02	2.60	<b>4.60</b>	--	--	<b>11.00</b>	<0.25	<b>19.00</b>	<b>0.20</b>	
MW-3	11/06/02	2.90	<b>0.88</b>	--	--	<b>0.80</b>	<0.25	<b>9.20</b>	<b>0.20</b>	
MW-3	02/19/03	8.60	<b>0.017</b>	--	--	<b>0.20</b>	<b>6.10</b>	<b>84.00</b>	<b>0.20</b>	
MW-3	06/11/03	6.54	<b>0.022</b>	--	--	<b>0.40</b>	<b>8.50</b>	<b>130.00</b>	<b>0.20</b>	
MW-3	09/17/03	6.50	<b>0.028</b>	--	--	<b>0.80</b>	<b>8.20</b>	<b>160.00</b>	<0.1	
MW-3	11/20/03	7.80	<0.01	--	--	<0.2	<b>17.00</b>	<b>66.00</b>	<b>0.20</b>	
MW-3	02/25/04	2.80	<0.01	--	--	<0.050	<b>6.70</b>	<b>35.00</b>	<b>0.20</b>	
MW-3	05/11/04	8.40	<0.010	--	--	<0.050	<b>7.70</b>	<b>59.00</b>	<0.10	
MW-3	08/25/04	1.80	<0.010	--	--	<0.050	<b>7.00</b>	<b>66.00</b>	<0.10	
MW-3	12/15/04	7.60	<b>0.059</b>	--	--	<0.050	<b>6.50</b>	<b>50.00</b>	<0.10	

**Table 3**
**Groundwater Natural Attenuation Parameters**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-3	03/09/05	4.43	<b>1.80</b>	--	--	<0.050	<b>3.50</b>	<b>51.00</b>	<0.10	
MW-3	06/08/05	1.98	<b>3.30</b>	--	--	<0.050	<b>4.20</b>	<b>37.00</b>	<0.2	
MW-3	09/21/05	2.90	<b>4.30</b>	--	--	<b>0.064</b>	<b>3.40</b>	<b>47.00</b>	<0.10	
MW-3	12/14/05	1.80	<b>0.80</b>	--	--	<0.050	<b>1.60</b>	<b>72.00</b>	<0.10	
MW-3	03/14/06	3.10	<b>0.23</b>	--	--	<0.050	<b>7.50</b>	<b>22.00</b>	<0.10	
MW-3	06/07/06	1.80	<b>0.30</b>	--	--	<0.050	<b>4.60</b>	<b>21.00</b>	<0.10	
MW-3	09/13/06	2.60	<b>2.40</b>	--	--	<0.050	<b>0.40</b>	<b>30.00</b>	<0.10	
MW-3	12/13/06	0.80	<b>0.25</b>	--	--	<b>0.064</b>	<b>2.80</b>	<b>28.00</b>	<0.10	
MW-3	06/20/07	2.20	--	--	--	--	--	--	--	
MW-3	06/05/08	2.00	--	--	--	--	<b>3.40</b>	<b>15.00</b>	--	
MW-3	06/02/09	4.84	--	--	--	--	--	--	--	
MW-3	06/09/10	3.24	--	--	--	--	--	--	--	
MW-3	05/23/11	5.29	--	--	--	--	--	--	--	
MW-3	05/31/12	0.34	--	--	--	--	--	--	--	
MW-4	02/14/02	0.60	<b>5.80</b>	--	--	<b>32.00</b>	<0.25	<b>3.10</b>	<b>0.70</b>	
MW-4	05/21/02	3.90	<b>1.90</b>	--	--	<b>23.00</b>	<0.25	<b>1.60</b>	<b>0.50</b>	
MW-4	08/28/02	1.00	<b>5.10</b>	--	--	<b>86.00</b>	<0.25	<b>2.90</b>	--**	
MW-4	02/19/03	2.00	<b>1.80</b>	--	--	<b>120.00</b>	<0.25	<b>270.00</b>	--**	
MW-4	06/10/03	0.90	<b>4.90</b>	--	--	<b>36.00</b>	<0.25	<b>8.40</b>	<b>0.60</b>	
MW-4	11/19/03	1.40	<b>1.90</b>	--	--	<b>31.00</b>	<b>0.25b</b>	<b>49.00</b>	<b>0.60</b>	
MW-4	02/25/04	2.20	<b>1.20</b>	--	--	<b>32.00</b>	<0.25b	<b>1.00</b>	<b>0.30</b>	
MW-4	05/12/04	0.89	<b>4.90</b>	--	--	<b>37.00</b>	<0.25	<b>5.30</b>	<0.10	
MW-4	08/26/04	2.32	<b>1.40</b>	--	--	<b>26.00</b>	<0.25	<b>6.40</b>	<b>0.42</b>	
MW-4	03/09/05	1.37	<b>1.00</b>	--	--	<b>31.00</b>	<0.25	<b>110.00</b>	<b>0.33</b>	
MW-4	06/08/05	1.50	<b>1.60</b>	--	--	<b>46.00</b>	<0.25	<b>11.00</b>	<b>0.50</b>	
MW-4	09/21/05	1.30	<b>7.00</b>	--	--	<b>54.00</b>	<0.25	<b>0.52</b>	<b>23.00</b>	
MW-4	12/14/05	2.40	<b>6.60</b>	--	--	<b>19.00</b>	<0.25	<b>33.00</b>	<b>0.38</b>	
MW-4	03/14/06	2.40	<b>4.20</b>	--	--	<b>11.00</b>	<0.25	<b>1.90</b>	<b>0.53</b>	
MW-4	06/07/06	3.20	<b>7.10</b>	--	--	<b>8.30</b>	<0.25	<0.50	<b>0.54</b>	
MW-4	09/13/06	2.80	<b>7.60</b>	--	--	<b>15.00</b>	<0.25	<0.50	<b>0.85</b>	
MW-4	12/13/06	2.90	<b>2.30</b>	--	--	<b>8.70</b>	<0.25	<b>31.00</b>	<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	--	--	--	--	--	--	--	

### Table 3

#### Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-5	02/13/02	2.70	<0.01	--	--	<0.1	<0.25	12.00	0.20	
MW-5	05/21/02	3.80	<0.01	--	--	0.20	<0.25	7.40	0.10	
MW-5	08/29/02	1.40	0.17	--	--	0.30	<0.25	11.00	0.20	
MW-5	11/05/02	4.10	6.40	--	--	13.00	1.10	250.00	0.30	
MW-5	02/20/03	2.00	0.073	--	--	<0.2	<0.25	6.20	<0.1	
MW-5	06/11/03	1.60	2.50	--	--	0.60	<0.25	8.20	0.10	
MW-5	09/16/03	1.20	4.70	--	--	3.10	<0.25b	5.60	0.10	
MW-5	11/20/03	4.90	<0.01	--	--	0.30	<0.25a	4.70	0.20	
MW-5	02/24/04	3.10	0.33	--	--	0.062	<0.25b	5.80	0.10	
MW-5	05/11/04	1.90	0.61	--	--	1.50	0.27	3.00	<0.10	
MW-5	08/26/04	1.22	<0.010	--	--	<0.050	1.80	7.60	<0.10	
MW-5	12/15/04	12.19	<0.010	--	--	<0.050	0.27	4.30	<0.10	
MW-5	03/09/05	6.22	0.020	--	--	<0.050	<0.25	15.00	<0.10	
MW-5	06/08/05	2.50	<0.010	--	--	<0.050	<0.25	11.00	<0.2	
MW-5	09/21/05	1.90	0.080	--	--	0.077	<0.25	8.90	<0.10	
MW-5	12/14/05	2.20	<0.010	--	--	<0.050	<0.25	9.80	--*a	
MW-5	03/14/06	2.20	<0.010	--	--	<0.050	0.55	3.20	<0.10	
MW-5	06/07/06	2.00	<0.010	--	--	<0.050	1.10	4.50	<0.10	
MW-5	09/13/06	2.10	0.34	--	--	<0.050	<0.25	6.60	<0.10	
MW-5	12/13/06	2.30	<0.010	--	--	<0.050	0.30	3.80	<0.10	
MW-5	06/04/08	2.40	--	--	--	--	--	--	--	
MW-5	06/02/09	4.34	--	--	--	--	--	--	--	
MW-5	06/08/10	1.84	--	--	--	--	--	--	--	
MW-5	05/24/11	5.26	--	--	--	--	--	--	--	
MW-5	05/31/12	2.33	--	--	--	--	--	--	--	
MW-6	02/13/02	2.50	2.60	--	--	2.40	<0.25	26.00	0.20	
MW-6	05/22/02	4.60	1.20	--	--	6.00	<0.25	22.00	0.10	
MW-6	08/29/02	1.20	0.72	--	--	4.10	<0.25	11.00	0.10	
MW-6	11/05/02	1.70	1.70	--	--	10.00	<0.25	5.60	0.70	
MW-6	02/19/03	3.30	1.20	--	--	7.30	<0.25	62.00	0.10	
MW-6	06/10/03	2.00	0.87	--	--	5.90	<0.25	17.00	0.20	
MW-6	09/16/03	2.30	1.60	--	--	41.00	<0.25b	2.90	1.00	
MW-6	11/19/03	5.10	1.70	--	--	5.40	<0.25b	19.00	<0.1	
MW-6	02/25/04	2.40	<0.01	--	--	0.49	2.8b	24.00	<0.1	
MW-6	05/11/04	1.20	0.39	--	--	5.10	<0.25	12.00	<0.10	
MW-6	08/25/04	2.26	0.59	--	--	4.90	<0.25	8.70	0.18	
MW-6	12/14/04	1.45	2.80	--	--	2.50	<0.25	9.90	<0.10	

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-6	03/10/05	0.70	<b>0.85</b>	--	--	<b>1.90</b>	<0.25	<b>20.00</b>	<b>0.15</b>	
MW-6	06/07/05	3.80	<b>0.38</b>	--	--	<b>0.86</b>	<b>0.56</b>	<b>19.00</b>	<b>0.20</b>	
MW-6	09/20/05	0.90	<b>1.50</b>	--	--	<b>2.50</b>	<0.25	<b>6.00</b>	<b>0.18</b>	
MW-6	12/13/05	1.00	<b>1.90</b>	--	--	<b>2.60</b>	<0.25	<b>10.00</b>	<b>0.26</b>	
MW-6	03/15/06	1.00	<b>0.057</b>	--	--	<b>0.30</b>	<0.25	<b>17.00</b>	<0.10	
MW-6	06/08/06	1.90	<b>0.22</b>	--	--	<b>5.90</b>	<0.25	<b>7.30</b>	<b>0.39</b>	
MW-6	09/12/06	1.60	<b>0.98</b>	--	--	<b>2.50</b>	<0.25	<b>3.10</b>	<b>0.33</b>	
MW-6	12/12/06	2.00	<b>0.032</b>	--	--	<b>1.60</b>	<b>0.91</b>	<b>49.00</b>	<0.10	
MW-6	03/27/07	2.30	--	--	--	--	--	--	--	
MW-6	06/19/07	1.40	<b>0.40</b>	--	--	<b>4.40</b>	<0.25	<b>15.00</b>	<b>0.21</b>	
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	<b>0.38</b>	--	--	<b>0.70</b>	<0.25	<b>11.00</b>	<b>0.13</b>	
MW-6	09/08/08	0.89	--	--	--	--	--	--	--	
MW-6	12/04/08	0.33	--	--	--	--	--	--	--	
MW-6	03/04/09	0.57	--	--	--	--	--	--	--	
MW-6	06/02/09	1.37	<b>0.096</b>	--	--	<b>0.30</b>	<b>3.30</b>	<b>24.00</b>	<0.10	
MW-6	09/21/09	0.28	--	--	--	--	--	--	--	
MW-6	11/17/09	0.46	--	--	--	--	--	--	--	
MW-6	03/09/10	1.33	--	--	--	--	--	--	--	
MW-6	06/08/10	0.080	<b>0.036</b>	--	--	<b>0.22</b>	<b>0.41</b>	<b>11.00</b>	<0.10	
MW-6	09/09/10	0.40	--	--	--	--	--	<b>4.80</b>	--	
MW-6	11/15/10	0.42	--	--	--	--	--	--	--	
MW-6	03/02/11	1.20	--	--	--	--	--	--	--	
MW-6	05/23/11	1.86	<b>0.010</b>	--	--	<0.050	<b>0.68</b>	<b>10.00</b>	<b>0.10</b>	
MW-6	08/30/11	0.32	--	--	--	--	--	--	--	
MW-6	12/02/11	0.90	--	--	--	--	--	--	--	
MW-6	03/01/12	1.69	--	--	--	--	--	--	--	
MW-6	05/31/12	0.00	<0.010	--	--	<0.050	<b>2.10</b>	<b>18.00</b>	<0.10	
MW-6	04/09/13	--	<0.010	--	--	<0.050	<b>0.92 *</b>	<b>15</b>	<0.10	
MW-6	10/02/13	10.68	--	--	--	--	--	--	--	
MW-6	01/22/14	8.95	--	--	--	--	--	--	--	
MW-7	02/14/02	0.10	<b>13.00</b>	--	--	<b>17.00</b>	<0.25	<b>2.20</b>	<b>0.20</b>	
MW-7	05/21/02	3.10	<b>15.00</b>	--	--	<b>13.00</b>	<0.25	<b>1.10</b>	<b>0.30</b>	
MW-7	08/29/02	1.40	<b>14.00</b>	--	--	<b>9.80</b>	<0.25	<b>20.00</b>	<b>0.40</b>	
MW-7	11/05/02	3.00	<b>14.00</b>	--	--	<b>8.90</b>	<0.25	<b>7.00</b>	<b>0.50</b>	



### Table 3

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-7	02/20/03	2.50	<b>13.00</b>	--	--	<b>13.00</b>	<0.25	<b>21.00</b>	<b>1.10</b>	
MW-7	06/11/03	2.00	<b>17.00</b>	--	--	<b>12.00</b>	<0.25	<b>1.10</b>	<b>0.50</b>	
MW-7	09/17/03	1.10	<b>14.00</b>	--	--	<b>2.70</b>	<0.25a	<b>3.00</b>	<b>1.10</b>	
MW-7	11/20/03	2.40	<b>0.98</b>	--	--	<b>0.90</b>	<b>1.3a</b>	<b>19.00</b>	<0.1	
MW-7	02/26/04	6.20	<b>18.00</b>	--	--	<b>27.00</b>	<0.25b	<b>59.00</b>	<b>0.90</b>	
MW-7	05/11/04	1.00	<b>14.00</b>	--	--	<b>16.00</b>	<0.25	<b>12.00</b>	<b>0.15</b>	
MW-7	08/26/04	3.80	<b>15.00</b>	--	--	<b>13.00</b>	<0.25	<b>9.20</b>	<b>0.47</b>	
MW-7	12/15/04	1.30	<b>10.00</b>	--	--	<b>20.00</b>	<b>3.20</b>	<b>68.00</b>	<b>0.19</b>	
MW-7	03/09/05	1.45	<b>18.00</b>	--	--	<b>9.30</b>	<0.25	<b>4.50</b>	<b>0.45</b>	
MW-7	06/08/05	10.50	<b>17.00</b>	--	--	<b>8.70</b>	<0.25	<b>1.40</b>	<b>0.40</b>	
MW-7	12/14/05	1.70	<b>22.00</b>	--	--	<b>19.00</b>	<0.25	<b>75.00</b>	<b>0.16</b>	
MW-7	03/14/06	1.70	<b>18.00</b>	--	--	<b>9.70</b>	<0.25	<b>19.00</b>	<b>0.36</b>	
MW-7	06/07/06	1.60	<b>19.00</b>	--	--	<b>2.70</b>	<0.25	<b>17.00</b>	<b>0.43</b>	
MW-7	09/13/06	2.00	<b>17.00</b>	--	--	<b>1.80</b>	<0.25	<b>2.10</b>	<b>0.17</b>	
MW-7	03/27/07	1.90	--	--	--	--	--	--	--	
MW-7	06/20/07	1.00	<b>23.00</b>	--	--	<b>2.90</b>	<0.25	<b>8.30</b>	<b>0.45</b>	
MW-7	09/24/07	2.60	--	--	--	--	--	--	--	
MW-7	12/11/07	3.22	--	--	--	--	--	--	--	
MW-7	03/04/08	1.30	--	--	--	--	--	<b>13.00</b>	--	
MW-7	06/04/08	1.30	<b>19.00</b>	--	--	<b>0.15</b>	<0.25	<b>2.30</b>	<b>0.63</b>	
MW-7	09/08/08	0.73	--	--	--	--	--	--	--	
MW-7	12/05/08	0.40	--	--	--	--	--	--	--	
MW-7	03/04/09	0.70	--	--	--	--	--	--	--	
MW-7	06/02/09	0.37	<b>25.00</b>	--	--	<b>2.80</b>	<0.25	<b>21.00</b>	<b>0.42</b>	
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	<b>27.00</b>	--	--	<b>1.10</b>	<b>1.60</b>	<b>1.60</b>	<b>0.44</b>	
MW-7	09/09/10	0.25	--	--	--	--	<0.25	<b>3.60</b>	--	
MW-7	11/15/10	0.47	--	--	--	--	--	--	--	
MW-7	03/01/11	0.00	--	--	--	--	--	--	--	
MW-7	05/24/11	0.00	<b>3.50</b>	--	--	<b>1.80</b>	<b>0.46</b>	<b>5.10</b>	<b>0.55</b>	
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	<b>14.00</b>	--	--	<b>1.50</b>	<0.25	<b>2.40</b>	<b>0.70</b>	
MW-7	04/09/13	--	<b>3.7</b>	--	--	<b>3.3</b>	<0.25 *	<b>4.7</b>	<b>0.054 J</b>	

### Table 3

#### Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-7	06/21/13	--	--	--	--	--	<0.25 *	3.2	<0.10	Baseline monitoring event
MW-7	07/30/13	--	20	4.6	<0.30	--	<0.25	4.1	<0.10	
MW-7	10/03/13	0.00	20	170	140	--	0.81 *	3,100	<0.10	
MW-7	01/22/14	5.11	--	--	--	--	--	2,100	0.23	
MW-8	02/14/02	2.50	0.24	--	--	0.20	0.42	5.50	0.20	
MW-8	08/29/02	6.20	0.90	--	--	2.30	<0.25	3.70	0.20	
MW-8	11/05/02	2.10	5.50	--	--	3.40	<0.25	7.50	0.10	
MW-8	02/20/03	2.90	0.56	--	--	0.50	0.69	7.60	0.30	
MW-8	06/11/03	1.56	18.00	--	--	0.30	<0.25	<0.25	0.40	
MW-8	09/17/03	2.50	11.00	--	--	6.10	<0.25a	6.70	0.40	
MW-8	11/20/03	1.70	<0.010	--	--	<0.2	2.4a	11.00	0.10	
MW-8	02/26/04	2.30	<0.01	--	--	0.57	1.2b	4.40	0.20	
MW-8	05/11/04	3.10	0.19	--	--	0.12	<0.25	5.30	<0.10	
MW-8	08/26/04	3.32	0.36	--	--	<0.050	2.20	11.00	<0.10	
MW-8	12/15/04	2.30	<0.010	--	--	<0.050	5.80	15.00	<0.10	
MW-8	03/09/05	2.22	<0.010	--	--	<0.050	1.20	7.30	<0.10	
MW-8	06/08/05	6.50	0.018	--	--	<0.050	2.30	7.40	<0.2	
MW-8	09/21/05	2.10	4.40	--	--	0.51	<0.25	11.00	<0.10	
MW-8	12/14/05	2.50	4.00	--	--	<0.050	2.20	11.00	<0.10	
MW-8	03/14/06	2.50	<0.010	--	--	<0.050	1.60	6.40	<0.10	
MW-8	06/07/06	1.30	0.53	--	--	<0.050	1.10	6.00	<0.10	
MW-8	09/13/06	1.60	7.10	--	--	0.068	<0.25	5.00	<0.10	
MW-8	12/13/06	3.10	<0.010	--	--	<0.050	7.30	41.00	<0.10	
MW-8	06/20/07	2.20	--	--	--	--	--	--	--	
MW-8	06/04/08	2.50	--	--	--	--	--	--	--	
MW-8	06/02/09	1.52	--	--	--	--	--	--	--	
MW-8	06/09/10	1.55	--	--	--	--	--	--	--	
MW-8	05/23/11	0.85	--	--	--	--	--	--	--	
MW-8	05/31/12	0.79	--	--	--	--	--	--	--	
MW-9	06/11/03	2.10	6.60	--	--	15.00	<0.25	2.00	0.70	
MW-9	09/17/03	2.10	9.80	--	--	19.00	<0.25a	1.50	0.70	
MW-9	11/20/03	1.60	2.20	--	--	14.00	<0.25a	66.00	0.30	
MW-9	02/26/04	1.10	15.00	--	--	12.00	<0.25b	8.10	0.80	
MW-9	05/11/04	0.90	4.10	--	--	0.25	<0.25	0.62	0.12	
MW-9	08/26/04	1.80	8.20	--	--	15.00	<0.25	1.00	0.41	
MW-9	12/15/04	1.76	5.30	--	--	29.00	10.00	180.00	<0.10	

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-9	03/09/05	4.70	<b>4.30</b>	--	--	<b>7.20</b>	<0.25	<b>4.40</b>	<b>0.30</b>	
MW-9	06/08/05	4.50	<b>6.50</b>	--	--	<b>8.40</b>	<0.25	<b>6.10</b>	<b>0.30</b>	
MW-9	09/21/05	1.70	<b>11.00</b>	--	--	<b>14.00</b>	<0.25	<b>1.90</b>	<b>0.21</b>	
MW-9	12/14/05	3.30	<b>10.00</b>	--	--	<b>9.10</b>	<0.25	<b>17.00</b>	<b>0.11</b>	
MW-9	03/14/06	3.30	<b>12.00</b>	--	--	<b>3.40</b>	<0.25	<b>1.40</b>	<b>0.51</b>	
MW-9	06/07/06	0.90	<b>4.60</b>	--	--	<b>5.60</b>	<0.25	<b>0.94</b>	<b>0.13</b>	
MW-9	09/13/06	1.90	<b>7.40</b>	--	--	<b>7.50</b>	<0.25	<0.50	<0.10	
MW-9	12/13/06	2.40	<b>0.72</b>	--	--	<b>3.60</b>	<b>0.27</b>	<b>12.00</b>	<b>0.19</b>	
MW-9	03/27/07	2.90	--	--	--	--	--	--	--	
MW-9	06/20/07	2.90	<b>3.50</b>	--	--	<b>6.00</b>	<0.25	<0.50	<b>0.42</b>	
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	<b>3.50</b>	--	--	<b>7.90</b>	<0.25	<b>0.80</b>	<b>0.40</b>	
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	<b>0.57</b>	--	--	<b>1.50</b>	<0.25	<b>10.00</b>	<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	<b>7.50</b>	--	--	<b>2.90</b>	<0.25	<b>4.80</b>	<b>0.49</b>	
MW-9	09/09/10	0.37	--	--	--	--	--	<b>2.00</b>	--	
MW-9	11/15/10	0.39	--	--	--	--	--	--	--	
MW-9	03/01/11	0.00	--	--	--	--	--	--	--	
MW-9	05/24/11	0.00	<b>18.00</b>	--	--	<0.050	<0.25	<b>3.60</b>	<b>0.10</b>	
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	<b>0.13</b>	--	--	<0.050	<b>0.38</b>	<b>5.30</b>	<0.10	
MW-9	04/10/13	--	<b>6.1</b>	--	--	<0.050	<b>0.88 *</b>	<b>3.2</b>	<0.10	
MW-9	06/24/13	--	--	--	--	--	<0.25	<b>5.3</b>	<b>0.11</b>	Baseline monitoring event
MW-9	07/30/13	--	<b>14</b>	<b>2.0</b>	<0.30	--	<0.25	<b>72</b>	<b>0.077 J</b>	
MW-9	10/03/13	0.00	<b>18</b>	<b>3.8</b>	<b>1.5</b>	--	<0.50 *	<b>8.6</b>	<0.10	
MW-9	01/22/14	9.46	--	--	--	--	--	<b>26</b>	<0.10	
MW-12R	06/01/09	0.36	--	--	--	--	--	--	--	

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-12R	06/08/10	0.19	--	--	--	--	--	--	--	
MW-12R	05/23/11	0.55	--	--	--	--	--	--	<b>0.0050</b>	
MW-12R	06/01/12	0.00	--	--	--	--	--	--	<b>0.0050</b>	
MW-12R	04/09/13	--	--	--	--	--	--	--	<0.10	
MW-13R	06/01/09	0.49	--	--	--	--	--	--	--	
MW-13R	06/08/10	0.00	--	--	--	--	--	--	--	
MW-13R	05/23/11	0.18	--	--	--	--	--	--	<b>0.0050</b>	
MW-13R	Abandoned on 5/25/2012									
MW-14	02/13/02	1.40	<b>2.80</b>	--	--	<b>22.00</b>	<0.25	<b>21.00</b>	<b>0.30</b>	
MW-14	05/21/02	4.00	<b>6.20</b>	--	--	<b>22.00</b>	<0.25	<b>11.00</b>	<b>0.60</b>	
MW-14	08/29/02	2.20	<b>5.90</b>	--	--	<b>20.00</b>	<0.25	<b>52.00</b>	<b>0.70</b>	
MW-14	11/05/02	2.40	<b>11.00</b>	--	--	<b>23.00</b>	<0.25	<b>39.00</b>	<b>0.80</b>	
MW-14	02/20/03	1.90	<b>3.50</b>	--	--	<b>20.00</b>	<0.25	<b>35.00</b>	<b>0.80</b>	
MW-14	06/11/03	1.50	<b>2.90</b>	--	--	<b>19.00</b>	<0.25	<b>4.30</b>	<b>0.40</b>	
MW-14	09/16/03	1.30	<b>0.86</b>	--	--	<b>15.00</b>	<0.25b	<b>0.89</b>	<b>0.50</b>	
MW-14	11/20/03	3.70	<b>0.57</b>	--	--	<b>4.90</b>	<b>0.57a</b>	<b>31.00</b>	<0.1	
MW-14	02/24/04	4.30	<b>2.40</b>	--	--	<b>19.00</b>	<0.25b	<b>0.60</b>	<b>0.60</b>	
MW-14	05/11/04	0.10	<b>2.30</b>	--	--	<b>19.00</b>	<0.25	<0.50	<0.10	
MW-14	08/26/04	1.01	<b>2.90</b>	--	--	<b>13.00</b>	<0.25	<b>47.00</b>	<b>0.38</b>	
MW-14	12/15/04	2.88	<b>4.50</b>	--	--	<b>0.13</b>	<b>4.80</b>	<b>110.00</b>	<0.10	
MW-14	03/09/05	2.99	<b>6.80</b>	--	--	<b>12.00</b>	<b>0.62</b>	<b>41.00</b>	<b>0.30</b>	
MW-14	06/08/05	2.00	<b>4.30</b>	--	--	<b>15.00</b>	<0.25	<b>18.00</b>	<b>0.40</b>	
MW-14	09/21/05	2.00	<b>7.60</b>	--	--	<b>19.00</b>	<0.25	<b>8.20</b>	<b>0.36</b>	
MW-14	12/14/05	2.10	<b>8.90</b>	--	--	<b>9.50</b>	<0.25	<b>21.00</b>	<0.10	
MW-14	03/14/06	2.10	<b>1.50</b>	--	--	<b>7.90</b>	<0.25	<b>33.00</b>	<b>0.12</b>	
MW-14	06/07/06	1.50	<b>1.50</b>	--	--	<b>11.00</b>	<0.25	<b>16.00</b>	<b>1.10</b>	
MW-14	09/13/06	1.80	<b>6.80</b>	--	--	<b>14.00</b>	<0.25	<b>1.70</b>	<b>0.22</b>	
MW-14	12/13/06	2.20	<b>2.20</b>	--	--	<b>5.80</b>	<b>0.36</b>	<b>25.00</b>	<0.10	
MW-14	03/27/07	2.70	--	--	--	--	--	--	--	
MW-14	06/20/07	3.40	<b>2.90</b>	--	--	<b>7.50</b>	<0.25	<b>4.90</b>	<b>0.79</b>	
MW-14	09/24/07	3.10	--	--	--	--	--	--	--	
MW-14	12/11/07	1.76	--	--	--	--	--	--	--	
MW-14	03/04/08	1.10	--	--	--	--	--	--	--	
MW-14	06/04/08	2.70	<b>2.00</b>	--	--	<b>3.40</b>	<0.25	<b>8.90</b>	<b>0.58</b>	
MW-14	09/08/08	0.69	--	--	--	--	--	--	--	
MW-14	12/05/08	0.45	--	--	--	--	--	--	--	
MW-14	03/04/09	0.81	--	--	--	--	--	--	--	

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-14	06/02/09	0.89	<b>0.15</b>	--	--	<b>0.12</b>	<b>2.50</b>	<b>34.00</b>	<0.10	
MW-14	09/21/09	0.92	--	--	--	--	--	--	--	
MW-14	11/17/09	1.01	--	--	--	--	--	--	--	
MW-14	03/08/10	0.32	--	--	--	--	--	--	--	
MW-14	06/08/10	0.25	<b>0.72</b>	--	--	<b>0.18</b>	<0.25	<b>8.50</b>	<0.10	
MW-14	09/10/10	0.32	--	--	--	--	--	--	--	
MW-14	11/15/10	0.35	--	--	--	--	--	--	--	
MW-14	03/01/11	0.020	--	--	--	--	--	--	--	
MW-14	05/24/11	0.00	<b>0.18</b>	--	--	<b>0.10</b>	<b>0.25</b>	<b>14.00</b>	<b>0.10</b>	
MW-14	08/29/11	0.19	--	--	--	--	--	--	--	
MW-14	12/01/11	0.31	--	--	--	--	--	--	--	
MW-14	03/01/12	1.10	--	--	--	--	--	--	--	
MW-14	05/31/12	0.00	<b>0.086</b>	--	--	<0.050	<0.25	<b>10.00</b>	<0.10	
MW-14	04/09/13	--	<b>0.25</b>	--	--	<0.050	<b>0.46 *</b>	<b>9.2</b>	<0.10	
MW-14	10/03/13	0.00	--	--	--	--	--	--	--	
MW-14	01/22/14	5.98	--	--	--	--	--	--	--	
MW-16	06/02/09	1.48	--	--	--	--	--	--	--	
MW-16	06/09/10	1.11	--	--	--	--	--	--	--	
MW-16	05/23/11	1.34	--	--	--	--	--	--	--	
MW-16	05/31/12	0.020	--	--	--	--	--	--	--	
MW-18	03/27/07	3.20	--	--	--	--	--	--	--	
MW-18	09/24/07	3.20	--	--	--	--	--	--	--	
MW-18	12/11/07	3.40	--	--	--	--	--	--	--	
MW-18	03/04/08	1.50	--	--	--	--	--	--	--	
MW-18	06/04/08	3.10	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-18	08/30/11	0.28	--	--	--	--	--	--	--	
MW-18	12/02/11	0.57	--	--	--	--	--	--	--	
MW-18	03/02/12	0.57	--	--	--	--	--	--	--	
MW-18	05/31/12	0.00	--	--	--	--	--	--	--	
MW-18	10/02/13	0.00	--	--	--	--	--	--	--	
MW-18	01/22/14	5.50	--	--	--	--	--	--	--	
MW-19	02/13/02	3.50	<b>13.00</b>	--	--	<b>22.00</b>	<0.25	<b>0.43</b>	<b>0.60</b>	
MW-19	05/21/02	3.20	<b>15.00</b>	--	--	<b>13.00</b>	<0.25	<b>0.39</b>	<b>0.50</b>	
MW-19	08/29/02	0.90	<b>13.00</b>	--	--	<b>19.00</b>	<0.25	<0.25	<b>0.60</b>	
MW-19	11/05/02	2.70	<b>10.00</b>	--	--	<b>19.00</b>	<0.25	<0.25	<b>0.40</b>	
MW-19	02/20/03	3.20	<b>13.00</b>	--	--	<b>43.00</b>	<0.25	<b>23.00</b>	<b>0.50</b>	
MW-19	06/11/03	0.50	<b>16.00</b>	--	--	<b>37.00</b>	<0.25	<b>11.00</b>	<b>0.40</b>	
MW-19	09/16/03	1.40	<b>18.00</b>	--	--	<b>30.00</b>	<0.25b	<b>5.20</b>	<b>0.70</b>	
MW-19	11/20/03	4.80	<b>18.00</b>	--	--	<b>49.00</b>	<0.25a	<b>10.00</b>	<b>0.50</b>	
MW-19	02/24/04	2.10	<b>20.00</b>	--	--	<b>39.00</b>	<0.25b	<b>1.80</b>	<b>0.60</b>	
MW-19	05/11/04	0.60	<b>17.00</b>	--	--	<b>30.00</b>	<0.25	<b>0.98</b>	<b>0.24</b>	
MW-19	08/26/04	2.83	<b>15.00</b>	--	--	<b>15.00</b>	<0.25	<0.50	<b>0.20</b>	
MW-19	12/15/04	3.89	<b>21.00</b>	--	--	<b>44.00</b>	<0.25	<b>31.00</b>	<b>0.22</b>	
MW-19	03/09/05	3.42	<b>22.00</b>	--	--	<b>25.00</b>	<0.25	<b>5.30</b>	<b>0.26</b>	
MW-19	06/08/05	0.89	<b>15.00</b>	--	--	<b>18.00</b>	<0.25	<b>12.00</b>	<b>0.60</b>	
MW-19	06/07/06	1.70	<b>18.00</b>	--	--	<b>7.90</b>	<0.25	<0.50	<b>0.55</b>	
MW-19	09/13/06	2.10	<b>19.00</b>	--	--	<b>10.00</b>	<0.25	<0.50	<b>1.30</b>	
MW-19	12/13/06	3.90	<b>19.00</b>	--	--	<b>30.00</b>	<0.25	<b>16.00</b>	<b>0.43</b>	
MW-19	03/27/07	2.50	--	--	--	--	--	--	--	
MW-19	06/20/07	1.90	<b>23.00</b>	--	--	<b>9.30</b>	<0.25	<0.50	<b>0.19</b>	
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	<b>21.00</b>	--	--	<b>7.00</b>	<0.25	<b>0.86</b>	<b>0.46</b>	
MW-19	09/08/08	1.02	--	--	--	--	--	--	--	
MW-19	12/05/08	0.27	--	--	--	--	--	--	--	
MW-19	03/04/09	0.52	--	--	--	--	--	--	--	
MW-19	06/02/09	0.37	<b>28.00</b>	--	--	<b>6.30</b>	<0.25	<0.50	<b>0.18</b>	
MW-19	09/21/09	0.35	--	--	--	--	--	--	--	
MW-19	11/17/09	0.86	--	--	--	--	--	--	--	
MW-19	03/08/10	0.69	--	--	--	--	--	--	--	
MW-19	06/08/10	0.00	<b>27.00</b>	--	--	<b>10.00</b>	<0.25	<0.50	<0.10	

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-19	09/09/10	0.41	--	--	--	--	<0.25	<b>39.00</b>	--	
MW-19	11/15/10	0.35	--	--	--	--	--	--	--	
MW-19	03/01/11	0.00	--	--	--	--	--	--	--	
MW-19	05/24/11	0.69	<b>28.00</b>	--	--	<b>1.70</b>	<0.25	<b>3.80</b>	<b>0.11</b>	
MW-19	08/29/11	0.21	--	--	--	--	--	--	--	
MW-19	12/01/11	0.41	--	--	--	--	--	--	--	
MW-19	03/01/12	0.26	--	--	--	--	--	--	--	
MW-19	05/31/12	0.00	<b>13.00</b>	--	--	<b>10.00</b>	<0.25	<0.50	<b>0.21</b>	
MW-19	04/09/13	--	<b>27</b>	--	--	<b>7.5</b>	<0.25 *	<0.50	<0.10	
MW-19	06/21/13	--	--	--	--	--	<0.25 *	<0.50	<b>0.13</b>	Baseline monitoring event
MW-19	10/03/13	0.00	--	--	--	--	--	--	--	
MW-19	01/22/14	<b>7.20</b>	--	--	--	--	--	<b>620</b>	<0.10	
MW-20	02/13/02	0.40	<b>8</b>	--	--	<b>6.6</b>	<b>0.25</b>	<b>9.70</b>	<0.1	
MW-20	05/20/02	2.30	<b>16</b>	--	--	<b>4.1</b>	<0.25	<b>7.70</b>	<b>0.1</b>	
MW-20	08/29/02	2.60	<b>12</b>	--	--	<b>5.4</b>	<0.25	<b>7.90</b>	<b>0.3</b>	
MW-20	11/06/02	5.70	<b>0.10</b>	--	--	<b>4.2</b>	<0.25	<b>610.00</b>	<b>0.3</b>	
MW-20	06/11/03	15.00	<0.01	--	--	<b>7.30</b>	<0.25	<b>2200.00</b>	<b>0.2</b>	
MW-20	09/17/03	14.00	<0.010	--	--	<b>2.00</b>	<0.25a	<b>1800.00</b>	<b>0.5</b>	
MW-20	11/20/03	13.00	<b>0.15</b>	--	--	<b>1.70</b>	<0.25a	<b>1900.00</b>	<0.1	
MW-20	02/25/04	14.00	<b>0.026</b>	--	--	<b>0.34</b>	<0.25b	<b>2100.00</b>	--**	
MW-20	05/11/04	7.50	<b>0.048</b>	--	--	<b>0.29</b>	<0.25	<b>2100.00</b>	<0.10	
MW-20	08/26/04	2.00	<b>16.00</b>	--	--	<b>140.00</b>	<0.25	<b>970.00</b>	<0.10	
MW-20	12/15/04	3.34	<b>0.71</b>	--	--	<b>27.00</b>	<0.25	<b>550.00</b>	<b>0.28</b>	
MW-20	03/09/05	2.82	<b>0.25</b>	--	--	<b>18.00</b>	<0.25	<b>470.00</b>	<0.10	
MW-20	06/08/05	2.50	<b>10.00</b>	--	--	<b>18.00</b>	<0.25	<b>480.00</b>	<b>0.20</b>	
MW-20	12/14/05	3.20	<b>0.28</b>	--	--	<b>15.00</b>	<0.25	<b>250.00</b>	<b>0.21</b>	
MW-20	03/14/06	3.20	<b>0.98</b>	--	--	<b>5.50</b>	<0.25	<b>56.00</b>	<0.10	
MW-20	06/07/06	1.00	<b>15.00</b>	--	--	<b>7.40</b>	<0.25	<b>68.00</b>	<0.10	
MW-20	09/13/06	2.50	<b>23.00</b>	--	--	<b>17.00</b>	<0.25	<b>110.00</b>	<0.10	
MW-20	12/13/06	2.30	<b>3.3</b>	--	--	<b>2.30</b>	<0.25	<b>69.00</b>	<0.10	
MW-20	06/20/07	4.10	--	--	--	--	--	--	--	
MW-20	06/05/08	2.30	--	--	--	--	--	--	--	
MW-20	06/02/09	0.40	--	--	--	--	--	--	--	
MW-20	06/09/10	0.00	--	--	--	--	--	--	--	
MW-20	05/23/11	0.00	--	--	--	--	--	--	--	
MW-20	05/31/12	0.00	--	--	--	--	--	--	--	

**Table 3**
**Groundwater Natural Attenuation Parameters**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-21	02/19/03	6.90	<b>0.061</b>	--	--	<b>1.9</b>	<0.25	<b>1400</b>	<0.1	
MW-21	11/20/03	0.90	<b>0.013</b>	--	--	<b>2.80</b>	<0.25a	<b>17.00</b>	<b>0.5</b>	
MW-21	02/26/04	1.00	<b>12.00</b>	--	--	<b>17.00</b>	<0.25b	<b>12.00</b>	<b>0.9</b>	
MW-21	05/11/04	1.80	<b>4.70</b>	--	--	<b>12.00</b>	<0.25	<b>0.92</b>	<0.10	
MW-21	08/26/04	2.80	<b>2.00</b>	--	--	<b>1.80</b>	<0.25	<0.50	<b>0.13</b>	
MW-21	03/09/05	0.99	<b>4.30</b>	--	--	<b>9.80</b>	<0.25	<0.50	<0.10	
MW-21	06/08/05	3.50	<b>1.80</b>	--	--	<b>11.00</b>	<0.25	<b>1.20</b>	<b>0.5</b>	
MW-21	09/21/05	2.40	<b>15.00</b>	--	--	<b>7.20</b>	<0.25	<0.50	<b>0.14</b>	
MW-21	12/14/05	1.20	<b>18.00</b>	--	--	<b>0.19</b>	<0.25	<b>5.30</b>	<b>0.18</b>	
MW-21	03/14/06	1.20	<0.010	--	--	<b>0.10</b>	<0.25	<b>3.20</b>	<0.10	
MW-21	06/07/06	1.20	<b>1.70</b>	--	--	<b>9.90</b>	<0.25	<b>2.30</b>	<b>0.37</b>	
MW-21	03/27/07	0.90	--	--	--	--	--	--	--	
MW-21	06/20/07	2.10	<b>9.10</b>	--	--	<b>4.20</b>	<0.25	<0.50	<0.10	
MW-21	09/24/07	2.50	--	--	--	--	--	--	--	
MW-21	12/11/07	2.60	--	--	--	--	--	--	--	
MW-21	03/04/08	2.50	--	--	--	--	--	--	--	
MW-21	06/04/08	2.80	<b>14.00</b>	--	--	<b>7.40</b>	<0.25	<0.50	<b>0.13</b>	
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	<b>7.10</b>	--	--	<b>4.00</b>	<0.25	<b>3.90</b>	<b>0.23</b>	
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	<b>0.85</b>	--	--	<b>0.11</b>	<b>ND</b>	<b>4.30</b>	<b>0.10</b>	
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	<b>0.24</b>	--	--	<b>0.092</b>	<0.25	<b>5.70</b>	<b>0.22</b>	
MW-21	04/10/13	--	<b>0.62</b>	--	--	<0.050	<b>0.70 *</b>	<b>4.2</b>	<0.10	
MW-21	10/03/13	0.00	--	--	--	--	--	--	--	
MW-21	01/22/14	8.32	--	--	--	--	--	--	--	
MW-22	02/13/02	6.70	<b>0.3</b>	--	--	<b>10</b>	<0.25	<b>6.40</b>	<0.1	
MW-22	05/21/02	4.40	<b>1.2</b>	--	--	<b>9.1</b>	<0.25	<b>1.70</b>	<b>0.2</b>	
MW-22	08/29/02	0.70	<b>2.4</b>	--	--	<b>9.1</b>	<0.25	<b>2.20</b>	<b>0.2</b>	



**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-22	11/05/02	1.60	1.1	--	--	5.6	<0.25	99.00	0.2	
MW-22	02/19/03	2.10	<0.01	--	--	4.7	<0.25	120	0.1	
MW-22	06/10/03	1.30	0.087	--	--	5.00	0.64	110.00	0.5	
MW-22	09/16/03	2.40	2.0	--	--	55.00	<0.25b	230.00	1.6	
MW-22	11/19/03	6.60	0.056	--	--	2.30	<0.25b	100.00	0.4	
MW-22	02/25/04	8.20	<0.01	--	--	2.40	0.38b	43.00	0.4	
MW-22	05/11/04	5.10	<0.010	--	--	0.48	0.87	36.00	<0.10	
MW-22	08/25/04	2.72	1.4	--	--	2.70	0.33	59.00	--*b	
MW-22	12/14/04	1.35	3.2	--	--	5.50	1.20	65.00	<0.10	
MW-22	03/10/05	1.40	0.38	--	--	9.20	0.49	23.00	0.61	
MW-22	06/07/05	4.20	0.53	--	--	6.30	<0.25	25.00	0.7	
MW-22	09/20/05	3.70	0.86	--	--	27.00	<0.25	24.00	0.16	
MW-22	12/13/05	2.10	3.8	--	--	12.00	<0.25	25.00	3.0	
MW-22	03/15/06	2.10	0.033	--	--	4.40	<0.25	14.00	<0.10	
MW-22	06/08/06	2.60	0.62	--	--	4.50	<0.25	17.00	0.19	
MW-22	09/12/06	2.60	2.2	--	--	4.50	<0.25	19.00	0.11	
MW-22	12/12/06	0.90	0.010	--	--	2.20	<0.25	7.3	<0.10	
MW-22	06/19/07	1.80	--	--	--	--	--	--	--	
MW-22	06/04/08	2.60	--	--	--	--	--	--	--	
MW-22	06/02/09	0.50	--	--	--	--	--	--	--	
MW-22	06/09/10	0.00	--	--	--	--	--	--	--	
MW-22	09/09/10	0.36	--	--	--	--	--	<0.50	--	
MW-22	05/23/11	0.00	--	--	--	--	--	--	--	
MW-22	05/31/12	0.00	--	--	--	--	--	--	--	
MW-23	02/25/04	1.60	12	--	--	15	<0.25b	13.00	0.4	
MW-23	05/12/04	1.80	13	--	--	19	<0.25	3.60	0.16	
MW-23	08/26/04	1.41	10	--	--	14	<0.25	21.00	0.11	
MW-23	12/13/05	2.30	16	--	--	1.2	<0.25	<0.50	0.25	
MW-23	03/15/06	2.30	17	--	--	20	<0.25	<0.50	0.23	
MW-23	06/08/06	1.10	18	--	--	18	<0.25	<0.50	0.20	
MW-23	12/12/06	1.90	27	--	--	27	<0.25	<0.50	0.24	
MW-23	03/27/07	2.40	--	--	--	--	--	--	--	
MW-23	06/19/07	1.20	13	--	--	18	<0.25	<1.0	0.19	
MW-23	09/25/07	2.90	--	--	--	--	--	--	--	
MW-23	12/11/07	2.77	--	--	--	--	--	--	--	
MW-23	03/04/08	2.40	--	--	--	--	--	--	--	
MW-23	06/04/08	1.70	12	--	--	63	<0.25	1.0	0.48	

**Table 3**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-23	12/04/08	0.53	--	--	--	--	--	--	--	
MW-23	03/04/09	0.80	--	--	--	--	--	--	--	
MW-23	06/02/09	0.42	<b>9.5</b>	--	--	<b>17</b>	<0.25	<b>57</b>	<b>0.92</b>	
MW-23	09/21/09	0.60	--	--	--	--	--	--	--	
MW-23	11/16/09	0.43	--	--	--	--	--	--	--	
MW-23	03/08/10	0.26	--	--	--	--	--	--	--	
MW-23	06/08/10	0.15	<b>11.00</b>	--	--	<b>22.00</b>	<0.25	<b>4.20</b>	<b>0.52</b>	
MW-23	09/10/10	3.49	--	--	--	--	--	--	--	
MW-23	11/16/10	0.46	--	--	--	--	--	--	--	
MW-23	03/02/11	0.00	--	--	--	--	--	--	--	
MW-23	05/24/11	0.33	<b>14.00</b>	--	--	<b>31.00</b>	<0.25	<b>0.80</b>	<b>0.10</b>	
MW-23	08/30/11	1.10	--	--	--	--	--	--	--	
MW-23	12/02/11	0.89	--	--	--	--	--	--	--	
MW-23	03/02/12	0.65	--	--	--	--	--	--	--	
MW-23	05/30/12	0.00	<b>5.50</b>	--	--	<b>41.00</b>	<0.25	<b>74.00</b>	<b>0.38</b>	
MW-23	04/10/13	--	<b>1.9</b>	--	--	<b>92</b>	<0.25	<b>1,000</b>	<0.10	
MW-23	10/02/13	0.00	--	--	--	--	--	--	--	
MW-23	01/21/14	5.42	--	--	--	--	--	--	--	
MW-24	02/25/04	1.70	<b>15</b>	--	--	<b>22</b>	<0.25b	<b>6.40</b>	<b>0.3</b>	
MW-24	03/15/06	--	<b>25</b>	--	--	<b>46</b>	<0.25	<0.50	<b>0.23</b>	
MW-24	06/08/06	1.60	<b>7.6</b>	--	--	<b>9.1</b>	<0.25	<0.50	<b>0.42</b>	
MW-24	12/12/06	2.30	<b>16</b>	--	--	<b>3.2</b>	<0.25	<0.50	<b>0.31</b>	
MW-24	03/27/07	2.20	--	--	--	--	--	--	--	
MW-24	06/19/07	1.40	<b>15</b>	--	--	<b>68</b>	<0.25	<0.50	<b>1.7</b>	
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	<b>15</b>	--	--	<b>17</b>	<0.25	<b>7.4</b>	<b>0.85</b>	
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	<b>12</b>	--	--	<b>37</b>	<0.25	<0.50	<0.10	
MW-24	09/21/09	0.77	--	--	--	--	--	--	--	
MW-24	11/16/09	0.78	--	--	--	--	--	--	--	
MW-24	03/08/10	0.29	--	--	--	--	--	--	--	
MW-24	06/08/10	0.00	<b>12.00</b>	--	--	<b>35.00</b>	<0.25	<0.50	<b>0.23</b>	
MW-24	09/10/10	3.70	--	--	--	--	--	--	--	

### Table 3

#### Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-24	11/16/10	0.47	--	--	--	--	--	--	--	
MW-24	03/02/11	0.00	--	--	--	--	--	--	--	
MW-24	05/24/11	0.53	<b>12.00</b>	--	--	<b>26.00</b>	<0.25	<b>0.78</b>	<b>0.11</b>	
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	<b>7.50</b>	--	--	<b>31.00</b>	<0.25	<b>2.40</b>	<b>0.15</b>	
MW-24	04/10/13	--	<b>19</b>	--	--	<b>35</b>	<0.25	<b>1.0</b>	<0.10	
MW-24	10/02/13	0.00	--	--	--	--	--	--	--	
MW-24 (DUP-1)	01/22/14	0.00	--	--	--	--	--	--	--	
MW-25	02/26/04	1.30	<b>1.5</b>	--	--	<b>27</b>	<0.25b	<b>120.00</b>	<b>0.9</b>	
MW-25	05/12/04	1.90	<b>2.0</b>	--	--	<b>12</b>	<0.25	<b>140.00</b>	<b>0.10</b>	
MW-25	08/26/04	1.78	<b>1.7</b>	--	--	<b>5.4</b>	<0.25	<b>380.00</b>	<b>0.13</b>	
MW-25	12/14/04	2.10	<b>0.40</b>	--	--	<b>2.7</b>	<0.25	<b>370.00</b>	<0.10	
MW-25	03/10/05	2.10	<b>2.0</b>	--	--	<b>3.5</b>	<0.25	<b>180.00</b>	<b>0.21</b>	
MW-25	06/07/05	1.75	<b>2.2</b>	--	--	<b>4.7</b>	<0.25	<b>160.00</b>	<b>0.7</b>	
MW-25	09/20/05	1.30	<b>0.91</b>	--	--	<b>1.8</b>	<0.25	<b>270.00</b>	<b>0.12</b>	
MW-25	12/13/05	2.50	<b>1.8</b>	--	--	<b>1.8</b>	<0.25	<b>140.00</b>	<b>0.23</b>	
MW-25	03/15/06	2.50	<b>0.92</b>	--	--	<b>4.6</b>	<0.25	<b>210.00</b>	<b>0.38</b>	
MW-25	06/08/06	1.20	<b>1.9</b>	--	--	<b>6.5</b>	<0.25	<b>120.00</b>	<b>0.13</b>	
MW-25	09/12/06	1.80	<b>0.84</b>	--	--	<b>5.9</b>	<0.25	<b>250.00</b>	<0.10	
MW-25	12/12/06	2.10	<b>1.6</b>	--	--	<b>15</b>	<0.25	<b>400.00</b>	<0.10	
MW-25	06/19/07	2.10	--	--	--	--	--	--	--	
MW-25	06/04/08	2.40	--	--	--	--	--	--	--	
MW-25	06/02/09	0.62	--	--	--	--	--	--	--	
MW-25	06/09/10	0.00	--	--	--	--	--	--	--	
MW-25	05/25/11	1.17	--	--	--	--	--	--	--	
MW-25	06/01/12	0.00	--	--	--	--	--	--	--	
SH-02	12/20/00	--	<b>5.40</b>	--	--	<b>0.86</b>	<b>0.040</b>	<b>14.00</b>	<b>0.32</b>	
SH-02		Destroyed during construction activities								
SH-02R	02/13/02	1.20	<0.01	--	--	<b>0.60</b>	<0.25	<b>9.70</b>	<b>0.20</b>	
SH-02R	05/21/02	4.50	<b>3.50</b>	--	--	<b>8.10</b>	<0.25	<b>6.70</b>	<0.1	
SH-02R	08/28/02	1.50	<b>4.90</b>	--	--	<b>17.00</b>	<0.25	<b>3.80</b>	<0.1	
SH-02R	11/05/02	2.10	<b>6.10</b>	--	--	<b>20.00</b>	<0.25	<b>13.00</b>	<0.1	
SH-02R	02/19/03	2.50	<b>0.29</b>	--	--	<b>2.40</b>	<b>0.33</b>	<b>10.00</b>	<b>0.60</b>	
SH-02R	06/10/03	1.30	<b>1.40</b>	--	--	<b>5.10</b>	<0.25	<b>6.80</b>	<b>0.30</b>	

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 2720 13th Avenue Southwest  
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
SH-02R	09/16/03	1.90	<b>5.20</b>	--	--	<b>19.00</b>	<0.25b	<b>5.10</b>	<b>0.40</b>	
SH-02R	11/19/03	1.10	<b>1.50</b>	--	--	<b>4.60</b>	<b>0.34b</b>	<b>7.10</b>	<b>0.20</b>	
SH-02R	02/25/04	3.40	<b>5.00</b>	--	--	<b>14.00</b>	<b>0.46b</b>	<b>5.20</b>	<b>0.40</b>	
SH-02R	05/12/04	2.00	<b>3.20</b>	--	--	<b>7.40</b>	<0.25	<b>4.40</b>	<0.10	
SH-02R	08/26/04	2.24	<b>2.10</b>	--	--	<b>3.80</b>	<0.25	<b>5.80</b>	<0.10	
SH-02R	12/15/04	1.98	<b>0.092</b>	--	--	<b>0.055</b>	<b>0.44</b>	<b>100.00</b>	<0.10	
SH-02R	03/09/05	1.59	<b>0.38</b>	--	--	<b>1.50</b>	<0.25	<b>380.00</b>	<0.10	
SH-02R	06/08/05	1.00	<b>1.20</b>	--	--	<b>0.11</b>	<0.25	<b>110.00</b>	<0.2	
SH-02R	09/21/05	1.50	<b>4.40</b>	--	--	<b>0.72</b>	<0.25	<b>31.00</b>	<0.10	
SH-02R	12/14/05	0.70	<b>2.20</b>	--	--	<b>0.28</b>	<0.25	<b>11.00</b>	<0.10	
SH-02R	03/14/06	0.70	<b>0.42</b>	--	--	<b>1.40</b>	<0.25	<b>25.00</b>	<0.10	
SH-02R	06/07/06	0.90	<b>3.10</b>	--	--	<b>4.40</b>	<0.25	<b>20.00</b>	<0.10	
SH-02R	09/13/06	1.70	<b>3.90</b>	--	--	<b>5.50</b>	<0.25	<b>24.00</b>	<0.10	
SH-02R	12/13/06	0.90	<b>0.38</b>	--	--	<b>1.30</b>	<b>0.34</b>	<b>10.00</b>	<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	--	--	--	--	--	--	<b>0.0050</b>	
SH-02R	06/01/12	0.00	--	--	--	--	--	--	<b>0.0050</b>	
SH-02R	04/09/13	--	--	--	--	--	--	--	<0.10	
SH-05	12/20/00	--	<b>0.010</b>	--	--	<b>1.80</b>	<b>0.14</b>	<b>6.00</b>	<0.01	
SH-05R	05/21/02	3.90	<b>1.50</b>	--	--	<b>10.00</b>	<0.25	<b>16.00</b>	<b>0.30</b>	
SH-05R	08/28/02	1.40	<b>1.00</b>	--	--	<b>11.00</b>	<0.25	<b>1.40</b>	<b>0.50</b>	
SH-05R	11/05/02	1.50	<b>1.20</b>	--	--	<b>17.00</b>	<0.25	<b>6.30</b>	<0.1	
SH-05R	02/19/03	2.60	<b>2.90</b>	--	--	<b>32.00</b>	<0.25	<b>28.00</b>	<0.1	
SH-05R	06/10/03	1.40	<b>1.50</b>	--	--	<b>33.00</b>	<0.25	<b>2.80</b>	<b>0.60</b>	
SH-05R	09/16/03	1.20	<b>1.60</b>	--	--	<b>41.00</b>	<0.25b	<b>0.46</b>	<b>0.90</b>	
SH-05R	11/19/03	3.10	<b>1.60</b>	--	--	<b>36.00</b>	<0.25b	<b>71.00</b>	<b>0.50</b>	
SH-05R	02/25/04	2.50	<b>0.56</b>	--	--	<b>0.087</b>	<b>0.76b</b>	<b>120.00</b>	<b>0.20</b>	
SH-05R	05/12/04	1.12	<b>2.10</b>	--	--	<b>16.00</b>	<0.25	<b>4.60</b>	<0.10	
SH-05R	08/26/04	1.96	<b>2.00</b>	--	--	<b>6.40</b>	<0.25	<b>0.63</b>	<0.10	
SH-05R	12/15/04	2.80	<b>3.70</b>	--	--	<b>26.00</b>	<0.25	<b>26.00</b>	<0.10	
SH-05R	03/09/05	2.56	<b>3.40</b>	--	--	<b>2.00</b>	<0.25	<b>7.50</b>	<0.10	
SH-05R	06/08/05	2.50	<b>3.80</b>	--	--	<b>19.00</b>	<0.25	<b>30.00</b>	<0.2	
SH-05R	09/21/05	0.80	<b>3.10</b>	--	--	<b>9.10</b>	<0.25	<0.50	<0.10	
SH-05R	12/14/05	2.30	<b>5.40</b>	--	--	<b>23.00</b>	<0.25	<b>16.00</b>	<0.10	

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 2720 13th Avenue Southwest  
 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
SH-05R	03/14/06	2.30	<b>0.11</b>	--	--	<b>0.087</b>	<0.25	<b>35.00</b>	<0.10	
SH-05R	06/07/06	1.20	<b>1.90</b>	--	--	<b>8.40</b>	<b>0.34</b>	<b>21.00</b>	<0.10	
SH-05R	09/13/06	1.40	<b>2.20</b>	--	--	<b>7.40</b>	<0.25	<0.50	<0.10	
SH-05R	12/13/06	2.70	<b>0.14</b>	--	--	<b>0.11</b>	<b>2.10</b>	<b>100.00</b>	<0.10	
SH-05R	06/20/07	0.90	--	--	--	--	--	--	--	
SH-05R	06/05/08	2.90	--	--	--	--	--	--	--	
SH-05R	06/02/09	1.01	--	--	--	--	--	--	--	
SH-05R	06/08/10	0.00	--	--	--	--	--	--	--	
SH-05R	05/23/11	1.39	--	--	--	--	--	--	<b>0.0050</b>	
MW-07R	02/13/02	3.00	<b>0.078</b>	--	--	<b>5.00</b>	<0.25	<b>8.30</b>	<b>0.20</b>	
MW-07R	05/21/02	3.50	<b>0.22</b>	--	--	<b>3.50</b>	<0.25	<b>3.80</b>	<b>0.20</b>	
MW-07R	08/28/02	1.60	<b>0.17</b>	--	--	<b>6.90</b>	<0.25	<b>9.00</b>	<b>0.10</b>	
MW-07R	11/05/02	1.60	<b>0.16</b>	--	--	<b>12.00</b>	<0.25	<b>2.70</b>	<0.1	
MW-07R	09/16/03	1.40	<b>0.26</b>	--	--	<b>26.00</b>	<0.25b	<b>9.10</b>	<b>1.60</b>	
MW-07R	11/19/03	2.20	<b>0.017</b>	--	--	<b>4.90</b>	<b>0.77b</b>	<b>14.00</b>	<b>0.30</b>	
MW-07R	02/25/04	2.10	<0.01	--	--	<b>1.80</b>	<b>0.42b</b>	<b>5.70</b>	<b>0.30</b>	
MW-07R	05/12/04	2.49	<0.010	--	--	<b>2.20</b>	<b>0.74</b>	<b>3.40</b>	<0.10	
MW-07R	08/26/04	2.05	<b>0.011</b>	--	--	<b>0.12</b>	<0.25	<b>12.00</b>	<0.10	
MW-07R	12/15/04	2.00	<b>0.034</b>	--	--	<b>1.40</b>	<b>0.36</b>	<b>10.00</b>	<0.10	
MW-07R	03/09/05	2.15	<b>0.030</b>	--	--	<b>4.20</b>	<0.25	<b>120.00</b>	<0.10	
MW-07R	06/08/05	1.98	<0.010	--	--	<b>0.25</b>	<b>0.89</b>	<b>5.70</b>	<0.2	
MW-07R	09/21/05	2.80	<b>0.13</b>	--	--	<0.050	<0.25	<b>15.00</b>	<0.10	
MW-07R	12/14/05	1.50	<0.010	--	--	<0.050	<b>0.29</b>	<b>5.70</b>	<0.10	
MW-07R	03/14/06	1.50	<b>0.23</b>	--	--	<b>2.30</b>	<b>0.51</b>	<b>8.90</b>	<0.10	
MW-07R	06/07/06	2.20	<0.010	--	--	<b>0.28</b>	<b>2.40</b>	<b>3.90</b>	<0.10	
MW-07R	09/13/06	1.20	<b>0.26</b>	--	--	<b>3.40</b>	<0.25	<b>8.50</b>	<0.10	
MW-07R	12/13/06	1.90	<0.010	--	--	<0.050	<b>1.90</b>	<b>23.00</b>	<0.10	
MW-07R	06/20/07	1.70	--	--	--	--	--	--	--	
MW-07R	06/05/08	1.90	--	--	--	--	--	--	--	
MW-07R	06/02/09	1.29	--	--	--	--	--	--	--	
MW-07R	06/08/10	1.11	--	--	--	--	--	--	--	
MW-07R	05/23/11	3.20	--	--	--	--	--	--	<b>0.0050</b>	
MW-07R	06/01/12	1.03	--	--	--	--	--	--	<b>0.0050</b>	
MW-07R	04/09/13	--	--	--	--	--	--	--	<0.10	
TMW-B1	06/09/10	1.06	--	--	--	--	--	<b>3.60</b>	--	
TMW-B1	09/09/10	0.25	--	--	--	--	--	<0.50	--	
TMW-B1	05/25/11	1.51	--	--	--	--	--	--	--	

### Table 3

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
TMW-B1	12/02/11	0.33	--	--	--	--	--	--	--	
TMW-B1	03/01/12	0.30	--	--	--	--	--	--	--	
TMW-B1	10/02/13	0.00	--	--	--	--	--	--	--	
TMW-1	06/21/13	--	--	--	--	--	<b>0.41 *</b>	<b>11</b>	<0.10	Baseline monitoring event
TMW-1	07/30/13	--	<b>0.075</b>	<b>10</b>	<0.30	--	<b>0.28</b>	<b>1,900</b>	<0.10	
TMW-1	10/03/13	2.92	<b>0.081</b>	<b>13</b>	<b>5.2</b>	--	<0.50 *	<b>980</b>	<0.10	
TMW-1	01/22/14	9.27	--	--	--	--	--	<b>450</b>	<0.10	
TMW-2	06/21/13	--	--	--	--	--	<0.25 *	<b>0.83</b>	<0.10	Baseline monitoring event
TMW-2	07/30/13	--	<b>17</b>	<b>29</b>	<b>1.2</b>	--	<0.25	<b>6.4</b>	<0.10	
TMW-2	10/03/13	0.00	<b>15</b>	<b>160</b>	<b>110</b>	--	<0.50 *	<b>2,000</b>	<0.10	
TMW-2	01/22/14	6.12	--	--	--	--	--	<b>3,000</b>	<0.10	
TMW-3	06/24/13	--	--	--	--	--	<0.25	<b>4.4</b>	<0.10	Baseline monitoring event
TMW-3	07/30/13	--	<b>2.6</b>	<b>10</b>	<0.30	--	<0.25	<b>3.1</b>	<0.10	
TMW-3	10/03/13	0.00	<b>3.8</b>	<b>43</b>	<b>18</b>	--	<0.50 *	<b>1,100</b>	<0.10	
TMW-3	01/22/14	0.00	--	--	--	--	--	<b>3,800</b>	<0.10	
TMW-4	06/24/13	--	--	--	--	--	<0.25	<b>32</b>	<b>0.11</b>	Baseline monitoring event
TMW-4	07/30/13	--	<b>13</b>	<b>24</b>	<b>5.0</b>	--	<b>0.48</b>	<b>1.4</b>	<b>0.11</b>	
TMW-4	10/03/13	0.00	<b>16</b>	<b>410</b>	<b>17</b>	--	<b>0.36 J*</b>	<b>2,800</b>	<0.10	
TMW-4	01/22/14	0.00	--	--	--	--	--	<b>2,800</b>	<0.10	
TMW-5	06/21/13	--	--	--	--	--	<0.25 *	<b>4.3</b>	<0.10	Baseline monitoring event
TMW-5	07/30/13	--	<b>7.6</b>	<b>11</b>	<0.30	--	<0.25	<b>0.67</b>	<b>0.25</b>	
TMW-5	10/03/13	0.00	<b>5.6</b>	<b>39</b>	<b>16</b>	--	<0.50 *	<b>2,500</b>	<b>0.10</b>	
TMW-5	01/22/14	7.18	--	--	--	--	--	<b>2,600</b>	<b>0.10</b>	
TMW-6	06/24/13	--	--	--	--	--	<0.25	<b>16</b>	<b>0.14</b>	Baseline monitoring event
TMW-6	07/30/13	--	<b>5.4</b>	<b>13</b>	<b>2.4</b>	--	<0.25	<b>5.0</b>	<b>0.14</b>	
TMW-6	10/03/13	0.00	<b>5.6</b>	<b>290</b>	<b>250</b>	--	<0.50 *	<b>1,700</b>	<0.10	
TMW-6	01/22/14	3.60	--	--	--	--	--	<b>2,300</b>	<0.10	

### Table 3

#### Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
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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)	Total Iron	Dissolved Iron	Nitrate	Sulfate	Sulfide	TPH- Gasoline	TPH-Diesel	Benzene	Toluene	Ethylbenzene	Xylenes
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
11	06/24/13	--	--	--	<0.25	<b>2.5</b>	<0.10	<0.25	<b>0.30</b>	<0.00050	<0.00050	<0.00050	<0.00050
11	07/30/13	<b>0.42</b>	<b>1.0</b>	<0.30	<0.25	<b>0.88</b>	<0.10	<0.25	--	--	--	--	--
11	08/26/13	--	--	--	--	<b>0.71</b>	--	<0.25	--	--	--	--	--
11	10/03/13	<b>0.046</b>	<b>5.2</b>	<b>0.78</b>	<b>1.2 *</b>	<b>560</b>	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
11	01/22/14	--	--	--	--	<b>120</b>	<0.10	--	--	<0.00050	<0.00050	<0.00050	<0.00050
12	06/24/13	--	--	--	<0.25	<0.50	<0.10	<b>4.1</b>	<b>5.3</b>	<b>0.037</b>	<b>0.045</b>	<b>0.130</b>	<b>0.530</b>
12	07/30/13	--	--	--	--	--	--	--	--	--	--	--	--
12	08/26/13	--	--	--	--	<b>1,900</b>	--	<b>9.3</b>	--	--	--	--	--
12	10/03/13	<b>2.2</b>	<b>39</b>	<b>35</b>	<b>1.1 *</b>	<b>5,500</b>	<0.10	<b>2.7</b>	--	<b>0.002</b>	<b>0.0057</b>	<b>0.043</b>	<b>0.180</b>
12	01/22/14	--	--	--	--	<b>3,000</b>	<0.10	<b>2.7</b>	--	<b>0.0020</b>	<b>0.0057</b>	<b>0.043</b>	<b>0.180</b>
A-27	06/21/13	--	--	--	<0.25 *	<b>2.7</b>	<0.10	<b>1.0</b>	<b>0.40</b>	<b>0.053</b>	<b>0.0024</b>	<b>0.043</b>	<b>0.0083</b>
A-27	07/30/13	--	--	--	--	--	--	<b>1.5</b>	--	<b>0.058</b>	<b>0.0033</b>	<b>0.040</b>	<b>0.015</b>
A-27	07/30/13	<b>6.2</b>	<b>16</b>	<b>3.6</b>	<b>16</b>	<0.50	<0.10	<b>1.8</b>	--	<b>0.073</b>	<b>0.0039</b>	<b>0.051</b>	<b>0.017</b>
A-27	08/26/13	--	--	--	--	<0.50	--	<b>1.9</b>	--	--	--	--	--
A-27	08/26/13	--	--	--	--	--	--	<b>2.1</b>	--	--	--	--	--
A-27	10/02/13	<b>7.4</b>	<b>14</b>	<b>3.6</b>	<0.50 *	<0.50	<0.10	<b>1.9</b>	--	<b>0.066</b>	<b>0.0041</b>	<b>0.038</b>	<b>0.021</b>
A-27	01/22/14	--	--	--	--	<0.50	<0.10	<b>2.6</b>	--	<b>0.078</b>	<b>0.0042</b>	<b>0.061</b>	<b>0.062</b>
MW-7	06/21/13	--	--	--	<0.25 *	<b>3.2</b>	<0.10	<b>4.0</b>	<b>0.27</b>	<b>0.0059</b>	<b>0.064</b>	<b>0.280</b>	<b>1.1</b>
MW-7	07/30/13	<b>20</b>	<b>4.6</b>	<0.30	<0.25	<b>4.1</b>	<0.10	<b>7.2</b>	--	<b>0.016</b>	<b>0.110</b>	<b>0.290</b>	<b>1.6</b>
MW-7	08/26/13	--	--	--	--	<b>1,100</b>	--	<b>7.1</b>	--	--	--	--	--
MW-7	10/03/13	<b>20</b>	<b>170</b>	<b>140</b>	<b>0.81 *</b>	<b>3,100</b>	<0.10	<b>2.8</b>	--	<b>0.016</b>	<b>0.033</b>	<b>0.150</b>	<b>0.540</b>
MW-7	01/22/14	--	--	--	--	<b>2,100</b>	<b>0.23</b>	<b>2.1</b>	--	<b>0.014</b>	<b>0.010</b>	<b>0.130</b>	<b>0.170</b>
MW-9	06/24/13	--	--	--	<0.25	<b>5.3</b>	<b>0.11</b>	<b>0.33</b>	<b>0.37</b>	<b>0.014</b>	<0.0005	<0.0005	<b>0.0035</b>
MW-9	07/30/13	<b>14</b>	<b>2.0</b>	< <b>0.30</b>	<0.25	<b>72</b>	<0.10	<b>0.27</b>	--	<b>0.0017</b>	<0.00050	<b>0.00071</b>	<b>0.0060</b>
MW-9	08/26/13	--	--	--	--	<b>4.3</b>	--	<b>0.42</b>	--	--	--	--	--
MW-9	10/03/13	<b>18</b>	<b>3.8</b>	<b>1.5</b>	<0.50 *	<b>8.6</b>	<0.10	<b>0.30</b>	--	<b>0.0056</b>	<0.00050	<0.00050	<b>0.0092</b>
MW-9	01/22/14	--	--	--	--	<b>26</b>	<0.10	<0.25	--	<0.0050	<0.00050	<0.00050	<b>0.0013</b>



# Table 4



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

Sample ID	Date	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	TPH- Gasoline mg/l	TPH-Diesel mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
MW-19	06/21/13	--	--	--	<0.25 *	<0.50	0.13	2.8	1.1	0.019	0.017	0.310	0.081
MW-19	07/30/13	--	--	--	--	--	--	4.4	--	0.0086	0.005	0.160	0.013
MW-19	08/26/13	--	--	--	--	<0.50	--	2.3	--	--	--	--	--
MW-19	10/03/13	--	--	--	--	--	--	3.2	--	0.0076	0.0023	0.046	0.0020
MW-19	01/22/14	--	--	--	--	620	--	2.2	--	0.021	0.00065	0.029	<0.00050
TMW-1	06/21/13	--	--	--	0.41 *	11	<0.10	<0.25	<0.25	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	07/30/13	0.075	10	<0.30	0.28	1,900	<0.10	<0.25	--	--	--	--	--
TMW-1	08/26/13	--	--	--	--	470	--	<0.25	--	--	--	--	--
TMW-1	10/03/13	0.081	13	5.20	<0.50 *	980	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	01/22/14	--	--	--	--	450	<0.10	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-2	06/21/13	--	--	--	<0.25 *	0.83	<0.10	0.25	0.28	0.0075	0.00097	<0.0005	0.00068
TMW-2	07/30/13	17	29	1.2	<0.25	6.4	<0.10	0.26	--	--	--	--	--
TMW-2	08/26/13	--	--	--	--	61	--	0.64	--	--	--	--	--
TMW-2	10/03/13	15	160	110	<0.50 *	2,000	<0.10	0.50	--	0.013	0.00074	<0.00050	0.0024
TMW-2	01/22/14	--	--	--	--	2,000	<0.10	0.28	--	0.011	<0.00050	<0.00050	<0.00050
TMW-3	06/24/13	--	--	--	<0.25	4.4	<0.10	0.86	0.85	<0.0005	0.00052	<0.0005	0.00087
TMW-3	07/30/13	2.6	10	<0.30	<0.25	3.1	<0.10	0.98	--	--	--	--	--
TMW-3	08/26/13	--	--	--	--	37	--	1.2	--	--	--	--	--
TMW-3	10/03/13	3.8	43	18	<0.50 *	1,100	<0.10	0.92	--	0.00057	0.00180	0.0076	0.0072
TMW-3	01/22/14	--	--	--	--	3,800	<0.10	0.75	--	<0.0010o	0.0022	<0.0010o	<0.0010o
TMW-4	06/24/13	--	--	--	<0.25	32	0.11	4.9	2.5	0.170	0.084	0.230	0.950
TMW-4	07/30/13	13	24	5	0.48	1.4	0.11	5.1	--	--	--	--	--
TMW-4	08/26/13	--	--	--	--	2,200	--	9.2	--	--	--	--	--
TMW-4	10/03/13	16	410	17	<0.50 *	2,800	<0.10	4.7	--	0.130	0.120	0.290	1.300
TMW-4	01/22/14	--	--	--	--	2,800	<0.10	6.0	--	0.210	0.070	0.400	0.990
TMW-5	06/21/13	--	--	--	<0.25 *	4.3	<0.10	1.3	0.65	0.100	0.0097	0.022	0.020
TMW-5	07/30/13	7.6	11	<0.30	<0.25	0.67	0.25	4.3	--	--	--	--	--
TMW-5	08/26/13	--	--	--	--	980	--	4.2	--	--	--	--	--
TMW-5	10/03/13	5.6	39	16	<0.50 *	2,500	0.10	1.9	--	0.044	0.0063	0.0038	0.0088

# Table 4



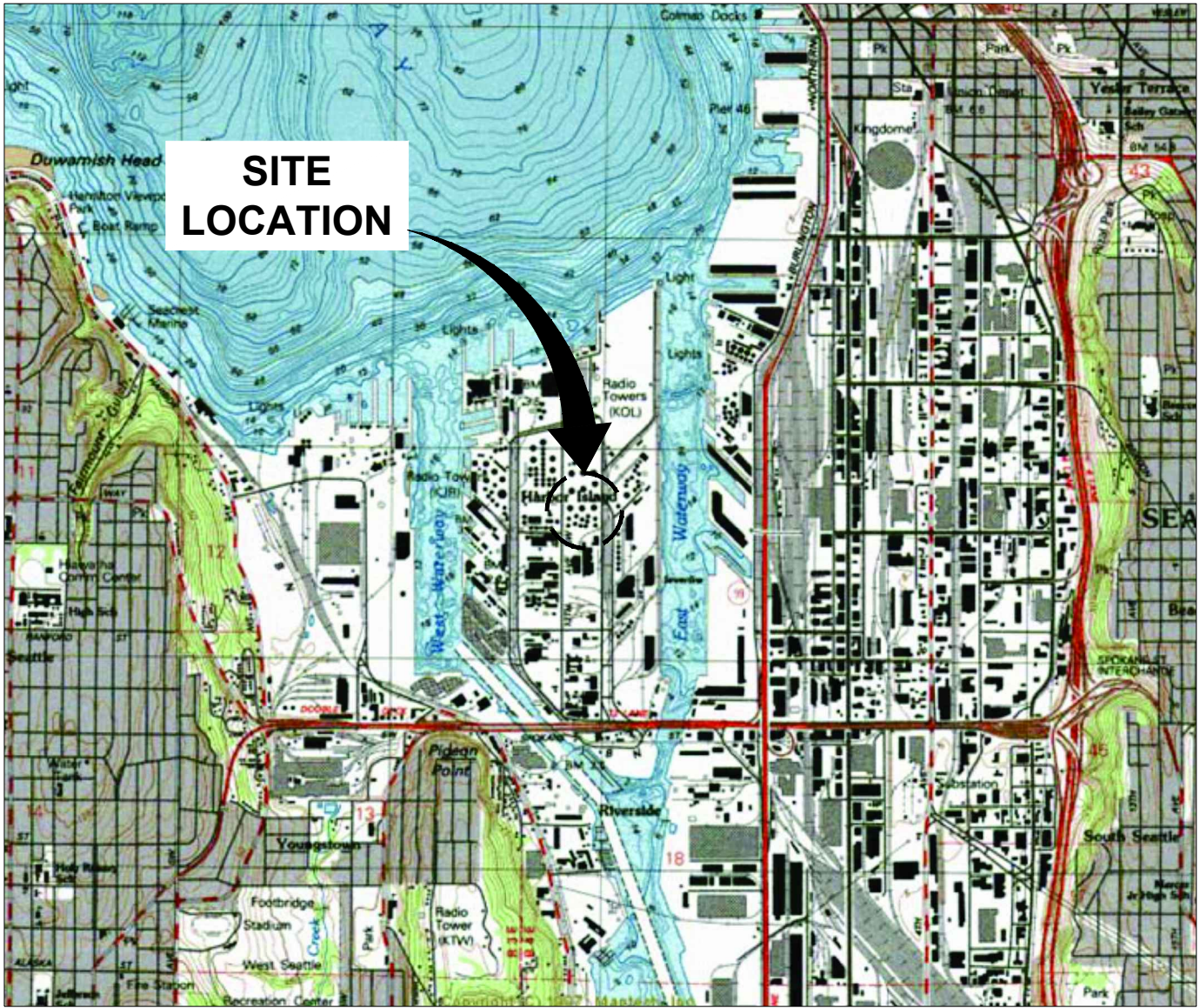
**Performance Monitoring Parameters**  
 Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal  
 2720 13th Avenue Southwest  
 Seattle, Washington

Sample ID	Date	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	TPH- Gasoline mg/l	TPH-Diesel mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
TMW-5	01/22/14	--	--	--	--	<b>2,600</b>	<b>0.10</b>	<b>1.9</b>	--	<b>0.0039</b>	<b>0.0031</b>	<b>0.0012</b>	<b>0.0023</b>
TMW-6	06/24/13	--	--	--	<0.25	<b>16</b>	<b>0.14</b>	<b>4.9</b>	<b>1.8</b>	<b>0.067</b>	<b>0.0099</b>	<b>0.150</b>	<b>0.550</b>
TMW-6	07/30/13	<b>5.4</b>	<b>13</b>	<b>2.4</b>	<0.25	<b>5.0</b>	<b>0.14</b>	<b>7.8</b>	--	--	--	--	--
TMW-6	08/26/13	--	--	--	--	<b>340</b>	--	<b>8.5</b>	--	--	--	--	--
TMW-6	10/03/13	<b>5.6</b>	<b>290</b>	<b>250</b>	<0.50 *	<b>1,700</b>	<0.10	<b>5.4</b>	--	<b>0.028</b>	<b>0.010</b>	<b>0.180</b>	<b>0.420</b>
TMW-6	01/22/14	--	--	--	--	<b>2,300</b>	<0.10	<b>7.0</b>	--	<b>0.060</b>	<b>0.010</b>	<b>0.280</b>	<b>0.530</b>

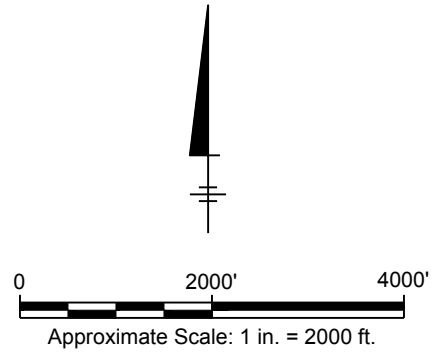
Notes: < = Denotes compound was not detected at designated detection limit.  
**Bold** = Concentration detected above the laboratory reporting limit.  
 mg/l = Milligrams per liter (parts per million)  
 -- = Not analyzed for this parameter  
 \* = The lab analyzed nitrate using sulfuric acid preserved samples. Concentration may be biased high due to possible oxidation of nitrite to nitrate.  
 o = Reporting limit increased due to sample foaming

**Figures**

CITY:(Read) DIV/GRP:(Read) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)ON="OFF"=REF:  
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WA000804 USGS.jpg



REFERENCE: BASE MAP USGS 7.5. MINUTE TOPOGRAPHIC MAP  
SEATTLE SOUTH, WASHINGTON 1083



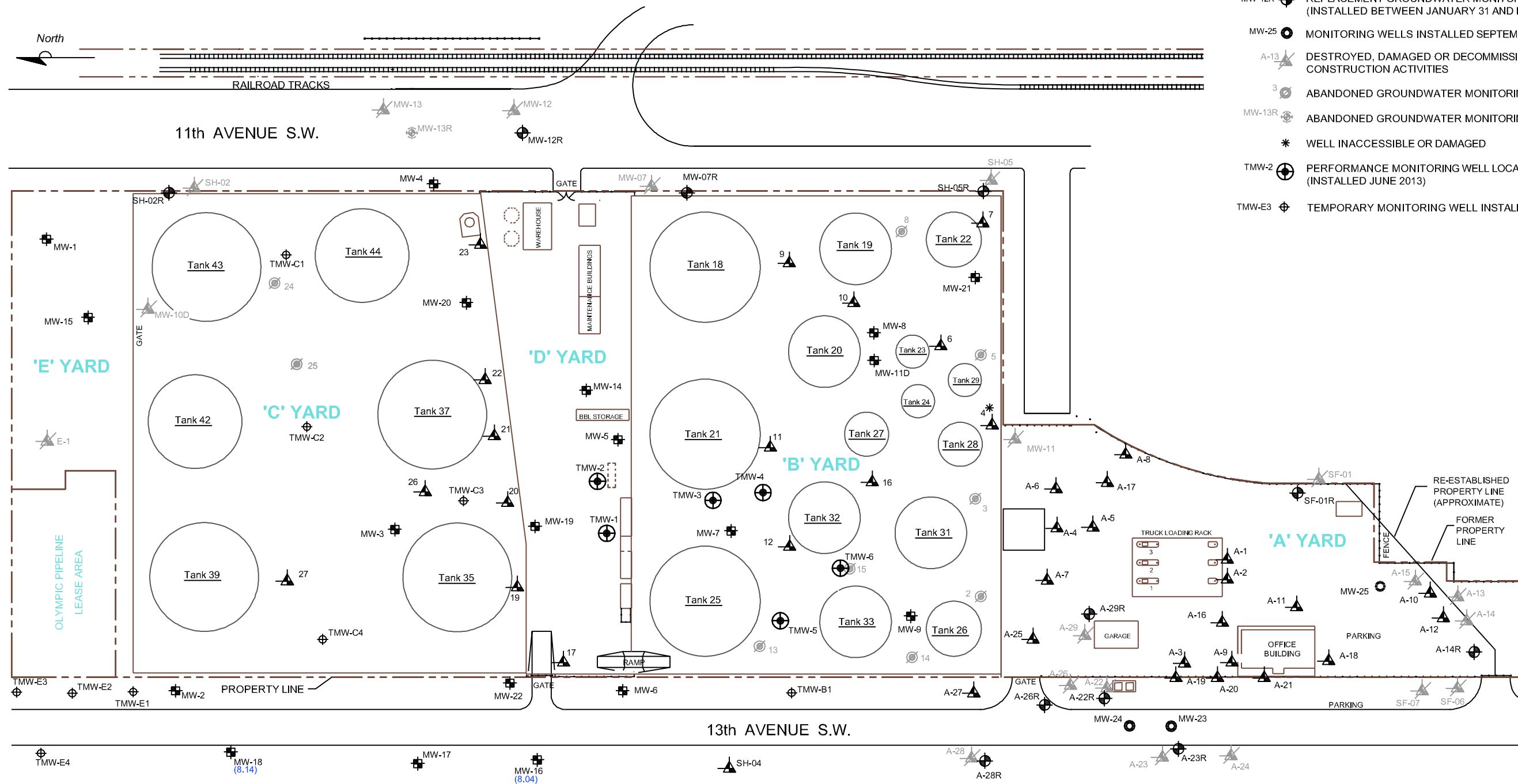
KINDER MORGAN LIQUID TERMINALS, LLC  
HARBOR ISLAND TERMINAL  
2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**FIRST QUARTER 2014**  
**GROUNDWATER MONITORING REPORT**

**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 ABANDONED GROUNDWATER MONITORING WELL, JUNE 2003
- MW-13R ABANDONED GROUNDWATER MONITORING WELL, MAY 2012
- \* WELL INACCESSIBLE OR DAMAGED
- TMW-2 PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3 TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013



KINDER MORGAN LIQUID TERMINALS, LLC  
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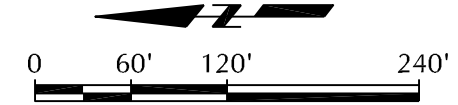
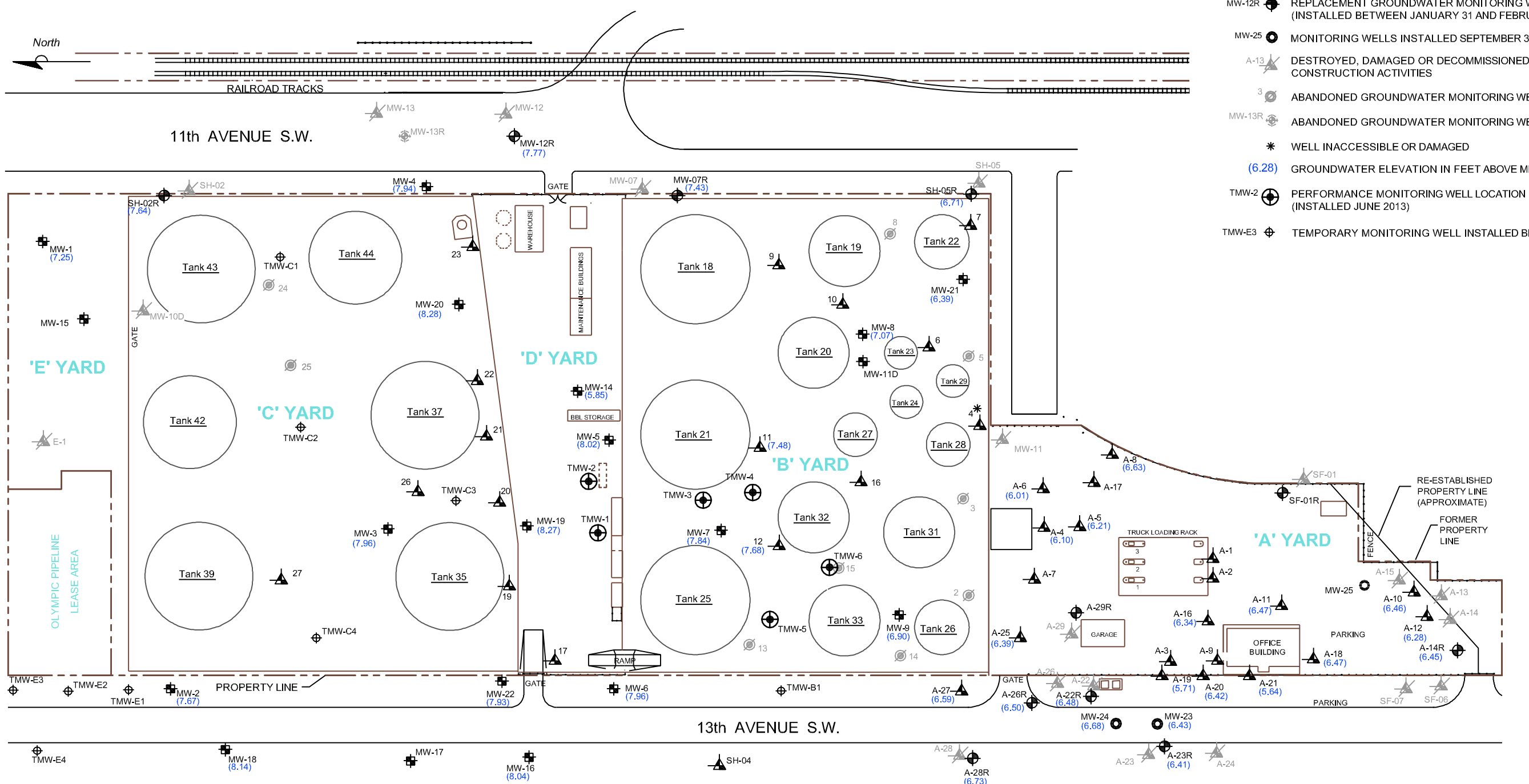
**SITE PLAN**



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**LEGEND**

- SH-02 GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
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- MW-13R ABANDONED GROUNDWATER MONITORING WELL, MAY 2012
- \* WELL INACCESSIBLE OR DAMAGED
- (6.28) 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



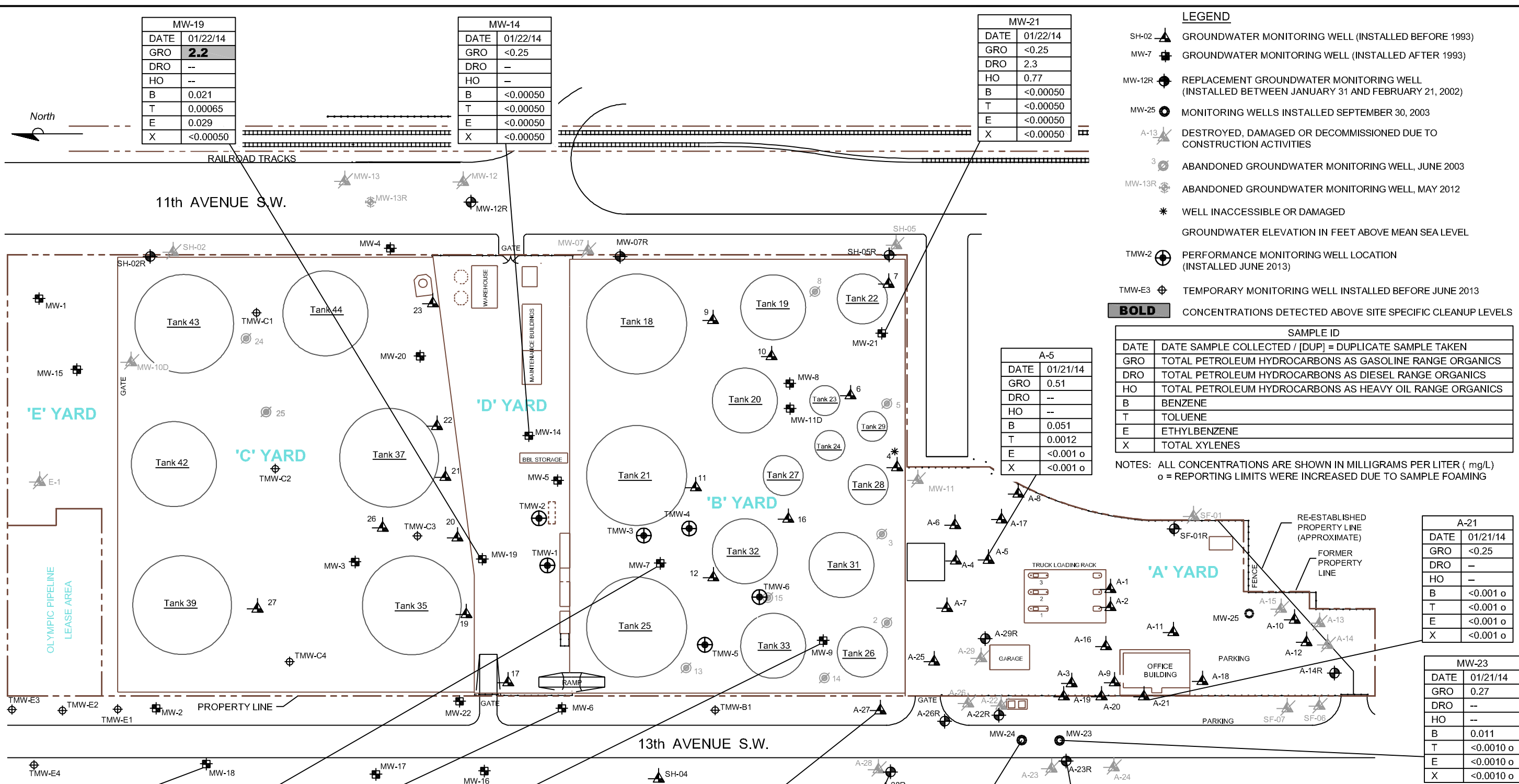
KINDER MORGAN LIQUID TERMINALS, LLC  
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**FIRST QUARTER 2014**  
**GROUNDWATER MONITORING REPORT**

**GROUNDWATER ELEVATION MAP**  
**JANUARY 21, 2014**

**ARCADIS**

FIGURE  
**3**

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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)
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- 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)  
 ○ = REPORTING LIMITS WERE INCREASED DUE TO SAMPLE FOAMING

MW-19	
DATE	01/22/14
GRO	<b>2.2</b>
DRO	--
HO	--
B	0.021
T	0.00065
E	0.029
X	<0.00050

MW-14	
DATE	01/22/14
GRO	<0.25
DRO	--
HO	--
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

MW-21	
DATE	01/22/14
GRO	<0.25
DRO	2.3
HO	0.77
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

A-5	
DATE	01/21/14
GRO	0.51
DRO	--
HO	--
B	0.051
T	0.0012
E	<0.001 o
X	<0.001 o

MW-18	
DATE	01/22/14
GRO	<0.25
DRO	--
HO	--
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

MW-7	
DATE	01/22/14
GRO	<b>2.1</b>
DRO	--
HO	--
B	0.014
T	0.010
E	0.130
X	0.170

MW-6	
DATE	01/22/14
GRO	<0.25
DRO	--
HO	--
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

MW-9	
DATE	01/22/14
GRO	<0.25
DRO	--
HO	--
B	<0.00050
T	<0.00050
E	<0.00050
X	0.0013

A-27	
DATE	01/22/14
GRO	<b>2.6</b>
DRO	--
HO	--
B	<b>0.078</b>
T	0.0042
E	0.061
X	0.062

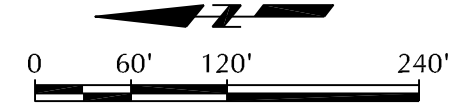
A-28R	
DATE	01/22/14
GRO	<b>1.4</b>
DRO	--
HO	--
B	<b>0.170</b>
T	0.0027
E	0.0060
X	0.0033

MW-24	
DATE	01/22/14
GRO	<b>3.1 / [2.2]</b>
DRO	--
HO	--
B	<b>0.088 / [0.056]</b>
T	0.0034 / [0.0026]
E	0.180 / [0.120]
X	0.330 / [0.200]

A-23R	
DATE	01/21/14
GRO	<0.25
DRO	--
HO	--
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

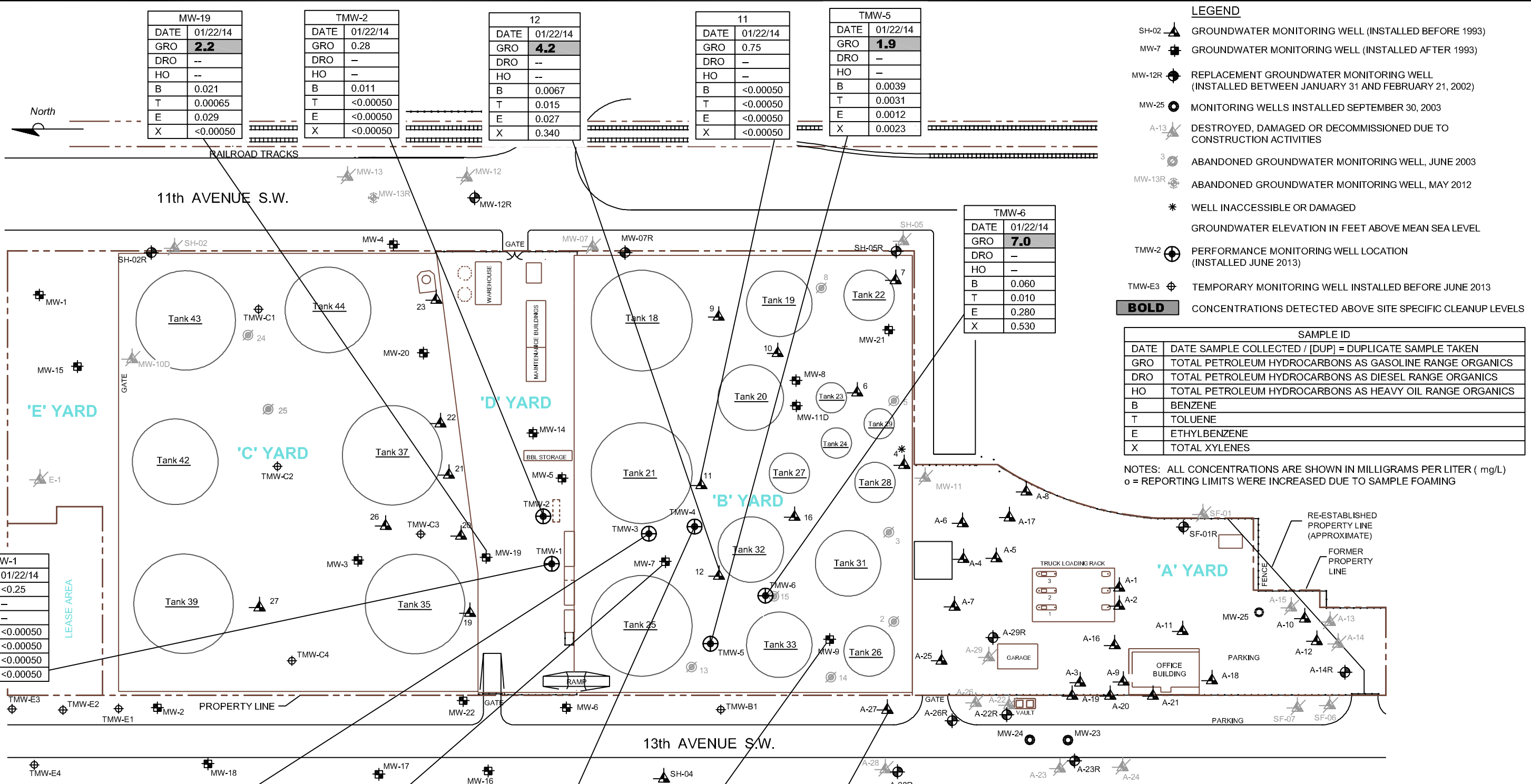
A-21	
DATE	01/21/14
GRO	<0.25
DRO	--
HO	--
B	<0.001 o
T	<0.001 o
E	<0.001 o
X	<0.001 o

MW-23	
DATE	01/21/14
GRO	0.27
DRO	--
HO	--
B	0.011
T	<0.0010 o
E	<0.0010 o
X	<0.0010 o



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

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**LEGEND**

- SH-02 ▲ GROUNDWATER MONITORING WELL (INSTALLED BEFORE 1993)
- MW-7 ■ GROUNDWATER MONITORING WELL (INSTALLED AFTER 1993)
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- 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)  
 o = REPORTING LIMITS WERE INCREASED DUE TO SAMPLE FOAMING

<b>TMW-1</b>	
DATE	01/22/14
GRO	<0.25
DRO	--
HO	--
B	<0.00050
T	<0.00050
E	<0.00050
X	<0.00050

<b>TMW-3</b>	
DATE	01/22/14
GRO	0.75
DRO	--
HO	--
B	<0.0010 o
T	0.0022
E	<0.00100
X	<0.00100

<b>MW-7</b>	
DATE	01/22/14
GRO	<b>2.1</b>
DRO	--
HO	--
B	0.014
T	0.010
E	0.030
X	0.170

<b>TMW-4</b>	
DATE	01/22/14
GRO	<b>6.0</b>
DRO	--
HO	--
B	<b>0.210</b>
T	0.070
E	0.400
X	0.990

<b>MW-9</b>	
DATE	01/22/14
GRO	<0.25
DRO	--
HO	--
B	<0.00050
T	<0.00050
E	<0.00050
X	0.0013

<b>A-27</b>	
DATE	01/22/14
GRO	<b>2.6</b>
DRO	--
HO	--
B	0.078
T	0.0042
E	0.061
X	0.062

KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**FIRST QUARTER 2014**  
**GROUNDWATER MONITORING REPORT**  
**PERFORMANCE MONITORING**  
**GROUNDWATER ANALYTICAL RESULTS**







**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 160<sup>th</sup> 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 13<sup>th</sup> Avenue Southwest in Seattle, Washington (“the site”). The revisions included in this document supersede those revisions previously proposed in an August 2, 2006 letter to you, and in a second draft dated March 22, 2007. These plan revisions are proposed in accordance with Section 2.3.4 of the Compliance Monitoring Plan (Plan) developed for the site. Further modifications to the Draft Plan were discussed with you by telephone on June 13, 2007, and this Final Proposed Reduced Monitoring Plan incorporates those modifications.

#### **PROPOSED SITE-WIDE COMPLIANCE MONITORING PLAN**

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

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



a member of:



---

4006 148<sup>TH</sup> AVENUE NE REDMOND, WASHINGTON 98052 USA  
PHONE 425.882.3528 / 800.477.7411 FAX 425.869.1892 [WWW.DELTAENV.COM](http://WWW.DELTAENV.COM)

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
<b>ANNUAL TOTAL:</b>	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)
<b>MW-1</b>	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*	
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	
<b>MW-2</b>	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 <sup>sa</sup>
	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*	
<b>12/12/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	
<b>MW-3</b>	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*	
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	
<b>Dup-2<sup>a</sup></b>	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*
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	

**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)
<b>MW-4</b>	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
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>3.7</b>	<b>0.62</b>	<b>0.0012</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>0.0023</b>	<b>NA</b>
<b>MW-5</b>	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*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>0.0088*</b>
<b>MW-6</b>	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*
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>0.00055</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>

**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)
<b>MW-7</b>	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 <sup>sa</sup>
	06/11/03	5.7	8.7	<0.25	0.13	0.092	0.26	0.52	0.081 <sup>sa</sup>
	09/17/03	1.4	12	<0.50	0.078	0.031	0.15	0.089	0.11 <sup>sa</sup>
	11/20/03	0.26	0.8	<0.50	<0.0005	<0.0005	<0.0005	0.035	0.019 <sup>sa</sup>
	02/26/04	15	21	<0.50	0.11	0.34	0.63	3.8	0.034 <sup>sa</sup>
	05/11/04	6.3	11	<0.50	0.059	0.15	0.31	1.3	0.0083 <sup>sa</sup>
	08/26/04	7.1	20	<0.50	0.054	0.22	0.34	1.7	0.067 <sup>sa</sup>
	12/15/04	18	4.4	<0.50	0.14	0.37	0.53	3	0.19 <sup>sa</sup>
	03/09/05	3.5	2.1	<0.50	0.045	0.034	0.09	0.27	0.079 <sup>sa</sup>
	06/08/05	2.9	2.3	<0.50	0.054	0.05	0.11	0.44	0.069 <sup>sa</sup>
	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 <sup>sa</sup>
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 <sup>a</sup>	
<b>12/13/06</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	
<b>MW-8</b>	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*	
<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.82</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>0.0060*</b>	
<b>MW-9</b>	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*	
<b>12/13/06</b>	<b>2.6</b>	<b>3.8</b>	<b>&lt;0.50</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>0.024</b>	<b>0.190</b>	<b>0.025*</b>	



**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)
<b>MW-12</b>	06/20/01	<0.06	1.7	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
<b>MW-12R</b>	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*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.27</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>
<b>MW-13</b>	06/19/01	<0.05	1.3	<0.5	<0.001	<0.001	<0.001	<0.003	<0.004
<b>MW-13R</b>	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*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.33</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0077*</b>

**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)
<b>MW-14</b>	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	
	<b>12/13/06</b>	<b>1.1</b>	<b>1.4</b>	<b>&lt;0.50</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>0.044</b>	<b>0.029</b>	<b>NA</b>
<b>MW-16</b>	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	
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>NA</b>
<b>MW-18</b>	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	
	<b>12/12/06</b>	<b>0.28</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>0.023</b>	<b>0.0018</b>	<b>0.0019</b>	<b>0.0060</b>	<b>NA</b>

**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)
<b>MW-19</b>	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
		<b>12/13/06</b>	<b>8.0</b>	<b>1.4</b>	<b>&lt;0.50</b>	<b>0.016</b>	<b>0.052</b>	<b>0.30</b>	<b>1.4</b>
<b>MW-20</b>	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
		<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>
<b>MW-21</b>	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	
	<b>12/13/06</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>

**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)
<b>MW-22</b>	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 <sup>a</sup>	<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	
<b>12/12/06</b>	<b>&lt;0.25</b>	<b>1.4</b>	<b>&lt;0.50</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>&lt;0.001</b>	<b>NA</b>	
<b>MW-23</b>	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
	<b>12/12/06</b>	<b>8.1</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>1.8</b>	<b>0.020</b>	<b>0.11</b>	<b>0.16</b>	<b>&lt;0.0050*</b>
<b>MW-24</b>	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
	<b>12/12/06</b>	<b>20</b>	<b>1.1</b>	<b>&lt;0.50</b>	<b>1.5</b>	<b>0.037</b>	<b>0.69</b>	<b>3.2</b>	<b>0.0078*</b>
<b>MW-25</b>	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* <sup>a</sup>
	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* <sup>a</sup>
	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*	
<b>12/12/06</b>	<b>&lt;0.25</b>	<b>0.86</b>	<b>&lt;0.50</b>	<b>0.0052</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>	

**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)
<b>A-5</b>	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	
	<b>12/12/06</b>	<b>0.70</b>	<b>0.53</b>	<b>&lt;0.50</b>	<b>0.079</b>	<b>0.0028</b>	<b>&lt;0.001</b>	<b>0.0025</b>	<b>NA</b>
<b>A-8</b>	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	
	<b>12/12/06</b>	<b>0.27</b>	<b>0.87</b>	<b>&lt;0.50</b>	<b>&lt;0.001</b>	<b>0.0011</b>	<b>&lt;0.001</b>	<b>0.0015</b>	<b>NA</b>
<b>A-10</b>	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	
	<b>12/12/06</b>	<b>&lt;0.25</b>	<b>0.98</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>NA</b>

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

**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)
<b>A-27</b>	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
	<b>12/12/06</b>	<b>3.7</b>	<b>0.90</b>	<b>&lt;0.50</b>	<b>0.110</b>	<b>0.0096</b>	<b>0.10</b>	<b>0.12</b>	<b>NA</b>
<b>A-28R</b>	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*
	<b>12/12/06</b>	<b>4.0</b>	<b>0.57</b>	<b>&lt;0.50</b>	<b>0.30</b>	<b>0.0095</b>	<b>0.027</b>	<b>0.028</b>	<b>&lt;0.0050*</b>
<b>SH-02</b>	12/20/00	0.078	<0.25	<0.5	0.001	<0.001	<0.001	<0.003	0.015**
<b>SH-02R</b>	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*
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>0.49</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>

**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)
<b>SH-05</b>	12/20/00	<0.05	1.0	<0.5	<0.001	<0.001	<0.003	<0.001	0.017**
<b>SH-05R</b>	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*
	<b>12/13/06</b>	<b>&lt;0.50</b>	<b>1.9</b>	<b>&lt;0.50</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>&lt;0.0025</b>	<b>&lt;0.0050*</b>
<b>MW-07R</b>	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
	<b>12/13/06</b>	<b>&lt;0.25</b>	<b>&lt;0.25</b>	<b>&lt;0.50</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0005</b>	<b>&lt;0.0050*</b>

**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.  
<sup>a</sup> = Insulating oil range hydrocarbons were reported for MW-22 at concentration of 0.87 ppm.  
 TPH as gasoline - Analysis by Washington Method WTPH-G prior to 5/20/98; analysis by Northwest Method NWTPH-Gx from 5/20/98 through present.  
 TPH as diesel and oil - Analysis by Washington Method WTPH-D+ extended prior to 5/20/98; analysis by Northwest Method NWTPH-Dx from 5/20/98 through present.  
 BTEX Compounds - Analysis by EPA Method 8020 prior to 5/20/98; analysis by EPA Method 8021B from 5/20/98 through present.



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

Well ID	Indicator Hazardous Substances, concentration in mg/L							
	TPH-G	Benzene	Ethylbenzene	Toluene	TPH-D	TPH-O	Total Lead	Dissolved Lead
<b>Cleanup Criteria</b>	<b>1.0</b>	<b>0.071</b>	<b>29.0</b>	<b>200.0</b>	<b>10</b>	<b>10</b>	<b>0.0058</b>	<b>--</b>
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

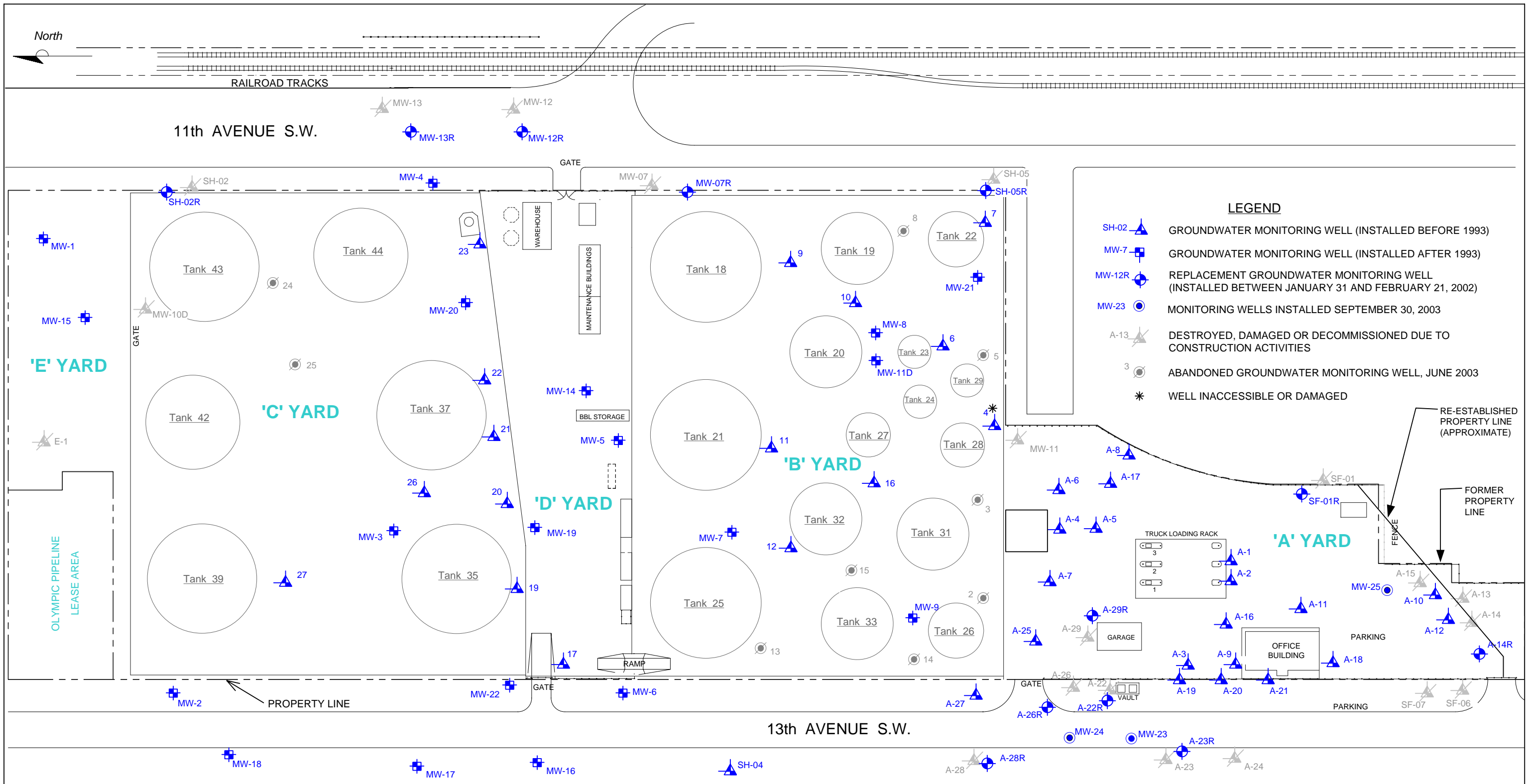
Well ID	Indicator Hazardous Substances				Natural Attenuation Parameters				
	TPH-G/ BTEX	TPH-D/TPH-O	Total Lead	Dissolved Lead	Nitrate (NO3)	Ferrous Iron	Methane	Sulfate (SO4)	Sulfide (H2S)
A-5	Quarterly	Discontinue							
A-8	Annual	Annual							
A-10	Annual	Annual			Discontinue	Discontinue	Discontinue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

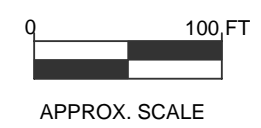
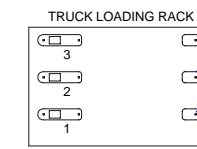
Parameter not analyzed

**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
<b>Annual Total</b>	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 13<sup>th</sup> 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 160<sup>th</sup> 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  $\pm 0.01$  units; specific conductance to  $\pm$  uS/cm (measured specific conductance  $\leq 99$  uS/cm), to  $\pm 10$  uS/cm ( $99$  uS/cm < specific conductance < 1,000 uS/cm), or to  $\pm 100$  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.

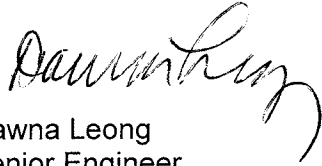
Groundwater samples will be collected after specific conductance and dissolved oxygen measurements are within 10 percent for 3 consecutive readings.

#### Sample Collection

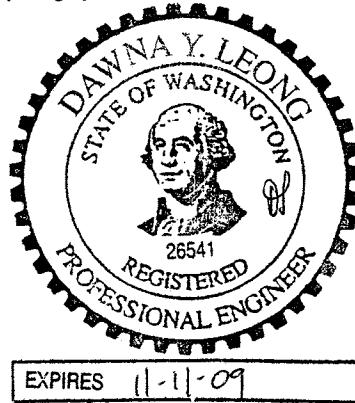
Following purging, samples will be collected for laboratory analyses. Samples will be pumped directly into laboratory-supplied sample containers, and each sample bottle will be labeled with the sample identification number, the sample date, the facility name, and the name of the technician who performed 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: 1/21/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-4	11:15	-- / No	--	0.00	7.12	12.56	PID 26.9 ppm, 0/0 bolts, 4"
A-5	10:56	-- / No	--	0.00	7.92	--	PID 9.6 ppm 0/0 bolts
A-6	11:05	-- / Yes	---	0.00	6.80	--	PID 51.5 ppm Replaced 0/0 bolts, 4" abs. sock
A-8	10:48	-- / Yes	--	0.00	7.98	--	PID 46.0 ppm
A-10	10:32	-- / No	--	0.00	7.05	24.19	PID 0.0 ppm 0/3 bolts, 4"
A-11	10:31	-- / No	--	0.00	7.93	24.60	PID 0.0 ppm 3/3 bolts, 4", 171-02
A-12	10:34	-- / No	--	0.00	6.67	--	PID 6.1 ppm
A-14R	10:25	-- / No	--	0.00	7.76	14.93	PID 0.0 ppm 2/2 bolts, 2"
A-16	10:52	-- / Yes	--	0.00	8.05	13.96	PID 718 ppm 2/3 bolts, 4", NR
A-18	10:21	-- / No	--	0.00	8.27	--	PID 0.0 ppm
A-19	11:57	-- / No	--	0.00	8.86	--	PID 0.0 ppm
A-20	11:52	-- / No	--	0.00	7.77	13.63	PID 0.0 ppm 3/3 bolts, 4"
A-21	12:00	-- / No	--	0.00	8.71	14.49	PID 0.0 ppm 3/3 bolts, 4"
A-22R	12:05	-- / Yes	--	0.00	7.63	--	PID 296 ppm
A-23R	14:10	-- / No	--	0.00	9:16	15.86	PID 0.0 ppm 2/3 bolts 2"
A-25	11:25	-- / Yes	--	0.00	7.51	--	PID 76.8 ppm 0/2 bolts, 4", NR



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date: 1/21/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
A-26R	12:14	-- / Yes	--	0.00	7.69	--	PID 329 ppm
A-27	12:09	-- / Yes	--	0.00	10.63	--	PID: 664 ppm 0/0 bits, 4"
A-28R	12:05	-- / Yes	--	0.00	<del>12.64</del> 8.20	--	PID: <del>664</del> ppm 0/0 bits, 4" 734.2 ppm
11	9:55	-- / No	--	0.00	4.60	--	PID: 0.0 ppm 0/0 bits, 4"
12	9:25	-- / Yes	--	0.00	2.11	7.50	PID: 115 ppm 4"
MW-07R	13:10	-- / No	--	0.00	6.49	12.74	PID: 0.0 ppm 2"
MW-1	13:30	-- / No	--	0.0	5.96	--	PID: 0.1 ppm 4" 2/3 bits
MW-2	13:06	-- / No	--	0.00	7.55	12.55	PID: 3/3 bits, 4"
MW-3	9:06	-- / No	--	0.00	3.43	13.39	PID: 0.0 ppm 1/3 bits, 4"
MW-4	13:20	-- / Yes	--	0.00	6.75	14.16	PID 24.0 ppm 2/2 bits, 4"
MW-5	9:17	-- / No	--	0.00	3.11	--	PID: 0.0 ppm
MW-6	12:34	-- / No	--	0.00	7.21	--	PID: 0.9 ppm
MW-7	7:32	-- / Yes	--	0.00	2.78	13.18	PID: 34.6 ppm 3/3 bits, 4"
MW-8	9:27	-- / No	--	0.00	3.56	--	PID: 0.1 ppm Bent casing
MW-9	9:19	-- / No	--	0.00	2.85	--	PID: 9.7 ppm
MW-12R	13:15	-- / No	--	0.00	7.70	--	PID 0.6 ppm



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date: 01/21/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
MW-14	9:00	-- / No	--	0.00	5.59	--	0.0 ppm PID
MW-16	12:46	-- / No	--	0.00	7.19	--	0.1 ppm, 2/3 wells
MW-18	12:09	-- / No	--	0.00	7.35	--	0.0 ppm 2/3 wells 2"
MW-19	9:08	-- / Yes	--	0.00	3.12	--	4.2 ppm PID
MW-20	8:58	-- / No	--	0.00	3.44	11.82	0.0 ppm PID, 2" 3/3 wells, 16% O <sub>2</sub>
MW-21	9:20	-- / No	--	0.00	3.02	--	0.2 ppm PID
MW-22	12:41	-- / No	--	0.0	8.39	13.30	PID 0.3 ppm 3/3 wells, 2"
MW-23	11:46	-- / Yes	--	0.00	7.72	--	930.7 ppm PID 3/3 wells
MW-24	11:52	-- / Yes	--	0.0	7.66	--	260.5 ppm PID 3/3 wells, 4"
SH-02R	13:25	-- / No	--	0.00	5.76	--	2.4 ppm PID
SH-05R	13:05	-- / No	--	0.00	7.18	--	PID: 0.9 ppm
TMW-B1	12:50	-- / No	--	0.00	7.78	--	PID: 410 ppm
TMW-1	8:30	-- / No	--	0.00	3.46	--	PID: 0.3 ppm 2" 3/3 wells
TMW-2	8:41	-- / No	--	0.00	3.63	--	PID: 0.7 ppm 2" 3/3 wells
TMW-3	9:51	-- / No	--	0.00	3.76	15.71	PID: 1.7 ppm, 2" 3/3 wells 17% O <sub>2</sub>
TMW-4	9:57	-- / Yes	--	0.00	3.45	15.47	PID 96.7 ppm, 2" 3/3 wells



Site ID: KMLT - Harbor Island

Project #: WA000804.0002.00003

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

Date: 1/21/14

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thicknes	DTW	TD	Notes
TMW-5	7:18	--/No	--	0.00	3.22	14.68	PID 53.5 ppm 3/3 bits, 2"
TMW-6	9:30	--/Yes	--	0.00	2.74	--	PID: 2.7 ppm 3/3 bits, 2"



Groundwater Sampling Form

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Project No. WA000804.0002

Well ID A-5

Date 1/21/14

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

Weather overcast, 45°F

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

Casing Diameter (in.) 4

Well Material  PVC  SS

Static Water Level (ft-btoc) 7.72  
Total Depth (ft-btoc) 18.46

Water Column/ Gallons in Well 13.34 / 1.6

Initial PID Reading (ppm) 9.8

TOC Elevator 14.13  
Pump Intake (ft-btoc) Mid-Screen

Purge Method: Low-flow   
Centrifugal   
Submersible   
Other

Sample Method Peristaltic Pump

Pump On/Off 15:44/15:53 Volumes Purged <1

Sample Time: Label 1550 Replicate/  
Start 1550 Code No. NA  
End 1553

Sampled by RH

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1542	2	200	7.77	0.2	7.50	1.18	16.5	8.75	14.3	141	slight orange	no
1546	6	150	7.77	0.3	7.45	1.13	4.3	7.07	14.4	132		
1549	9	150	7.77	0.5	7.45	1.11	22.1	6.00	14.5	126	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VSA	2	HCl
BTEX	VSA	1	F

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

Well Information  
Well Location: NE corner of A Yard, NW of chips  
Condition of Well: good - fair  
Well Locked at Arrival: Yes /  No  
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-21

Date 1/21/14

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

Weather overcast, 45°F

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 8.71 Total Depth (ft-btoc) 14.50 Water Column/ Gallons in Well 5.79 / --

Initial PID Reading (ppm) 0.0

TOC Elevator 14.35 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1605/1625 Volumes Purged <1  
Centrifugal \_\_\_\_\_  
Submersible \_\_\_\_\_  
Other \_\_\_\_\_

Sample Time: Label 1625 Replicate/ Code No. NA  
Start 1622  
End 1625

Sampled by RH

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMnco) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (oC)	Redox ORP (mV)	Appearance	
											Color	Odor
16:07	2	200	7.95	0.1	6.96	39.7	3.9	7.90	13.0	167	slight orange	no
16:10	5	200	7.95	0.3	6.72	40.0	4.4	7.25	13.1	132	"	"
16:13	8	200	7.93	0.4	6.57	39.7	3.3	6.60	13.2	121	"	"
16:16	11	200	7.93	0.5	7.02	40.6	4.9	5.28	13.1	90	"	"
16:19	14	200	7.93	0.7	7.11	47.6	4.4	4.24	13.1	70	"	"
16:22	17	200	7.93	0.6	7.21	47.9	1.3	3.53	12.7	68	"	"

Constituents Sampled	Container	Number	Preservative
GRO	VVA	2	HCl
BTEX	VVA	1	↓

Well Casing Volumes

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

Well Information

Well Location: W of A food 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

Project No. WA000804.0002 Well ID A-23R

Date 1/21/14

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

Weather partly cloudy

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

Well Material  PVC  SS

Static Water Level (ft-btoc) 9.16 Total Depth (ft-btoc) 16.20

Water Column/ Gallons in Well 6.96 / NC

Initial PID Reading (ppm) 0.0

TOC Elevation 15.57 Pump Intake (ft-btoc) Mid-Screen

Purge Method:  Low-flow  Centrifugal  Submersible  Other

Sample Method Peristaltic Pump

Pump On/Off 1443/1500 Volumes Purged <1

Sample Time: Label 1500 Replicate/ Code No. NA  
Start 1457  
End 1500

Sampled by RH

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µM/1000) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1445	2	150	7.18	0.1	6.26	28.0	16.3	8.30	12.6	253	slight orange	no
1448	5	150	9.20	0.2	6.27	26.8	15.2	7.67	12.6	249	"	"
1451	8	150	9.20	0.3	6.51	31.4	14.2	5.87	12.6	240	"	"
1454	11	150	9.20	0.4	6.64	32.4	20.3	4.90	12.6	235	"	"
1457	14	150	9.20	0.5	6.50	32.7	19.0	4.28	12.6	230	"	"

Constituents Sampled	Container	Number	Preservative
GRO	3 WDA	3	HCl
BTEX			

Well Casing Volumes

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

Well Information

Well Location: W of hybrid core 1314 Ave SW Well Locked at Arrival: Yes /  No

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

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





# Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID A-27

Date 01-22-2014

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

Weather \_\_\_\_\_

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 10.76 Total Depth (ft-btoc) 10.72-20 Water Column/ Gallons in Well NA

Initial PID Reading (ppm) 1,948

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

Sample Method Peristaltic Pump

Pump On/Off 0859 Volumes Purged 21.0 gal. Purge Method: Centrifugal  
Submersible  
Other

Sample Time: Label 0915 Replicate/ Code No. NA  
Start 0915  
End 0930

Sampled by EE

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µM/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
0902	3	300	10.76'	<0.1	6.21	0.328	6.4	10.18	12.6	160	Clear	Slight
0905	6	300	10.76'	0.25	6.25	0.283	7.9	9.82	13.0	68	"	"
0909	9	300	10.76'	0.5	6.29	0.269	7.3	7.48	13.2	51	"	"
0911	12	300	10.76'	0.75	6.30	0.268	7.4	7.32	13.4	43	"	"

Constituents Sampled	Container	Number	Preservative
GRO	3 x VOAs	3	HCl
BTEX	"	"	HCl
Sulfate	poly	1	None
Sulfide	Glass	1	None Zn Acetate

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: East Work (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 A-28R

Date 1/22/14

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

Weather overcast, 50°F

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 8.20 Total Depth (ft-btoc) 14.93

Water Column/  
Gallons in Well 6.73'

Initial PID Reading (ppm) 734

TOC Elevatio 14.93 Pump Intake (ft-btoc) Mid-Screen

Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 926/945 Volumes Purged -

Centrifugal  
Submersible  
Other

Sample Time: Label 945 Replicate/  
Start 941 Code No. NA  
End 945

Sampled by RH

Stabilized Range:

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
928	2	250	8.26	0.1	7.12	29.9	0.6	6.90	12.93	-111	clear	yes
931	5	250	8.26	0.3	6.69	28.2	0.0	6.17	12.83	-119	↓	↓
934	8	250	8.26	0.5	6.46	27.6	0.0	5.82	12.78	-123	↓	↓
937	11	250	8.26	0.7	6.37	27.6	0.0	5.62	12.77	-125	↓	↓
940	14	250	8.26	0.9	6.37	27.7	0.0	5.55	12.76	-125	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VVA	1	HCl
BTEX	↓	2	↓

Well Casing Volumes

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.08	2" = 0.162	3" = 0.37	4" = 0.653	

Well Information

Well Location: NW corner of 13th & Louder 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-6

Date 1-22-14

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

Weather

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

Static Water Level (ft-btoc) 7.26 Total Depth (ft-btoc) 12.75 Water Column/ Gallons in Well NA Initial PID Reading (ppm) 0.0

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

Pump On/Off 0440 Volumes Purged 2-0.75 gal Sample Method Peristaltic Pump

Sample Time: Label 0950 Replicate/ Start 0950 Code No. NA End 0955 Sampled by CF

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMhos/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Contains 3 rows of data.

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

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

Well Information

Well Location: 12th Ave Good Well Locked at Arrival: Yes / No Well Locked at Departure: Yes / No Well Completion: Flush Mount / Stick Up Key Number To Well:



Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID MW-7

Date 1/22/19

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

Weather partly sunny, 50°F

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

Well Material X PVC SS

Static Water Level (ft-btoc) 2.75 Total Depth (ft-btoc) 12.82
Water Column/ Gallons in Well 10.04 / 6.5

Initial PID Reading (ppm) 34.8

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

Sample Method Peristaltic Pump

Pump On/Off 1525 Volumes Purged <1

Sample Time: Label 1540 Replicate/ Start 1535 Code No. NA

Sampled by RH

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMnO4), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows include data for 1527, 1530, and 1533.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows include GRO, BTEX, Sulfate, Sulfide, BART.

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

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



# Groundwater Sampling Form

Page 1 of 1Project No. WA000804.0002 Well ID MW-9Date 1-22-14Project Name/Location 2720 13th Ave SW Seattle, WA 98134Weather Part. Sunny
 Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 4 Well Material X PVC  
SS

 Static Water Level (ft-btoc) 5.02' Total Depth (ft-btoc) 11.20 Water Column/ Gallons in Well NM Initial PID Reading (ppm) 0.0

 TOC Elevation: 9.75 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump  
 Centrifugal \_\_\_\_\_ Submersible \_\_\_\_\_ Other \_\_\_\_\_

 Pump On/Off 1527 Volumes Purged 21 gallons

 Sample Time: Label 1530 Replicate/ Code No. N/A Sampled by CE  
 Start 1540 End 1545

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (oC)	Redox ORP (mV)	Appearance	
											Color	Odor
1530	3	400	3.02'	0.1	6.48	0.219	12.9	10.81	11.6	114	Clear	None
1533	6	400	3.02'	0.2	6.83	0.218	11.3	10.28	11.6	115	"	"
1536	9	400	3.02'	0.3	6.75	0.218	13.2	9.57	11.6	115	"	"
1539	12	400	3.03'	0.4	6.73	0.220	13.5	9.46	11.5	113	"	"

Constituents Sampled	Container	Number	Preservative
GRO	Vort	5	HCl
BTEX	VOR	5	HCl
Sulfate	Pain	1	None
Sulfide	Glass	1	Zn Acetate
BART	Poly	1	None

**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: 8-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: \_\_\_\_\_



Groundwater Sampling Form

Project No. WA000804.0002 Well ID MW-14

Date 1/22/14

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

Weather overcast, 50°F

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 3.59 Total Depth (ft-btoc) 13.44  
 Water Column/Gallons in Well 9.85 / NC

Initial PID Reading (ppm) 0.0

TOC Elevation 11.44 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1056/1116 Volumes Purged < 1  
 Centrifugal       
 Submersible       
 Other     

Sample Time: Label 1115 Replicate/  
 Start 1113 Code No. NA  
 End 1116

Sampled by RH

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1056	2	250	3.64	0.1	6.75	0.90	0.0	4.56	21.47	33	slight orange	no
1101	5	250	3.67	0.3	6.79	0.96	2.3	5.34	17.15	32	↓	↓
1107	8	250	3.75	0.4	6.68	2.78	6.4	6.07	13.10	35	↓	↓
1107	11	250	3.80	0.5	6.60	4.14	5.2	6.06	12.41	35	clear	↓
1110	14	250	3.79	0.7	6.62	7.10	3.5	6.07	12.60	36	↓	↓
1113	17	250	3.80	0.8	6.61	7.87	3.7	5.99	12.25	36	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VQA	1	HCl
BTEX	VQA	2	↓

Well Casing Volumes

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

Well Information

Well Location: S side, D yard, N of manifold 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 MW-18

Date 1/22/14

Project Name/Location SW Seattle, WA 98134

Weather overcast, 50 F

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

Well Material X PVC SS

Static Water Level (ft-btoc) 7.35 Total Depth (ft-btoc) 13.65 Water Column/ Gallons in Well 6.30 / NC

Initial PID Reading (ppm) 0.0

TOC Elevation 15.49 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1005/1023 Volumes Purged 0.1 Centrifugal Submersible Other

Sample Time: Label 1020 Replicate/ Start 1020 Code No. NA End 1023

Sampled by RH

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

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMhos/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows 1005-1020.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows: GRO (VJA, 1, HCl), BTEX (, 2, ↓).

Well Casing Volumes table: Gallons/Foot vs diameter (1", 1.25", 1.5", 2", 2.5", 3", 3.5", 4", 6").

Well Information: Well Location: WSW at T39, C Yard across 14th Well Locked at Arrival: Yes / No Condition of Well: good Well Locked at Departure: Yes / No Well Completion: Flush Mount / Stick Up Key Number To Well:



# Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID MW-19

Date 1-22-14

Project Name/Location 10000 SW Seattle, WA 98134

Weather

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 3.23' Total Depth (ft-btoc) 12.90 Water Column/Gallons in Well NM

Initial PID Reading (ppm) 0.0

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

Sample Method Peristaltic Pump

Pump On/Off 1021 Volumes Purged <1

Centrifugal  
Submersible  
Other

Sample Time: Label 1021 Replicate/  
Start 1035 Code No. None  
End 1040

Sampled by EE

Stabilized Range: -0.5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. ( $\mu$ M/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1024	3	300	3.23	50.1	6.75	1.77	17.5	10.00	13.2	120	Clear	None
1027	6	300	3.26	0.25	6.28	1.31	16.0	8.90	12.6	105	"	"
1030	9	300	3.29	0.5	6.29	1.20	18.0	7.29	12.5	95	"	"
1033	12	300	3.30	1.0	6.91	1.20	17.7	7.20	12.7	74	"	"

Constituents Sampled	Container	Number	Preservative
GRO	VOAs	3	HCl
BTEX	VOAs	1	HCl
Sulfate	Poly	1	None
Sulfide	Glass	1	Zn Acetate

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-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:





Groundwater Sampling Form

Project No. WA000804.0002 Well ID MW-21

Date 1-22-14

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

Weather

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

Well Material X PVC SS

Static Water Level (ft-btoc) 2.89' Total Depth (ft-btoc) 12.80 Water Column/ Gallons in Well NM

Initial PID Reading (ppm) 0.0

TOC Elevation 9.41 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow

Sample Method Peristaltic Pump

Pump On/Off 1427 Volumes Purged 0.5 gal. Other

Sample Time: Label 1428 Start 1440 End 1445 Replicate/ Code No. NA

Sampled by EF

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

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMho/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows contain handwritten data for samples 1430, 1435, 1436, and 1439.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows include GRO, BTEX, DRO, HO with handwritten entries for containers (VOA), numbers (3), and preservatives (HCl). Includes a handwritten note: 'Note: Pump died halfway through sample collection.'

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

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID MW-23

Date 1/21/14

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

Weather overcast, 45°

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 7.72 Total Depth (ft-btoc) 14.60  
 Water Column/Gallons in Well 6.88 / 110

Initial PID Reading (ppm) 930.7

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

Sample Method Peristaltic Pump

Pump On/Off 1636 Volumes Purged 51  
 Centrifugal       
 Submersible       
 Other     

Sample Time: Label 1650 Replicate/Code No. NA  
 Start 1649  
 End 1652

Sampled by BH

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. (oC)	Redox ORP (mV)	Appearance	
											Color	Odor
1637	1	300	7.70	0.1	7.25	34.7	2.6	7.00	13.6	38	slight yellow	yes
1640	4	300	7.74	0.3	7.05	34.4	2.1	7.04	14.0	25	"	"
1643	7	300	7.74	0.6	6.85	34.1	6.0	7.22	14.0	16	↓	↓
1646	10	300	7.74	0.8	6.88	34.0	4.1	6.10	14.0	9	↓	↓
1649	13	300	7.74	1.0	6.79	34.4	4.2	5.42	14.0	5	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VDA	2	WCI
BTEX	"	1	"

**Well Casing Volumes**

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

**Well Information**

Well Location: 13th & Harbor S. intersection Well Locked at Arrival: Yes / No

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

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



Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID MW-24

Date 1/22/14

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

Weather overcast, 45°F

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

Static Water Level (ft-btoc) 7.66 Total Depth (ft-btoc) 14.70 Water Column/ Gallons in Well 7.04 / 112 Initial PID Reading (ppm) 260.5

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

Pump On/Off 037/905 Volumes Purged <1

Sample Time: Label 905 Replicate/ Code No. DUP-1 Sampled by RH  
 Start 901  
 End 905

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (oC)	Redox ORP (mV)	Appearance	
											Color	Odor
8:45	8	250	7.74	0.1	4.96	99.9	32.4	0.00	23.93	-125	black w/ streak	yes
8:48	11	250	7.74	0.3	5.15	99.9	5.1	0.00	22.59	-130	↓	↓
8:51	14	250	7.74	0.4	5.43	99.9	0.0	0.00	19.83	-146	↓	↓
8:54	17	250	7.74	0.5	5.63	99.9	0.0	0.00	18.04	-154	slight black	yes
8:57	20	250	7.75	0.7	5.69	99.9	0.0	0.00	17.79	-158	↓	↓
9:00	23	250	7.75	0.8	5.74	99.9	0.0	0.00	17.25	-165	clear w/ streak	yes

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1/1	HCl
BTEX	VOA	2/2	↓

Well Casing Volumes

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

Well Location: S of 13th + Leander intersection, NW of MW-23 Well Locked at Arrival: Yes / NO  
 Condition of Well: good Well Locked at Departure: Yes / NO  
 Well Completion: Flush Mount / Stick Up Key Number To Well:



Groundwater Sampling Form

Project No. WA000804.0002 Well ID TMW-1

Date 1-22-14

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

Weather

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

Well Material X PVC
SS

Static Water Level (ft-btoc) 3.60 Total Depth (ft-btoc) NM
Water Column/ Gallons in Well NM

Initial PID Reading (ppm) 0.0

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

Sample Method Peristaltic Pump

Pump On/Off 1104/ Volumes Purged 20.5 gal.
Centrifugal Submersible Other

Sample Time: Label 1115 Replicate/ Code No. NA
Start 1115 End 1120

Sampled by EE

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

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMnO2), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (oC), Redox ORP (mV), Appearance (Color, Odor). Rows 1107, 1110, 1113.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows: GRO, BTEX, Sulfate, Sulfide, BART.

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



Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID TMW-2

Date 1/22/14

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

Weather overcast, 50°F

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 363 Total Depth (ft-btoc) ~45 Water Column/Gallons in Well ~11 / 112

Initial PID Reading (ppm) 0.7

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

Sample Method Peristaltic Pump

Pump On/Off 1139/1203 Volumes Purged <1

Centrifugal  
Submersible  
Other

Sample Time: Label 1200 Replicate/  
Start 1157 Code No. NA  
End 1203

Sampled by RH

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1141	2	250	3.73	0.1	6.06	3.47	6.0	6.22	17.07	-136	clear	n-
1144	5	250	3.80	0.3	6.12	4.20	5.9	6.62	13.06	-142		
1147	8	250	3.80	0.5	6.26	4.49	7.7	6.40	11.26	-152		
1150	11	250	3.80	0.7	6.28	4.73	4.6	6.38	10.73	-154		
1153	14	300	3.80	0.9	6.31	4.95	5.1	6.29	10.66	-156		
1156	17	300	3.80	1.1	6.35	4.86	5.3	6.12	10.46	-158		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	HCl
BTEX	VOA	2	"
Sulfate	Poly	1	-
Sulfide	Glass	1	I
BART	Plastic	1	-

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" = 0.63	

Well Information

Well Location: S side D Yard, W post Well Locked at Arrival: Yes / No

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

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



Groundwater Sampling Form

Page      of     

Project No. WA000804.0002 Well ID TMW-3

Date 1/22/14

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

Weather overcast 50°F

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

Well Material X PVC  
SS

Static Water Level (ft-btoc) 3.76 Total Depth (ft-btoc) 15.71  
 Water Column/ Gallons in Well 11.95 / NC

Initial PID Reading (ppm) 1.7

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

Sample Method Peristaltic Pump

Pump On/Off 1411/1432 Volumes Purged <1  
 Centrifugal       
 Submersible       
 Other     

Sample Time: Label 1430 Replicate/ Code No. NA  
 Start 1426  
 End 1432

Sampled by RH

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	Stabilized Range:						Appearance	
					~.5 ft	0.1	3%	10%	3%	Redox ORP (mV)	Color	Odor
					pH	Cond. (µMg/cm²) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)			
1413	2	300	3.91	0.2	6.51	90.3	16.5	3.6	16.36	-90	slight yellow	yes
1416	5	300	3.90	0.7	6.40	99.9	14.1	1.11	14.92	-119	↓	↓
1419	8	300	3.90	0.6	6.37	99.9	15.0	0.00	12.66	-131	↓	↓
1422	11	300	3.90	0.9	6.36	99.9	13.9	0.00	12.09	-137	↓	↓
1425	14	300	3.90	1.1	6.36	99.9	11.3	0.00	11.60	-140	↓	↓

Constituents Sampled	Container	Number	Preservative
GRO	VJA	1	HCl
BTEX	VJA	2	-
Sulfate	Poly	1	-
Sulfide	Glass	1	Zn acetate
BART	Plastic	1	-

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: W of T-21 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 TMW-4

Date 1/22/14

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

Weather overcast 15°F

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

Static Water Level (ft-btoc) 3.45 Total Depth (ft-btoc) 15.47 Water Column/ Gallons in Well 12.02 / NC Initial PID Reading (ppm) 96.7

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

Pump On/Off 1445/1507 Volumes Purged <1 Sample Time: Label 1505 Replicate/ Start 1502 Code No. NA End 1509 Sampled by RH

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

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMnpo), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (oC), Redox ORP (mV), Appearance (Color, Odor). Rows 1446-1501.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows: GRO, BTEX, Sulfate, Sulfide, BART.

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" = 0.652, 6" = 1.47.

Well Information: Well Location: NE of T-32, SW of T-21 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 TMW-5

Date 1-22-17

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

Weather Cloudy, 40s

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

Well Material X PVC SS

Static Water Level (ft-btoc) 5.18 Total Depth (ft-btoc) NA Water Column/ Gallons in Well NM

Initial PID Reading (ppm) 535

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

Sample Method Peristaltic Pump

Pump On/Off 1251 Volumes Purged ~1 gal Centrifugal Submersible Other

Sample Time: Label 1305 Replicate/ Code No. NA
Start 1305
End 1310

Sampled by EE

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

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µM/cm), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Contains 4 rows of data.

Table with columns: Constituents Sampled, Container, Number, Preservative. Lists GRO, BTEX, Sulfate, Sulfide, BART with container types like USA, Poly, Glass, Plastic.

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: R-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:



# ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID TMW-6

Date 1/22/14

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

Weather partly cloudy, 50°F

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

Static Water Level (ft-btoc) 2.74 Total Depth (ft-btoc) ~15 Water Column/ Gallons in Well ~12' / NC Initial PID Reading (ppm) 9.7

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

Pump On/Off 1609 Volumes Purged ~1

Sample Time: Label 1620 Replicate/ Code No. NA Sampled by RH  
 Start 1616  
 End \_\_\_\_\_

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

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1606	2	300	2.91	0.2	6.20	72.7	11.2	4.60	15.12	-44	clear	gas
1607	5	300	3.02	0.4	6.09	70.1	12.2	3.62	12.82	-62		
1612	8	300	3.04	0.6	6.04	71.4	12.8	3.71	11.92	-69		
1615	12	300	3.01	0.8	6.02	72.1	12.7	3.67	11.51	-71		
1618	15	300	3.02	1.0	5.91	73.2	10.3	3.60	11.45	-76		

Constituents Sampled	Container	Number	Preservative
GRO	VOA	1	HCl
BTEX	"	2	"
Sulfate	Pap	1	"
Sulfide	Glass	1	Zn acetate

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	<del>4" = 0.652</del>	

Well Information

Well Location: WSW of T-32, E of T-33 Well Locked at Arrival: Yes / NO

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

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



# Groundwater Sampling Form

Page 1 of 1Project No. WA000804.0002 Well ID 11Date 1-22-14Project Name/Location 2720 13th Ave SW Seattle, WA 98134Weather Cloudy, 40sMeasuring Pt. Screen Setting (ft-bmp) NM Casing Diameter (in.) 4Well Material  PVC  SSStatic Water Level (ft-btoc) 4.92' Total Depth (ft-btoc) NM Water Column/ Gallons in Well NMInitial PID Reading (ppm) 0.1TOC Elevation NM Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flowSample Method Peristaltic PumpPump On/Off 1340 Volumes Purged ~1.0 gal. Centrifugal  Submersible  Other Sample Time: Label 1355 Replicate/ Code No. NA  
Start 14:00  
End 14:45Sampled by EEStabilized Range: ~.5 ft 0.1 3% 10% 3%

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMho/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (oC)	Redox ORP (mV)	Appearance	
											Color	Odor
1343	3	350	4.98'	20.1	8.28	0.231	-5.0	10.67	13.3	13	Light Brown	None
1346	6	350	5.00'	0.25	8.00	0.275	-5.0	10.25	13.4	0	"	"
1349	9	350	5.00'	0.5	7.81	0.342	-5.0	9.74	15.3	20	"	"
1352	12	350	5.01	0.75	7.70	0.363	-5.0	9.25	13.3	25	"	"
1355	15	350	5.01	1.0	7.74	0.368	5.35	9.20	13.3	27	"	"

Constituents Sampled	Container	Number	Preservative
GRO	USA	1	NH <sub>2</sub>
BTEX	"	2	"
Sulfate	Poly	1	-
Sulfide	Cruc	1	Zn acetate

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

**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: \_\_\_\_\_



Groundwater Sampling Form

Project No. WA000804.0002 Well ID 12

Date 1/22/14

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

Weather overcast, 50°F

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

Static Water Level (ft-btoc) 2.11 Total Depth (ft-btoc) 14.70 Water Column/ Gallons in Well 12.59 / NC Initial PID Reading (ppm) 115

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

Pump On/Off 1251/1312 Volumes Purged <1

Sample Time: Label 1314 Replicate/ Start 1307 Code No. NA End 1312 Sampled by RH

Table with columns: Time, Minutes Elapsed, Rate (gpm), Depth to Water (ft), Gallons Purged, pH, Cond. (µMncc), Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), Redox ORP (mV), Appearance (Color, Odor). Rows contain data for times 1252 through 1317.

Table with columns: Constituents Sampled, Container, Number, Preservative. Rows include GRO, BTEX, Sulfate, Sulfide.

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

Well Information

Well Location: 210' NW 26 T-32 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: N/A



# Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.0002 Well ID DRUM-1

Date 8/22/14

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

Weather partly sunny

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

Well Material  PVC  
 SS

Static Water Level (ft-btoc) NA Total Depth (ft-btoc) NA Water Column/ Gallons in Well Drum Volume: ~20 gal

Initial PID Reading (ppm) NA

TOC Elevation NA Pump Intake (ft-btoc) NA Purge Method: No Purge

Sample Method Disposable Bailor

Pump On/Off NA Volumes Purged NA Centrifugal           
Other         

Sample Time: Label 1700 Replicate/ Code No. NA  
Start 1654  
End 1700

Sampled by RH

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µM/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (oC)	Redox ORP (mV)	Appearance	
											Color	Odor
<u>1700</u>	<u>NA</u>										<u>slight orange</u>	<u>yes</u>

Constituents Sampled	Container	Number	Preservative
<u>GRO</u>	<u>3 vda</u>	<u>3</u>	<u>HCl</u>
<u>BTEX</u>	<u>3 vda</u>	<u>3</u>	<u>HCl</u>
<u>PCRB 6</u>	<u>1 Poly</u>	<u>1</u>	<u>HNO3</u>

**Well Casing Volumes**

Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.60	6" = 1.47
	1.25" = 0.06	2" = 0.162	3" = 0.37	<u>4" = 0.53</u>	

**Well Information**

Well Location: Drum storage area, D 4c.2 Well Locked at Arrival: Yes / No

Condition of Well: New - Purge Water Well Locked at Departure: Yes / No

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



**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 : 01/24/14

Job: WA000804.2014/KMLT Harbor Island

### Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-27 Lab ID : ARC14012426-04A Sulfate (SO4) Date Sampled 01/22/14 09:15	ND	0.50 mg/L	01/24/14 09:48	01/24/14 18:39
Client ID: MW-7 Lab ID : ARC14012426-07A Sulfate (SO4) Date Sampled 01/22/14 15:40	2,100	500 mg/L	01/24/14 09:48	01/25/14 14:15
Client ID: MW-9 Lab ID : ARC14012426-08A Sulfate (SO4) Date Sampled 01/22/14 15:48	26	0.50 mg/L	01/24/14 09:48	01/24/14 19:16
Client ID: MW-19 Lab ID : ARC14012426-11A Sulfate (SO4) Date Sampled 01/22/14 10:35	620	50 mg/L	01/24/14 09:48	01/24/14 19:34
Client ID: TMW-1 Lab ID : ARC14012426-15A Sulfate (SO4) Date Sampled 01/22/14 11:15	450	50 mg/L	01/24/14 09:48	01/24/14 19:53
Client ID: TMW-2 Lab ID : ARC14012426-16A Sulfate (SO4) Date Sampled 01/22/14 12:00	3,000	500 mg/L	01/24/14 09:48	01/25/14 14:34
Client ID: TMW-3 Lab ID : ARC14012426-17A Sulfate (SO4) Date Sampled 01/22/14 14:30	3,800	500 mg/L	01/24/14 09:48	01/25/14 14:52
Client ID: TMW-4 Lab ID : ARC14012426-18A Sulfate (SO4) Date Sampled 01/22/14 15:05	2,800	500 mg/L	01/28/14 10:31	01/28/14 14:04
Client ID: TMW-5 Lab ID : ARC14012426-19A Sulfate (SO4) Date Sampled 01/22/14 13:05	2,600	500 mg/L	01/28/14 10:31	01/28/14 14:23
Client ID: TMW-6 Lab ID : ARC14012426-20A Sulfate (SO4) Date Sampled 01/22/14 16:20	2,300	500 mg/L	01/28/14 10:31	01/28/14 14:41
Client ID: H1 Lab ID : ARC14012426-21A Sulfate (SO4) Date Sampled 01/22/14 14:00	120	5.0 mg/L	01/28/14 10:31	01/28/14 15:00



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Client ID: 12

Lab ID: ARC14012426-22A Sulfate (SO4)

3,000

500 mg/L

01/28/14 10:31 01/28/14 15:18

Date Sampled 01/22/14 13:10

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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**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 : 01/24/14

Job: WA000804.2014/KMLT Harbor Island

Metals by ICPMS  
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>DRUM-1</b>				
Lab ID : ARC14012426-25A	Chromium (Cr)	ND	0.010 mg/L	01/28/14
Date Sampled 01/22/14 17:00	Arsenic (As)	0.062	0.0050 mg/L	01/28/14
	Selenium (Se)	ND	0.0050 mg/L	01/28/14
	Silver (Ag)	ND	0.0050 mg/L	01/28/14
	Cadmium (Cd)	0.0024	0.0020 mg/L	01/28/14
	Barium (Ba)	0.050	0.0050 mg/L	01/28/14
	Mercury (Hg)	ND	0.0010 mg/L	01/28/14
	Lead (Pb)	0.023	0.0050 mg/L	01/28/14

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 : 01/24/14

Job: WA000804.2014/KMLT Harbor Island

### Sulfide SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-27 Lab ID: ARC14012426-04A Sulfide Date Sampled 01/22/14 09:15	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: MW-7 Lab ID: ARC14012426-07A Sulfide Date Sampled 01/22/14 15:40	0.23	0.10 mg/L	01/27/14	01/27/14
Client ID: MW-9 Lab ID: ARC14012426-08A Sulfide Date Sampled 01/22/14 15:48	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: MW-19 Lab ID: ARC14012426-11A Sulfide Date Sampled 01/22/14 10:35	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: TMW-1 Lab ID: ARC14012426-15A Sulfide Date Sampled 01/22/14 11:15	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: TMW-2 Lab ID: ARC14012426-16A Sulfide Date Sampled 01/22/14 12:00	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: TMW-3 Lab ID: ARC14012426-17A Sulfide Date Sampled 01/22/14 14:30	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: TMW-4 Lab ID: ARC14012426-18A Sulfide Date Sampled 01/22/14 15:05	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: TMW-5 Lab ID: ARC14012426-19A Sulfide Date Sampled 01/22/14 13:05	0.10	0.10 mg/L	01/27/14	01/27/14
Client ID: TMW-6 Lab ID: ARC14012426-20A Sulfide Date Sampled 01/22/14 16:20	ND	0.10 mg/L	01/27/14	01/27/14
Client ID: 11 Lab ID: ARC14012426-21A Sulfide Date Sampled 01/22/14 14:00	ND	0.10 mg/L	01/27/14	01/27/14



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Client ID: 12

Lab ID: ARC14012426-22A Sulfide

ND

0.10 mg/L

01/27/14

01/27/14

Date Sampled 01/22/14 13:10

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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*✓*  
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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:

Job: WA000804.2014/KMLT Harbor Island

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 : <b>A-5</b> Lab ID : ARC14012426-01A Date Sampled 01/21/14 15:50	TPH-P (GRO) 0.51	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>A-21</b> Lab ID : ARC14012426-02A Date Sampled 01/21/14 16:25	TPH-P (GRO) ND	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>A-23R</b> Lab ID : ARC14012426-03A Date Sampled 01/21/14 15:00	TPH-P (GRO) ND	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>A-27</b> Lab ID : ARC14012426-04A Date Sampled 01/22/14 09:15	TPH-P (GRO) 2.6	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>A-28R</b> Lab ID : ARC14012426-05A Date Sampled 01/22/14 09:45	TPH-P (GRO) 1.4	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>MW-6</b> Lab ID : ARC14012426-06A Date Sampled 01/22/14 09:50	TPH-P (GRO) ND	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>MW-7</b> Lab ID : ARC14012426-07A Date Sampled 01/22/14 15:40	TPH-P (GRO) 2.1	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>MW-9</b> Lab ID : ARC14012426-08A Date Sampled 01/22/14 15:48	TPH-P (GRO) ND	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>MW-14</b> Lab ID : ARC14012426-09A Date Sampled 01/22/14 11:15	TPH-P (GRO) ND	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>MW-18</b> Lab ID : ARC14012426-10A Date Sampled 01/22/14 10:20	TPH-P (GRO) ND	0.25 mg/L	01/29/14	01/29/14
Client ID : <b>MW-19</b> Lab ID : ARC14012426-11A Date Sampled 01/22/14 10:35	TPH-P (GRO) 2.2	0.25 mg/L	01/29/14	01/29/14



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Client ID :	<b>MW-21</b>					
Lab ID :	ARC14012426-12A	TPH-E (DRO)	2.3	0.25 mg/L	01/27/14	01/27/14
Date Sampled	01/22/14 14:40	TPH-E (ORO)	0.77	0.50 mg/L	01/27/14	01/27/14
		Surr: Nonane	110	(53-145) %REC	01/27/14	01/27/14
		TPH-P (GRO)	ND	0.25 mg/L	01/29/14	01/29/14
Client ID :	<b>MW-23</b>					
Lab ID :	ARC14012426-13A	TPH-P (GRO)	0.27	0.25 mg/L	01/29/14	01/29/14
Date Sampled	01/21/14 16:50					
Client ID :	<b>MW-24</b>					
Lab ID :	ARC14012426-14A	TPH-P (GRO)	3.1	0.30 mg/L	01/29/14	01/29/14
Date Sampled	01/22/14 09:05					
Client ID :	<b>TMW-1</b>					
Lab ID :	ARC14012426-15A	TPH-P (GRO)	ND	0.25 mg/L	01/29/14	01/29/14
Date Sampled	01/22/14 11:15					
Client ID :	<b>TMW-2</b>					
Lab ID :	ARC14012426-16A	TPH-P (GRO)	0.28	0.25 mg/L	01/29/14	01/29/14
Date Sampled	01/22/14 12:00					
Client ID :	<b>TMW-3</b>					
Lab ID :	ARC14012426-17A	TPH-P (GRO)	0.75	0.25 mg/L	01/29/14	01/29/14
Date Sampled	01/22/14 14:30					
Client ID :	<b>TMW-4</b>					
Lab ID :	ARC14012426-18A	TPH-P (GRO)	6.0	0.50 mg/L	01/29/14	01/29/14
Date Sampled	01/22/14 15:05					
Client ID :	<b>TMW-5</b>					
Lab ID :	ARC14012426-19A	TPH-P (GRO)	1.9	0.25 mg/L	01/29/14	01/29/14
Date Sampled	01/22/14 13:05					
Client ID :	<b>TMW-6</b>					
Lab ID :	ARC14012426-20A	TPH-P (GRO)	7.0	0.40 mg/L	01/29/14	01/29/14
Date Sampled	01/22/14 16:20					
Client ID :	<b>11</b>					
Lab ID :	ARC14012426-21A	TPH-P (GRO)	0.75	0.25 mg/L	01/28/14	01/28/14
Date Sampled	01/22/14 14:00					
Client ID :	<b>12</b>					
Lab ID :	ARC14012426-22A	TPH-P (GRO)	4.2	0.50 mg/L	01/28/14	01/28/14
Date Sampled	01/22/14 13:10					
Client ID :	<b>DUP-1</b>					
Lab ID :	ARC14012426-23A	TPH-P (GRO)	2.2	0.25 mg/L	01/28/14	01/28/14
Date Sampled	01/22/14 00:00					
Client ID :	<b>DRUM-1</b>					
Lab ID :	ARC14012426-25A	TPH-P (GRO)	0.89	0.25 mg/L	01/28/14	01/28/14
Date Sampled	01/22/14 17:00					



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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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2/6/14

**Report Date**



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## ANALYTICAL REPORT

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

Attn: Jonathan Flomerfelt  
Phone: (206) 726-4712  
Fax:  
Date Received : 01/24/14

Job: WA000804.2014/KMLT Harbor Island

### Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID : A-5					
Lab ID : ARC14012426-01A	Benzene	51	1.0 µg/L	01/29/14	01/29/14
Date Sampled 01/21/14 15:50	Toluene	1.2	1.0 µg/L	01/29/14	01/29/14
	Ethylbenzene	ND O	1.0 µg/L	01/29/14	01/29/14
	Xylenes, Total	ND O	1.0 µg/L	01/29/14	01/29/14
	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/29/14	01/29/14
	Surr: Toluene-d8	105	(70-130) %REC	01/29/14	01/29/14
	Surr: 4-Bromofluorobenzene	101	(70-130) %REC	01/29/14	01/29/14
Client ID : A-21					
Lab ID : ARC14012426-02A	Benzene	ND O	1.0 µg/L	01/29/14	01/29/14
Date Sampled 01/21/14 16:25	Toluene	ND O	1.0 µg/L	01/29/14	01/29/14
	Ethylbenzene	ND O	1.0 µg/L	01/29/14	01/29/14
	Xylenes, Total	ND O	1.0 µg/L	01/29/14	01/29/14
	Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/29/14	01/29/14
	Surr: Toluene-d8	106	(70-130) %REC	01/29/14	01/29/14
	Surr: 4-Bromofluorobenzene	103	(70-130) %REC	01/29/14	01/29/14
Client ID : A-23R					
Lab ID : ARC14012426-03A	Benzene	ND	0.50 µg/L	01/29/14	01/29/14
Date Sampled 01/21/14 15:00	Toluene	ND	0.50 µg/L	01/29/14	01/29/14
	Ethylbenzene	ND	0.50 µg/L	01/29/14	01/29/14
	Xylenes, Total	ND	0.50 µg/L	01/29/14	01/29/14
	Surr: 1,2-Dichloroethane-d4	96	(70-130) %REC	01/29/14	01/29/14
	Surr: Toluene-d8	104	(70-130) %REC	01/29/14	01/29/14
	Surr: 4-Bromofluorobenzene	103	(70-130) %REC	01/29/14	01/29/14
Client ID : A-27					
Lab ID : ARC14012426-04A	Benzene	78	0.50 µg/L	01/29/14	01/29/14
Date Sampled 01/22/14 09:15	Toluene	4.2	0.50 µg/L	01/29/14	01/29/14
	Ethylbenzene	61	0.50 µg/L	01/29/14	01/29/14
	Xylenes, Total	62	0.50 µg/L	01/29/14	01/29/14
	Surr: 1,2-Dichloroethane-d4	99	(70-130) %REC	01/29/14	01/29/14
	Surr: Toluene-d8	103	(70-130) %REC	01/29/14	01/29/14
	Surr: 4-Bromofluorobenzene	105	(70-130) %REC	01/29/14	01/29/14
Client ID : A-28R					
Lab ID : ARC14012426-05A	Benzene	170	1.0 µg/L	01/29/14	01/29/14
Date Sampled 01/22/14 09:45	Toluene	2.7	1.0 µg/L	01/29/14	01/29/14
	Ethylbenzene	6.0	1.0 µg/L	01/29/14	01/29/14
	Xylenes, Total	3.3	1.0 µg/L	01/29/14	01/29/14
	Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	01/29/14	01/29/14
	Surr: Toluene-d8	104	(70-130) %REC	01/29/14	01/29/14
	Surr: 4-Bromofluorobenzene	104	(70-130) %REC	01/29/14	01/29/14



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Client ID :	<b>MW-6</b>					
Lab ID :	ARC14012426-06A	Benzene	ND	0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 09:50	Toluene	ND	0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND	0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND	0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	92	(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	104	(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	01/29/14	01/29/14
Client ID :	<b>MW-7</b>					
Lab ID :	ARC14012426-07A	Benzene	14	1.0 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 15:40	Toluene	10	1.0 µg/L	01/29/14	01/29/14
		Ethylbenzene	130	1.0 µg/L	01/29/14	01/29/14
		Xylenes, Total	170	1.0 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	89	(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	104	(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	105	(70-130) %REC	01/29/14	01/29/14
Client ID :	<b>MW-9</b>					
Lab ID :	ARC14012426-08A	Benzene	ND	0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 15:48	Toluene	ND	0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND	0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	1.3	0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	105	(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	01/29/14	01/29/14
Client ID :	<b>MW-14</b>					
Lab ID :	ARC14012426-09A	Benzene	ND	0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 11:15	Toluene	ND	0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND	0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND	0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	106	(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	100	(70-130) %REC	01/29/14	01/29/14
Client ID :	<b>MW-18</b>					
Lab ID :	ARC14012426-10A	Benzene	ND	0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 10:20	Toluene	ND	0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND	0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND	0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	105	(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	01/29/14	01/29/14
Client ID :	<b>MW-19</b>					
Lab ID :	ARC14012426-11A	Benzene	21	0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 10:35	Toluene	0.65	0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	29	0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND	0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	91	(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	102	(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	102	(70-130) %REC	01/29/14	01/29/14



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Client ID : **MW-21**

Lab ID :	ARC14012426-12A	Benzene	ND		0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 14:40	Toluene	ND		0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND		0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND		0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	90		(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	106		(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	103		(70-130) %REC	01/29/14	01/29/14

Client ID : **MW-23**

Lab ID :	ARC14012426-13A	Benzene	11		1.0 µg/L	01/29/14	01/29/14
Date Sampled	01/21/14 16:50	Toluene	ND	O	1.0 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND	O	1.0 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND	O	1.0 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	105		(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	104		(70-130) %REC	01/29/14	01/29/14

Client ID : **MW-24**

Lab ID :	ARC14012426-14A	Benzene	88		1.5 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 09:05	Toluene	3.4		1.5 µg/L	01/29/14	01/29/14
		Ethylbenzene	180		1.5 µg/L	01/29/14	01/29/14
		Xylenes, Total	330		1.5 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	94		(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	101		(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	105		(70-130) %REC	01/29/14	01/29/14

Client ID : **TMW-1**

Lab ID :	ARC14012426-15A	Benzene	ND		0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 11:15	Toluene	ND		0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND		0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND		0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	93		(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	106		(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	103		(70-130) %REC	01/29/14	01/29/14

Client ID : **TMW-2**

Lab ID :	ARC14012426-16A	Benzene	11		0.50 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 12:00	Toluene	ND		0.50 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND		0.50 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND		0.50 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	91		(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	104		(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	100		(70-130) %REC	01/29/14	01/29/14

Client ID : **TMW-3**

Lab ID :	ARC14012426-17A	Benzene	ND	O	1.0 µg/L	01/29/14	01/29/14
Date Sampled	01/22/14 14:30	Toluene	2.2		1.0 µg/L	01/29/14	01/29/14
		Ethylbenzene	ND	O	1.0 µg/L	01/29/14	01/29/14
		Xylenes, Total	ND	O	1.0 µg/L	01/29/14	01/29/14
		Surr: 1,2-Dichloroethane-d4	95		(70-130) %REC	01/29/14	01/29/14
		Surr: Toluene-d8	103		(70-130) %REC	01/29/14	01/29/14
		Surr: 4-Bromofluorobenzene	101		(70-130) %REC	01/29/14	01/29/14





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Client ID :	<b>TMW-4</b>				
Lab ID :	ARC14012426-18A	Benzene	210	2.5 µg/L	01/29/14 01/29/14
Date Sampled	01/22/14 15:05	Toluene	70	2.5 µg/L	01/29/14 01/29/14
		Ethylbenzene	400	2.5 µg/L	01/29/14 01/29/14
		Xylenes, Total	990	2.5 µg/L	01/29/14 01/29/14
		Surr: 1,2-Dichloroethane-d4	90	(70-130) %REC	01/29/14 01/29/14
		Surr: Toluene-d8	102	(70-130) %REC	01/29/14 01/29/14
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	01/29/14 01/29/14
Client ID :	<b>TMW-5</b>				
Lab ID :	ARC14012426-19A	Benzene	3.9	1.0 µg/L	01/29/14 01/29/14
Date Sampled	01/22/14 13:05	Toluene	3.1	1.0 µg/L	01/29/14 01/29/14
		Ethylbenzene	1.2	1.0 µg/L	01/29/14 01/29/14
		Xylenes, Total	2.3	1.0 µg/L	01/29/14 01/29/14
		Surr: 1,2-Dichloroethane-d4	93	(70-130) %REC	01/29/14 01/29/14
		Surr: Toluene-d8	104	(70-130) %REC	01/29/14 01/29/14
		Surr: 4-Bromofluorobenzene	104	(70-130) %REC	01/29/14 01/29/14
Client ID :	<b>TMW-6</b>				
Lab ID :	ARC14012426-20A	Benzene	60	2.0 µg/L	01/29/14 01/29/14
Date Sampled	01/22/14 16:20	Toluene	10	2.0 µg/L	01/29/14 01/29/14
		Ethylbenzene	280	2.0 µg/L	01/29/14 01/29/14
		Xylenes, Total	530	2.0 µg/L	01/29/14 01/29/14
		Surr: 1,2-Dichloroethane-d4	94	(70-130) %REC	01/29/14 01/29/14
		Surr: Toluene-d8	101	(70-130) %REC	01/29/14 01/29/14
		Surr: 4-Bromofluorobenzene	103	(70-130) %REC	01/29/14 01/29/14
Client ID :	<b>11</b>				
Lab ID :	ARC14012426-21A	Benzene	ND	0.50 µg/L	01/28/14 01/28/14
Date Sampled	01/22/14 14:00	Toluene	ND	0.50 µg/L	01/28/14 01/28/14
		Ethylbenzene	ND	0.50 µg/L	01/28/14 01/28/14
		Xylenes, Total	ND	0.50 µg/L	01/28/14 01/28/14
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	01/28/14 01/28/14
		Surr: Toluene-d8	96	(70-130) %REC	01/28/14 01/28/14
		Surr: 4-Bromofluorobenzene	114	(70-130) %REC	01/28/14 01/28/14
Client ID :	<b>12</b>				
Lab ID :	ARC14012426-22A	Benzene	6.7	2.5 µg/L	01/28/14 01/28/14
Date Sampled	01/22/14 13:10	Toluene	15	2.5 µg/L	01/28/14 01/28/14
		Ethylbenzene	27	2.5 µg/L	01/28/14 01/28/14
		Xylenes, Total	340	2.5 µg/L	01/28/14 01/28/14
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	01/28/14 01/28/14
		Surr: Toluene-d8	106	(70-130) %REC	01/28/14 01/28/14
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	01/28/14 01/28/14
Client ID :	<b>DUP-1</b>				
Lab ID :	ARC14012426-23A	Benzene	56	1.0 µg/L	01/28/14 01/28/14
Date Sampled	01/22/14 00:00	Toluene	2.6	1.0 µg/L	01/28/14 01/28/14
		Ethylbenzene	120	1.0 µg/L	01/28/14 01/28/14
		Xylenes, Total	200	1.0 µg/L	01/28/14 01/28/14
		Surr: 1,2-Dichloroethane-d4	97	(70-130) %REC	01/28/14 01/28/14
		Surr: Toluene-d8	104	(70-130) %REC	01/28/14 01/28/14
		Surr: 4-Bromofluorobenzene	95	(70-130) %REC	01/28/14 01/28/14



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Client ID :	<b>DRUM-1</b>						
Lab ID :	ARC14012426-25A	Benzene	20	1.0 µg/L	01/28/14	01/28/14	
Date Sampled	01/22/14 17:00	Toluene	4.8	1.0 µg/L	01/28/14	01/28/14	
		Ethylbenzene	33	1.0 µg/L	01/28/14	01/28/14	
		Xylenes, Total	71	1.0 µg/L	01/28/14	01/28/14	
		Surr: 1,2-Dichloroethane-d4	101	(70-130) %REC	01/28/14	01/28/14	
		Surr: Toluene-d8	105	(70-130) %REC	01/28/14	01/28/14	
		Surr: 4-Bromofluorobenzene	94	(70-130) %REC	01/28/14	01/28/14	

O = Reporting Limits were increased due to sample foaming.

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.



*RG*  
 2/6/14

**Report Date**



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## VOC Sample Preservation Report

Work Order: ARC14012426

Job: WA000804.2014/KMLT Harbor Island

Alpha's Sample ID	Client's Sample ID	Matrix	pH
14012426-01A	A-5	Aqueous	2
14012426-02A	A-21	Aqueous	2
14012426-03A	A-23R	Aqueous	2
14012426-04A	A-27	Aqueous	2
14012426-05A	A-28R	Aqueous	2
14012426-06A	MW-6	Aqueous	2
14012426-07A	MW-7	Aqueous	2
14012426-08A	MW-9	Aqueous	2
14012426-09A	MW-14	Aqueous	2
14012426-10A	MW-18	Aqueous	2
14012426-11A	MW-19	Aqueous	2
14012426-12A	MW-21	Aqueous	2
14012426-13A	MW-23	Aqueous	2
14012426-14A	MW-24	Aqueous	2
14012426-15A	TMW-1	Aqueous	2
14012426-16A	TMW-2	Aqueous	2
14012426-17A	TMW-3	Aqueous	2
14012426-18A	TMW-4	Aqueous	2
14012426-19A	TMW-5	Aqueous	2
14012426-20A	TMW-6	Aqueous	2
14012426-21A	11	Aqueous	2
14012426-22A	12	Aqueous	2
14012426-23A	DUP-1	Aqueous	2
14012426-25A	DRUM-1	Aqueous	2

2/6/14  
Report Date



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Date:  
03-Feb-14

## QC Summary Report

Work Order:  
14012426

### Method Blank

File ID: 26	Type <b>MBLK</b>	Test Code: <b>EPA Method 300.0</b>								
Sample ID: <b>MB-32337</b>	Units : <b>mg/L</b>	Run ID: <b>IC_1_140124A</b>	Batch ID: <b>32337</b>	Analysis Date: <b>01/24/2014 11:33</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

File ID: 27	Type <b>LFB</b>	Test Code: <b>EPA Method 300.0</b>								
Sample ID: <b>LFB-32337</b>	Units : <b>mg/L</b>	Run ID: <b>IC_1_140124A</b>	Batch ID: <b>32337</b>	Analysis Date: <b>01/24/2014 11:52</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	96.9	0.5	100		97	90	110			

### Sample Matrix Spike

File ID: 30	Type <b>LFM</b>	Test Code: <b>EPA Method 300.0</b>								
Sample ID: <b>14012440-01ALFM</b>	Units : <b>mg/L</b>	Run ID: <b>IC_1_140124A</b>	Batch ID: <b>32337</b>	Analysis Date: <b>01/24/2014 12:47</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	631	1.3	500	200	86	80	120			

### Sample Matrix Spike Duplicate

File ID: 31	Type <b>LFMD</b>	Test Code: <b>EPA Method 300.0</b>								
Sample ID: <b>14012440-01ALFMD</b>	Units : <b>mg/L</b>	Run ID: <b>IC_1_140124A</b>	Batch ID: <b>32337</b>	Analysis Date: <b>01/24/2014 13:06</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfate (SO4)	629	1.3	500	200	86	80	120	631	0.3(15)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
03-Feb-14

## QC Summary Report

Work Order:  
14012426

### Method Blank

Method Blank		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	041_	MBLK	Batch ID: 32356				Analysis Date: 01/28/2014 17:13			
Sample ID:	MB-32356	Units : mg/L	Run ID: ICP/MS_140128B				Prep Date: 01/28/2014 13:58			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	0.01								
Arsenic (As)	ND	0.005								
Selenium (Se)	ND	0.005								
Silver (Ag)	ND	0.005								
Cadmium (Cd)	ND	0.002								
Barium (Ba)	ND	0.005								
Mercury (Hg)	ND	0.001								
Lead (Pb)	ND	0.005								

### Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	043_	LCS	Batch ID: 32356				Analysis Date: 01/28/2014 17:19			
Sample ID:	LCS-32356	Units : mg/L	Run ID: ICP/MS_140128B				Prep Date: 01/28/2014 13:58			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.258	0.01	0.25		103	80	120			
Arsenic (As)	0.265	0.005	0.25		106	80	120			
Selenium (Se)	0.276	0.005	0.25		110	80	120			
Silver (Ag)	0.271	0.005	0.25		108	80	120			
Cadmium (Cd)	0.263	0.002	0.25		105	80	120			
Barium (Ba)	2.59	0.005	2.5		103	80	120			
Mercury (Hg)	0.0051	0.001	0.005		102	80	120			
Lead (Pb)	0.262	0.005	0.25		105	80	120			

### Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	045_	MS	Batch ID: 32356				Analysis Date: 01/28/2014 17:25			
Sample ID:	14012426-25AMS	Units : mg/L	Run ID: ICP/MS_140128B				Prep Date: 01/28/2014 13:58			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.247	0.01	0.25		99	75	125			
Arsenic (As)	0.314	0.005	0.25	0.0617	101	75	125			
Selenium (Se)	0.257	0.005	0.25		103	75	125			
Silver (Ag)	0.256	0.005	0.25		102	75	125			
Cadmium (Cd)	0.255	0.002	0.25	0.0024	101	75	125			
Barium (Ba)	2.5	0.005	2.5	0.0498	98	75	125			
Mercury (Hg)	0.0043	0.001	0.005		86	75	125			
Lead (Pb)	0.275	0.005	0.25	0.0233	100	75	125			

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW6020 / SW6020A							
File ID:	046_	MSD	Batch ID: 32356				Analysis Date: 01/28/2014 17:27			
Sample ID:	14012426-25AMSD	Units : mg/L	Run ID: ICP/MS_140128B				Prep Date: 01/28/2014 13:58			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.265	0.01	0.25		106	75	125	0.2474	6.9(20)	
Arsenic (As)	0.334	0.005	0.25	0.0617	109	75	125	0.314	6.3(20)	
Selenium (Se)	0.275	0.005	0.25		110	75	125	0.2572	6.7(20)	
Silver (Ag)	0.271	0.005	0.25		108	75	125	0.2556	5.9(20)	
Cadmium (Cd)	0.269	0.002	0.25	0.0024	107	75	125	0.2545	5.6(20)	
Barium (Ba)	2.65	0.005	2.5	0.0498	104	75	125	2.501	5.8(20)	
Mercury (Hg)	0.005	0.001	0.005		100	75	125	0.0043	15.1(20)	
Lead (Pb)	0.291	0.005	0.25	0.0233	107	75	125	0.2745	5.9(20)	

### Comments:

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Date:  
03-Feb-14

## QC Summary Report

Work Order:  
14012426

### Method Blank

File ID:	Type	MBLK	Test Code:	SM4500-S D						
Sample ID:	MBLK-W0127SU	Units : mg/L	Run ID:	WETLAB_140127B			Analysis Date:	01/27/2014 00:00		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	ND	0.1								

### Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM4500-S D						
Sample ID:	LCS-W0127SU	Units : mg/L	Run ID:	WETLAB_140127B			Analysis Date:	01/27/2014 00:00		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.1	0.1	1		110	60	140			

### Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM4500-S D						
Sample ID:	14012426-08AMS	Units : mg/L	Run ID:	WETLAB_140127B			Analysis Date:	01/27/2014 00:00		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.06	0.1	1	0	106	51	144			

### Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM4500-S D						
Sample ID:	14012426-08AMSD	Units : mg/L	Run ID:	WETLAB_140127B			Analysis Date:	01/27/2014 00:00		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	1.07	0.1	1	0	107	51	144	1.061	0.5(20)	

### Comments:

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## QC Summary Report

Date:  
03-Feb-14

Work Order:  
14012426

### Method Blank

File ID: 7A01271405.D

Sample ID: MBLK-32343

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	0.148		0.15		99	53	145			

### Laboratory Control Spike

File ID: 7A01271406.D

Sample ID: LCS-32343

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.55	0.05	2.5		102	70	130			
Surr: Nonane	0.137		0.15		91	53	145			

### Sample Matrix Spike

File ID: 7A01271408.D

Sample ID: 14012325-01AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.35	0.05	2.5	0	94	51	151			
Surr: Nonane	0.147		0.15		98	53	145			

### Sample Matrix Spike Duplicate

File ID: 7A01271409.D

Sample ID: 14012325-01AMSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	2.64	0.05	2.5	0	105	51	151	2.35	11.4(40)	
Surr: Nonane	0.097		0.15		65	53	145			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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

Date:  
03-Feb-14

## QC Summary Report

Work Order:  
14012426

### Method Blank

Method Blank		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14012808.D		MBLK	Batch ID: MS09W0128B				Analysis Date: 01/28/2014 14:24			
Sample ID:	MBLK MS09W0128B	Units : mg/L	Run ID: MSD_09_140128A				Prep Date: 01/28/2014 14:24			
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	0.00945		0.01		95	70	130			
Surr: Toluene-d8	0.0103		0.01		103	70	130			
Surr: 4-Bromofluorobenzene	0.00938		0.01		94	70	130			

### Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14012807.D		LCS	Batch ID: MS09W0128B				Analysis Date: 01/28/2014 13:56			
Sample ID:	GLCS MS09W0128B	Units : mg/L	Run ID: MSD_09_140128A				Prep Date: 01/28/2014 13:56			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.425	0.05	0.4		106	70	130			
Surr: 1,2-Dichloroethane-d4	0.00942		0.01		94	70	130			
Surr: Toluene-d8	0.00981		0.01		98	70	130			
Surr: 4-Bromofluorobenzene	0.00932		0.01		93	70	130			

### Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14012920.D		MS	Batch ID: MS09W0128B				Analysis Date: 01/29/2014 17:14			
Sample ID:	14012426-21AGS	Units : mg/L	Run ID: MSD_09_140128A				Prep Date: 01/29/2014 17:14			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.73	0.25	2	0.7488	49	54	143			M2
Surr: 1,2-Dichloroethane-d4	0.0506		0.05		101	70	130			
Surr: Toluene-d8	0.0509		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0454		0.05		91	70	130			

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015B/C / SW8260B							
File ID: 14012921.D		MSD	Batch ID: MS09W0128B				Analysis Date: 01/29/2014 17:38			
Sample ID:	14012426-21AGSD	Units : mg/L	Run ID: MSD_09_140128A				Prep Date: 01/29/2014 17:38			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.96	0.25	2	0.7488	61	54	143	1.734	12.4(23)	
Surr: 1,2-Dichloroethane-d4	0.0485		0.05		97	70	130			
Surr: Toluene-d8	0.051		0.05		102	70	130			
Surr: 4-Bromofluorobenzene	0.0462		0.05		92	70	130			

### Comments:

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





# Alpha Analytical, Inc.

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

Date:  
03-Feb-14

## QC Summary Report

Work Order:  
14012426

### Method Blank

File ID: 14012841.D

Type MBLK

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0128B

Analysis Date: 01/29/2014 01:37

Sample ID: MBLK MS15W0128B

Units : mg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 01:37

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	0.00925		0.01		93	70	130			
Surr: Toluene-d8	0.0104		0.01		104	70	130			
Surr: 4-Bromofluorobenzene	0.0103		0.01		103	70	130			

### Laboratory Control Spike

File ID: 14012839.D

Type LCS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0128B

Analysis Date: 01/29/2014 00:55

Sample ID: GLCS MS15W0128B

Units : mg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 00:55

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.353	0.05	0.4		88	70	130			
Surr: 1,2-Dichloroethane-d4	0.0093		0.01		93	70	130			
Surr: Toluene-d8	0.0104		0.01		104	70	130			
Surr: 4-Bromofluorobenzene	0.0105		0.01		105	70	130			

### Sample Matrix Spike

File ID: 14012859.D

Type MS

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0128B

Analysis Date: 01/29/2014 07:57

Sample ID: 14012426-08AGS

Units : mg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 07:57

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	1.62	0.25	2	0	81	54	143			
Surr: 1,2-Dichloroethane-d4	0.045		0.05		90	70	130			
Surr: Toluene-d8	0.0524		0.05		105	70	130			
Surr: 4-Bromofluorobenzene	0.0535		0.05		107	70	130			

### Sample Matrix Spike Duplicate

File ID: 14012860.D

Type MSD

Test Code: EPA Method SW8015B/C / SW8260B

Batch ID: MS15W0128B

Analysis Date: 01/29/2014 08:18

Sample ID: 14012426-08AGSD

Units : mg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 08:18

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	1.62	20.2(23)	
Surr: 1,2-Dichloroethane-d4	0.0454		0.05		91	70	130			
Surr: Toluene-d8	0.0515		0.05		103	70	130			
Surr: 4-Bromofluorobenzene	0.0541		0.05		108	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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

Date:  
03-Feb-14

## QC Summary Report

Work Order:  
14012426

### Method Blank

File ID: 14012808.D

Sample ID: MBLK MS09W0128A

Type MBLK

Test Code: EPA Method SW8260B

Batch ID: MS09W0128A

Analysis Date: 01/28/2014 14:24

Run ID: MSD\_09\_140128A

Prep Date: 01/28/2014 14:24

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.45		10		95	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.38		10		94	70	130			

### Laboratory Control Spike

File ID: 14012806.D

Sample ID: LCS MS09W0128A

Type LCS

Test Code: EPA Method SW8260B

Batch ID: MS09W0128A

Analysis Date: 01/28/2014 13:34

Run ID: MSD\_09\_140128A

Prep Date: 01/28/2014 13:34

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.98	0.5	10		99.8	70	130			
Toluene	10.7	0.5	10		107	80	120			
Ethylbenzene	10.9	0.5	10		109	80	120			
Xylenes, Total	21.6	0.5	20		108	70	130			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	10.3		10		103	70	130			
Surr: 4-Bromofluorobenzene	9.61		10		96	70	130			

### Sample Matrix Spike

File ID: 14012820.D

Sample ID: 14012426-21AMS

Type MS

Test Code: EPA Method SW8260B

Batch ID: MS09W0128A

Analysis Date: 01/28/2014 18:54

Run ID: MSD\_09\_140128A

Prep Date: 01/28/2014 18:54

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	38	1.3	50	0	76	67	134			
Toluene	39.1	1.3	50	0	78	38	130			
Ethylbenzene	39.9	1.3	50	0	80	70	130			
Xylenes, Total	77.4	1.3	100	0	77	70	130			
Surr: 1,2-Dichloroethane-d4	52.1		50		104	70	130			
Surr: Toluene-d8	49.8		50		99.6	70	130			
Surr: 4-Bromofluorobenzene	49.8		50		99.5	70	130			

### Sample Matrix Spike Duplicate

File ID: 14012821.D

Sample ID: 14012426-21AMSD

Type MSD

Test Code: EPA Method SW8260B

Batch ID: MS09W0128A

Analysis Date: 01/28/2014 19:16

Run ID: MSD\_09\_140128A

Prep Date: 01/28/2014 19:16

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	39.8	1.3	50	0	80	67	134	37.96	4.8(21)	
Toluene	41.9	1.3	50	0	84	38	130	39.12	6.8(20)	
Ethylbenzene	42.4	1.3	50	0	85	70	130	39.9	6.0(20)	
Xylenes, Total	82.8	1.3	100	0	83	70	130	77.43	6.6(22)	
Surr: 1,2-Dichloroethane-d4	51.5		50		103	70	130			
Surr: Toluene-d8	50.5		50		101	70	130			
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130			

### Comments:

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# Alpha Analytical, Inc.

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Date:  
03-Feb-14

## QC Summary Report

Work Order:  
14012426

### Method Blank

Type MBLK Test Code: EPA Method SW8260B

File ID: 14012841.D

Batch ID: MS15W0128A

Analysis Date: 01/29/2014 01:37

Sample ID: MBLK MS15W0128A

Units: µg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 01:37

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	9.25		10		93	70	130			
Surr: Toluene-d8	10.4		10		104	70	130			
Surr: 4-Bromofluorobenzene	10.3		10		103	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8260B

File ID: 14012837.D

Batch ID: MS15W0128A

Analysis Date: 01/29/2014 00:12

Sample ID: LCS MS15W0128A

Units: µg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 00:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	10.6	0.5	10		106	70	130			
Toluene	10.4	0.5	10		104	80	120			
Ethylbenzene	11	0.5	10		110	80	120			
Xylenes, Total	22.8	0.5	20		114	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10		98	70	130			
Surr: Toluene-d8	10.1		10		101	70	130			
Surr: 4-Bromofluorobenzene	10.4		10		104	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8260B

File ID: 14012857.D

Batch ID: MS15W0128A

Analysis Date: 01/29/2014 07:15

Sample ID: 14012426-08AMS

Units: µg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 07:15

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	48	1.3	50		96	67	134			
Toluene	47.9	1.3	50		96	38	130			
Ethylbenzene	50.3	1.3	50		101	70	130			
Xylenes, Total	106	1.3	100	1.55	105	70	130			
Surr: 1,2-Dichloroethane-d4	48		50		96	70	130			
Surr: Toluene-d8	52.1		50		104	70	130			
Surr: 4-Bromofluorobenzene	53.6		50		107	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8260B

File ID: 14012858.D

Batch ID: MS15W0128A

Analysis Date: 01/29/2014 07:36

Sample ID: 14012426-08AMSD

Units: µg/L

Run ID: MSD\_15\_140128A

Prep Date: 01/29/2014 07:36

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	51.5	1.3	50		103	67	134	47.96	7.1(21)	
Toluene	50.5	1.3	50		101	38	130	47.89	5.3(20)	
Ethylbenzene	53	1.3	50		106	70	130	50.28	5.3(20)	
Xylenes, Total	112	1.3	100	1.55	111	70	130	106.5	5.3(22)	
Surr: 1,2-Dichloroethane-d4	46.4		50		93	70	130			
Surr: Toluene-d8	50		50		100	70	130			
Surr: 4-Bromofluorobenzene	52.1		50		104	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**Billing Information :**

**CHAIN-OF-CUSTODY RECORD**

**WA**

**AMENDED**

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

**WorkOrder : ARCW14012426**  
**Report Due By : 5:00 PM On : 07-Feb-14**

**Client:**  
 Arcadis-US  
 1100 Olive Way, Suite 800

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

EDD Required : No

Seattle, WA 98101

Sampled by : Eric Epple

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : 16288, 16287, 11086

Job : WAA000804.2014/KMLT Harbor Island

1 °C

24-Jan-14

24-Jan-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests						Sample Remarks										
					300_0_W	HOLD	METALS_A	SULFIDE_W	TPHE_W	TPHP_W		VOC_W									
ARC14012426-01A	A-5	AQ 01/21/14 15:50	3	0	10																
ARC14012426-02A	A-21	AQ 01/21/14 16:25	3	0	10																
ARC14012426-03A	A-23R	AQ 01/21/14 15:00	3	0	10																
ARC14012426-04A	A-27	AQ 01/22/14 09:15	5	0	10																
ARC14012426-05A	A-28R	AQ 01/22/14 09:45	3	0	10																
ARC14012426-06A	MMW-6	AQ 01/22/14 09:50	3	0	10																
ARC14012426-07A	MMW-7	AQ 01/22/14 15:40	5	0	10																
ARC14012426-08A	MMW-9	AQ 01/22/14 15:48	5	0	10																
ARC14012426-09A	MMW-14	AQ 01/22/14 11:15	3	0	10																
ARC14012426-10A	MMW-18	AQ 01/22/14 10:20	3	0	10																

**Comments:** No security seals. Frozen ice. Client provided temperature blank received at 1°C. Total Xylenes. Amended 1/24/14 14:30 to change sample ID for 25A. per phone conversation with Eric KM.

Signature: [Signature] Print Name: [Name] Company: Alpha Analytical, Inc. Date/Time: 1/24/14 1430

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information :**

**CHAIN-OF-CUSTODY RECORD**

**WA AMENDED**  
Page: 2 of 3

**Alpha Analytical, Inc.**

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

**WorkOrder : ARCW14012426**  
**Report Due By : 5:00 PM On : 07-Feb-14**

**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

Seattle, WA 98101

Sampled by : Eric Epple

**PO :**

Cooler Temp **1 °C** Samples Received 24-Jan-14 Date Printed 24-Jan-14

Client's COC # : 16288, 16287, 11086 Job : WA000804.2014/KMLT Harbor Island

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests							Sample Remarks			
					300_0_W	HOLD	METALS_A	SULFIDE_W	TPHE_W	TPHP_W	VOC_W				
ARC14012426-11A	NMW-19	AQ 01/22/14 10:35	5	0	10		S04								
ARC14012426-12A	NMW-21	AQ 01/22/14 14:40	9	0	10			NWTPH-Dx	NWTPH-Gx	BTXE_C					
ARC14012426-13A	NMW-23	AQ 01/21/14 16:50	3	0	10				NWTPH-Gx	BTXE_C					
ARC14012426-14A	NMW-24	AQ 01/22/14 09:05	3	0	10				NWTPH-Gx	BTXE_C					
ARC14012426-15A	TMW-1	AQ 01/22/14 11:15	5	0	10		S04		NWTPH-Gx	BTXE_C					
ARC14012426-16A	TMW-2	AQ 01/22/14 12:00	5	0	10		S04		NWTPH-Gx	BTXE_C					
ARC14012426-17A	TMW-3	AQ 01/22/14 14:30	5	0	10		S04		NWTPH-Gx	BTXE_C					
ARC14012426-18A	TMW-4	AQ 01/22/14 15:05	5	0	10		S04		NWTPH-Gx	BTXE_C					
ARC14012426-19A	TMW-5	AQ 01/22/14 13:05	5	0	10		S04		NWTPH-Gx	BTXE_C					
ARC14012426-20A	TMW-6	AQ 01/22/14 16:20	5	0	10		S04		NWTPH-Gx	BTXE_C					

Comments: No security seals. Frozen ice. Client provided temperature blank received at 1°C. Total Xylenes. Amended 1/24/14 14:30 to change sample ID for 25 A, per phone conversation with Eric.KM.

Logged in by:     *E. Murphy*         *E. Murphy*         Alpha Analytical, Inc.         1/24/14 1430    

Signature \_\_\_\_\_ Print Name \_\_\_\_\_ Company \_\_\_\_\_ Date/Time \_\_\_\_\_

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**WA AMENDED** 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 : **ARCW14012426**  
 Report Due By : **5:00 PM On : 07-Feb-14**

Client: Arcadis-US  
 1100 Olive Way, Suite 800

EDD Required : No

Seattle, WA 98101

Sampled by : Eric Epple

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : 16288, 16287, 11086 Job : WA000804.2014/KMLT Harbor Island

1 °C

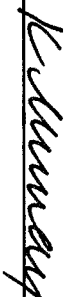
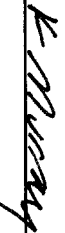
24-Jan-14

24-Jan-14

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

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub TAT	Requested Tests						Sample Remarks	
					300_0_W	HOLD	METALS_A Q	SULFIDE_W	TPHE_W	TPHP_W		VOC_W
ARC14012426-21A	11	AQ 01/22/14 14:00	5	0	10		SO4			NWTPH-GX	BTXE_C	
ARC14012426-22A	12	AQ 01/22/14 13:10	5	0	10		SO4			NWTPH-GX	BTXE_C	
ARC14012426-23A	DUP-1	AQ 01/22/14 00:00	3	0	10					NWTPH-GX	BTXE_C	Sampling date logged in per vofa labels.
ARC14012426-24A	TRIP BLANK	AQ 01/21/14 00:00	2	0	10		Hold					Reno Trip Blanks 10/3/13
ARC14012426-25A	DRUM-1	AQ 01/22/14 17:00	7	0	10					NWTPH-GX	BTXE_C	

Comments: No security seals. Frozen ice. Client provided temperature blank received at 1°C. Total Xylenes. Amended 1/24/14 14:30 to change sample ID for 25A, per phone conversation with Eric KM.

Signature		Print Name		Company	Alpha Analytical, Inc.	Date/Time	1/24/14 1430
-----------	-----------------------------------------------------------------------------------	------------	-------------------------------------------------------------------------------------	---------	------------------------	-----------	--------------

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 : AQAqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orto T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

# WA

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

**WorkOrder : ARCW14012426**  
**Report Due By : 5:00 PM On : 07-Feb-14**

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

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

EDD Required : No

Sampled by : Eric Epple

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : 16288, 16287, 11086

Job : WAA000804.2014/KMLT Harbor Island

1 °C

24-Jan-14

24-Jan-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests							Sample Remarks									
					300_0_LW	HOLD	METALS_A	SULFIDE_W	TPHE_W	TPHP_W	VOC_W										
ARC14012426-01A	A-5	AQ 01/21/14 15:50	3	0	10																
ARC14012426-02A	A-21	AQ 01/21/14 16:25	3	0	10																
ARC14012426-03A	A-23R	AQ 01/21/14 15:00	3	0	10																
ARC14012426-04A	A-27	AQ 01/22/14 09:15	5	0	10																
ARC14012426-05A	A-28R	AQ 01/22/14 09:45	3	0	10																
ARC14012426-06A	MW-6	AQ 01/22/14 09:50	3	0	10																
ARC14012426-07A	MW-7	AQ 01/22/14 15:40	5	0	10																
ARC14012426-08A	MW-9	AQ 01/22/14 15:48	5	0	10																
ARC14012426-09A	MW-14	AQ 01/22/14 11:15	3	0	10																
ARC14012426-10A	MW-18	AQ 01/22/14 10:20	3	0	10																

Comments: No security seals. Frozen ice. Client provided temperature blank received at 1 °C. Total Xylenes :

Signature: *William* Print Name: William Company: Alpha Analytical, Inc. Date/Time: 1/24/14 12:40

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 : ARCW14012426**  
**Report Due By : 5:00 PM On : 07-Feb-14**

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

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

EDD Required : No

Sampled by : Eric Epple

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : 16288, 16287, 11086 Job : WA000804.2014/KML\_T Harbor Island

1 °C

24-Jan-14

24-Jan-14

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub TAT	Requested Tests						Sample Remarks
					300_0_W	HOLD	METALS_A	SULFIDE_W	TPHE_W	TPHP_W	
ARC14012426-11A	MMW-19	AQ 01/22/14 10:35	5	0	10		Sulfide	NWTPH-Gx	BTXE_C		
ARC14012426-12A	MMW-21	AQ 01/22/14 14:40	9	0	10			NWTPH-Dx	NWTPH-Gx	BTXE_C	
ARC14012426-13A	MMW-23	AQ 01/22/14 16:50	3	0	10			NWTPH-Gx	BTXE_C		
ARC14012426-14A	MMW-24	AQ 01/22/14 09:05	3	0	10			NWTPH-Gx	BTXE_C		
ARC14012426-15A	TMW-1	AQ 01/22/14 11:15	5	0	10			NWTPH-Gx	BTXE_C		
ARC14012426-16A	TMW-2	AQ 01/22/14 12:00	5	0	10			NWTPH-Gx	BTXE_C		
ARC14012426-17A	TMW-3	AQ 01/22/14 14:30	5	0	10			NWTPH-Gx	BTXE_C		
ARC14012426-18A	TMW-4	AQ 01/22/14 15:05	5	0	10			NWTPH-Gx	BTXE_C		
ARC14012426-19A	TMW-5	AQ 01/22/14 13:05	5	0	10			NWTPH-Gx	BTXE_C		
ARC14012426-20A	TMW-6	AQ 01/22/14 16:20	5	0	10			NWTPH-Gx	BTXE_C		

Comments: No security seals. Frozen ice. Client provided temperature blank received at 1°C. Total Xylenes. :

Logged in by: K Murray Signature: [Signature] Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 1/24/14 12:40

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other



# CHAIN-OF-CUSTODY RECORD

# WA

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

**WorkOrder : ARCW14012426**  
**Report Due By : 5:00 PM On : 07-Feb-14**

**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

Seattle, WA 98101

Sampled by : Eric Epple

PO :

Cooler Temp

Samples Received

Date Printed

Client's COC # : 16288, 16287, 11086

Job : WA000804.2014/KMLT Harbor Island

1 °C

24-Jan-14

24-Jan-14

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

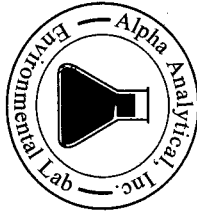
Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha Sub	TAT	Requested Tests						Sample Remarks	
					300_0_W	HOLD	METALS_AI Q	SULFIDE_W	TPHE_W	TPHP_W		VOC_W
ARC14012426-21A	11	01/22/14 14:00	5	0	10		S04			NWTPH-GX	BIXE_C	
ARC14012426-22A	12	01/22/14 13:10	5	0	10		S04			NWTPH-GX	BIXE_C	
ARC14012426-23A	DUP-1	01/22/14 00:00	3	0	10					NWTPH-GX	BIXE_C	Sampling date logged in per voa labels.
ARC14012426-24A	TRIP BLANK	01/21/14 00:00	2	0	10			Hold				Reno Trip Blanks 10/3/13
ARC14012426-25A	DRUM	01/22/14 17:00	7	0	10					NWTPH-GX	BIXE_C	Voas labeled DRUM-1, logged in per client chain.

**Comments:** No security seals. Frozen ice. Client provided temperature blank received at 1°C. Total Xylenes. :

Logged in by: K Murray    Signature: \_\_\_\_\_    Print Name: K Murray    Company: Alpha Analytical, Inc.    Date/Time: 1/24/14 12:40

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: Kindler Morgan Energy Partners  
 Attn: Robert Truex  
 Address: 1140 Central Blvd  
Richmond, VA 23104  
 City, State, Zip: 570-C-23-1618  
 Phone Number: ARCADIS



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 95827  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolite Hwy., #310, Eiko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

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Page # 1 of 3

Company: ARCADIS US, Inc.  
 Address: 1100 Olive Way  
Seattle, WA 98101  
 City, State, Zip: ARCADIS

Job and Purchase Order Info:  
 Job #: WA000304.2014  
 Job Name: KMLT Harbor Island  
 P.O. #:

Report Attention/Project Manager:  
 Name: Jordan Flomenoff  
 Email Address: Jordan.Flomenoff@arcadis-us.com  
 Phone #: 206-726-4712  
 Cell #:

QC Deliverable Info:  
 EDD Required? Yes / No  
 EDF Required? Yes / No  
 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 NWTR-62	BTEX by 3200P	Sulfate by 300.0	Sulfide by 4500 S-D				
1550	01/21	AQ	ARC/4012426-01	A-5	10-11	3V	X		X	X						
1625	01/21			A-21		3V	X		X	X						
1500	01/21			A-23R		3V	X		X	X						
0915	01/22			A-27		3V	X		X	X						
0945	01/22			A-28R		3V	X		X	X						
0950	01/22			MW-6		3V	X		X	X						
1540	01/22			MW-7		3V	X		X	X						
1548	01/22			MW-9		3V	X		X	X						
1115	01/22			MW-14		3V	X		X	X						
1026	01/22			MW-18		3V	X		X	X						
1035	01/22	AQ		MW-19	10-11	3V	X		X	X						

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (2).

Sampled By: Eric Ferris Date: 1/23/14 Time: 12:00 Received By: (Signature/Affiliation): K. Munnery/AM Date: 1/24/14 Time: 12:20

Relinquished by: (Signature/Affiliation): Eric Ferris / ARCADIS Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

\* Key: AQ - Aqueous WA - Waste OT - Other So-Soil \*\* L - Liter V - VOA S - Soil Jar O - Orbo T - Tecliar 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.

Company: **Richard Morgan Energy Partners**  
 Attn: **Robert Tomlinson**  
 Address: **1148 Cheryl Drive, Richmond, CA 94804**  
 City, State, Zip: **Richmond, CA 94804**  
 Phone Number: **570-672-1612** Fax:



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Satellite Service Centers:  
 Northern CA: 9691 Horn Road, Suite C, Rancho Cordova, CA 95627  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746  
 Northern NV: 1250 Lamolite Hwy., #310, Eiko, NV 89801  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

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Page # 2 of 3

Company: **ARCADIS-VE, Inc.**  
 Address: **1100 Olive Way, Seattle, WA 98101**  
 City, State, Zip:

Job and Purchase Order Info:  
 Job #: **WAD00804, 2014**  
 Job Name: **KMLT Harbor Island**

Report Attention/Project Manager:  
 Name: **Sonathia Elongor-Fitzgerald**  
 Email Address: **sonathia@arcadis-usa.com**  
 Phone #: **206-726-4712**

QC Deliverable Info:  
 EDD Required? Yes / No  
 EDF Required? Yes / No

Samples Collected from which State? (circle one) **AR** CA KS NV OR WA DOD Site Other

Time Sampled (HH:MM)	Date (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	CRO by NWTPH-6x	DRO by NWTPH-Dx	HO by NWTPH-Dx	BTEX by 8200B	Sulfate by 300.0	Sulfide by 4500 S-D					
1400	01/22	AQ	ARC14012426-12	MW-21	10-Days	9V	X		X	X	X	X	X	X	X				
1550	01/21			MW-23		3V	X		X	X	X	X	X	X	X				
0905	01/22			MW-24		3V	X		X	X	X	X	X	X	X				
1115	01/22			TMW-1		3V 1PT	X		X	X	X	X	X	X	X				
1200	01/22			TMW-2			X		X	X	X	X	X	X	X				
1430	01/22			TMW-3			X		X	X	X	X	X	X	X				
1505	01/22			TMW-4			X		X	X	X	X	X	X	X				
1505	01/22			TMW-5			X		X	X	X	X	X	X	X				
1620	01/22			TMW-6			X		X	X	X	X	X	X	X				
1400	01/22					4	X		X	X	X	X	X	X	X				
1510	01/22	AQ			10-Days	3V 1PT	X		X	X	X	X	X	X	X				

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. MAC 445,0636 (c) (2).

Sampled By: **Eric Espie** Date: **1/23/14** Time: **12:00** Received By: (Signature/Affiliation): **Williamery/AA** Date: **1/29/14** Time: **1220**

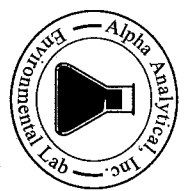
Relinquished by: (Signature/Affiliation): **Eric Espie** Date: **1/23/14** Time: **12:00** Received By: (Signature/Affiliation): **Williamery/AA** Date: **1/29/14** Time: **1220**

Relinquished by: (Signature/Affiliation): **Eric Espie** Date: **1/23/14** Time: **12:00** Received By: (Signature/Affiliation): **Williamery/AA** Date: **1/29/14** Time: **1220**

\* 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: Andrew Morgan Energy Partners  
 Attn: Robert T. Lindinger  
 Address: 1140 Copal Blvd  
Redmond, CA 94504  
 City, State, Zip:  
 Phone Number: 570-671-1489 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 95827  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044  
 Fax: 775-355-0405  
 Phone: 916-366-9089  
 Phone: 702-281-4848  
 Phone: 714-386-2901

Page # 3 of 3  
 11086

**Company:** ARCADIS - US, Inc.  
**Address:** 1100 Olive Way  
Seattle, WA 98101  
**City, State, Zip:**

**Job and Purchase Order Info:**  
**Job #:** WAD00854-2014  
**Job Name:** ICMLT Harbor Island  
**P.O. #:**

**Report Attention/Project Manager:**  
**Name:** Jonathan F. Jones, FELT  
**Email Address:** Jonathan.F.Jones@arcadisus.com  
**Phone #:** 206-736-9712  
**Call #:**

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

Samples Collected from which State? (circle one) AZ CA NV WA ID OR DOD Site Other

Time Sampled (HH:MM)	Date Sampled (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
—	—	AQ	ARC14012426-23	DUP-1	10 Days	No	3	GRO by NWTPH-GW	
—	—	AQ		TRIP BLANK	10 Days	No	1	BTEX by R260B	
1700	01/22	AQ		DRUM	10 Days	No	7	RCRA 8 Metals	On Hold

ADDITIONAL INSTRUCTIONS:

I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled by: Eric Epile Date: 1/23/14 Time: 12:00 Received by: (Signature/Affiliation):  
 Relinquished by: (Signature/Affiliation): Eric Epile Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature/Affiliation): [Signature] Date: 1/24/14 Time: 12:20

Relinquished by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature/Affiliation): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

\* Key: AQ - Aqueous WA - Waste OT - Other \*\* L - Lier V - VOA S - Soil Jar O - Orho 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.



**Attachment 8**

BART™ Testing Summary and  
Photo Log

## **Purpose**

ARCADIS conducted testing for presence of sulfate-reducing bacteria using Hach BART™ type SRB-BART field test kits to determine the distribution of sulfate-reducing bacteria following the land application of sulfate at Kinder Morgan Harbor Island. These tests, in conjunction with geochemical parameters provide evidence of enhanced biologically-driven attenuation of hydrocarbons via sulfate-reducing bacteria.

## **Methods**

During groundwater sampling conducted on January 22, 2014, ARCADIS collected eight groundwater samples from the approximate midpoint between the static water level and total depth of the well screen using a peristaltic pump for BART™ analysis. The groundwater samples were collected from wells 11, MW-7, MW-9, TMW-1, TMW-2, TMW-3, TMW-4, TMW-5, and TMW-6. Samples were purged into unpreserved plastic outer tubes at rates of lower than 500 milliliters per minute, filled to near zero headspace with discharge tubing placed to minimize agitation of the sample, and placed in an iced cooler for transport to the ARCADIS office.

Once transported to the office, the samples were poured into the Hach-provided inner tubes filled to the 15-milliliter mark, threaded caps were placed on the inner tubes, then the inner tubes were placed in the outer tubes, which were capped with threaded caps in accordance with the directions provided by Hach. The samples were placed away from direct sunlight and in a labeled box to prevent disturbance.

BART™ samples were observed and photographed on 11 occasions between January 22 and February 6, 2014: at days 1, 2, 5 through 9, and 12 through 15.

## **Results**

Monitoring wells MW-7 and TMW-5 showed the most aggressive formation of sulfate-reducing bacteria, however all wells tested showed non-aggressive formation of sulfate-reducing bacteria populations. The interpretation of the bacteria present based on the Hach-provided instructions is provided in the table below. Formation of sulfate-reducing bacteria by day 5 or sooner is considered aggressive, while formation later than day 8 is considered not aggressive or background levels.

Day	1	2	5	6	7	8	9	12	13	14	15
11	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
MW-7	NB	NB	NB	NB	NB	NB	NB	ASRB	ASRB	ASRB	ASRB
MW-9	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
TMW-1	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
TMW-2	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
TMW-3	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
TMW-4	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
TMW-5	NB	NB	NB	NB	NB	NB	NB	ASRB/ ANSRB	ASRB/ ANSRB	ASRB/ ANSRB	ASRB/ ANSRB
TMW-6	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB

NB = No Sulfate Reducing Bacteria Evident, ASRB = Aerobic Sulfate Reducing Bacteria Evident, ANSRB = Anaerobic Sulfate Reducing Bacteria Evident



Photo No.: 1  
Date: January 22, 2014

Description:  
Biological Activity Reaction Test  
(BART™) Day 1



Photo No.: 2  
Date: February 3, 2014

Description:  
Non-aggressive aerobic sulfate reducing bacteria presence in groundwater on day 12, as evidenced by black ring on ball in sample collected from MW-7 (at left) compared to absence of black coloration in samples from wells MW-9 and 11 (at right).





Photo No.: 3  
Date: February 5, 2014

Description:  
Increased aerobic sulfate reducing bacteria in groundwater from well MW-7 and continued absence in groundwater from wells MW-9 and 11 on day 14.



Photo No.: 4  
Date: February 5, 2014

Description:  
Non-aggressive combination of anaerobic and aerobic sulfate reducing bacteria presence in groundwater on day 14, as evidenced by black formation on the ball and black mass in the base of the vial in the sample collected from well TMW-5 compared to absence of black coloration in samples from wells TMW-4 and TMW-6.



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Project No.: WA000804.2014  
Project Name: KMLT – Harbor Island  
City/State: Seattle, WA



Photo No.: 5  
Date: February 5, 2014

Description: Absence of sulfate reducing bacteria in groundwater samples from wells TMW-1 through TMW-3 on day 14, as shown by the lack of black formations on the ball or in the water column.