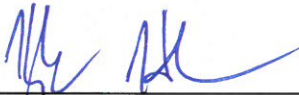
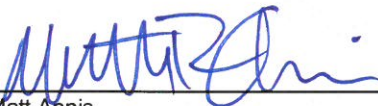


**First Semiannual 2015 Groundwater  
Monitoring Report**

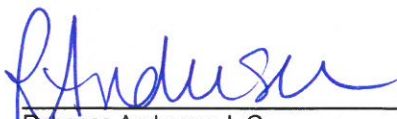
**Kinder Morgan Harbor Island Terminal  
KMLT File No. 29.79.02 (81171)  
2720 13<sup>th</sup> Avenue Southwest  
Seattle, Washington 98134**



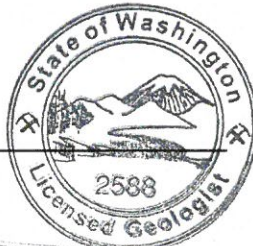
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**First Semiannual 2015  
Groundwater Monitoring Report**  
Kinder Morgan Harbor Island  
Terminal  
KMLT File No. 29.79.02 (81171)  
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Attachment A	<i>Site-Wide Groundwater Compliance Monitoring Plan - Proposed Reduced Monitoring</i>
	<i>Technical Revision Request</i>
	<i>Ecology Approval Letter</i>
	<i>Revised Site Groundwater Monitoring Plan</i>
	<i>Ecology Approval Emails</i>
Attachment B	Groundwater Monitoring Field Data Sheets
Attachment C	Laboratory Reports and Chain-of-Custody Documentation

## 1. Introduction

ARCADIS U.S., Inc. (ARCADIS) has prepared this report to present the findings of the first semiannual 2015 groundwater monitoring and sampling event and the first semiannual 2015 remedial performance monitoring at the Kinder Morgan Liquids Terminals (KMLT), LLC Harbor Island Terminal located in Seattle, Washington (site). A site location map is included as Figure 1.

Compliance groundwater monitoring and sampling was performed on March 17 and 18, 2015 in accordance with the KMLT *Revised Site Groundwater Monitoring Plan* (Revised Monitoring Plan [ARCADIS 2014]). Additionally, low-flow groundwater sampling techniques were used in accordance with the Technical Revision Request (Delta 2008), presented in Attachment A.

In the second quarter of 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* (EDR [ARCADIS 2012a]). Details of this remedial action and baseline performance monitoring can be found in the *Remedial Action Report – B and D Yards* (ARCADIS 2013). The results of the previous performance monitoring events have been summarized in prior reports and the analytical data are presented in the attached tables.

### 1.1 Site Description

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

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

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

**1.2 Regulatory Background**

Groundwater cleanup levels for the site were determined by the Washington Department of Ecology (Ecology) to meet surface water standards that are protective of aquatic organisms in Elliott Bay and were also determined based on 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 organics (GRO), diesel-range organics (DRO), and heavy oil (HO) were selected as the cleanup goals. The approved *Site-Wide Groundwater Compliance Monitoring Plan - Proposed Reduced Monitoring* (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
GRO	1.0 mg/L
DRO	10 mg/L
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**

The first semiannual 2015 compliance groundwater monitoring and sampling activities were performed in accordance with the Revised Monitoring Plan (ARCADIS 2014), which proposed revisions to the Reduced Monitoring Plan (Delta 2007), including a reduction in the frequency of sampling in select wells. Ecology approved the Revised Monitoring Plan on August 13, 2014. As part of the Revised Monitoring Plan, natural attenuation parameters are collected semiannually at the same time as compliance monitoring. The above referenced documents are presented as part of Attachment A.

The scope of work for the first semiannual 2015 sampling event included:

- Measuring depth to water and separate phase hydrocarbons (SPH) in 44 monitoring wells
- Purging 13 monitoring wells using low-flow sampling methods
- Collecting groundwater samples from 13 monitoring wells
- Submitting groundwater samples to Alpha Analytical, Inc. of Sparks, Nevada (Alpha) for laboratory analyses
- Preparing and submitting a semiannual 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 EDR (ARCADIS 2012a) and ARCADIS' Response to Comments (RTC [ARCADIS 2012b]). The scope of work for performance monitoring included quarterly groundwater sampling for approximately 12 months after remedial construction concluded in June 2013. The first semiannual performance monitoring



event was conducted in conjunction with compliance monitoring on March 17 and 18, 2015 and included:

- Measuring depth to water and 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 semiannual groundwater monitoring report.

Six monitoring wells (11, 12, A-27, MW-19, MW-7 and MW-9) included in the first semiannual 2015 performance monitoring scope are also included in the first semiannual 2015 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 13 wells on March 17 and 18, 2015.

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

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

- GRO according to Northwest Method NWTPH-Gx
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX collectively) according to EPA Method 8260B
- Methane according to EPA Method RSK-175
- Total Iron according to EPA Method 6020
- Ferrous iron according to Standard Method 3500-Fe B
- Sulfate and nitrate according to EPA Method 300.0
- Sulfide according to Standard Method 4500-S D.

The groundwater sample from monitoring well MW-21 was also analyzed for DRO and HO with silica gel cleanup according to Northwest Method NWTPH-Dx. Samples from monitoring wells A-5 and MW-18 were analyzed for GRO and BTEX only.

Blind duplicate samples were collected from groundwater monitoring wells MW-7 and MW-23. 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 Semiannual 2015 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 March 17 and 18, 2015 for the first semiannual 2015 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 low flow 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:

- GRO according to Northwest Method NWTPH-Gx
- BTEX according to EPA Method 8260B
- Methane according to EPA Method RSK-175
- Ferrous iron according to Standard Method 3500-Fe B
- Sulfate and nitrate according to EPA Method 300.0
- Sulfide according to Standard Method 4500-S D.

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

### 3. Summary of Results

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

#### 3.1 Water Level Measurements

Water levels for the semiannual compliance monitoring event were measured on March 17, 2015 using an electronic oil-water interface probe. Measurable SPH was observed in A-6 (0.1 feet) and an absorbent sock was placed in the well.

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 6.13 feet amsl (MW-25) and 10.28 feet amsl (MW-19). The groundwater elevation data are presented in Table 1 and a groundwater elevation contour map for the event is presented on Figure 3; however, the A Yard does not include groundwater contours due to inconsistent groundwater elevations which do not indicate a defined groundwater flow direction. The inconsistency is likely a result of subsurface infrastructure and associated soil fill as well as the impervious asphalt cap across the A Yard.

### 3.1.1 Passive SPH Recovery

During previous groundwater monitoring events, measurable SPH or sheen 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 the third quarter 2013 when absorbent socks were removed 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 on October 2, 2013 in well A-6, at a thickness of 0.04 foot. A new absorbent sock has been replaced quarterly in this well since the fourth quarter 2013 event. No measurable SPH or sheen were observed in any well during the third quarter 2014 event and absorbent socks were removed from wells A-6, 12, and MW-19. During the first semiannual 2015 event, SPH was observed in well A-6 at a thickness of 0.1 feet. An absorbent sock was placed in the well and quarterly gauging and absorbent sock replacement will be conducted on A-6 in accordance with the Revised Monitoring Plan (ARCADIS 2014) and the Ecology Approval Emails (Ecology 2014).

### 3.2 Compliance Monitoring Groundwater Analytical Results

During the first semiannual 2015 monitoring event, groundwater samples contained the following constituents of concern:

- GRO concentrations ranging from less than the laboratory method reporting limit (MRL) (<0.25 mg/L) to 28 mg/L in the sample collected from monitoring well MW-24
- DRO with silica gel cleanup (SGC) concentration was less than the MRL (<0.25 mg/L) in the sample collected from MW-21
- HO with SGC concentrations was less than the MRL (<0.50 mg/L) in the sample collected from MW-21
- Benzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 1.4 mg/L in the sample collected from monitoring well MW-24

- Toluene concentrations ranging from less than the MRL (<0.0005 mg/L) to 0.066 mg/L in the sample collected from monitoring well MW-24
- Ethylbenzene concentrations ranging from less than the MRL (<0.0005 mg/L) to 1.8 mg/L in the sample collected from monitoring well MW-24
- Total xylenes concentrations ranging from less than the MRL (<0.0005 mg/L) to 2.6 mg/L in the sample collected from monitoring well MW-24

Groundwater samples collected from wells 11, A-21, MW-9, MW-18 and MW-21 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 Semiannual Analytical Results

Groundwater samples collected during the first semiannual 2015 performance monitoring event contained GRO concentrations ranging from less than the MRL (<0.25 mg/L) in samples collected from monitoring wells 11, TMW-1, TMW-2, and MW-9 to 7.5 mg/L in the sample collected from monitoring well TMW-4. Benzene concentrations during the first semiannual 2015 performance monitoring event ranged from less than the MRL (<0.0005 mg/L) in monitoring wells 11, TMW-1, TMW-2 and TMW-3 to 0.21 mg/L in monitoring well TMW-4. Sulfate concentrations during the first semiannual 2015 performance monitoring event ranged from 1.9 mg/L in monitoring well MW-19 to 1,500 mg/L in monitoring well TMW-2. Sulfide concentrations during the first semiannual 2015 performance monitoring event were detected above the MRL (<0.10 mg/L) in monitoring wells TMW-5 (0.20 mg/L) and MW-7 (0.16 mg/L), with concentrations in all other performance monitoring wells below the MRL.

### 3.4 Data Validation

Groundwater samples collected during the first semiannual 2015 compliance and performance monitoring event on March 17 and 18, 2015 were processed within their specified hold times.

The MRLs reported by Alpha were less than the site specific cleanup levels. Alpha reported the method and laboratory control samples within acceptable limits, with the exception of low matrix spike (MS) and the recovery of the GRO surrogate 1,2-dichloroethane-d4 exceeded the laboratory control limit from samples collected from monitoring wells A-27, A-28R, MW-23 and TMW-5. Duplicate samples were collected from MW-7 and MW-23 during the first semiannual 2015 compliance monitoring and were analyzed for GRO and BTEX.

## 4. Conclusions

### 4.1 Compliance Monitoring

The concentrations of COCs observed during the first semiannual 2015 compliance monitoring event are generally consistent, and in many cases continue to decrease, compared 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.

Measurable SPH was observed in well A-6 during the first semiannual 2015 sampling event. A-6 will be gauged quarterly with concurrent passive SPH removal in accordance with the Revised Monitoring Plan (ARCADIS 2014). GRO and DRO concentrations remain stable or are decreasing across the site. However, MW-19, is located upgradient of the remedial treatment area and therefore the analytical results indicate somewhat fluctuating dissolved phase GRO concentrations.

### 4.2 Sulfate Land Application

#### 4.2.1 First Semiannual 2015 Analytical Results

Sulfate concentrations remain elevated (>100 mg/L) in ten of the twelve performance monitoring wells as a result of the land application. An average sulfate concentration of

657 mg/L was calculated from the first semiannual 2015 sampling results. This average decreased relative to the third quarter 2014 average of 1,058 mg/L, likely due to low infiltration or partial exhaustion of the sulfate media. Despite this decrease, sulfate concentrations remain sufficiently high to support anaerobic biological oxidation (ABOx) of site COCs. Constituent trend graphs for monitoring wells 11, 12, MW-7, MW-19, and TMW-1 through TMW-6 are presented on Graphs 1 through Graphs 10, respectively. The irrigation system was started on April 15, 2015 and will be operated to increase infiltration and continue delivery of sulfate to the groundwater system.

An increase in GRO and benzene concentrations (relative to baseline concentrations) was observed at most performance monitoring wells during the first performance monitoring event in the third quarter of 2013. This trend is 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 mass exists. GRO and benzene concentrations subsequent to this initial trend have exhibited a decreasing or stable trend in nine performance monitoring wells (11, 12, A-27, MW-7, MW-9, TMW-1, TMW-2, TMW-3, TMW-6).

GRO concentrations were below the site specific cleanup levels in wells 11, MW-9, TMW-1, TMW-2, and TMW-3 during the first semiannual 2015 event. Exceptions to the general GRO trend are observed at MW-19, TMW-4, and TMW-5, which will be further assessed as ongoing performance monitoring is conducted. MW-19 is located at the upgradient edge of the land application area and thus sulfate concentrations have not increased to target levels or been sustained which is likely attributing to the lack of decreasing GRO at this location. TMW-5 and TMW-4 are located on the periphery of the land application area and downgradient of tanks and potentially seeing COC mass influence from underneath tanks uninfluenced by the land application.

Since the baseline monitoring event in June 2013, benzene concentrations were less than the site specific cleanup level in nine performance monitoring wells (11, 12, MW-7, MW-9, MW-19, TMW-1, TMW-2, TMW-3, and TMW-6). Wells A-27, TMW-4, and TMW-5 have been monitored with benzene concentrations greater than the site specific cleanup level since the baseline monitoring event but are relatively stable or decreasing.

## 5. References

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

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

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

ARCADIS U.S., Inc. 2014. 2014 Revised Site Groundwater Monitoring Plan, Kinder Morgan Liquid Terminals. April 30.

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

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

Washington State Department of Ecology, 2014, Email Approval of Revised Site Groundwater Monitoring Plan, Received August 13, 2014.



## 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	

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

# 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	11/16/10	13.22	7.11	--	6.11	
A-4	03/01/11	13.22	6.66	--	6.56	
A-4	05/23/11	13.22	6.84	Sheen	6.38	
A-4	08/29/11	13.22	7.50	--	5.72	
A-4	12/01/11	13.22	7.16	--	6.06	
A-4	03/01/12	13.22	--	--	--	Not Measured
A-4	05/30/12	13.22	6.88	--	6.34	
A-4	08/25/12	13.22	7.17	--	6.05	
A-4	11/07/12	13.22	6.77	--	6.45	
A-4	02/28/13	13.22	6.69	--	6.53	
A-4	04/08/13	13.22	6.83	--	6.39	
A-4	07/29/13	13.22	7.23	--	5.99	
A-4	10/02/13	13.22	5.10	--	8.12	
A-4	01/21/14	13.22	7.12	--	6.10	
A-4	04/22/14	13.22	6.71	--	6.51	
A-4	07/15/14	13.22	7.09	--	6.13	
A-4	03/17/15	13.22	3.74	--	9.48	
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	

# 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	11/16/09	14.13	7.70	--	6.43	
A-5	03/08/10	14.13	7.21	--	6.92	
A-5	06/07/10	14.13	7.74	--	6.39	
A-5	09/09/10	14.13	8.26	--	5.87	
A-5	11/15/10	14.13	7.85	--	6.28	
A-5	03/01/11	14.13	7.47	--	6.66	
A-5	05/23/11	14.13	7.58	--	6.55	
A-5	08/29/11	14.13	8.17	--	5.96	
A-5	12/01/11	14.13	7.89	--	6.24	
A-5	03/01/12	14.13	7.62	--	6.51	
A-5	05/30/12	14.13	7.67	--	6.46	
A-5	08/25/12	14.13	7.91	--	6.22	
A-5	11/07/12	14.13	7.54	--	6.59	
A-5	02/27/13	14.13	7.59	--	6.54	
A-5	04/08/13	14.13	7.56	--	6.57	
A-5	07/29/13	14.13	7.88	--	6.25	
A-5	10/02/13	14.13	7.64	--	6.49	
A-5	01/21/14	14.13	7.92	--	6.21	
A-5	04/22/14	14.13	7.50	--	6.63	
A-5	07/15/14	14.13	7.85	--	6.28	
A-5	03/17/15	14.13	7.45	--	6.68	
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	

# 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	03/03/08	12.81	6.59	--	6.22	
A-6	06/02/08	12.81	7.05	Sheen	5.76	
A-6	09/04/08	12.81	7.19	Sheen	5.62	
A-6	12/04/08	12.81	7.15	Sheen	5.66	
A-6	03/04/09	12.81	6.51	Sheen	6.30	
A-6	06/01/09	12.81	7.00	Sheen	5.81	
A-6	09/21/09	12.81	7.24	Sheen	5.57	
A-6	11/16/09	12.81	6.50	Sheen	6.31	
A-6	03/08/10	12.81	6.14	--	6.67	
A-6	06/07/10	12.81	6.71	Sheen	6.10	
A-6	09/09/10	12.81	7.12	--	5.69	
A-6	11/15/10	12.81	6.79	Sheen	6.02	
A-6	03/01/11	12.81	6.38	Sheen	6.43	
A-6	05/23/11	12.81	6.52	Sheen	6.29	
A-6	08/29/11	12.81	7.04	0.03	5.79*	
A-6	12/01/11	12.81	6.95	Sheen	5.86	
A-6	03/01/12	12.81	6.60	--	6.21	
A-6	05/30/12	12.81	6.58	--	6.23	
A-6	08/25/12	12.81	7.18	--	5.63	
A-6	11/07/12	12.81	6.61	--	6.20	
A-6	02/27/13	12.81	6.54	--	6.27	
A-6	04/08/13	12.81	6.46	--	6.35	
A-6	07/29/13	12.81	6.83	--	5.98	
A-6	10/02/13	12.81	6.66	Sheen	6.15	0.04 ft of SPH observed. Absorbent sock placed in well.
A-6	01/21/14	12.81	6.80	--	6.01	
A-6	04/22/14	12.81	6.32	--	6.49	
A-6	07/15/14	12.81	6.69	--	6.12	
A-6	03/17/15	12.81	6.30	0.10	6.59	Absorbent sock placed in well
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	

# 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	02/11/02	10.46	6.98	--	3.48	
A-8	05/20/02	10.46	8.87	--	1.59	
A-8	08/27/02	10.46	7.26	--	3.20	
A-8	11/04/02	10.46	8.51	--	1.95	
A-8	02/18/03	10.46	4.83	--	5.63	
A-8	06/09/03	10.46	8.11	--	2.35	
A-8	09/15/03	14.61	8.38	--	6.23	
A-8	11/18/03	14.61	7.87	Sheen	6.74	
A-8	02/24/04	14.61	7.43	--	7.18	
A-8	05/10/04	14.61	8.04	--	6.57	
A-8	08/24/04	14.61	8.18	--	6.43	
A-8	12/13/04	14.61	7.90	--	6.71	
A-8	03/08/05	14.61	8.11	--	6.50	
A-8	06/06/05	14.61	7.98	--	6.63	
A-8	09/19/05	14.61	8.44	--	6.17	
A-8	12/12/05	14.61	8.22	--	6.39	
A-8	03/13/06	14.61	7.49	--	7.12	
A-8	06/05/06	14.61	7.89	--	6.72	
A-8	09/11/06	14.61	8.45	--	6.16	
A-8	12/11/06	14.61	7.66	--	6.95	
A-8	03/26/07	14.61	7.71	--	6.90	
A-8	06/18/07	14.61	8.27	--	6.34	
A-8	09/24/07	14.61	8.50	--	6.11	
A-8	12/10/07	14.61	7.44	--	7.17	
A-8	03/03/08	14.61	7.83	--	6.78	
A-8	06/02/08	14.61	8.20	--	6.41	
A-8	09/04/08	14.61	--	--	--	Inaccessible
A-8	12/04/08	14.61	8.20	--	6.41	
A-8	03/04/09	14.61	7.70	--	6.91	
A-8	06/01/09	14.61	8.11	--	6.50	
A-8	09/21/09	14.61	8.37	--	6.24	
A-8	11/16/09	14.61	7.70	--	6.91	
A-8	03/08/10	14.61	7.31	--	7.30	
A-8	06/07/10	14.61	7.85	--	6.76	
A-8	09/09/10	14.61	8.28	--	6.33	
A-8	11/15/10	14.61	7.94	--	6.67	
A-8	03/01/11	14.61	7.56	--	7.05	
A-8	05/23/11	14.61	7.70	--	6.91	
A-8	08/29/11	14.61	8.21	--	6.40	
A-8	12/01/11	14.61	8.06	--	6.55	
A-8	03/01/12	14.61	7.74	--	6.87	
A-8	05/30/12	14.61	7.87	--	6.74	
A-8	08/25/12	14.61	7.97	--	6.64	
A-8	11/07/12	14.61	7.63	--	6.98	
A-8	02/27/13	14.61	8.71	--	5.90	
A-8	04/08/13	14.61	7.67	--	6.94	
A-8	07/29/13	14.61	7.98	--	6.63	
A-8	10/02/13	14.61	7.75	--	6.86	

# 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	01/21/14	14.61	7.98	--	6.63	
A-8	04/22/14	14.61	7.52	--	7.09	
A-8	07/15/14	14.61	7.89	--	6.72	
A-8	03/17/15	14.61	7.41	--	7.20	
A-9	02/11/02	10.35	7.20	0.01	3.16*	
A-9	05/20/02	10.35	8.86	--	1.49	
A-9	08/27/02	10.35	8.27	Sheen	2.08	
A-9	11/04/02	10.35	8.39	0.01	1.97*	
A-9	02/18/03	10.35	7.45	--	2.90	
A-9	06/09/03	10.35	8.06	--	2.29	
A-9	09/15/03	14.42	8.03	--	6.39	
A-9	11/18/03	14.42	7.62	--	6.80	
A-9	02/24/04	14.42	7.21	--	7.21	
A-9	05/10/04	14.42	8.00	--	6.42	
A-9	08/24/04	14.42	8.18	--	6.24	
A-9	12/13/04	14.42	7.73	--	6.69	
A-9	03/08/05	14.42	8.00	--	6.42	
A-9	06/06/05	14.42	7.89	--	6.53	
A-9	09/19/05	14.42	8.28	--	6.14	
A-9	12/12/05	14.42	8.04	--	6.38	
A-9	03/13/06	14.42	7.37	--	7.05	
A-9	06/05/06	14.42	7.79	--	6.63	
A-9	09/11/06	14.42	8.36	--	6.06	
A-9	12/11/06	14.42	7.46	--	6.96	
A-10	02/11/02	9.48	6.15	--	3.33	
A-10	05/20/02	9.48	7.98	--	1.50	
A-10	08/27/02	9.48	7.34	Sheen	2.14	
A-10	11/04/02	9.48	7.54	Sheen	1.94	
A-10	02/18/03	9.48	6.57	--	2.91	
A-10	06/09/03	9.48	7.15	--	2.33	
A-10	09/15/03	13.51	7.45	Sheen	6.06	
A-10	11/18/03	13.51	6.95	Sheen	6.56	
A-10	02/24/04	13.51	6.50	Sheen	7.01	
A-10	05/10/04	13.51	7.15	Sheen	6.36	
A-10	08/24/04	13.51	7.31	--	6.20	
A-10	12/13/04	13.51	6.95	--	6.56	
A-10	03/08/05	13.51	7.17	--	6.34	
A-10	06/06/05	13.51	7.01	--	6.50	
A-10	09/19/05	13.51	7.54	--	5.97	
A-10	12/12/05	13.51	7.25	--	6.26	
A-10	03/13/06	13.51	6.58	--	6.93	
A-10	06/05/06	13.51	6.92	--	6.59	
A-10	09/11/06	13.51	7.43	--	6.08	
A-10	12/11/06	13.51	6.59	--	6.92	
A-10	03/26/07	13.51	6.83	--	6.68	
A-10	06/18/07	13.51	7.29	--	6.22	
A-10	09/24/07	13.51	7.44	--	6.07	



# 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	12/10/07	13.51	6.79	--	6.72	
A-10	03/03/08	13.51	7.83	--	5.68	
A-10	06/02/08	13.51	7.31	--	6.20	
A-10	09/04/08	13.51	7.23	--	6.28	
A-10	12/04/08	13.51	6.87	--	6.64	
A-10	03/04/09	13.51	6.90	--	6.61	
A-10	06/01/09	13.51	7.18	--	6.33	
A-10	09/21/09	13.51	7.39	--	6.12	
A-10	11/16/09	13.51	6.84	--	6.67	
A-10	03/08/10	13.51	6.34	--	7.17	
A-10	06/07/10	13.51	6.84	--	6.67	
A-10	09/09/10	13.51	7.34	--	6.17	
A-10	11/15/10	13.51	6.93	--	6.58	
A-10	03/01/11	13.51	6.60	--	6.91	
A-10	05/23/11	13.51	6.68	--	6.83	
A-10	08/29/11	13.51	7.25	--	6.26	
A-10	12/01/11	13.51	6.96	--	6.55	
A-10	03/01/12	13.51	6.72	--	6.79	
A-10	05/30/12	13.51	6.72	--	6.79	
A-10	08/25/12	13.51	7.30	--	6.21	
A-10	11/07/12	13.51	7.08	--	6.43	
A-10	02/27/13	13.51	6.64	--	6.87	
A-10	04/08/13	13.51	6.61	--	6.90	
A-10	07/29/13	13.51	6.95	--	6.56	
A-10	10/02/13	13.51	6.46	--	7.05	
A-10	01/21/14	13.51	7.05	--	6.46	
A-10	04/22/14	13.51	6.65	--	6.86	
A-10	07/15/14	13.51	7.50	--	6.01	
A-10	03/17/15	13.51	6.48	--	7.03	
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	

# 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	09/11/06	14.40	8.32	--	6.08	
A-11	12/11/06	14.40	7.42	--	6.98	
A-11	12/10/07	14.40	7.64	--	6.76	
A-11	03/03/08	14.40	7.39	--	7.01	
A-11	03/04/09	14.40	7.70	--	6.70	
A-11	06/01/09	14.40	8.00	--	6.40	
A-11	09/21/09	14.40	8.26	--	6.14	
A-11	11/16/09	14.40	7.65	--	6.75	
A-11	03/08/10	14.40	7.20	--	7.20	
A-11	06/07/10	14.40	7.69	--	6.71	
A-11	09/09/10	14.40	8.20	--	6.20	
A-11	11/15/10	14.40	7.78	--	6.62	
A-11	03/01/11	14.40	7.43	--	6.97	
A-11	05/23/11	14.40	7.52	--	6.88	
A-11	08/29/11	14.40	8.09	--	6.31	
A-11	12/01/11	14.40	7.82	--	6.58	
A-11	03/01/12	14.40	7.55	--	6.85	
A-11	05/30/12	14.40	7.42	--	6.98	
A-11	08/25/12	14.40	7.63	--	6.77	
A-11	11/07/12	14.40	7.41	--	6.99	
A-11	02/27/13	14.40	7.42	--	6.98	
A-11	04/08/13	14.40	7.42	--	6.98	
A-11	07/29/13	14.40	7.75	--	6.65	
A-11	10/02/13	14.40	7.66	--	6.74	
A-11	01/21/14	14.40	7.93	--	6.47	
A-11	04/22/14	14.40	7.56	--	6.84	
A-11	07/15/14	14.40	7.91	--	6.49	
A-11	03/17/15	14.40	7.35	--	7.05	
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	

# 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	12/10/07	12.95	6.43	--	6.52	
A-12	03/03/08	12.95	6.50	--	6.45	
A-12	03/04/09	12.95	6.39	--	6.56	
A-12	06/01/09	12.95	6.86	--	6.09	
A-12	09/21/09	12.95	7.02	--	5.93	
A-12	11/16/09	12.95	6.38	--	6.57	
A-12	03/08/10	12.95	6.00	--	6.95	
A-12	06/07/10	12.95	6.54	--	6.41	
A-12	09/09/10	12.95	6.95	--	6.00	
A-12	11/15/10	12.95	6.60	--	6.35	
A-12	03/01/11	12.95	6.24	--	6.71	
A-12	05/23/11	12.95	6.34	--	6.61	
A-12	08/29/11	12.95	6.87	--	6.08	
A-12	12/01/11	12.95	6.66	--	6.29	
A-12	03/01/12	12.95	6.46	--	6.49	
A-12	05/30/12	12.95	6.35	--	6.60	
A-12	08/25/12	12.95	6.57	--	6.38	
A-12	11/07/12	12.95	6.27	--	6.68	
A-12	02/27/13	12.95	6.32	--	6.63	
A-12	04/08/13	12.95	6.28	--	6.67	
A-12	07/29/13	12.95	6.58	--	6.37	
A-12	10/02/13	12.95	6.41	--	6.54	
A-12	01/21/14	12.95	6.67	--	6.28	
A-12	04/22/14	12.95	6.29	--	6.66	
A-12	07/15/14	12.95	6.62	--	6.33	
A-12	03/17/15	12.95	6.13	--	6.82	
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*	

# 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	10/12/05	14.21	8.01	--	6.20	
A-14R	12/12/05	14.21	7.95	--	6.26	
A-14R	03/13/06	14.21	7.26	--	6.95	
A-14R	06/05/06	14.21	7.64	--	6.57	
A-14R	09/11/06	14.21	8.15	--	6.06	
A-14R	12/11/06	14.21	7.30	--	6.91	
A-14R	03/26/07	14.21	7.51	--	6.70	
A-14R	06/18/07	14.21	7.98	--	6.23	
A-14R	09/24/07	14.21	8.18	--	6.03	
A-14R	12/10/07	14.21	7.51	--	6.70	
A-14R	03/03/08	14.21	7.56	--	6.65	
A-14R	06/02/08	14.21	8.02	--	6.19	
A-14R	09/04/08	14.21	7.71	--	6.50	
A-14R	12/04/08	14.21	7.92	--	6.29	
A-14R	03/04/09	14.21	7.62	--	6.59	
A-14R	06/01/09	14.21	7.91	--	6.30	
A-14R	09/21/09	14.21	8.08	--	6.13	
A-14R	11/16/09	14.21	7.57	--	6.64	
A-14R	03/08/10	14.21	7.05	--	7.16	
A-14R	06/07/10	14.21	7.56	--	6.65	
A-14R	09/09/10	14.21	8.05	--	6.16	
A-14R	11/15/10	14.21	7.63	--	6.58	
A-14R	03/01/11	14.21	7.31	--	6.90	
A-14R	05/23/11	14.21	7.40	--	6.81	
A-14R	08/29/11	14.21	7.97	--	6.24	
A-14R	12/01/11	14.21	7.68	--	6.53	
A-14R	03/01/12	14.21	7.42	--	6.79	
A-14R	05/30/12	14.21	7.44	--	6.77	
A-14R	08/25/12	14.21	7.59	--	6.62	
A-14R	11/07/12	14.21	7.33	--	6.88	
A-14R	02/27/13	14.21	7.38	--	6.83	
A-14R	04/08/13	14.21	7.34	--	6.87	
A-14R	07/29/13	14.21	7.67	--	6.54	
A-14R	10/02/13	14.21	7.51	--	6.70	
A-14R	01/21/14	14.21	7.76	--	6.45	
A-14R	04/22/14	14.21	7.36	--	6.85	
A-14R	07/15/14	14.21	7.76	--	6.45	
A-14R	03/17/15	14.21	7.22	--	6.99	
A-15	03/27/01	--	--	--	--	Destroyed during construction activities
A-15	Destroyed during construction activities					
A-16	02/11/02	10.49	7.23	0.01	3.27*	
A-16	05/20/02	10.49	9.03	--	1.46	
A-16	08/27/02	10.49	8.41	0.04	2.11*	
A-16	11/04/02	10.49	8.81	0.28	1.90*	
A-16	02/18/03	10.49	7.51	Sheen	2.98	
A-16	06/09/03	10.49	8.16	--	2.33	
A-16	09/15/03	14.39	8.80	0.01	5.60*	

# 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	11/18/03	14.39	7.74	--	6.65	
A-16	02/24/04	14.39	7.54	--	6.85	
A-16	05/10/04	14.39	8.50	0.31	6.14*	
A-16	08/24/04	14.39	9.03	0.82	6.02*	
A-16	12/13/04	14.39	8.08	Sheen	6.31	
A-16	03/08/05	14.39	7.90	Sheen	6.49	
A-16	06/06/05	14.39	8.05	Sheen	6.34	
A-16	09/19/05	14.39	9.24	0.90	5.87*	
A-16	10/12/05	14.39	9.38	1.20	5.97*	
A-16	12/12/05	14.39	8.22	--	6.17	
A-16	03/13/06	14.39	7.75	--	6.64	
A-16	06/05/06	14.39	7.98	--	6.41	
A-16	09/11/06	14.39	9.20	0.90	5.91*	
A-16	12/11/06	14.39	7.69	Sheen	6.70	
A-16	03/26/07	14.39	7.78	Sheen	6.61	
A-16	06/18/07	14.39	8.45	0.34	6.21*	
A-16	09/24/07	14.39	8.45	0.02	5.96*	
A-16	12/10/07	14.39	7.65	0.01	6.75*	
A-16	03/03/08	14.39	7.88	Sheen	6.51	
A-16	06/02/08	14.39	8.77	0.04	5.65*	
A-16	09/04/08	14.39	7.38	0.04	7.04*	
A-16	12/04/08	14.39	8.27	--	6.12	
A-16	03/04/09	14.39	7.95	--	6.44	
A-16	06/01/09	14.39	8.50	Sheen	5.89	
A-16	09/21/09	14.39	8.80	0.35	5.87*	
A-16	11/16/09	14.39	7.95	Sheen	6.44	
A-16	03/08/10	14.39	7.40	--	6.99	
A-16	06/07/10	14.39	7.91	Sheen	6.48	
A-16	09/09/10	14.39	8.92	0.09	5.54*	
A-16	11/15/10	14.39	8.21	Sheen	6.18	
A-16	03/01/11	14.39	7.65	--	6.74	
A-16	05/23/11	14.39	7.79	--	6.60	
A-16	08/29/11	14.39	8.52	0.10	5.95*	
A-16	12/01/11	14.39	8.24	Sheen	6.15	
A-16	03/01/12	14.39	7.94	Sheen	6.45	
A-16	05/30/12	14.39	7.67	--	6.72	
A-16	08/25/12	14.39	7.79	--	6.60	
A-16	11/07/12	14.39	7.56	--	6.83	
A-16	02/27/13	14.39	7.66	--	6.73	
A-16	04/08/13	14.39	7.56	--	6.83	
A-16	07/29/13	14.39	7.88	--	6.51	
A-16	10/02/13	14.39	7.46	--	6.93	
A-16	01/21/14	14.39	8.05	--	6.34	
A-16	04/22/14	14.39	7.66	--	6.73	
A-16	07/15/14	14.39	8.04	--	6.35	
A-16	03/17/15	14.39	7.55	--	6.84	
A-17	02/11/02	9.51	6.09	--	3.42	
A-17	05/20/02	9.51	7.92	--	1.59	

# Table 1

## Groundwater Elevation Data

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-17	08/27/02	9.51	7.33	--	2.18	
A-17	11/04/02	9.51	8.52	--	0.99	
A-17	02/18/03	9.51	6.51	--	3.00	
A-17	06/09/03	9.51	7.19	--	2.32	
A-17	09/15/03	13.41	7.43	--	5.98	
A-17	11/18/03	13.41	7.85	--	5.56	
A-17	02/24/04	13.41	6.47	--	6.94	
A-17	05/10/04	13.41	7.11	--	6.30	
A-17	08/24/04	13.41	7.12	--	6.29	
A-17	12/13/04	13.41	6.90	--	6.51	
A-17	03/08/05	13.41	7.15	--	6.26	
A-17	06/06/05	13.41	6.89	--	6.52	
A-17	09/19/05	13.41	7.55	--	5.86	
A-17	12/12/05	13.41	7.24	--	6.17	
A-17	03/13/06	13.41	6.50	--	6.91	
A-17	06/05/06	13.41	6.94	--	6.47	
A-17	09/11/06	13.41	8.34	--	5.07	
A-17	12/11/06	13.41	6.79	--	6.62	
A-18	02/11/02	10.72	7.42	--	3.30	
A-18	05/20/02	10.72	9.22	--	1.50	
A-18	08/27/02	10.72	8.59	--	2.13	
A-18	11/04/02	10.72	9.80	--	0.92	
A-18	02/18/03	10.72	8.36	--	2.36	
A-18	06/09/03	10.72	8.36	--	2.36	
A-18	09/15/03	14.74	8.65	--	6.09	
A-18	11/18/03	14.74	8.22	--	6.52	
A-18	02/24/04	14.74	7.06	--	7.68	
A-18	05/10/04	14.74	8.50	--	6.24	
A-18	08/24/04	14.74	8.56	--	6.18	
A-18	12/13/04	14.74	8.23	--	6.51	
A-18	03/08/05	14.74	8.33	--	6.41	
A-18	06/06/05	14.74	8.21	--	6.53	
A-18	09/19/05	14.74	8.67	0.02	6.09*	
A-18	10/12/05	14.74	8.55	--	6.19	
A-18	12/12/05	14.74	8.42	--	6.32	
A-18	03/13/06	14.74	7.74	--	7.00	
A-18	06/05/06	14.74	8.14	--	6.60	
A-18	09/11/06	14.74	8.63	--	6.11	
A-18	12/11/06	14.74	7.78	--	6.96	
A-18	12/10/07	14.74	7.81	--	6.93	
A-18	03/03/08	14.74	8.03	--	6.71	
A-18	03/04/09	14.74	8.07	--	6.67	
A-18	06/01/09	14.74	8.34	--	6.40	
A-18	09/21/09	14.74	8.57	--	6.17	
A-18	11/16/09	14.74	8.07	--	6.67	
A-18	03/08/10	14.74	7.54	--	7.20	
A-18	06/07/10	14.74	8.00	--	6.74	
A-18	09/09/10	14.74	8.53	--	6.21	

# 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	11/15/10	14.74	8.11	--	6.63	
A-18	03/01/11	14.74	7.75	--	6.99	
A-18	05/23/11	14.74	7.85	--	6.89	
A-18	08/29/11	14.74	8.44	--	6.30	
A-18	12/01/11	14.74	8.11	--	6.63	
A-18	03/01/12	14.74	7.83	--	6.91	
A-18	05/30/12	14.74	7.75	--	6.99	
A-18	08/25/12	14.74	7.89	--	6.85	
A-18	11/07/12	14.74	7.68	--	7.06	
A-18	02/27/13	14.74	7.72	--	7.02	
A-18	04/08/13	14.74	7.05	--	7.69	
A-18	07/29/13	14.74	7.99	--	6.75	
A-18	10/02/13	14.74	7.93	--	6.81	
A-18	01/21/14	14.74	8.27	--	6.47	
A-18	04/22/14	14.74	7.84	--	6.90	
A-18	07/15/14	14.74	8.21	--	6.53	
A-18	03/17/15	14.74	7.70	--	7.04	
A-19	02/11/02	10.76	7.52	0.07	3.30*	
A-19	05/20/02	10.76	9.19	--	1.57	
A-19	08/27/02	10.76	7.61	Sheen	3.15	
A-19	11/04/02	10.76	8.79	0.01	1.98*	
A-19	02/18/03	10.76	7.70	Sheen	3.06	
A-19	06/09/03	10.76	8.35	0.01	2.42*	
A-19	09/15/03	14.57	8.71	0.01	5.87*	
A-19	11/18/03	14.57	7.69	0.01	6.89*	
A-19	02/24/04	14.57	7.81	Sheen	6.76	
A-19	05/10/04	14.57	8.35	Sheen	6.22	
A-19	08/24/04	14.57	8.68	Sheen	5.89	
A-19	12/13/04	14.57	7.98	Sheen	6.59	
A-19	03/08/05	14.57	8.28	--	6.29	
A-19	06/06/05	14.57	7.26	--	7.31	
A-19	09/19/05	14.57	8.66	0.03	5.93*	
A-19	10/12/05	14.57	8.55	0.02	6.04*	
A-19	12/12/05	14.57	8.46	0.06	6.16*	
A-19	03/13/06	14.57	7.65	--	6.92	
A-19	06/05/06	14.57	8.10	--	6.47	
A-19	09/11/06	14.57	8.63	0.03	5.96*	
A-19	12/11/06	14.57	7.65	--	6.92	
A-19	03/26/07	14.57	7.89	--	6.68	
A-19	06/18/07	14.57	8.36	--	6.21	
A-19	09/25/07	14.57	8.64	--	5.93	
A-19	12/10/07	14.57	7.82	--	6.75	
A-19	03/03/08	14.57	7.95	--	6.62	
A-19	06/02/08	14.57	9.84	--	4.73	
A-19	09/04/08	14.57	8.30	--	6.27	
A-19	12/04/08	14.57	8.99	--	5.58	
A-19	03/04/09	14.57	7.89	--	6.68	
A-19	06/01/09	14.57	10.47	--	4.10	

# 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	09/21/09	14.57	8.53	--	6.04	
A-19	11/16/09	14.57	7.87	--	6.70	
A-19	03/08/10	14.57	7.45	--	7.12	
A-19	06/07/10	14.57	7.19	--	7.38	
A-19	09/09/10	14.57	8.41	--	6.16	
A-19	11/15/10	14.57	7.94	--	6.63	
A-19	03/01/11	14.57	7.72	--	6.85	
A-19	05/23/11	14.57	7.82	--	6.75	
A-19	08/29/11	14.57	8.39	--	6.18	
A-19	12/01/11	14.57	8.14	--	6.43	
A-19	03/01/12	14.57	7.82	--	6.75	
A-19	05/30/12	14.57	7.75	--	6.82	
A-19	08/25/12	14.57	7.88	--	6.69	
A-19	11/07/12	14.57	7.22	--	7.35	
A-19	02/27/13	14.57	7.68	--	6.89	
A-19	04/08/13	14.57	7.68	--	6.89	
A-19	07/29/13	14.57	7.93	--	6.64	
A-19	10/02/13	14.57	7.78	--	6.79	
A-19	01/21/14	14.57	8.86	--	5.71	
A-19	04/22/14	14.57	7.72	--	6.85	
A-19	07/15/14	14.57	8.01	--	6.56	
A-19	03/17/15	14.57	7.61	--	6.96	
A-20	02/11/02	10.30	7.16	--	3.14	
A-20	05/20/02	10.30	9.76	--	0.54	
A-20	08/27/02	10.30	5.19	--	5.11	
A-20	11/04/02	10.30	8.39	--	1.91	
A-20	02/18/03	10.30	7.38	--	2.92	
A-20	06/09/03	10.30	7.95	--	2.35	
A-20	09/15/03	14.19	8.25	--	5.94	
A-20	11/18/03	14.19	7.70	--	6.49	
A-20	02/24/04	14.19	7.29	0.02	6.92*	
A-20	05/10/04	14.19	7.99	--	6.20	
A-20	08/24/04	14.19	8.18	--	6.01	
A-20	12/13/04	14.19	7.65	--	6.54	
A-20	03/08/05	14.19	7.89	--	6.30	
A-20	06/06/05	14.19	7.81	--	6.38	
A-20	09/19/05	14.19	8.25	0.01	5.95*	
A-20	10/12/05	14.19	8.12	--	6.07	
A-20	12/12/05	14.19	8.00	--	6.19	
A-20	03/13/06	14.19	7.25	--	6.94	
A-20	06/05/06	14.19	7.72	--	6.47	
A-20	09/11/06	14.19	8.22	--	5.97	
A-20	12/11/06	14.19	7.28	--	6.91	
A-20	03/26/07	14.19	7.51	--	6.68	
A-20	06/18/07	14.19	7.98	--	6.21	
A-20	09/25/07	14.19	8.19	--	6.00	
A-20	12/10/07	14.19	7.45	--	6.74	
A-20	03/03/08	14.19	7.55	--	6.64	



# 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	06/02/08	14.19	8.48	--	5.71	
A-20	09/04/08	14.19	7.92	--	6.27	
A-20	12/04/08	14.19	7.99	--	6.20	
A-20	03/04/09	14.19	7.19	--	7.00	
A-20	06/01/09	14.19	8.38	--	5.81	
A-20	09/21/09	14.19	8.11	--	6.08	
A-20	11/16/09	14.19	7.43	--	6.76	
A-20	03/08/10	14.19	7.15	--	7.04	
A-20	06/07/10	14.19	7.54	--	6.65	
A-20	09/09/10	14.19	8.03	--	6.16	
A-20	11/15/10	14.19	7.51	--	6.68	
A-20	03/01/11	14.19	7.34	--	6.85	
A-20	05/23/11	14.19	7.45	--	6.74	
A-20	08/29/11	14.19	8.03	--	6.16	
A-20	12/01/11	14.19	7.70	--	6.49	
A-20	03/01/12	14.19	7.41	--	6.78	
A-20	05/30/12	14.19	7.30	--	6.89	
A-20	08/25/12	14.19	7.46	--	6.73	
A-20	11/07/12	14.19	6.61	--	7.58	
A-20	02/27/13	14.19	7.21	--	6.98	
A-20	04/08/13	14.19	6.96	--	7.23	
A-20	07/29/13	14.19	7.46	--	6.73	
A-20	10/02/13	14.19	7.40	--	6.79	
A-20	01/21/14	14.19	7.77	--	6.42	
A-20	04/22/14	14.19	7.38	--	6.81	
A-20	07/15/14	14.19	7.66	--	6.53	
A-20	03/17/15	14.19	7.27	--	6.92	
A-21	02/11/02	10.40	7.18	--	3.22	
A-21	05/20/02	10.40	9.88	Sheen	0.52	
A-21	08/27/02	10.40	8.28	--	2.12	
A-21	11/04/02	10.40	8.50	--	1.90	
A-21	02/18/03	10.40	7.47	--	2.93	
A-21	06/09/03	10.40	8.01	--	2.39	
A-21	09/15/03	14.35	8.65	--	5.70	
A-21	11/18/03	14.35	7.86	--	6.49	
A-21	02/24/04	14.35	7.43	--	6.92	
A-21	05/10/04	14.35	8.10	--	6.25	
A-21	08/24/04	14.35	8.29	--	6.06	
A-21	12/13/04	14.35	7.75	--	6.60	
A-21	03/08/05	14.35	8.00	--	6.35	
A-21	06/06/05	14.35	7.90	--	6.45	
A-21	09/19/05	14.35	8.24	--	6.11	
A-21	12/12/05	14.35	8.15	--	6.20	
A-21	03/13/06	14.35	7.38	--	6.97	
A-21	06/05/06	14.35	7.21	--	7.14	
A-21	09/11/06	14.35	8.31	--	6.04	
A-21	12/11/06	14.35	7.44	--	6.91	
A-21	03/26/07	14.35	7.64	--	6.71	

# 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	06/18/07	14.35	8.15	--	6.20	
A-21	09/25/07	14.35	8.30	--	6.05	
A-21	12/10/07	14.35	7.62	--	6.73	
A-21	03/03/08	14.35	7.67	--	6.68	
A-21	06/02/08	14.35	8.18	--	6.17	
A-21	09/04/08	14.35	8.09	--	6.26	
A-21	12/04/08	14.35	8.07	--	6.28	
A-21	03/04/09	14.35	7.51	--	6.84	
A-21	06/01/09	14.35	8.03	--	6.32	
A-21	09/21/09	14.35	8.27	--	6.08	
A-21	11/16/09	14.35	7.68	--	6.67	
A-21	03/08/10	14.35	7.26	--	7.09	
A-21	06/07/10	14.35	7.66	--	6.69	
A-21	09/09/10	14.35	8.19	--	6.16	
A-21	11/15/10	14.35	7.73	--	6.62	
A-21	03/01/11	14.35	7.42	--	6.93	
A-21	05/23/11	14.35	7.56	--	6.79	
A-21	08/29/11	14.35	8.11	--	6.24	
A-21	12/01/11	14.35	7.81	--	6.54	
A-21	03/01/12	14.35	7.53	--	6.82	
A-21	05/30/12	14.35	7.37	--	6.98	
A-21	08/25/12	14.35	7.49	--	6.86	
A-21	11/07/12	14.35	7.04	--	7.31	
A-21	02/27/13	14.35	7.32	--	7.03	
A-21	04/08/13	14.35	7.23	--	7.12	
A-21	07/29/13	14.35	7.59	--	6.76	
A-21	10/02/13	14.35	7.57	--	6.78	
A-21	01/21/14	14.35	8.71	--	5.64	
A-21	04/22/14	14.35	7.59	--	6.76	
A-21	07/15/14	14.35	7.82	--	6.53	
A-21	03/17/15	14.35	7.40	--	6.95	
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*	
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	

# 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	09/19/05	14.11	8.11	0.01	6.01*	
A-22R	10/12/05	14.11	8.22	0.20	6.05*	
A-22R	12/12/05	14.11	7.87	--	6.24	
A-22R	03/13/06	14.11	7.15	--	6.96	
A-22R	06/05/06	14.11	7.75	--	6.36	
A-22R	09/11/06	14.11	8.16	--	5.95	
A-22R	12/11/06	14.11	7.14	--	6.97	
A-22R	03/26/07	14.11	7.34	--	6.77	
A-22R	06/18/07	14.11	7.86	--	6.25	
A-22R	12/10/07	14.11	7.38	--	6.73	
A-22R	03/03/08	14.11	7.47	--	6.64	
A-22R	06/02/08	14.11	8.90	--	5.21	
A-22R	09/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	12/04/08	14.11	--	--	--	Not Measured-Sock in well
A-22R	03/04/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	06/01/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	09/21/09	14.11	--	--	--	Not Measured-Sock in well
A-22R	11/16/09	14.11	7.36	--	6.75	
A-22R	03/08/10	14.11	6.95	--	7.16	
A-22R	06/07/10	14.11	7.52	--	6.59	
A-22R	09/09/10	14.11	7.94	--	6.17	
A-22R	11/15/10	14.11	7.92	--	6.19	
A-22R	03/01/11	14.11	7.21	--	6.90	
A-22R	05/23/11	14.11	7.35	--	6.76	
A-22R	08/29/11	14.11	7.87	--	6.24	
A-22R	12/01/11	14.11	7.75	--	6.36	
A-22R	03/01/12	14.11	7.37	--	6.74	
A-22R	05/30/12	14.11	7.48	--	6.63	
A-22R	08/25/12	14.11	7.62	--	6.49	
A-22R	11/07/12	14.11	7.18	--	6.93	
A-22R	02/27/13	14.11	7.38	--	6.73	
A-22R	04/08/13	14.11	7.31	--	6.80	
A-22R	07/29/13	14.11	7.64	--	6.47	
A-22R	10/02/13	14.11	7.01	--	7.10	
A-22R	01/21/14	14.11	7.63	--	6.48	
A-22R	04/22/14	14.11	7.11	--	7.00	
A-22R	07/15/14	14.11	7.46	--	6.65	
A-22R	03/17/15	14.11	7.04	--	7.07	
A-23	06/14/01	--	--	--	--	Destroyed during construction activities
A-23	Destroyed during construction activities					
A-23R	02/11/02	11.73	8.53	--	3.20	
A-23R	05/20/02	11.73	10.23	--	1.50	
A-23R	08/27/02	11.73	6.63	--	5.10	
A-23R	11/04/02	11.73	9.81	--	1.92	
A-23R	02/18/03	11.73	8.75	--	2.98	
A-23R	06/09/03	11.73	9.35	--	2.38	
A-23R	09/15/03	15.57	10.03	--	5.54	

# 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	11/18/03	15.57	7.85	--	7.72	
A-23R	02/24/04	15.57	8.05	--	7.52	
A-23R	05/10/04	15.57	8.69	--	6.88	
A-23R	08/24/04	15.57	7.69	--	7.88	
A-23R	12/13/04	15.57	9.22	--	6.35	
A-23R	03/08/05	15.57	9.38	--	6.19	
A-23R	06/07/05	15.57	9.35	--	6.22	
A-23R	09/20/05	15.57	9.68	--	5.89	
A-23R	12/12/05	15.57	9.20	--	6.37	
A-23R	03/13/06	15.57	8.69	--	6.88	
A-23R	06/08/06	15.57	9.13	--	6.44	
A-23R	09/11/06	15.57	10.03	--	5.54	
A-23R	12/11/06	15.57	8.72	--	6.85	
A-23R	03/26/07	15.57	8.94	--	6.63	
A-23R	06/18/07	15.57	9.37	--	6.20	
A-23R	09/25/07	--	--	--	--	Not Measured-Inaccessible
A-23R	12/10/07	15.57	8.91	--	6.66	
A-23R	03/03/08	15.57	9.00	--	6.57	
A-23R	06/02/08	15.57	9.22	--	6.35	
A-23R	09/04/08	15.57	--	--	--	Not Measured-Inaccessible
A-23R	12/04/08	15.57	9.34	--	6.23	
A-23R	03/04/09	15.57	9.81	--	5.76	
A-23R	06/01/09	15.57	9.26	--	6.31	
A-23R	09/21/09	15.57	9.51	--	6.06	
A-23R	11/16/09	15.57	8.94	--	6.63	
A-23R	03/08/10	15.57	8.48	--	7.09	
A-23R	06/07/10	15.57	8.95	--	6.62	
A-23R	09/09/10	15.57	9.45	--	6.12	
A-23R	11/16/10	15.57	9.01	--	6.56	
A-23R	03/01/11	15.57	8.68	--	6.89	
A-23R	05/24/11	15.57	8.85	--	6.72	
A-23R	08/29/11	15.57	9.41	--	6.16	
A-23R	12/01/11	15.57	9.09	--	6.48	
A-23R	03/01/12	15.57	8.79	--	6.78	
A-23R	05/30/12	15.57	8.73	--	6.84	
A-23R	08/25/12	15.57	--	--	--	Inaccessible due to site access issues
A-23R	11/07/12	15.57	8.52	--	7.05	
A-23R	02/27/13	15.57	8.45	--	7.12	
A-23R	04/08/13	15.57	8.63	--	6.94	
A-23R	07/29/13	15.57	8.92	--	6.65	
A-23R	10/02/13	15.57	8.81	--	6.76	
A-23R	01/21/14	15.57	9.16	--	6.41	
A-23R	04/22/14	15.57	5.74	--	9.83	
A-23R	07/15/14	15.57	9.11	--	6.46	
A-23R	03/17/15	15.57	6.33	--	9.24	
A-24	10/06/00	--	--	--	--	Destroyed during construction activities
A-24	Destroyed during construction activities					

# Table 1



## Groundwater Elevation Data

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

Well ID	Date Measured	Casing Elevation (feet)	Depth to Groundwater (BTOC)	Separate-Phase Hydrocarbons (feet)	Groundwater Elevation^ (feet-msl)	Comments
A-25	02/11/02	10.12	6.78	--	3.34	
A-25	05/20/02	10.12	8.56	--	1.56	
A-25	08/27/02	10.12	7.99	--	2.13	
A-25	11/04/02	10.12	8.18	--	1.94	
A-25	02/18/03	10.12	7.08	--	3.04	
A-25	06/09/03	10.12	8.71	--	1.41	
A-25	09/15/03	13.90	8.05	--	5.85	
A-25	11/18/03	13.90	7.50	Sheen	6.40	
A-25	02/24/04	13.90	7.00	--	6.90	
A-25	05/10/04	13.90	7.75	--	6.15	
A-25	08/24/04	13.90	7.82	--	6.08	
A-25	12/13/04	13.90	7.46	--	6.44	
A-25	03/08/05	13.90	7.70	--	6.20	
A-25	06/06/05	13.90	7.53	--	6.37	
A-25	09/19/05	13.90	8.07	0.01	5.84*	
A-25	10/12/05	13.90	7.95	--	5.95	
A-25	12/12/05	13.90	7.79	--	6.11	
A-25	03/13/06	13.90	6.98	--	6.92	
A-25	06/05/06	13.90	7.43	--	6.47	
A-25	09/11/06	13.90	8.10	--	5.80	
A-25	12/11/06	13.90	7.05	--	6.85	
A-25	12/10/07	13.90	7.23	--	6.67	
A-25	03/03/08	13.90	7.36	--	6.54	
A-25	03/04/09	13.90	7.37	--	6.53	
A-25	06/01/09	13.90	7.81	--	6.09	
A-25	09/21/09	13.90	8.00	--	5.90	
A-25	11/16/09	13.90	7.16	--	6.74	
A-25	03/08/10	13.90	6.83	--	7.07	
A-25	06/07/10	13.90	7.36	--	6.54	
A-25	09/09/10	13.90	7.97	--	5.93	
A-25	11/15/10	13.90	7.44	Sheen	6.46	
A-25	03/01/11	13.90	7.04	--	6.86	
A-25	05/23/11	13.90	7.18	--	6.72	
A-25	08/29/11	13.90	7.81	--	6.09	
A-25	12/01/11	13.90	7.52	--	6.38	
A-25	03/01/12	13.90	7.75	--	6.15	
A-25	05/30/12	13.90	7.30	--	6.60	
A-25	08/25/12	13.90	7.56	--	6.34	
A-25	11/07/12	13.90	7.11	--	6.79	
A-25	02/27/13	13.90	7.18	--	6.72	
A-25	04/08/13	13.90	7.08	--	6.82	
A-25	07/29/13	13.90	7.52	--	6.38	
A-25	10/02/13	13.90	7.23	--	6.67	
A-25	01/21/14	13.90	7.51	--	6.39	
A-25	04/22/14	13.90	7.03	--	6.87	
A-25	07/15/14	13.90	7.51	--	6.39	
A-25	03/17/15	13.90	6.87	--	7.03	

# 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-26R	04/22/14	14.19	7.23	--	6.96	

# 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-26R	07/15/14	14.19	7.71	--	6.48	
A-26R	03/17/15	14.19	7.09	--	7.10	
A-27	02/11/02	13.45	10.05	--	3.40	
A-27	05/20/02	13.45	12.84	--	0.61	
A-27	08/27/02	13.45	11.31	--	2.14	
A-27	11/04/02	13.45	11.46	--	1.99	
A-27	02/18/03	13.45	10.32	--	3.13	
A-27	06/09/03	13.45	10.97	--	2.48	
A-27	09/15/03	17.22	11.38	--	5.84	
A-27	11/18/03	17.22	10.75	--	6.47	
A-27	02/24/04	17.22	10.15	--	7.07	
A-27	05/10/04	17.22	8.00	--	9.22	
A-27	08/24/04	17.22	11.15	--	6.07	
A-27	12/13/04	17.22	7.80	--	9.42	
A-27	03/08/05	17.22	10.83	--	6.39	
A-27	06/06/05	17.22	10.80	--	6.42	
A-27	09/19/05	17.22	11.32	--	5.90	
A-27	12/12/05	17.22	11.01	--	6.21	
A-27	03/13/06	17.22	10.17	--	7.05	
A-27	06/05/06	17.22	10.69	--	6.53	
A-27	09/11/06	17.22	11.30	--	5.92	
A-27	12/11/06	17.22	10.16	--	7.06	
A-27	03/26/07	17.22	10.41	--	6.81	
A-27	06/18/07	17.22	11.00	--	6.22	
A-27	09/24/07	17.22	11.20	--	6.02	
A-27	12/10/07	17.22	10.41	--	6.81	
A-27	03/03/08	17.22	10.54	--	6.68	
A-27	06/02/08	17.22	11.06	--	6.16	
A-27	09/04/08	17.22	11.50	--	5.72	
A-27	12/04/08	17.22	11.05	--	6.17	
A-27	03/04/09	17.22	10.64	--	6.58	
A-27	06/01/09	17.22	10.87	--	6.35	
A-27	09/21/09	17.22	11.25	--	5.97	
A-27	11/16/09	17.22	10.50	--	6.72	
A-27	03/08/10	17.22	10.01	--	7.21	
A-27	06/07/10	17.22	10.54	--	6.68	
A-27	09/09/10	17.22	11.19	--	6.03	
A-27	11/15/10	17.22	10.61	--	6.61	
A-27	03/01/11	17.22	10.20	--	7.02	
A-27	05/23/11	17.22	10.30	--	6.92	
A-27	08/29/11	17.22	11.03	--	6.19	
A-27	12/01/11	17.22	10.72	--	6.50	
A-27	03/01/12	17.22	10.44	--	6.78	
A-27	05/30/12	17.22	10.47	--	6.75	
A-27	08/25/12	17.22	10.78	--	6.44	
A-27	11/07/12	17.22	10.33	--	6.89	
A-27	02/27/13	17.22	10.28	--	6.94	
A-27	04/08/13	17.22	10.24	--	6.98	

# 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	06/21/13	17.22	10.68	--	6.54	Baseline monitoring event
A-27	07/29/13	17.22	10.69	--	6.53	
A-27	08/26/13	17.22	10.71	--	6.51	Two-month monitoring event
A-27	10/02/13	17.22	10.40	--	6.82	
A-27	01/21/14	17.22	10.63	--	6.59	
A-27	04/22/14	17.22	10.11	--	7.11	
A-27	07/15/14	17.22	10.68	--	6.54	
A-27	03/17/15	17.22	9.96	--	7.26	
A-28	06/14/01	--	--	--	--	Destroyed during construction activities
A-28	Destroyed during construction activities					
A-28R	02/11/02	11.19	7.72	--	3.47	
A-28R	05/20/02	11.19	9.51	--	1.68	
A-28R	08/27/02	11.19	8.97	--	2.22	
A-28R	11/04/02	11.19	9.20	--	1.99	
A-28R	02/18/03	11.19	8.20	--	2.99	
A-28R	06/09/03	11.19	8.67	--	2.52	
A-28R	09/15/03	14.93	9.05	--	5.88	
A-28R	11/18/03	14.93	8.45	--	6.48	
A-28R	02/24/04	14.93	7.91	--	7.02	
A-28R	05/10/04	14.93	8.66	--	6.27	
A-28R	08/24/04	14.93	7.90	--	7.03	
A-28R	12/13/04	14.93	8.58	--	6.35	
A-28R	03/08/05	14.93	8.67	--	6.26	
A-28R	06/06/05	14.93	8.47	--	6.46	
A-28R	09/19/05	14.93	8.99	--	5.94	
A-28R	12/12/05	14.93	7.71	--	7.22	
A-28R	03/13/06	14.93	7.79	--	7.14	
A-28R	06/05/06	14.93	9.13	--	5.80	
A-28R	09/11/06	14.93	9.00	--	5.93	
A-28R	12/11/06	14.93	7.89	--	7.04	
A-28R	03/26/07	14.93	8.05	--	6.88	
A-28R	06/18/07	14.93	8.64	--	6.29	
A-28R	09/24/07	14.93	8.81	--	6.12	
A-28R	12/10/07	14.93	8.01	--	6.92	
A-28R	03/03/08	14.93	8.17	--	6.76	
A-28R	06/02/08	14.93	8.64	--	6.29	
A-28R	09/04/08	14.93	8.73	--	6.20	
A-28R	12/04/08	14.93	8.69	--	6.24	
A-28R	03/04/09	14.93	8.29	--	6.64	
A-28R	06/01/09	14.93	8.51	--	6.42	
A-28R	09/21/09	14.93	8.92	--	6.01	
A-28R	11/16/09	14.93	8.21	--	6.72	
A-28R	03/08/10	14.93	7.61	--	7.32	
A-28R	06/07/10	14.93	8.14	--	6.79	
A-28R	09/09/10	14.93	8.73	--	6.20	
A-28R	11/15/10	14.93	8.22	--	6.71	
A-28R	03/01/11	14.93	7.80	--	7.13	



# 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	05/23/11	14.93	7.89	--	7.04	
A-28R	08/29/11	14.93	8.70	--	6.23	
A-28R	12/01/11	14.93	8.32	--	6.61	
A-28R	03/01/12	14.93	7.95	--	6.98	
A-28R	05/30/12	14.93	8.04	--	6.89	
A-28R	08/25/12	14.93	8.35	--	6.58	
A-28R	11/07/12	14.93	7.89	--	7.04	
A-28R	02/27/13	14.93	7.78	--	7.15	
A-28R	04/08/13	14.93	7.67	--	7.26	
A-28R	07/29/13	14.93	8.20	--	6.73	
A-28R	10/02/13	14.93	7.88	--	7.05	
A-28R	01/21/14	14.93	8.20	--	6.73	
A-28R	04/22/14	14.93	7.59	--	7.34	
A-28R	07/15/14	14.93	8.35	--	6.58	
A-28R	03/17/15	14.93	7.26	--	7.67	
A-29	03/27/01	--	--	--	--	Destroyed during construction of utility trench
A-29	Destroyed during construction activities of utility trench					
A-29R	02/11/02	10.12	6.78	--	3.34	
A-29R	05/20/02	10.12	8.53	--	1.59	
A-29R	08/27/02	10.12	7.92	--	2.20	
A-29R	11/04/02	10.12	8.09	--	2.03	
A-29R	02/18/03	10.12	7.05	--	3.07	
A-29R	02/19/03	10.12	7.05	--	3.07	
A-29R	06/09/03	10.12	7.61	--	2.51	
A-29R	09/15/03	13.85	8.00	--	5.85	
A-29R	11/18/03	13.85	7.50	--	6.35	
A-29R	02/24/04	13.85	6.97	--	6.88	
A-29R	05/10/04	13.85	7.66	--	6.19	
A-29R	08/24/04	13.85	7.43	--	6.42	
A-29R	12/13/04	13.85	7.46	--	6.39	
A-29R	03/08/05	13.85	7.65	--	6.20	
A-29R	06/06/05	13.85	7.51	--	6.34	
A-29R	09/19/05	13.85	8.02	--	5.83	
A-29R	12/12/05	13.85	7.75	--	6.10	
A-29R	03/13/06	13.85	--	--	--	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	

# 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
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	
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	

# 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
6	08/24/04	12.76	6.41	--	6.35	
6	12/13/04	12.76	4.28	--	8.48	
6	03/08/05	12.76	6.28	--	6.48	
6	06/06/05	12.76	5.94	--	6.82	
6	09/19/05	12.76	6.87	--	5.89	
6	12/12/05	12.76	6.13	--	6.63	
6	03/13/06	12.76	5.13	--	7.63	
6	06/05/06	12.76	5.68	--	7.08	
6	09/11/06	12.76	6.78	--	5.98	
6	12/11/06	12.76	5.52	--	7.24	
7	01/13/97	9.09	3.90	--	5.19	
7	10/06/00	9.09	6.80	--	2.29	
7	12/18/00	9.09	6.02	--	3.07	
7	03/27/01	9.09	6.44	--	2.65	
7	06/14/01	9.09	6.49	--	2.60	
7	09/21/01	9.09	6.91	--	2.18	
7	02/11/02	9.09	5.23	--	3.86	
7	05/20/02	9.09	7.31	--	1.78	
7	08/27/02	9.09	6.85	--	2.24	
7	11/04/02	9.09	7.07	--	2.02	
7	02/18/03	9.09	7.74	--	1.35	
7	06/09/03	9.09	6.45	--	2.64	
7	09/15/03	12.72	7.04	--	5.68	
7	11/18/03	12.72	6.11	--	6.61	
7	02/24/04	12.72	5.96	--	6.76	
7	05/10/04	12.72	6.62	--	6.10	
7	08/24/04	12.72	6.56	--	6.16	
7	12/13/04	12.72	6.00	--	6.72	
7	03/08/05	12.72	5.66	--	7.06	
7	06/06/05	12.72	6.45	--	6.27	
7	09/19/05	12.72	7.04	--	5.68	
7	12/12/05	12.72	6.69	--	6.03	
7	03/13/06	12.72	5.07	--	7.65	
7	06/05/06	12.72	7.40	--	5.32	
7	09/11/06	12.72	6.98	--	5.74	
7	12/11/06	12.72	5.62	--	7.10	
8	02/11/02	9.42	5.20	--	4.22	
8	05/20/02	9.42	7.52	--	1.90	Casing Tilted
8	08/27/02	9.42	7.12	--	2.30	Casing Tilted
8	11/04/02	9.42	7.25	--	2.17	Casing Tilted
8	02/18/03	9.42	5.79	--	3.63	Casing Tilted
8	06/11/03	--	--	--	--	Abandoned
8	<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	

# 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	11/04/02	9.36	7.00	--	2.36	
9	02/18/03	9.36	4.94	--	4.42	
9	06/09/03	9.36	6.11	--	3.25	
9	09/15/03	12.89	6.96	--	5.93	
9	11/18/03	12.89	5.51	--	7.38	
9	02/24/04	12.89	5.19	--	7.70	
9	05/10/04	12.89	6.18	--	6.71	
9	08/24/04	12.89	3.46	--	9.43	
9	12/13/04	12.89	5.48	--	7.41	
9	03/08/05	12.89	6.36	--	6.53	
9	06/06/05	12.89	5.82	--	7.07	
9	09/19/05	12.89	6.87	--	6.02	
9	12/12/05	12.89	6.15	--	6.74	
9	03/13/06	12.89	5.02	--	7.87	
9	06/05/06	12.89	5.51	--	7.38	
9	09/11/06	12.89	6.80	--	6.09	
9	12/11/06	12.89	4.79	--	8.10	
10	02/11/02	9.57	4.39	--	5.18	
10	05/20/02	9.57	6.98	--	2.59	
10	08/27/02	9.57	6.95	--	2.62	
10	11/04/02	9.57	7.29	--	2.28	
10	02/18/03	9.57	5.05	--	4.52	
10	06/09/03	9.57	6.34	--	3.23	
10	09/15/03	13.20	7.21	--	5.99	
10	11/18/03	13.20	5.62	--	7.58	
10	02/24/04	13.20	5.21	--	7.99	
10	05/10/04	13.20	6.47	--	6.73	
10	08/24/04	13.20	6.61	--	6.59	
10	12/13/04	13.20	5.48	--	7.72	
10	03/08/05	13.20	6.41	--	6.79	
10	06/06/05	13.20	6.09	--	7.11	
10	09/19/05	13.20	7.17	--	6.03	
10	12/12/05	13.20	6.29	--	6.91	
10	03/13/06	13.20	5.15	--	8.05	
10	06/05/06	13.20	5.70	--	7.50	
10	09/11/06	13.20	7.06	--	6.14	
10	12/11/06	13.20	4.88	--	8.32	
11	02/11/02	8.57	3.01	--	5.56	
11	05/20/02	8.57	5.61	--	2.96	
11	08/27/02	8.57	5.76	--	2.81	
11	11/04/02	8.57	6.03	--	2.54	
11	02/18/03	8.57	3.57	--	5.00	
11	06/09/03	8.57	4.98	--	3.59	
11	09/15/03	12.08	6.00	--	6.08	
11	11/18/03	12.08	2.38	--	9.70	
11	02/24/04	12.08	3.70	--	8.38	
11	05/10/04	12.08	5.07	--	7.01	

# 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
11	08/24/04	12.08	5.02	--	7.06	
11	12/13/04	12.08	4.12	--	7.96	
11	03/08/05	12.08	4.99	--	7.09	
11	06/06/05	12.08	4.74	--	7.34	
11	09/19/05	12.08	5.93	--	6.15	
11	12/12/05	12.08	4.95	--	7.13	
11	03/13/06	12.08	3.64	--	8.44	
11	06/05/06	12.08	4.32	--	7.76	
11	09/11/06	12.08	5.82	--	6.26	
11	12/11/06	12.08	3.91	--	8.17	
11	06/21/13	12.08	4.57	--	7.51	Baseline monitoring event
11	07/29/13	12.08	4.99	--	7.09	
11	08/26/13	12.08	4.99	--	7.09	Two-month monitoring event
11	10/02/13	12.08	3.96	--	8.12	
11	01/21/14	12.08	4.60	--	7.48	
11	04/22/14	12.08	3.29	--	8.79	
11	07/15/14	12.08	4.90	--	7.18	
11	03/17/15	12.08	2.41	--	9.67	
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	

# 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	06/01/09	9.79	2.31	Sheen	7.48	
12	09/21/09	9.79	3.30	Sheen	6.49	
12	11/16/09	9.79	1.62	Sheen	8.17	
12	03/08/10	9.79	1.34	Sheen	8.45	
12	06/07/10	9.79	1.62	Sheen	8.17	
12	09/09/10	9.79	3.28	Sheen	6.51	
12	11/15/10	9.79	1.92	--	7.87	
12	03/01/11	9.79	1.35	Sheen	8.44	
12	05/23/11	9.79	2.15	Sheen	7.64	
12	08/29/11	9.79	3.03	0.03	6.78*	
12	12/01/11	9.79	2.13	--	7.66	
12	03/01/12	9.79	1.65	Sheen	8.14	
12	05/30/12	9.79	1.63	Sheen	8.16	
12	08/25/12	9.79	2.89	--	6.90	
12	11/07/12	9.79	1.46	--	8.33	
12	02/27/13	9.79	1.43	--	8.36	
12	04/08/13	9.79	0.24	--	9.55	
12	06/21/13	9.79	2.84	--	6.95	Baseline monitoring event
12	07/29/13	9.79	3.95	--	5.84	
12	08/26/13	9.79	1.91	--	7.88	Two-month monitoring event
12	10/02/13	9.79	1.14	--	8.65	
12	01/21/14	9.79	2.11	--	7.68	
12	04/22/14	9.79	0.88	Sheen	8.91	
12	07/15/14	9.79	2.61	--	7.18	
12	03/17/15	9.79	0.07	--	9.72	
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	

# 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
16	09/15/03	13.29	7.37	--	5.92	
16	11/18/03	13.29	5.60	--	7.69	
16	02/24/04	13.29	5.46	--	7.83	
16	05/10/04	13.29	6.42	--	6.87	
16	08/24/04	13.29	6.81	--	6.48	
16	12/13/04	13.29	5.94	--	7.35	
16	03/08/05	13.29	6.51	--	6.78	
16	06/06/05	13.29	6.24	--	7.05	
16	09/19/05	13.29	7.30	--	5.99	
16	12/12/05	13.29	6.46	--	6.83	
16	03/13/06	13.29	5.20	--	8.09	
16	06/05/06	13.29	5.76	--	7.53	
16	09/11/06	13.29	7.21	--	6.08	
16	12/11/06	13.29	4.88	--	8.41	
17	02/11/02	11.48	6.39	--	5.09	
17	05/20/02	11.48	8.61	--	2.87	
17	08/27/02	11.48	8.68	--	2.80	
17	11/04/02	11.48	9.06	--	2.42	
17	02/18/03	11.48	6.92	--	4.56	
17	06/09/03	11.48	7.95	--	3.53	
17	09/15/03	15.06	8.89	--	6.17	
17	11/18/03	15.06	8.51	--	6.55	
17	02/24/04	15.06	6.45	--	8.61	
17	05/10/04	15.06	7.90	--	7.16	
17	08/24/04	15.06	8.45	--	6.61	
17	12/13/04	15.06	7.83	--	7.23	
17	03/08/05	15.06	7.81	--	7.25	
17	06/06/05	15.06	7.73	--	7.33	
17	09/19/05	15.06	8.75	--	6.31	
17	12/12/05	15.06	8.03	--	7.03	
17	03/13/06	15.06	6.57	--	8.49	
17	06/05/06	15.06	6.22	--	8.84	
17	09/11/06	15.06	8.68	--	6.38	
17	12/11/06	15.06	6.53	--	8.53	
19	02/11/02	9.13	3.75	--	5.38	
19	05/20/02	9.13	6.10	--	3.03	
19	08/27/02	9.13	6.28	--	2.85	
19	11/04/02	9.13	6.66	--	2.47	
19	02/18/03	9.13	4.33	--	4.80	
19	06/09/03	9.13	5.41	--	3.72	
19	09/15/03	12.74	6.51	--	6.23	
19	11/18/03	12.74	3.67	--	9.07	
19	02/24/04	12.74	4.25	--	8.49	
19	05/10/04	12.74	5.48	--	7.26	
19	08/24/04	12.74	5.87	--	6.87	
19	12/13/04	12.74	5.15	--	7.59	
19	03/08/05	12.74	5.45	--	7.29	

# 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
19	06/06/05	12.74	5.24	--	7.50	
19	09/19/05	12.74	6.36	--	6.38	
19	12/12/05	12.74	5.60	--	7.14	
19	03/13/06	12.74	4.02	--	8.72	
19	06/05/06	12.74	4.89	--	7.85	
19	09/11/06	12.74	6.31	--	6.43	
19	12/11/06	12.74	3.78	--	8.96	
20	02/11/02	8.88	3.15	--	5.73	
20	05/20/02	8.88	5.67	--	3.21	
20	08/27/02	8.88	5.91	--	2.97	
20	11/04/02	8.88	6.32	--	2.56	
20	02/18/03	8.88	3.77	--	5.11	
20	06/09/03	8.88	5.04	--	3.84	
20	09/15/03	12.49	6.16	--	6.33	
20	11/18/03	12.49	5.10	--	7.39	
20	02/24/04	12.49	3.81	--	8.68	
20	05/10/04	12.49	5.12	--	7.37	
20	08/24/04	12.49	5.45	--	7.04	
20	12/13/04	12.49	4.64	--	7.85	
20	03/08/05	12.49	5.11	--	7.38	
20	06/06/05	12.49	4.90	--	7.59	
20	09/19/05	12.49	6.08	--	6.41	
20	12/12/05	12.49	5.32	--	7.17	
20	03/13/06	12.49	3.64	--	8.85	
20	06/05/06	12.49	4.44	--	8.05	
20	09/11/06	12.49	5.98	--	6.51	
20	12/11/06	12.49	3.47	--	9.02	
21	02/11/02	9.42	3.58	--	5.84	
21	05/20/02	9.42	6.18	--	3.24	
21	08/27/02	9.42	6.43	--	2.99	
21	11/04/02	9.42	6.81	--	2.61	
21	02/18/03	9.42	4.18	--	5.24	
21	06/09/03	9.42	5.56	--	3.86	
21	09/15/03	13.04	6.68	--	6.36	
21	11/18/03	13.04	5.03	--	8.01	
21	02/24/04	13.04	4.30	--	8.74	
21	05/10/04	13.04	6.56	--	6.48	
21	08/24/04	13.04	6.04	--	7.00	
21	12/13/04	13.04	5.02	--	8.02	
21	03/08/05	13.04	5.62	--	7.42	
21	06/06/05	13.04	5.43	--	7.61	
21	09/19/05	13.04	6.63	--	6.41	
21	12/12/05	13.04	5.70	--	7.34	
21	03/13/06	13.04	4.19	--	8.85	
21	06/05/06	13.04	4.96	--	8.08	
21	09/11/06	13.04	6.50	--	6.54	
21	12/11/06	13.04	3.99	--	9.05	



# 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
22	02/11/02	9.57	3.72	--	5.85	
22	05/20/02	9.57	6.21	--	3.36	
22	08/27/02	9.57	6.55	--	3.02	
22	11/04/02	9.57	6.89	--	2.68	
22	02/18/03	9.57	4.27	--	5.30	
22	06/09/03	9.57	5.60	--	3.97	
22	09/15/03	13.19	6.75	--	6.44	
22	11/18/03	13.19	5.07	--	8.12	
22	02/24/04	13.19	4.39	--	8.80	
22	05/10/04	13.19	5.75	--	7.44	
22	08/24/04	13.19	6.23	--	6.96	
22	12/13/04	13.19	5.04	--	8.15	
22	03/08/05	13.19	5.77	--	7.42	
22	06/06/05	13.19	5.55	--	7.64	
22	09/19/05	13.19	6.75	--	6.44	
22	12/12/05	13.19	5.80	--	7.39	
22	03/13/06	13.19	4.35	--	8.84	
22	06/05/06	13.19	5.04	--	8.15	
22	09/11/06	13.19	6.66	--	6.53	
22	12/11/06	13.19	4.11	--	9.08	
23	02/11/02	8.94	3.51	--	5.43	
23	05/20/02	8.94	5.93	--	3.01	
23	08/27/02	8.94	5.93	--	3.01	
23	11/04/02	8.94	6.29	--	2.65	
23	02/18/03	8.94	4.04	--	4.90	
23	06/09/03	8.94	5.26	--	3.68	
23	09/15/03	12.55	6.19	--	6.36	
23	11/18/03	12.55	6.11	--	6.44	
23	02/24/04	12.55	4.20	--	8.35	
23	05/10/04	12.55	5.35	--	7.20	
23	08/24/04	12.55	5.78	--	6.77	
23	12/13/04	12.55	4.73	--	7.82	
23	03/08/05	12.55	5.37	--	7.18	
23	06/06/05	12.55	5.16	--	7.39	
23	09/19/05	12.55	6.46	--	6.09	
23	12/12/05	12.55	5.40	--	7.15	
23	03/13/06	12.55	4.03	--	8.52	
23	06/05/06	12.55	4.79	--	7.76	
23	09/11/06	12.55	6.13	--	6.42	
23	12/11/06	12.55	4.01	--	8.54	
24	06/11/03	--	--	--	--	Abandoned
24	Abandoned					
25	02/11/02	9.48	3.76	--	5.72	
25	05/20/02	9.48	6.19	--	3.29	
25	08/27/02	9.48	6.33	--	3.15	
25	11/04/02	9.48	6.74	--	2.74	Casing Tilted

# 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
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	
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	

# 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	11/04/02	9.37	6.90	--	2.47	
MW-1	02/18/03	9.37	5.10	--	4.27	
MW-1	06/09/03	9.37	5.94	--	3.43	
MW-1	09/15/03	13.21	6.72	--	6.49	
MW-1	11/18/03	13.21	5.91	--	7.30	
MW-1	02/24/04	13.21	5.05	--	8.16	
MW-1	05/10/04	13.21	6.06	--	7.15	
MW-1	08/24/04	13.21	6.45	--	6.76	
MW-1	12/13/04	13.21	5.63	--	7.58	
MW-1	03/08/05	13.21	6.09	--	7.12	
MW-1	06/06/05	13.21	6.93	--	6.28	
MW-1	09/19/05	13.21	6.74	--	6.47	
MW-1	12/12/05	13.21	6.16	--	7.05	
MW-1	03/13/06	13.21	4.96	--	8.25	
MW-1	06/05/06	13.21	5.72	--	7.49	
MW-1	09/11/06	13.21	6.72	--	6.49	
MW-1	12/11/06	13.21	5.20	--	8.01	
MW-1	03/26/07	13.21	5.24	--	7.97	
MW-1	06/18/07	13.21	5.98	--	7.23	
MW-1	09/25/07	13.21	6.72	--	6.49	
MW-1	12/10/07	13.21	5.34	--	7.87	
MW-1	03/03/08	13.21	5.70	--	7.51	
MW-1	06/02/08	13.21	6.30	--	6.91	
MW-1	09/04/08	13.21	6.48	--	6.73	
MW-1	12/04/08	13.21	6.33	--	6.88	
MW-1	03/04/09	13.21	--	--	--	Not Measured-Inaccessible
MW-1	06/01/09	13.21	6.00	--	7.21	
MW-1	09/21/09	13.21	6.75	--	6.46	
MW-1	11/16/09	13.21	5.62	--	7.59	
MW-1	03/08/10	13.21	5.05	--	8.16	
MW-1	06/07/10	13.21	5.48	--	7.73	
MW-1	09/09/10	13.21	6.55	--	6.66	
MW-1	11/15/10	13.21	5.71	--	7.50	
MW-1	03/01/11	13.21	4.97	--	8.24	
MW-1	05/23/11	13.21	5.04	--	8.17	
MW-1	08/29/11	13.21	6.35	--	6.86	
MW-1	12/01/11	13.21	5.80	--	7.41	
MW-1	03/01/12	13.21	5.59	--	7.62	
MW-1	05/30/12	13.21	5.55	--	7.66	
MW-1	08/25/12	13.21	6.25	--	6.96	
MW-1	11/07/12	13.21	5.58	--	7.63	
MW-1	02/27/13	13.21	5.24	--	7.97	
MW-1	04/08/13	13.21	5.12	--	8.09	
MW-1	07/29/13	13.21	6.19	--	7.02	
MW-1	10/02/13	13.21	5.83	--	7.38	
MW-1	01/21/14	13.21	5.96	--	7.25	
MW-1	04/22/14	13.21	5.05	--	8.16	
MW-1	07/15/14	13.21	5.90	--	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-1	03/17/15	13.21	4.73	--	8.48	
MW-2	02/11/02	11.33	6.13	--	5.20	
MW-2	05/20/02	11.33	8.40	--	2.93	
MW-2	08/27/02	11.33	8.50	--	2.83	
MW-2	11/04/02	11.33	8.85	--	2.48	
MW-2	02/18/03	11.33	6.10	--	5.23	
MW-2	06/09/03	11.33	7.68	--	3.65	
MW-2	09/15/03	15.22	8.71	--	6.51	
MW-2	11/18/03	15.22	7.60	--	7.62	
MW-2	02/24/04	15.22	6.56	--	8.66	
MW-2	05/10/04	15.22	7.78	--	7.44	
MW-2	08/24/04	15.22	8.33	--	6.89	
MW-2	12/13/04	15.22	7.69	--	7.53	
MW-2	03/08/05	15.22	7.72	--	7.50	
MW-2	06/06/05	15.22	7.61	--	7.61	
MW-2	09/19/05	15.22	8.58	--	6.64	
MW-2	12/12/05	15.22	7.86	--	7.36	
MW-2	03/13/06	15.22	6.38	--	8.84	
MW-2	06/05/06	15.22	7.39	--	7.83	
MW-2	09/11/06	15.22	8.50	--	6.72	
MW-2	12/11/06	15.22	6.37	--	8.85	
MW-2	03/26/07	15.22	6.71	--	8.51	
MW-2	06/18/07	15.22	7.68	--	7.54	
MW-2	09/24/07	15.22	8.84	--	6.38	
MW-2	12/10/07	15.22	6.85	--	8.37	
MW-2	03/03/08	15.22	7.14	--	8.08	
MW-2	06/02/08	15.22	7.91	--	7.31	
MW-2	09/04/08	15.22	8.33	--	6.89	
MW-2	12/04/08	15.22	8.01	--	7.21	
MW-2	03/04/09	15.22	7.43	--	7.79	
MW-2	06/01/09	15.22	7.54	--	7.68	
MW-2	09/21/09	15.22	8.52	--	6.70	
MW-2	11/16/09	15.22	7.28	--	7.94	
MW-2	03/08/10	15.22	6.42	--	8.80	
MW-2	06/07/10	15.22	7.00	--	8.22	
MW-2	09/09/10	15.22	8.26	--	6.96	
MW-2	11/15/10	15.22	7.21	--	8.01	
MW-2	03/01/11	15.22	6.26	--	8.96	
MW-2	05/23/11	15.22	6.39	--	8.83	
MW-2	08/29/11	15.22	8.01	--	7.21	
MW-2	12/01/11	15.22	7.56	--	7.66	
MW-2	03/01/12	15.22	7.03	--	8.19	
MW-2	05/30/12	15.22	6.97	--	8.25	
MW-2	08/25/12	15.22	7.88	--	7.34	
MW-2	11/07/12	15.22	7.34	--	7.88	
MW-2	02/27/13	15.22	6.59	--	8.63	
MW-2	04/08/13	15.22	6.36	--	8.86	
MW-2	07/29/13	15.22	7.82	--	7.40	

# 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	10/02/13	15.22	7.44	--	7.78	
MW-2	01/21/14	15.22	7.55	--	7.67	
MW-2	04/22/14	15.22	6.21	--	9.01	
MW-2	07/15/14	15.22	7.47	--	7.75	
MW-2	03/17/15	15.22	5.35	--	9.87	
MW-3	02/11/02	7.49	1.82	--	5.67	
MW-3	05/20/02	7.49	4.27	--	3.22	
MW-3	08/27/02	7.49	4.50	--	2.99	
MW-3	11/04/02	7.49	4.92	--	2.57	
MW-3	02/18/03	7.49	2.38	--	5.11	
MW-3	06/09/03	7.49	3.67	--	3.82	
MW-3	09/15/03	11.39	4.81	--	6.58	
MW-3	11/18/03	11.39	2.97	--	8.42	
MW-3	02/24/04	11.39	2.45	--	8.94	
MW-3	05/10/04	11.39	3.64	--	7.75	
MW-3	08/24/04	11.39	4.14	--	7.25	
MW-3	12/13/04	11.39	3.22	--	8.17	
MW-3	03/08/05	11.39	3.70	--	7.69	
MW-3	06/06/05	11.39	3.51	--	7.88	
MW-3	09/19/05	11.39	4.65	--	6.74	
MW-3	12/12/05	11.39	3.81	--	7.58	
MW-3	03/13/06	11.39	2.43	--	8.96	
MW-3	06/05/06	11.39	3.05	--	8.34	
MW-3	09/11/06	11.39	4.58	--	6.81	
MW-3	12/11/06	11.39	2.00	--	9.39	
MW-3	03/26/07	11.39	2.46	--	8.93	
MW-3	06/18/07	11.39	3.81	--	7.58	
MW-3	09/24/07	11.39	4.58	--	6.81	
MW-3	12/10/07	11.39	2.53	--	8.86	
MW-3	03/03/08	11.39	3.10	--	8.29	
MW-3	06/02/08	11.39	3.88	--	7.51	
MW-3	09/04/08	11.39	4.27	--	7.12	
MW-3	12/04/08	11.39	3.99	--	7.40	
MW-3	03/04/09	11.39	3.28	--	8.11	
MW-3	06/01/09	11.39	3.48	--	7.91	
MW-3	09/21/09	11.39	4.51	--	6.88	
MW-3	11/16/09	11.39	2.97	--	8.42	
MW-3	03/08/10	11.39	2.32	--	9.07	
MW-3	06/07/10	11.39	2.86	--	8.53	
MW-3	09/09/10	11.39	4.23	--	7.16	
MW-3	11/15/10	11.39	2.99	--	8.40	
MW-3	03/01/11	11.39	1.86	--	9.53	
MW-3	05/23/11	11.39	2.03	--	9.36	
MW-3	08/29/11	11.39	4.02	--	7.37	
MW-3	12/01/11	11.39	3.27	--	8.12	
MW-3	03/01/12	11.39	2.99	--	8.40	
MW-3	05/30/12	11.39	2.93	--	8.46	
MW-3	08/25/12	11.39	3.90	--	7.49	

# 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	11/07/12	11.39	3.10	--	8.29	
MW-3	02/27/13	11.39	2.23	--	9.16	
MW-3	04/08/13	11.39	2.04	--	9.35	
MW-3	07/29/13	11.39	3.78	--	7.61	
MW-3	10/02/13	11.39	3.06	--	8.33	
MW-3	01/21/14	11.39	3.43	--	7.96	
MW-3	04/22/14	11.39	2.06	--	9.33	
MW-3	07/15/14	11.39	3.51	--	7.88	
MW-3	03/17/15	11.39	1.30	--	10.09	
MW-4	02/11/02	10.44	5.24	--	5.20	
MW-4	05/20/02	10.44	7.60	--	2.84	
MW-4	08/27/02	10.44	7.40	--	3.04	
MW-4	11/04/02	10.44	7.90	0.15	2.66*	
MW-4	02/18/03	10.44	5.79	--	4.65	
MW-4	06/09/03	10.44	6.81	--	3.63	
MW-4	09/15/03	14.69	7.70	0.01	7.00*	
MW-4	11/18/03	14.69	6.71	Sheen	7.98	
MW-4	02/24/04	14.69	5.82	Sheen	8.87	
MW-4	05/10/04	14.69	6.93	Sheen	7.76	
MW-4	08/24/04	14.69	7.24	--	7.45	
MW-4	12/13/04	14.69	6.45	Sheen	8.24	
MW-4	03/08/05	14.69	6.94	--	7.75	
MW-4	06/06/05	14.69	6.71	--	7.98	
MW-4	09/19/05	14.69	7.67	--	7.02	
MW-4	12/12/05	14.69	6.97	--	7.72	
MW-4	03/13/06	14.69	5.77	--	8.92	
MW-4	06/05/06	14.69	6.42	--	8.27	
MW-4	09/11/06	14.69	7.61	--	7.08	
MW-4	12/11/06	14.69	5.81	--	8.88	
MW-4	03/26/07	14.69	5.96	--	8.73	
MW-4	06/18/07	14.69	6.99	--	7.70	
MW-4	09/25/07	14.69	7.46	--	7.23	
MW-4	12/10/07	14.69	5.93	--	8.76	
MW-4	03/03/08	14.69	6.44	--	8.25	
MW-4	06/02/08	14.69	7.37	--	7.32	
MW-4	09/04/08	14.69	7.20	--	7.49	
MW-4	12/04/08	14.69	7.77	--	6.92	
MW-4	03/04/09	14.69	6.68	--	8.01	
MW-4	06/01/09	14.69	6.78	--	7.91	
MW-4	09/21/09	14.69	7.56	--	7.13	
MW-4	11/16/09	14.69	6.34	--	8.35	
MW-4	03/08/10	14.69	5.86	--	8.83	
MW-4	06/07/10	14.69	6.27	--	8.42	
MW-4	09/09/10	14.69	7.40	--	7.29	
MW-4	11/15/10	14.69	6.39	--	8.30	
MW-4	03/01/11	14.69	5.70	--	8.99	
MW-4	05/23/11	14.69	5.74	--	8.95	
MW-4	08/29/11	14.69	7.25	--	7.44	

# 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	12/01/11	14.69	6.52	--	8.17	
MW-4	03/01/12	14.69	6.38	--	8.31	
MW-4	05/30/12	14.69	6.33	--	8.36	
MW-4	08/25/12	14.69	7.05	--	7.64	
MW-4	11/07/12	14.69	6.31	--	8.38	
MW-4	02/27/13	14.69	6.02	--	8.67	
MW-4	04/08/13	14.69	5.74	--	8.95	
MW-4	07/29/13	14.69	7.02	--	7.67	
MW-4	10/02/13	14.69	6.53	--	8.16	
MW-4	01/21/14	14.69	6.75	--	7.94	
MW-4	04/22/14	14.69	5.84	--	8.85	
MW-4	07/15/14	14.69	6.85	--	7.84	
MW-4	03/17/15	14.69	5.21	--	9.48	
MW-5	02/11/02	7.10	1.50	--	5.60	
MW-5	05/20/02	7.10	4.06	--	3.04	
MW-5	08/27/02	7.10	4.23	--	2.87	
MW-5	11/04/02	7.10	4.63	--	2.47	
MW-5	02/18/03	7.10	1.98	--	5.12	
MW-5	06/09/03	7.10	3.47	--	3.63	
MW-5	09/15/03	11.13	4.49	--	6.64	
MW-5	11/18/03	11.13	2.81	--	8.32	
MW-5	02/24/04	11.13	2.11	--	9.02	
MW-5	05/10/04	11.13	3.50	--	7.63	
MW-5	08/24/04	11.13	3.71	--	7.42	
MW-5	12/13/04	11.13	2.75	--	8.38	
MW-5	03/08/05	11.13	3.53	--	7.60	
MW-5	06/06/05	11.13	3.22	--	7.91	
MW-5	09/19/05	11.13	4.33	--	6.80	
MW-5	12/12/05	11.13	3.43	--	7.70	
MW-5	03/13/06	11.13	2.10	--	9.03	
MW-5	06/05/06	11.13	2.59	--	8.54	
MW-5	09/11/06	11.13	4.33	--	6.80	
MW-5	12/11/06	11.13	1.70	--	9.43	
MW-5	03/26/07	11.13	2.22	--	8.91	
MW-5	06/18/07	11.13	--	--	--	Not Measured-No Access due to construction
MW-5	09/24/07	11.13	4.28	--	6.85	
MW-5	12/10/07	11.13	2.06	--	9.07	
MW-5	03/03/08	11.13	2.81	--	8.32	
MW-5	06/02/08	11.13	3.36	--	7.77	
MW-5	09/04/08	11.13	3.91	--	7.22	
MW-5	12/04/08	11.13	3.64	--	7.49	
MW-5	03/04/09	11.13	2.98	--	8.15	
MW-5	06/01/09	11.13	3.21	--	7.92	
MW-5	09/21/09	11.13	4.23	--	6.90	
MW-5	11/16/09	11.13	2.50	--	8.63	
MW-5	03/08/10	11.13	2.11	--	9.02	
MW-5	06/07/10	11.13	2.55	--	8.58	

# 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	09/09/10	11.13	3.93	--	7.20	
MW-5	11/15/10	11.13	2.55	--	8.58	
MW-5	03/01/11	11.13	1.63	--	9.50	
MW-5	05/23/11	11.13	2.00	--	9.13	
MW-5	08/29/11	11.13	3.82	--	7.31	
MW-5	12/01/11	11.13	2.80	--	8.33	
MW-5	03/01/12	11.13	2.66	--	8.47	
MW-5	05/30/12	11.13	2.73	--	8.40	
MW-5	08/25/12	11.13	3.54	--	7.59	
MW-5	11/07/12	11.13	2.56	--	8.57	
MW-5	02/27/13	11.13	2.20	--	8.93	
MW-5	04/08/13	11.13	1.69	--	9.44	
MW-5	07/29/13	11.13	3.41	--	7.72	
MW-5	10/02/13	11.13	2.51	--	8.62	
MW-5	01/21/14	11.13	3.11	--	8.02	
MW-5	04/22/14	11.13	1.79	--	9.34	
MW-5	07/15/14	11.13	3.29	--	7.84	
MW-5	03/17/15	11.13	1.04	--	10.09	
MW-6	02/11/02	11.15	6.35	--	4.80	
MW-6	05/20/02	11.15	8.48	--	2.67	
MW-6	08/27/02	11.15	8.45	--	2.70	
MW-6	11/04/02	11.15	8.80	--	2.35	
MW-6	02/18/03	11.15	6.85	--	4.30	
MW-6	06/09/03	11.15	7.74	--	3.41	
MW-6	09/15/03	15.17	8.65	--	6.52	
MW-6	11/18/03	15.17	7.60	--	7.57	
MW-6	02/24/04	15.17	6.61	--	8.56	
MW-6	05/10/04	15.17	7.76	--	7.41	
MW-6	08/24/04	15.17	8.28	--	6.89	
MW-6	12/13/04	15.17	7.67	--	7.50	
MW-6	03/08/05	15.17	7.70	--	7.47	
MW-6	06/06/05	15.17	7.55	--	7.62	
MW-6	09/19/05	15.17	8.48	--	6.69	
MW-6	12/12/05	15.17	7.89	--	7.28	
MW-6	03/13/06	15.17	6.46	--	8.71	
MW-6	06/05/06	15.17	7.25	--	7.92	
MW-6	09/11/06	15.17	8.43	--	6.74	
MW-6	12/11/06	15.17	6.50	--	8.67	
MW-6	03/26/07	15.17	6.61	--	8.56	
MW-6	06/18/07	15.17	7.76	--	7.41	
MW-6	09/24/07	15.17	8.43	--	6.74	
MW-6	12/10/07	15.17	6.93	--	8.24	
MW-6	03/03/08	15.17	7.09	--	8.08	
MW-6	06/02/08	15.17	7.88	--	7.29	
MW-6	09/04/08	15.17	8.19	--	6.98	
MW-6	12/04/08	15.17	7.95	--	7.22	
MW-6	03/04/09	15.17	7.41	--	7.76	
MW-6	06/01/09	15.17	7.54	--	7.63	



# 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	09/21/09	15.17	8.42	--	6.75	
MW-6	11/16/09	15.17	7.30	--	7.87	
MW-6	03/08/10	15.17	6.45	--	8.72	
MW-6	06/07/10	15.17	7.09	--	8.08	
MW-6	09/09/10	15.17	8.10	--	7.07	
MW-6	11/15/10	15.17	7.21	--	7.96	
MW-6	03/01/11	15.17	6.24	--	8.93	
MW-6	05/23/11	15.17	6.42	--	8.75	
MW-6	08/29/11	15.17	7.92	--	7.25	
MW-6	12/01/11	15.17	7.45	--	7.72	
MW-6	03/01/12	15.17	6.97	--	8.20	
MW-6	05/30/12	15.17	6.91	--	8.26	
MW-6	08/25/12	15.17	7.09	--	8.08	
MW-6	11/07/12	15.17	7.12	--	8.05	
MW-6	02/27/13	15.17	6.59	--	8.58	
MW-6	04/08/13	15.17	6.22	--	8.95	
MW-6	07/29/13	15.17	7.34	--	7.83	
MW-6	10/02/13	15.17	6.98	--	8.19	
MW-6	01/21/14	15.17	7.21	--	7.96	
MW-6	04/22/14	15.17	6.71	--	8.46	
MW-6	07/15/14	15.17	7.39	--	7.78	
MW-6	03/17/15	15.17	5.72	--	9.45	
MW-7	02/11/02	6.78	1.49	--	5.29	
MW-7	05/20/02	6.78	3.91	--	2.87	
MW-7	08/27/02	6.78	4.03	--	2.75	
MW-7	11/04/02	6.78	4.44	--	2.34	
MW-7	02/18/03	6.78	1.82	Sheen	4.96	
MW-7	06/09/03	6.78	3.29	--	3.49	
MW-7	09/15/03	10.62	4.30	--	6.32	
MW-7	11/18/03	10.62	2.83	--	7.79	
MW-7	02/24/04	10.62	2.16	--	8.46	
MW-7	05/10/04	10.62	3.32	--	7.30	
MW-7	08/24/04	10.62	3.31	--	7.31	
MW-7	12/13/04	10.62	2.27	--	8.35	
MW-7	03/08/05	10.62	3.23	--	7.39	
MW-7	06/06/05	10.62	3.03	--	7.59	
MW-7	09/19/05	10.62	4.16	Sheen	6.46	
MW-7	12/12/05	10.62	3.17	--	7.45	
MW-7	03/13/06	10.62	1.88	--	8.74	
MW-7	06/05/06	10.62	2.34	--	8.28	
MW-7	09/11/06	10.62	4.10	--	6.52	
MW-7	12/11/06	10.62	1.72	--	8.90	
MW-7	03/26/07	10.62	2.00	--	8.62	
MW-7	06/18/07	10.62	3.34	--	7.28	
MW-7	09/24/07	10.62	4.00	--	6.62	
MW-7	12/10/07	10.62	1.12	Sheen	9.50	
MW-7	03/03/08	10.62	2.49	Sheen	8.13	
MW-7	06/02/08	10.62	3.41	Sheen	7.21	

# 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	09/04/08	10.62	3.60	--	7.02	
MW-7	12/04/08	10.62	3.36	--	7.26	
MW-7	03/04/09	10.62	2.90	--	7.72	
MW-7	06/01/09	10.62	3.08	Sheen	7.54	
MW-7	09/21/09	10.62	1.91	--	8.71	
MW-7	11/16/09	10.62	2.54	Sheen	8.08	
MW-7	03/08/10	10.62	2.31	--	8.31	
MW-7	06/07/10	10.62	2.67	--	7.95	
MW-7	09/09/10	10.62	3.79	--	6.83	
MW-7	11/15/10	10.62	2.58	--	8.04	
MW-7	03/01/11	10.62	2.51	--	8.11	
MW-7	05/23/11	10.62	2.24	--	8.38	
MW-7	08/29/11	10.62	3.87	--	6.75	
MW-7	12/01/11	10.62	2.67	--	7.95	
MW-7	03/01/12	10.62	2.80	--	7.82	
MW-7	05/30/12	10.62	2.82	--	7.80	
MW-7	08/25/12	10.62	3.35	--	7.27	
MW-7	11/07/12	10.62	2.23	--	8.39	
MW-7	02/27/13	10.62	2.33	--	8.29	
MW-7	04/08/13	10.62	1.88	--	8.74	
MW-7	06/21/13	10.62	3.10	--	7.52	Baseline monitoring event
MW-7	07/29/13	10.62	3.16	--	7.46	
MW-7	08/26/13	10.62	2.82	--	7.80	Two-month monitoring event
MW-7	10/02/13	10.62	2.08	--	8.54	
MW-7	01/21/14	10.62	2.78	--	7.84	
MW-7	04/22/14	10.62	1.45	--	9.17	
MW-7	07/15/14	10.62	3.02	--	7.60	
MW-7	03/17/15	10.62	0.76	--	9.86	
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	

# 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	03/26/07	10.63	4.01	--	6.62	
MW-8	06/18/07	10.63	4.55	--	6.08	
MW-8	09/24/07	10.63	5.05	--	5.58	
MW-8	12/10/07	10.63	4.18	--	6.45	
MW-8	03/03/08	10.63	4.25	--	6.38	
MW-8	06/02/08	10.63	4.65	--	5.98	
MW-8	09/04/08	10.63	4.69	--	5.94	
MW-8	12/04/08	10.63	--	--	--	Not Measured-Inaccessible
MW-8	03/04/09	10.63	3.36	--	7.27	
MW-8	06/01/09	10.63	3.67	--	6.96	
MW-8	09/21/09	10.63	4.42	--	6.21	
MW-8	11/16/09	10.63	2.85	--	7.78	
MW-8	03/08/10	10.63	2.65	--	7.98	
MW-8	06/07/10	10.63	3.10	--	7.53	
MW-8	09/09/10	10.63	4.29	--	6.34	
MW-8	11/15/10	10.63	3.12	--	7.51	
MW-8	03/01/11	10.63	2.22	--	8.41	
MW-8	05/23/11	10.63	2.76	--	7.87	
MW-8	08/29/11	10.63	4.22	--	6.41	
MW-8	12/01/11	10.63	3.11	--	7.52	
MW-8	03/01/12	10.63	3.18	--	7.45	
MW-8	05/30/12	10.63	3.27	--	7.36	
MW-8	08/25/12	10.63	4.02	--	6.61	
MW-8	11/07/12	10.63	2.93	--	7.70	
MW-8	02/27/13	10.63	2.98	--	7.65	
MW-8	04/08/13	10.63	2.41	--	8.22	
MW-8	07/29/13	10.63	3.98	--	6.65	
MW-8	10/02/13	10.63	2.86	--	7.77	
MW-8	01/21/14	10.63	3.56	--	7.07	
MW-8	04/22/14	10.63	2.68	--	7.95	
MW-8	07/15/14	10.63	3.83	--	6.80	
MW-8	03/17/15	10.63	1.62	--	9.01	
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	

# 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	03/13/06	9.75	2.30	--	7.45	
MW-9	06/05/06	9.75	2.74	--	7.01	
MW-9	09/11/06	9.75	3.85	--	5.90	
MW-9	12/11/06	9.75	2.09	--	7.66	
MW-9	03/26/07	9.75	2.44	--	7.31	
MW-9	06/18/07	9.75	2.44	--	7.31	
MW-9	09/24/07	9.75	3.88	--	5.87	
MW-9	12/10/07	9.75	2.24	Sheen	7.51	
MW-9	03/03/08	9.75	2.82	Sheen	6.93	
MW-9	06/02/08	9.75	3.52	--	6.23	
MW-9	09/04/08	9.75	3.54	--	6.21	
MW-9	12/04/08	9.75	3.34	--	6.41	
MW-9	03/04/09	9.75	2.89	--	6.86	
MW-9	06/01/09	9.75	3.19	--	6.56	
MW-9	09/21/09	9.75	3.76	Sheen	5.99	
MW-9	11/16/09	9.75	2.63	--	7.12	
MW-9	03/08/10	9.75	2.31	Sheen	7.44	
MW-9	06/07/10	9.75	2.72	Sheen	7.03	
MW-9	09/09/10	9.75	3.69	Sheen	6.06	
MW-9	11/15/10	9.75	2.71	Sheen	7.04	
MW-9	03/01/11	9.75	2.39	Sheen	7.36	
MW-9	05/23/11	9.75	2.58	Sheen	7.17	
MW-9	08/29/11	9.75	3.57	--	6.18	
MW-9	12/01/11	9.75	2.90	--	6.85	
MW-9	03/01/12	9.75	2.96	--	6.79	
MW-9	05/30/12	9.75	2.66	--	7.09	
MW-9	08/25/12	9.75	3.28	--	6.47	
MW-9	11/07/12	9.75	2.49	--	7.26	
MW-9	02/27/13	9.75	2.71	--	7.04	
MW-9	04/08/13	9.75	2.02	--	7.73	
MW-9	06/21/13	9.75	3.01	--	6.74	Baseline monitoring event
MW-9	07/29/13	9.75	3.19	--	6.56	
MW-9	08/26/13	9.75	3.11	--	6.64	Two-month monitoring event
MW-9	10/02/13	9.75	2.40	--	7.35	
MW-9	01/21/14	9.75	2.85	--	6.90	
MW-9	04/22/14	9.75	2.07	--	7.68	
MW-9	07/15/14	9.75	3.06	--	6.69	
MW-9	03/17/15	9.75	0.87	--	8.88	
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	

# 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	09/15/03	10.78	4.91	--	5.87	
MW-11D	11/18/03	10.78	4.28	--	6.50	
MW-11D	02/24/04	10.78	3.71	--	7.07	
MW-11D	05/10/04	10.78	4.35	--	6.43	
MW-11D	08/24/04	10.78	4.13	--	6.65	
MW-11D	12/13/04	10.78	4.26	--	6.52	
MW-11D	03/08/05	10.78	4.58	--	6.20	
MW-11D	06/06/05	10.78	4.43	--	6.35	
MW-11D	09/19/05	10.78	4.89	--	5.89	
MW-11D	12/12/05	10.78	4.64	--	6.14	
MW-11D	03/13/06	10.78	3.84	--	6.94	
MW-11D	06/05/06	10.78	4.31	--	6.47	
MW-11D	09/11/06	10.78	4.91	--	5.87	
MW-11D	12/11/06	10.78	3.63	--	7.15	
MW-12	02/11/02	--	--	--	--	Destroyed during construction activities
MW-12	<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	

# 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	11/16/09	15.47	7.40	--	8.07	
MW-12R	03/08/10	15.47	6.86	--	8.61	
MW-12R	06/07/10	15.47	7.23	--	8.24	
MW-12R	09/09/10	15.47	8.22	--	7.25	
MW-12R	11/15/10	15.47	7.40	--	8.07	
MW-12R	03/01/11	15.47	6.76	--	8.71	
MW-12R	05/23/11	15.47	6.87	--	8.60	
MW-12R	08/29/11	15.47	8.07	--	7.40	
MW-12R	12/01/11	15.47	7.51	--	7.96	
MW-12R	03/01/12	15.47	7.31	--	8.16	
MW-12R	05/30/12	15.47	7.30	--	8.17	
MW-12R	08/25/12	15.47	7.89	--	7.58	
MW-12R	11/07/12	15.47	7.34	--	8.13	
MW-12R	02/27/13	15.47	7.02	--	8.45	
MW-12R	04/08/13	15.47	6.88	--	8.59	
MW-12R	07/29/13	15.47	7.84	--	7.63	
MW-12R	10/02/13	15.47	7.42	--	8.05	
MW-12R	01/21/14	15.47	7.70	--	7.77	
MW-12R	04/22/14	15.47	6.90	--	8.57	
MW-12R	07/15/14	15.47	7.73	--	7.74	
MW-12R	03/17/15	15.47	6.49	--	8.98	
MW-13	02/11/02	--	--	--	--	Destroyed during construction activities
MW-13	Destroyed during construction activities					
MW-13R	02/11/02	10.99	5.95	--	5.04	
MW-13R	05/20/02	10.99	8.08	--	2.91	
MW-13R	08/27/02	10.99	7.93	--	3.06	
MW-13R	11/04/02	10.99	8.30	--	2.69	
MW-13R	02/18/03	10.99	6.55	--	4.44	
MW-13R	06/09/03	10.99	7.37	--	3.62	
MW-13R	09/15/03	15.15	8.19	--	6.96	
MW-13R	11/18/03	15.15	7.56	--	7.59	
MW-13R	02/24/04	15.15	6.50	--	8.65	
MW-13R	05/10/04	15.15	7.45	--	7.70	
MW-13R	08/24/04	15.15	8.13	--	7.02	
MW-13R	12/13/04	15.15	7.10	--	8.05	
MW-13R	03/08/05	15.15	7.62	--	7.53	
MW-13R	06/06/05	15.15	7.37	--	7.78	
MW-13R	09/19/05	15.15	8.22	--	6.93	
MW-13R	12/12/05	15.15	7.61	--	7.54	
MW-13R	03/13/06	15.15	6.50	--	8.65	
MW-13R	06/05/06	15.15	7.03	--	8.12	
MW-13R	09/11/06	15.15	8.13	--	7.02	
MW-13R	12/11/06	15.15	6.60	--	8.55	
MW-13R	03/26/07	15.15	6.60	--	8.55	
MW-13R	06/18/07	15.15	7.53	--	7.62	
MW-13R	09/25/07	15.15	8.10	--	7.05	
MW-13R	12/10/07	15.15	6.74	--	8.41	

# 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	03/03/08	15.15	7.45	--	7.70	
MW-13R	06/02/08	15.15	7.70	--	7.45	
MW-13R	09/04/08	15.15	7.86	--	7.29	
MW-13R	12/04/08	15.15	7.72	--	7.43	
MW-13R	03/04/09	15.15	7.30	--	7.85	
MW-13R	06/01/09	15.15	7.43	--	7.72	
MW-13R	09/21/09	15.15	8.12	--	7.03	
MW-13R	11/16/09	15.15	7.07	--	8.08	
MW-13R	03/08/10	15.15	6.57	--	8.58	
MW-13R	06/07/10	15.15	6.95	--	8.20	
MW-13R	09/09/10	15.15	7.94	--	7.21	
MW-13R	11/15/10	15.15	7.12	--	8.03	
MW-13R	03/01/11	15.15	6.42	--	8.73	
MW-13R	05/23/11	15.15	6.52	--	8.63	
MW-13R	08/29/11	15.15	7.79	--	7.36	
MW-13R	12/01/11	15.15	7.21	--	7.94	
MW-13R	03/01/12	15.15	6.99	--	8.16	
MW-13R	05/25/12	--	--	--	--	Abandoned
MW-13R	<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	

# 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	06/01/09	11.44	3.61	--	7.83	
MW-14	09/21/09	11.44	4.59	--	6.85	
MW-14	11/16/09	11.44	2.82	--	8.62	
MW-14	03/08/10	11.44	2.48	--	8.96	
MW-14	06/07/10	11.44	2.99	--	8.45	
MW-14	09/09/10	11.44	4.33	--	7.11	
MW-14	11/15/10	11.44	3.01	--	8.43	
MW-14	03/01/11	11.44	2.03	--	9.41	
MW-14	05/23/11	11.44	2.36	--	9.08	
MW-14	08/29/11	11.44	4.20	--	7.24	
MW-14	12/01/11	11.44	3.17	--	8.27	
MW-14	03/01/12	11.44	3.05	--	8.39	
MW-14	05/30/12	11.44	3.09	--	8.35	
MW-14	08/25/12	11.44	4.04	--	7.40	
MW-14	11/07/12	11.44	2.92	--	8.52	
MW-14	02/27/13	11.44	2.66	--	8.78	
MW-14	04/08/13	11.44	2.18	--	9.26	
MW-14	07/29/13	11.44	3.90	--	7.54	
MW-14	10/02/13	11.44	3.08	--	8.36	
MW-14	01/21/14	11.44	5.59	--	5.85	
MW-14	04/22/14	11.44	2.19	--	9.25	
MW-14	07/15/14	11.44	3.71	--	7.73	
MW-14	03/17/15	11.44	1.47	--	9.97	
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	



# 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	02/11/02	11.19	6.19	--	5.00	
MW-16	05/20/02	11.19	8.23	--	2.96	
MW-16	08/27/02	11.19	8.32	--	2.87	
MW-16	11/04/02	11.19	8.72	--	2.47	
MW-16	02/18/03	11.19	7.65	--	3.54	
MW-16	06/09/03	11.19	7.46	--	3.73	
MW-16	09/15/03	15.23	8.55	--	6.68	
MW-16	11/18/03	15.23	7.69	--	7.54	
MW-16	02/24/04	15.23	6.40	--	8.83	
MW-16	05/10/04	15.23	7.60	--	7.63	
MW-16	08/24/04	15.23	8.21	--	7.02	
MW-16	12/13/04	15.23	7.80	--	7.43	
MW-16	03/08/05	15.23	7.55	--	7.68	
MW-16	06/06/05	15.23	7.38	--	7.85	
MW-16	09/19/05	15.23	8.40	--	6.83	
MW-16	12/12/05	15.23	7.69	--	7.54	
MW-16	03/13/06	15.23	6.16	--	9.07	
MW-16	06/05/06	15.23	7.22	--	8.01	
MW-16	09/11/06	15.23	8.32	--	6.91	
MW-16	12/11/06	15.23	6.40	--	8.83	
MW-16	03/26/07	15.23	6.53	--	8.70	
MW-16	06/18/07	15.23	7.60	--	7.63	
MW-16	09/24/07	15.23	8.36	--	6.87	
MW-16	12/10/07	15.23	6.85	--	8.38	
MW-16	03/03/08	15.23	6.95	--	8.28	
MW-16	06/02/08	15.23	7.62	--	7.61	
MW-16	09/04/08	15.23	8.07	--	7.16	
MW-16	12/04/08	15.23	7.82	--	7.41	
MW-16	03/04/09	15.23	7.47	--	7.76	
MW-16	06/01/09	15.23	7.37	--	7.86	
MW-16	09/21/09	15.23	8.33	--	6.90	
MW-16	11/16/09	15.23	7.30	--	7.93	
MW-16	03/08/10	15.23	6.34	--	8.89	
MW-16	06/07/10	15.23	6.87	--	8.36	
MW-16	09/09/10	15.23	8.04	--	7.19	
MW-16	11/15/10	15.23	7.14	--	8.09	
MW-16	03/01/11	15.23	6.12	--	9.11	
MW-16	05/23/11	15.23	6.22	--	9.01	
MW-16	08/29/11	15.23	7.97	--	7.26	
MW-16	12/01/11	15.23	7.45	--	7.78	
MW-16	03/01/12	15.23	6.81	--	8.42	
MW-16	05/30/12	15.23	6.71	--	8.52	
MW-16	08/25/12	15.23	7.57	--	7.66	
MW-16	11/07/12	15.23	7.20	--	8.03	
MW-16	02/27/13	15.23	6.18	--	9.05	
MW-16	04/08/13	15.23	6.28	--	8.95	
MW-16	07/29/13	15.23	7.31	--	7.92	
MW-16	10/02/13	15.23	7.21	--	8.02	

# 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	01/21/14	15.23	7.19	--	8.04	
MW-16	04/22/14	15.23	6.12	--	9.11	
MW-16	07/15/14	15.23	7.22	--	8.01	
MW-16	03/17/15	15.23	5.78	--	9.45	
MW-17	02/11/02	11.43	6.13	--	5.30	
MW-17	05/20/02	11.43	8.38	--	3.05	
MW-17	08/27/02	11.43	8.50	--	2.93	
MW-17	11/04/02	11.43	8.91	--	2.52	
MW-17	02/18/03	11.43	6.70	--	4.73	
MW-17	06/09/03	11.43	7.71	--	3.72	
MW-17	09/15/03	15.38	8.71	--	6.67	
MW-17	11/18/03	15.38	11.83	--	3.55	
MW-17	02/24/04	15.38	7.20	--	8.18	
MW-17	05/10/04	15.38	7.77	--	7.61	
MW-17	08/24/04	15.38	8.36	--	7.02	
MW-17	12/13/04	15.38	7.85	--	7.53	
MW-17	03/08/05	15.38	7.65	--	7.73	
MW-17	06/06/05	15.38	7.55	--	7.83	
MW-17	09/19/05	15.38	8.56	--	6.82	
MW-17	12/12/05	15.38	7.85	--	7.53	
MW-17	03/13/06	15.38	6.30	--	9.08	
MW-17	06/05/06	15.38	7.44	--	7.94	
MW-17	09/11/06	15.38	8.52	--	6.86	
MW-17	12/11/06	15.38	6.49	--	8.89	
MW-17	05/23/11	15.38	6.30	--	9.08	
MW-17	08/29/11	15.38	6.30	--	9.08	
MW-18	02/11/02	11.29	5.97	--	5.32	
MW-18	05/20/02	11.29	8.20	--	3.09	
MW-18	08/27/02	11.29	7.34	--	3.95	
MW-18	11/04/02	11.29	8.73	--	2.56	
MW-18	02/18/03	11.29	6.45	--	4.84	
MW-18	06/09/03	11.29	7.59	--	3.70	
MW-18	09/15/03	15.49	8.65	--	6.84	
MW-18	11/18/03	15.49	7.68	--	7.81	
MW-18	02/24/04	15.49	6.38	--	9.11	
MW-18	05/10/04	15.49	7.65	--	7.84	
MW-18	08/24/04	15.49	8.17	--	7.32	
MW-18	12/13/04	15.49	7.61	--	7.88	
MW-18	03/08/05	15.49	7.47	--	8.02	
MW-18	06/06/05	15.49	7.41	--	8.08	
MW-18	09/19/05	15.49	8.43	--	7.06	
MW-18	12/12/05	15.49	7.70	--	7.79	
MW-18	03/13/06	15.49	6.23	--	9.26	
MW-18	06/05/06	15.49	7.31	--	8.18	
MW-18	09/11/06	15.49	8.34	--	7.15	
MW-18	12/11/06	15.49	6.34	--	9.15	
MW-18	03/26/07	15.49	6.59	--	8.90	

# 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	06/18/07	15.49	7.66	--	7.83	
MW-18	09/24/07	15.49	8.40	--	7.09	
MW-18	12/10/07	15.49	6.68	--	8.81	
MW-18	03/03/08	15.49	6.98	--	8.51	
MW-18	06/02/08	15.49	7.70	--	7.79	
MW-18	09/04/08	15.49	8.11	--	7.38	
MW-18	12/04/08	15.49	7.84	--	7.65	
MW-18	03/04/09	15.49	7.34	--	8.15	
MW-18	06/01/09	15.49	7.36	--	8.13	
MW-18	09/21/09	15.49	8.40	--	7.09	
MW-18	11/16/09	15.49	7.18	--	8.31	
MW-18	03/08/10	15.49	6.23	--	9.26	
MW-18	06/07/10	15.49	6.89	--	8.60	
MW-18	09/09/10	15.49	8.11	--	7.38	
MW-18	11/15/10	15.49	7.12	--	8.37	
MW-18	03/01/11	15.49	6.11	--	9.38	
MW-18	05/23/11	15.49	6.25	--	9.24	
MW-18	08/29/11	15.49	7.87	--	7.62	
MW-18	12/01/11	15.49	7.38	--	8.11	
MW-18	03/01/12	15.49	6.88	--	8.61	
MW-18	05/30/12	15.49	6.75	--	8.74	
MW-18	08/25/12	15.49	--	--	--	Inaccessible due to truck parked on top
MW-18	11/07/12	15.49	7.21	--	8.28	
MW-18	02/27/13	15.49	6.43	--	9.06	
MW-18	04/08/13	15.49	6.39	--	9.10	
MW-18	07/29/13	15.49	7.63	--	7.86	
MW-18	10/02/13	15.49	7.39	--	8.10	
MW-18	01/21/14	15.49	7.35	--	8.14	
MW-18	04/22/14	15.49	0.20	--	15.29	
MW-18	07/15/14	15.49	7.31	--	8.18	
MW-18	03/17/15	15.49	5.62	--	9.87	
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

# 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	03/13/06	11.39	--	--	--	pipe stockpile Not Measured-Inaccessible, under pipe stockpile
MW-19	06/05/06	11.39	2.91	--	8.48	
MW-19	09/11/06	11.39	4.72	--	6.67	
MW-19	12/11/06	11.39	2.00	--	9.39	
MW-19	03/26/07	11.39	2.22	--	9.17	
MW-19	06/18/07	11.39	3.56	--	7.83	
MW-19	09/24/07	11.39	4.31	--	7.08	
MW-19	12/10/07	11.39	2.38	--	9.01	
MW-19	03/03/08	11.39	2.98	--	8.41	
MW-19	06/02/08	11.39	3.67	--	7.72	
MW-19	09/04/08	11.39	3.98	--	7.41	
MW-19	12/04/08	11.39	3.68	--	7.71	
MW-19	03/04/09	11.39	3.03	--	8.36	
MW-19	06/01/09	11.39	3.23	--	8.16	
MW-19	09/21/09	11.39	4.23	--	7.16	
MW-19	11/16/09	11.39	2.85	--	8.54	
MW-19	03/08/10	11.39	2.25	--	9.14	
MW-19	06/07/10	11.39	2.67	--	8.72	
MW-19	09/09/10	11.39	3.97	--	7.42	
MW-19	11/15/10	11.39	2.75	--	8.64	
MW-19	03/01/11	11.39	1.82	--	9.57	
MW-19	05/23/11	11.39	2.02	--	9.37	
MW-19	08/29/11	11.39	3.77	--	7.62	
MW-19	12/01/11	11.39	3.03	--	8.36	
MW-19	03/01/12	11.39	2.82	--	8.57	
MW-19	05/30/12	11.39	2.79	--	8.60	
MW-19	08/25/12	11.39	3.62	--	7.77	
MW-19	11/07/12	11.39	2.77	--	8.62	
MW-19	02/27/13	11.39	2.18	--	9.21	
MW-19	04/08/13	11.39	1.82	--	9.57	
MW-19	06/21/13	11.39	3.05	--	8.34	Baseline monitoring event
MW-19	07/29/13	11.39	3.56	--	7.83	
MW-19	08/26/13	11.39	3.45	--	7.94	Two-month monitoring event
MW-19	10/02/13	11.39	2.72	--	8.67	
MW-19	01/21/14	11.39	3.12	--	8.27	
MW-19	04/22/14	11.39	1.81	--	9.58	
MW-19	07/15/14	11.39	3.30	--	8.09	
MW-19	03/17/15	11.39	1.11	--	10.28	
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

# 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	11/18/03	11.72	--	--	--	well cap removed Not Measured-Overflowed when
MW-20	02/24/04	11.72	--	--	--	well cap removed Not Measured-Overflowed when
MW-20	05/10/04	11.72	--	--	--	well cap removed Not Measured-Overflowed when
MW-20	08/24/04	11.72	4.04	--	7.68	
MW-20	12/13/04	11.72	2.29	--	9.43	
MW-20	03/08/05	11.72	3.64	--	8.08	
MW-20	06/06/05	11.72	3.43	--	8.29	
MW-20	09/19/05	11.72	4.55	--	7.17	
MW-20	12/12/05	11.72	3.67	--	8.05	
MW-20	03/13/06	11.72	2.21	--	9.51	
MW-20	06/05/06	11.72	3.00	--	8.72	
MW-20	09/11/06	11.72	4.49	--	7.23	
MW-20	12/11/06	11.72	2.36	--	9.36	
MW-20	03/26/07	11.72	2.49	--	9.23	
MW-20	06/18/07	11.72	4.44	--	7.28	
MW-20	09/24/07	11.72	4.61	--	7.11	
MW-20	12/10/07	11.72	2.56	--	9.16	
MW-20	03/03/08	11.72	2.97	--	8.75	
MW-20	06/02/08	11.72	3.90	--	7.82	
MW-20	09/04/08	11.72	4.14	--	7.58	
MW-20	12/04/08	11.72	3.89	--	7.83	
MW-20	03/04/09	11.72	4.99	--	6.73	
MW-20	06/01/09	11.72	3.46	--	8.26	
MW-20	09/21/09	11.72	4.42	--	7.30	
MW-20	11/16/09	11.72	2.91	--	8.81	
MW-20	03/08/10	11.72	2.40	--	9.32	
MW-20	06/07/10	11.72	2.76	--	8.96	
MW-20	09/09/10	11.72	4.22	--	7.50	
MW-20	11/15/10	11.72	3.03	--	8.69	
MW-20	03/01/11	11.72	2.18	--	9.54	
MW-20	05/23/11	11.72	2.11	--	9.61	
MW-20	08/29/11	11.72	4.05	--	7.67	
MW-20	12/01/11	11.72	3.08	--	8.64	
MW-20	03/01/12	11.72	3.09	--	8.63	
MW-20	05/30/12	11.72	2.89	--	8.83	
MW-20	08/25/12	11.72	3.88	--	7.84	
MW-20	11/07/12	11.72	2.98	--	8.74	
MW-20	02/27/13	11.72	2.60	--	9.12	
MW-20	04/08/13	11.72	2.23	--	9.49	
MW-20	07/29/13	11.72	4.93	--	6.79	
MW-20	10/02/13	11.72	4.64	--	7.08	
MW-20	01/21/14	11.72	3.44	--	8.28	
MW-20	04/22/14	11.72	2.33	--	9.39	
MW-20	07/15/14	11.72	3.51	--	8.21	
MW-20	03/17/15	11.72	1.49	--	10.23	

# 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
MW-21	02/11/02	10.53	3.80	0.46	7.10*	
MW-21	05/20/02	10.53	5.98	0.43	4.89*	
MW-21	08/27/02	10.53	3.95	0.43	6.92*	
MW-21	11/04/02	10.53	4.95	0.01	5.59*	Product recovery pump in well
MW-21	02/18/03	10.53	3.59	0.01	6.95*	Product recovery pump in well
MW-21	06/09/03	10.53	3.53	Sheen	7.00	Product recovery pump in well
MW-21	09/15/03	9.41	3.98	0.01	5.44*	Product recovery pump in well
MW-21	11/18/03	9.41	3.08	Sheen	6.33	Product recovery pump in well
MW-21	02/24/04	9.41	2.47	Sheen	6.94	Product recovery pump in well
MW-21	05/10/04	9.41	3.65	Sheen	5.76	Product recovery pump in well
MW-21	08/24/04	9.41	3.81	Sheen	5.60	Product recovery pump in well
MW-21	12/13/04	9.41	3.24	Sheen	6.17	
MW-21	03/08/05	9.41	3.72	--	5.69	
MW-21	06/06/05	9.41	3.58	Sheen	5.83	
MW-21	09/19/05	9.41	4.19	--	5.22	
MW-21	12/12/05	9.41	4.04	--	5.37	
MW-21	03/13/06	9.41	2.48	--	6.93	
MW-21	06/05/06	9.41	3.27	--	6.14	
MW-21	09/11/06	9.41	3.90	0.08	5.57*	
MW-21	12/11/06	9.41	2.34	0.04	7.10*	
MW-21	03/26/07	9.41	2.87	--	6.54	
MW-21	06/18/07	9.41	3.75	--	5.66	
MW-21	09/24/07	9.41	3.81	Sheen	5.60	
MW-21	12/10/07	9.41	2.14	--	7.27	
MW-21	03/03/08	9.41	3.18	--	6.23	
MW-21	06/02/08	9.41	3.63	Sheen	5.78	
MW-21	09/04/08	9.41	3.60	--	5.81	
MW-21	12/04/08	9.41	3.48	Sheen	5.93	
MW-21	03/04/09	9.41	2.84	Sheen	6.57	
MW-21	06/01/09	9.41	3.34	--	6.07	
MW-21	09/21/09	9.41	3.74	Sheen	5.67	
MW-21	11/16/09	9.41	2.59	--	6.82	
MW-21	03/08/10	9.41	2.23	--	7.18	
MW-21	06/07/10	9.41	--	--	--	Not Measured
MW-21	09/09/10	9.41	3.66	--	5.75	
MW-21	11/15/10	9.41	2.79	--	6.62	
MW-21	03/01/11	9.41	2.21	--	7.20	
MW-21	05/23/11	9.41	2.47	--	6.94	
MW-21	08/29/11	9.41	3.53	--	5.88	
MW-21	12/01/11	9.41	2.77	Sheen	6.64	
MW-21	03/01/12	9.41	2.27	Sheen	7.14	
MW-21	05/30/12	9.41	2.86	--	6.55	
MW-21	08/25/12	9.41	3.20	--	6.21	
MW-21	11/07/12	9.41	2.53	--	6.88	
MW-21	02/27/13	9.41	2.61	--	6.80	
MW-21	04/08/13	9.41	1.99	--	7.42	
MW-21	07/29/13	9.41	3.31	--	6.10	
MW-21	10/02/13	9.41	2.49	--	6.92	
MW-21	01/21/14	9.41	3.02	--	6.39	

# 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	04/22/14	9.41	2.37	--	7.04	
MW-21	07/15/14	9.41	3.12	--	6.29	
MW-21	03/17/15	9.41	1.74	--	7.67	
MW-22	02/11/02	12.39	7.18	--	5.21	
MW-22	05/20/02	12.39	9.44	--	2.95	
MW-22	08/27/02	12.39	9.55	--	2.84	
MW-22	11/04/02	12.39	9.91	--	2.48	
MW-22	02/18/03	12.39	7.75	--	4.64	
MW-22	06/09/03	12.39	8.71	--	3.68	
MW-22	09/15/03	16.32	9.75	--	6.57	
MW-22	11/18/03	16.32	8.55	--	7.77	
MW-22	02/24/04	16.32	7.56	--	8.76	
MW-22	05/10/04	16.32	8.76	--	7.56	
MW-22	08/24/04	16.32	9.25	--	7.07	
MW-22	12/13/04	16.32	8.70	--	7.62	
MW-22	03/08/05	16.32	8.72	--	7.60	
MW-22	06/06/05	16.32	8.58	--	7.74	
MW-22	09/19/05	16.32	9.61	--	6.71	
MW-22	12/12/05	16.32	8.90	--	7.42	
MW-22	03/13/06	16.32	4.37	--	11.95	
MW-22	06/05/06	16.32	8.31	--	8.01	
MW-22	09/11/06	16.32	9.54	--	6.78	
MW-22	12/11/06	16.32	7.44	--	8.88	
MW-22	03/26/07	16.32	7.68	--	8.64	
MW-22	06/18/07	16.32	8.78	--	7.54	
MW-22	09/24/07	16.32	9.55	--	6.77	
MW-22	12/10/07	16.32	7.84	--	8.48	
MW-22	03/03/08	16.32	8.12	--	8.20	
MW-22	06/02/08	16.32	8.85	--	7.47	
MW-22	09/04/08	16.32	9.22	--	7.10	
MW-22	12/04/08	16.32	9.00	--	7.32	
MW-22	03/04/09	16.32	8.43	--	7.89	
MW-22	06/01/09	16.32	8.56	--	7.76	
MW-22	09/21/09	16.32	9.51	--	6.81	
MW-22	11/16/09	16.32	8.31	--	8.01	
MW-22	03/08/10	16.32	7.40	--	8.92	
MW-22	06/07/10	16.32	8.00	--	8.32	
MW-22	09/09/10	16.32	9.22	--	7.10	
MW-22	11/15/10	16.32	8.20	--	8.12	
MW-22	03/01/11	16.32	7.18	--	9.14	
MW-22	05/23/11	16.32	7.35	--	8.97	
MW-22	08/29/11	16.32	9.01	--	7.31	
MW-22	12/01/11	16.32	8.48	--	7.84	
MW-22	03/01/12	16.32	7.98	--	8.34	
MW-22	05/30/12	16.32	7.92	--	8.40	
MW-22	08/25/12	16.32	8.79	--	7.53	
MW-22	11/07/12	16.32	8.24	--	8.08	
MW-22	02/27/13	16.32	7.42	--	8.90	

# 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	04/08/13	16.32	7.28	--	9.04	
MW-22	07/29/13	16.32	8.59	--	7.73	
MW-22	10/02/13	16.32	8.29	--	8.03	
MW-22	01/21/14	16.32	8.39	--	7.93	
MW-22	04/22/14	16.32	7.22	--	9.10	
MW-22	07/15/14	16.32	8.45	--	7.87	
MW-22	03/17/15	16.32	6.65	--	9.67	
MW-23	11/18/03	14.15	7.66	Sheen	6.49	
MW-23	02/24/04	14.15	7.18	Sheen	6.97	
MW-23	05/10/04	14.15	7.89	<0.01	6.26*	
MW-23	08/24/04	14.15	8.89	--	5.26	
MW-23	12/13/04	14.15	7.49	Sheen	6.66	
MW-23	03/08/05	14.15	7.57	Sheen	6.58	
MW-23	06/06/05	14.15	7.72	Sheen	6.43	
MW-23	09/19/05	14.15	8.17	0.17	6.12*	
MW-23	10/12/05	14.15	8.10	Sheen	6.05	
MW-23	12/12/05	14.15	7.93	--	6.22	
MW-23	03/13/06	14.15	7.17	--	6.98	
MW-23	06/05/06	14.15	7.62	--	6.53	
MW-23	09/11/06	14.15	8.22	0.02	5.95*	
MW-23	12/11/06	14.15	7.17	--	6.98	
MW-23	03/26/07	14.15	7.41	--	6.74	
MW-23	06/18/07	14.15	7.90	--	6.25	
MW-23	09/25/07	14.15	8.14	Sheen	6.01	
MW-23	12/10/07	14.15	7.38	Sheen	6.77	
MW-23	03/03/08	14.15	7.49	Sheen	6.66	
MW-23	06/02/08	14.15	8.71	Sheen	5.44	
MW-23	09/04/08	14.15	8.04	--	6.11	
MW-23	12/04/08	14.15	8.05	--	6.10	
MW-23	03/04/09	14.15	7.48	--	6.67	
MW-23	06/01/09	14.15	7.98	--	6.17	
MW-23	09/21/09	14.15	8.13	--	6.02	
MW-23	11/16/09	14.15	7.50	Sheen	6.65	
MW-23	03/08/10	14.15	7.01	--	7.14	
MW-23	06/07/10	14.15	7.49	Sheen	6.66	
MW-23	09/09/10	14.15	8.02	Sheen	6.13	
MW-23	11/15/10	14.15	7.60	--	6.55	
MW-23	03/01/11	14.15	7.26	Sheen	6.89	
MW-23	05/23/11	14.15	7.38	Sheen	6.77	
MW-23	08/29/11	14.15	7.91	Sheen	6.24	
MW-23	12/01/11	14.15	7.58	--	6.57	
MW-23	03/01/12	14.15	7.35	--	6.80	
MW-23	05/30/12	14.15	7.29	--	6.86	
MW-23	08/25/12	14.15	7.41	--	6.74	
MW-23	11/07/12	14.15	7.19	--	6.96	
MW-23	02/27/13	14.15	7.23	--	6.92	
MW-23	04/08/13	14.15	7.15	--	7.00	
MW-23	07/29/13	14.15	7.47	--	6.68	



# 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	10/02/13	14.15	7.34	--	6.81	
MW-23	01/21/14	14.15	7.72	--	6.43	
MW-23	04/22/14	14.15	7.25	--	6.90	
MW-23	07/15/14	14.15	7.60	--	6.55	
MW-23	03/17/15	14.15	7.11	--	7.04	
MW-24	11/18/03	14.34	7.65	Sheen	6.69	
MW-24	02/24/04	14.34	7.07	Sheen	7.27	
MW-24	05/10/04	14.34	7.73	0.02	6.63*	
MW-24	08/24/04	14.34	7.90	0.10	6.52*	
MW-24	12/13/04	14.34	7.47	Sheen	6.87	
MW-24	03/08/05	14.34	7.57	Sheen	6.77	
MW-24	06/06/05	14.34	7.24	0.02	7.12*	
MW-24	09/19/05	14.34	8.39	0.29	6.18*	
MW-24	10/12/05	14.34	8.45	0.47	6.27*	
MW-24	12/12/05	14.34	8.01	0.11	6.42*	
MW-24	03/13/06	14.34	7.19	--	7.15	
MW-24	06/05/06	14.34	7.59	--	6.75	
MW-24	09/11/06	14.34	8.31	0.20	6.19*	
MW-24	12/11/06	14.34	7.37	--	6.97	
MW-24	03/26/07	14.34	7.42	--	6.92	
MW-24	06/18/07	14.34	7.89	--	6.45	
MW-24	09/25/07	14.34	8.00	Sheen	6.34	
MW-24	12/10/07	14.34	7.42	--	6.92	
MW-24	03/03/08	14.34	7.51	Sheen	6.83	
MW-24	06/02/08	14.34	8.92	--	5.42	
MW-24	09/04/08	14.34	7.99	--	6.35	
MW-24	12/04/08	14.34	7.96	--	6.38	
MW-24	03/04/09	14.34	7.51	--	6.83	
MW-24	06/01/09	14.34	7.87	Sheen	6.47	
MW-24	09/21/09	14.34	8.09	--	6.25	
MW-24	11/16/09	14.34	7.46	Sheen	6.88	
MW-24	03/08/10	14.34	7.03	--	7.31	
MW-24	06/07/10	14.34	7.51	Sheen	6.83	
MW-24	09/09/10	14.34	8.01	Sheen	6.33	
MW-24	11/15/10	14.34	7.61	Sheen	6.73	
MW-24	03/01/11	14.34	7.26	Sheen	7.08	
MW-24	05/23/11	14.34	7.37	--	6.97	
MW-24	08/29/11	14.34	7.92	Sheen	6.42	
MW-24	12/01/11	14.34	7.73	--	6.61	
MW-24	03/01/12	14.34	7.39	--	6.95	
MW-24	05/30/12	14.34	7.41	--	6.93	
MW-24	08/25/12	14.34	7.59	--	6.75	
MW-24	11/07/12	14.34	7.26	--	7.08	
MW-24	02/27/13	14.34	7.34	--	7.00	
MW-24	04/08/13	14.34	7.27	--	7.07	
MW-24	07/29/13	14.34	7.58	--	6.76	
MW-24	10/02/13	14.34	7.34	--	7.00	
MW-24	01/21/14	14.34	7.66	--	6.68	

# 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	04/22/14	14.34	7.20	--	7.14	
MW-24	07/15/14	14.34	7.59	--	6.75	
MW-24	03/17/15	14.34	7.06	--	7.28	
MW-25	11/18/03	13.05	7.50	Sheen	5.55	
MW-25	02/24/04	13.05	6.48	Sheen	6.57	
MW-25	05/10/04	13.05	7.61	--	5.44	
MW-25	08/24/04	13.05	7.11	--	5.94	
MW-25	12/13/04	13.05	7.49	--	5.56	
MW-25	03/08/05	13.05	7.61	--	5.44	
MW-25	06/06/05	13.05	7.47	--	5.58	
MW-25	09/19/05	13.05	7.93	--	5.12	
MW-25	12/12/05	13.05	7.71	--	5.34	
MW-25	03/13/06	13.05	7.02	--	6.03	
MW-25	06/05/06	13.05	7.38	--	5.67	
MW-25	09/11/06	13.05	7.88	--	5.17	
MW-25	12/11/06	13.05	7.03	--	6.02	
MW-25	06/18/07	13.05	6.77	--	6.28	
MW-25	03/03/08	13.05	7.28	--	5.77	
MW-25	06/02/08	13.05	7.71	--	5.34	
MW-25	09/04/08	13.05	7.33	--	5.72	
MW-25	12/04/08	13.05	--	--	--	Not Measured
MW-25	06/01/09	13.05	7.60	--	5.45	
MW-25	06/07/10	13.05	7.31	--	5.74	
MW-25	05/23/11	13.05	7.13	--	5.92	
MW-25	04/22/14	13.05	7.09	--	5.96	
MW-25	03/17/15	13.05	6.92	--	6.13	
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	
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	

# 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	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	
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	

# 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	09/09/10	13.40	6.31	--	7.09	
SH-02R	11/15/10	13.40	5.42	--	7.98	
SH-02R	03/01/11	13.40	4.71	--	8.69	
SH-02R	05/23/11	13.40	4.78	--	8.62	
SH-02R	08/29/11	13.40	6.16	--	7.24	
SH-02R	12/01/11	13.40	5.50	--	7.90	
SH-02R	03/01/12	13.40	5.34	--	8.06	
SH-02R	05/30/12	13.40	5.32	--	8.08	
SH-02R	08/25/12	13.40	6.03	--	7.37	
SH-02R	11/07/12	13.40	5.37	--	8.03	
SH-02R	02/27/13	13.40	5.01	--	8.39	
SH-02R	04/08/13	13.40	4.77	--	8.63	
SH-02R	07/29/13	13.40	5.98	--	7.42	
SH-02R	10/02/13	13.40	5.54	--	7.86	
SH-02R	01/21/14	13.40	5.76	--	7.64	
SH-02R	04/22/14	13.40	4.76	--	8.64	
SH-02R	07/15/14	13.40	5.78	--	7.62	
SH-02R	03/17/15	13.40	4.43	--	8.97	
SH-04	02/11/02	13.45	9.40	--	4.05	
SH-04	05/20/02	13.45	11.24	--	2.21	
SH-04	08/27/02	13.45	11.02	--	2.43	
SH-04	11/04/02	13.45	9.31	--	4.14	
SH-04	02/18/03	13.45	9.80	--	3.65	
SH-04	06/09/03	13.45	10.41	--	3.04	
SH-04	09/15/03	17.41	11.15	--	6.26	
SH-04	11/18/03	17.41	7.61	--	9.80	
SH-04	02/24/04	17.41	6.62	--	10.79	
SH-04	05/10/04	17.41	11.40	--	6.01	
SH-04	08/24/04	17.41	10.88	--	6.53	
SH-04	12/13/04	17.41	10.68	--	6.73	
SH-04	03/08/05	17.41	10.33	--	7.08	
SH-04	06/06/05	17.41	10.23	--	7.18	
SH-04	09/19/05	17.41	11.03	--	6.38	
SH-04	12/12/05	17.41	10.53	--	6.88	
SH-04	03/13/06	17.41	9.22	--	8.19	
SH-04	06/05/06	17.41	10.05	--	7.36	
SH-04	09/11/06	17.41	11.00	--	6.41	
SH-04	12/11/06	17.41	9.50	--	7.91	
SH-05R	05/20/02	9.83	8.07	Sheen	1.76	
SH-05R	08/27/02	9.83	7.59	--	2.24	
SH-05R	11/04/02	9.83	7.81	Sheen	2.02	
SH-05R	02/18/03	9.83	7.60	--	2.23	
SH-05R	06/09/03	9.83	7.29	--	2.54	
SH-05R	09/15/03	13.89	7.42	Sheen	6.47	
SH-05R	11/18/03	13.89	7.21	Sheen	6.68	
SH-05R	02/24/04	13.89	6.41	--	7.48	
SH-05R	05/10/04	13.89	7.33	--	6.56	

# 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	08/24/04	13.89	7.60	--	6.29	
SH-05R	12/13/04	13.89	7.15	--	6.74	
SH-05R	03/08/05	13.89	7.62	--	6.27	
SH-05R	06/06/05	13.89	7.24	--	6.65	
SH-05R	09/19/05	13.89	7.80	--	6.09	
SH-05R	12/12/05	13.89	7.49	--	6.40	
SH-05R	03/13/06	13.89	6.38	--	7.51	
SH-05R	06/05/06	13.89	7.10	--	6.79	
SH-05R	09/11/06	13.89	7.72	--	6.17	
SH-05R	12/11/06	13.89	6.61	--	7.28	
SH-05R	03/26/07	13.89	6.82	--	7.07	
SH-05R	06/18/07	13.89	7.43	--	6.46	
SH-05R	09/25/07	13.89	7.72	--	6.17	
SH-05R	12/10/07	13.89	6.70	--	7.19	
SH-05R	03/03/08	13.89	7.01	--	6.88	
SH-05R	06/02/08	13.89	7.50	--	6.39	
SH-05R	09/04/08	13.89	7.55	--	6.34	
SH-05R	12/04/08	13.89	7.12	--	6.77	
SH-05R	03/04/09	13.89	7.02	--	6.87	
SH-05R	06/01/09	13.89	7.36	--	6.53	
SH-05R	09/21/09	13.89	7.73	--	6.16	
SH-05R	11/16/09	13.89	6.93	--	6.96	
SH-05R	03/08/10	13.89	6.47	--	7.42	
SH-05R	06/07/10	13.89	6.63	--	7.26	
SH-05R	09/09/10	13.89	7.58	--	6.31	
SH-05R	11/16/10	13.89	7.04	--	6.85	
SH-05R	03/01/11	13.89	6.58	--	7.31	
SH-05R	05/23/11	13.89	6.74	--	7.15	
SH-05R	08/29/11	13.89	7.52	--	6.37	
SH-05R	12/01/11	13.89	7.09	--	6.80	
SH-05R	03/01/12	13.89	6.89	--	7.00	
SH-05R	05/30/12	13.89	6.91	--	6.98	
SH-05R	08/25/12	13.89	7.29	--	6.60	
SH-05R	11/07/12	13.89	6.79	--	7.10	
SH-05R	02/27/13	13.89	6.77	--	7.12	
SH-05R	04/08/13	13.89	5.59	--	8.30	
SH-05R	07/29/13	13.89	7.25	--	6.64	
SH-05R	10/02/13	13.89	6.82	--	7.07	
SH-05R	01/21/14	13.89	7.18	--	6.71	
SH-05R	04/22/14	13.89	6.59	--	7.30	
SH-05R	07/15/14	13.89	7.17	--	6.72	
SH-05R	03/17/15	13.89	6.30	--	7.59	
MW-07	01/13/97	7.66	--	--	--	Destroyed during construction activities
MW-07	Destroyed during construction activities					
MW-07R	02/11/02	9.93	4.95	--	4.98	
MW-07R	05/20/02	9.93	7.29	--	2.64	
MW-07R	08/27/02	9.93	7.17	--	2.76	

# 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	11/04/02	9.93	7.53	--	2.40	
MW-07R	02/18/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/09/03	--	--	--	--	Not Measured-Inaccessible; covered with asphalt
MW-07R	06/11/03	--	--	--	--	Not Measured-Located & cleaned out
MW-07R	09/15/03	13.92	8.40	--	5.52	
MW-07R	11/18/03	13.92	8.17	--	5.75	
MW-07R	02/24/04	13.92	5.64	--	8.28	
MW-07R	05/10/04	13.92	6.70	--	7.22	
MW-07R	08/24/04	13.92	6.95	--	6.97	
MW-07R	12/13/04	13.92	6.43	--	7.49	
MW-07R	03/08/05	13.92	6.67	--	7.25	
MW-07R	06/06/05	13.92	6.48	--	7.44	
MW-07R	09/19/05	13.92	7.35	--	6.57	
MW-07R	12/12/05	13.92	6.71	--	7.21	
MW-07R	03/13/06	13.92	5.59	--	8.33	
MW-07R	06/05/06	13.92	7.20	--	6.72	
MW-07R	09/11/06	13.92	7.30	--	6.62	
MW-07R	12/11/06	13.92	5.50	--	8.42	
MW-07R	03/26/07	13.92	5.84	--	8.08	
MW-07R	06/18/07	13.92	6.80	--	7.12	
MW-07R	09/25/07	13.92	7.27	--	6.65	
MW-07R	12/10/07	13.92	5.60	--	8.32	
MW-07R	03/03/08	13.92	6.20	--	7.72	
MW-07R	06/02/08	13.92	6.88	--	7.04	
MW-07R	09/04/08	13.92	6.94	--	6.98	
MW-07R	12/04/08	13.92	7.84	--	6.08	
MW-07R	03/04/09	13.92	6.30	--	7.62	
MW-07R	06/01/09	13.92	6.57	--	7.35	
MW-07R	09/21/09	13.92	7.24	--	6.68	
MW-07R	11/16/09	13.92	6.04	--	7.88	
MW-07R	03/08/10	13.92	5.63	--	8.29	
MW-07R	06/07/10	13.92	6.04	--	7.88	
MW-07R	09/09/10	13.92	7.05	--	6.87	
MW-07R	11/15/10	13.92	6.11	--	7.81	
MW-07R	03/01/11	13.92	5.43	--	8.49	
MW-07R	05/23/11	13.92	5.66	--	8.26	
MW-07R	08/29/11	13.92	6.97	--	6.95	
MW-07R	12/01/11	13.92	6.24	--	7.68	
MW-07R	03/01/12	13.92	6.10	--	7.82	
MW-07R	05/30/12	13.92	6.12	--	7.80	
MW-07R	08/25/12	13.92	--	--	--	Not Measured
MW-07R	11/07/12	13.92	6.02	--	7.90	
MW-07R	02/27/13	13.92	5.84	--	8.08	
MW-07R	04/08/13	13.92	5.49	--	8.43	
MW-07R	07/29/13	13.92	6.70	--	7.22	
MW-07R	10/02/13	13.92	6.06	--	7.86	
MW-07R	01/21/14	13.92	6.49	--	7.43	

# 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	04/22/14	13.92	5.56	--	8.36	
MW-07R	07/15/14	13.92	6.60	--	7.32	
MW-07R	03/17/15	13.92	5.06	--	8.86	
TMW-B1	09/09/10	--	--	--	--	Not Measured-SPH recovery unit in well
TMW-B1	05/23/11	--	7.37	--	--	Not Measured-SPH recovery unit in well
TMW-B1	12/01/11	--	8.17	--	--	Not Measured-SPH recovery unit in well
TMW-B1	03/01/12	--	7.75	--	--	Not Measured-SPH recovery unit in well
TMW-B1	08/25/12	--	8.37	--	--	Not Measured
TMW-B1	07/29/13	--	7.80	--	--	
TMW-B1	10/02/13	--	7.47	--	--	
TMW-B1	01/21/14	--	7.78	--	--	
TMW-B1	04/22/14	--	6.99	--	--	
TMW-B1	07/15/14	--	--	--	--	See SW/KH notes
TMW-B1	03/17/15	--	6.57	--	--	
TMW-1	06/21/13	--	3.44	--	--	Baseline monitoring event
TMW-1	07/29/13	--	3.72	--	--	
TMW-1	08/26/13	--	3.74	--	--	Two-month monitoring event
TMW-1	10/02/13	--	2.97	--	--	
TMW-1	01/21/14	--	3.48	--	--	
TMW-1	04/22/14	--	2.09	--	--	
TMW-1	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-1	03/17/15	--	1.65	--	--	
TMW-2	06/21/13	--	3.83	--	--	Baseline monitoring event
TMW-2	07/29/13	--	3.94	--	--	
TMW-2	08/26/13	--	3.91	--	--	Two-month monitoring event
TMW-2	10/02/13	--	3.15	--	--	
TMW-2	01/21/14	--	3.63	--	--	
TMW-2	04/22/14	--	2.36	--	--	
TMW-2	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-2	03/17/15	--	1.68	--	--	
TMW-3	06/21/13	--	3.81	--	--	Baseline monitoring event
TMW-3	07/29/13	--	3.91	--	--	
TMW-3	08/26/13	--	3.88	--	--	Two-month monitoring event
TMW-3	10/02/13	--	3.14	--	--	
TMW-3	01/21/14	--	3.76	--	--	
TMW-3	04/22/14	--	2.41	--	--	
TMW-3	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-3	03/17/15	--	1.67	--	--	

# 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
TMW-4	06/21/13	--	3.50	--	--	Baseline monitoring event
TMW-4	07/29/13	--	3.75	--	--	
TMW-4	08/26/13	--	3.80	--	--	Two-month monitoring event
TMW-4	10/02/13	--	2.99	--	--	
TMW-4	01/21/14	--	3.45	--	--	
TMW-4	04/22/14	--	2.20	--	--	
TMW-4	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-4	03/17/15	--	1.30	--	--	
TMW-5	06/21/13	--	3.24	--	--	Baseline monitoring event
TMW-5	07/29/13	--	3.31	--	--	
TMW-5	08/26/13	--	3.39	--	--	Two-month monitoring event
TMW-5	10/02/13	--	2.80	--	--	
TMW-5	01/21/14	--	3.22	--	--	
TMW-5	04/22/14	--	2.42	--	--	
TMW-5	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-5	03/17/15	--	1.84	--	--	
TMW-6	06/21/13	--	2.93	--	--	Baseline monitoring event
TMW-6	07/29/13	--	2.91	--	--	
TMW-6	08/26/13	--	2.92	--	--	Two-month monitoring event
TMW-6	10/02/13	--	2.12	--	--	
TMW-6	01/21/14	--	2.74	--	--	
TMW-6	04/22/14	--	1.72	--	--	
TMW-6	07/15/14	--	--	--	--	Not done due to no TOC elev datum
TMW-6	03/17/15	--	1.48	--	--	

**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:



Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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	--	--	
A-5	06/01/12	<0.25	--	--	--	--	<b>0.012</b>	<0.0010	<0.0010	<b>0.0010</b>	--	--	
A-5 (DUP)	06/01/12	<0.25	--	--	--	--	<b>0.011</b>	<0.0010	<0.0010	<b>0.0010</b>	--	--	Duplicate of A-5
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>	--	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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-5	04/23/14	<b>0.60</b>	--	--	--	--	<b>0.025</b>	<b>0.0015</b>	<0.0005	<b>0.0011</b>	--	--	
A-5	07/15/14	<b>0.61</b>	--	--	--	--	<b>0.017</b>	<b>0.0011</b>	<0.0005	<b>0.00095</b>	--	--	
A-5	03/18/15	<b>0.40</b>	--	--	--	--	<b>0.0045</b>	<b>0.0013</b>	<0.0005	<b>0.0012</b>	--	--	
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>	--	<0.25	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-8	04/23/14	<0.25	<b>1.5</b>	<0.25	<0.50	<0.50	<0.0005	<b>0.00061</b>	<0.0005	<0.0005	--	--	
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	--	--	
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	--	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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	--	0.36	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-10	04/23/14	<0.25	<b>0.27</b>	<0.25	<0.50	<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
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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-14R	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-18	05/25/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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	--	--	
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	<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	--	--	

Table 2



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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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-21	04/23/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
A-21	07/15/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-21	03/18/15	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
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*</b>	--	
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	--	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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	<0.0050	
A-23R	07/29/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	10/02/13	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
A-23R	01/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
A-23R	04/22/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.0050	<0.0050	
A-23R	07/15/14	<0.25	--	--	--	--	<b>0.00092</b>	<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>	--	--	
A-27	09/16/03	<b>4.5</b>	<b>5.6</b>	--	<0.50	--	<b>0.27</b>	<b>0.020</b>	<b>0.18</b>	<b>0.38</b>	--	--	
A-27	11/19/03	<b>5.9</b>	<b>5.3</b>	--	<0.50	--	<b>0.25</b>	<b>0.023</b>	<b>0.13</b>	<b>0.33</b>	--	--	
A-27	02/25/04	<b>4.4</b>	<b>16</b>	--	<0.50	--	<b>0.15</b>	<b>0.016</b>	<b>0.18</b>	<b>0.30</b>	--	--	
A-27	05/11/04	<b>4.6</b>	<b>5.2</b>	--	<0.50	--	<b>0.16</b>	<b>0.017</b>	<b>0.23</b>	<b>0.38</b>	--	--	
A-27	08/25/04	<b>4.7</b>	<b>2.5</b>	--	<0.50	--	<b>0.25</b>	<b>0.018</b>	<b>0.17</b>	<b>0.24</b>	--	--	
A-27	12/14/04	<b>4.5</b>	<b>4.4</b>	--	<0.50	--	<b>0.11</b>	<b>0.012</b>	<b>0.099</b>	<b>0.14</b>	--	--	
A-27	03/10/05	<b>5.8</b>	<b>4.7</b>	--	<0.50	--	<b>0.14</b>	<b>0.015</b>	<b>0.16</b>	<b>0.22</b>	--	--	
A-27	06/07/05	<b>4.5</b>	<b>7.8</b>	--	<0.50	--	<b>0.17</b>	<b>0.014</b>	<b>0.24</b>	<b>0.34</b>	--	--	
A-27	09/20/05	<b>6.3</b>	<b>2.3</b>	--	<0.50	--	<b>0.25</b>	<b>0.019</b>	<b>0.18</b>	<b>0.22</b>	--	--	
A-27	12/13/05	<b>3.7</b>	<b>0.83</b>	--	<0.50	--	<b>0.13</b>	<b>0.012</b>	<b>0.083</b>	<b>0.095</b>	--	--	
A-27	03/15/06	<b>4.4</b>	<b>1.3</b>	--	<0.50	--	<b>0.13</b>	<b>0.017</b>	<b>0.19</b>	<b>0.24</b>	--	--	
A-27	06/08/06	<b>4.5</b>	<b>1.1</b>	--	<0.50	--	<b>0.19</b>	<b>0.016</b>	<b>0.23</b>	<b>0.28</b>	--	--	
A-27	09/12/06	<b>3.4</b>	<b>0.82</b>	--	<0.50	--	<b>0.17</b>	<b>0.011</b>	<b>0.12</b>	<b>0.12</b>	--	--	
A-27	12/12/06	<b>3.7</b>	<b>0.90</b>	--	<0.50	--	<b>0.11</b>	<b>0.0096</b>	<b>0.10</b>	<b>0.12</b>	--	--	
A-27	03/27/07	<b>3.2</b>	--	--	--	--	<b>0.063</b>	<b>0.0078</b>	<b>0.047</b>	<b>0.050</b>	--	--	
A-27	06/19/07	<b>2.6</b>	--	--	--	--	<b>0.073</b>	<b>0.0064</b>	<b>0.047</b>	<b>0.053</b>	--	--	
A-27	09/24/07	<b>2.7</b>	--	--	--	--	<b>0.10</b>	<b>0.0072</b>	<b>0.035</b>	<b>0.040</b>	--	--	
A-27	12/11/07	<b>4.7</b>	--	--	--	--	<b>0.16</b>	<b>0.011</b>	<b>0.17</b>	<b>0.13</b>	--	--	
A-27	03/04/08	<b>4.0</b>	--	--	--	--	<b>0.10</b>	<b>0.011</b>	<b>0.14</b>	<b>0.11</b>	--	--	
A-27	06/04/08	<b>2.5</b>	--	--	--	--	<b>0.093</b>	<b>0.0063</b>	<b>0.022</b>	<b>0.041</b>	--	--	
A-27	09/08/08	<b>3.5</b>	--	--	--	--	<b>0.16</b>	<b>0.0091</b>	<b>0.067</b>	<b>0.047</b>	--	--	
A-27	12/04/08	<b>3.1</b>	--	--	--	--	<b>0.13</b>	<b>0.0075</b>	<b>0.091</b>	<b>0.046</b>	--	--	
A-27	03/04/09	<b>2.5</b>	--	--	--	--	<b>0.098</b>	<b>0.0080</b>	<b>0.070</b>	<b>0.043</b>	--	--	
A-27	06/02/09	<b>3.1</b>	--	--	--	--	<b>0.048</b>	<b>0.0065</b>	<b>0.11</b>	<b>0.050</b>	--	--	
A-27	09/22/09	<b>2.9</b>	--	--	--	--	<b>0.054</b>	<b>0.0064</b>	<b>0.099</b>	<b>0.037</b>	--	--	
A-27	11/16/09	<b>3.0</b>	--	--	--	--	<b>0.035</b>	<b>0.0051</b>	<b>0.0921</b>	<b>0.035</b>	--	--	
A-27	03/09/10	<b>2.4</b>	--	--	--	--	<b>0.024</b>	<b>0.0043</b>	<b>0.089</b>	<b>0.036</b>	--	--	
A-27	06/08/10	<b>2.5</b>	--	--	--	--	<b>0.021</b>	<b>0.0041</b>	<b>0.088</b>	<b>0.031</b>	--	--	
A-27	09/09/10	<b>3.4</b>	--	--	--	--	<b>0.035</b>	<b>0.0054</b>	<b>0.12</b>	<b>0.034</b>	--	--	

**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-27	11/16/10	2.1	--	--	--	--	0.014	0.0034	0.070	0.022	--	--	
A-27	03/02/11	2.3	--	--	--	--	0.014	0.0024	0.051	0.016	--	--	
A-27	05/24/11	1.7	--	--	--	--	0.0092	0.0017	0.023	0.0096	--	--	
A-27	08/30/11	2.1	--	--	--	--	0.026	0.0021	0.022	0.011	--	--	
A-27	12/02/11	2.2	--	--	--	--	0.016	0.0026	0.030	0.0094	--	--	
A-27	03/01/12	1.4	--	--	--	--	0.012	0.0018	0.035	0.0077	--	--	
A-27	05/30/12	1.6	--	--	--	--	0.015	0.0016	0.038	0.0066	--	--	
A-27	08/25/12	1.5	--	--	--	--	0.029	0.0018	0.0027	0.0048	--	--	
A-27	11/08/12	1.2	--	--	--	--	0.025	0.0022	0.0093	0.0068	--	--	
A-27	02/28/13	1.6	--	--	--	--	0.038	0.0019	0.057	0.0078	--	--	
A-27	04/10/13	1.3	--	--	--	--	0.035	0.0018	0.041	0.0053	--	--	
A-27	06/21/13	1.0	0.40 K	--	--	--	0.053	0.0024	0.043	0.0083	--	--	Baseline monitoring event
A-27	07/30/13	1.8	--	--	--	--	0.073	0.0039	0.051	0.017	--	--	
A-27 (DUP)	07/30/13	1.5	--	--	--	--	0.058	0.0033	0.04	0.015	--	--	Duplicate of A-27
A-27	10/02/13	1.9	--	--	--	--	0.066	0.0041	0.038	0.021	--	--	
A-27	01/22/14	2.6	--	--	--	--	0.078	0.0042	0.061	0.062	--	--	
A-27	04/22/14	2.9	--	--	--	--	0.062	0.0023	0.074	0.078	--	--	
A-27	07/15/14	1.8	--	--	--	--	0.051	0.0021	0.012	0.016	--	--	
A-27	03/18/15	2.3	--	--	--	--	0.072	0.0019	0.072	0.010	--	--	Surrogate recovery above lab limits
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	--	--	

**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
A-28R	06/02/09	2.1	--	--	--	--	0.055	0.0020	0.016	0.0069	<0.0050	--	
A-28R	09/22/09	2.3	--	--	--	--	0.10	0.0026	0.038	0.016	--	--	
A-28R	11/16/09	1.7	--	--	--	--	0.080	0.0020	0.039	0.017	--	--	
A-28R	03/09/10	7.3	--	--	--	--	0.65	0.0079	0.32	0.092	--	--	
A-28R	06/08/10	2.2	--	--	--	--	0.14	0.0018	0.045	0.013	<0.0050	--	
A-28R	09/10/10	2.4	--	--	--	--	0.12	0.0020	0.041	0.011	--	--	
A-28R	11/16/10	1.8	--	--	--	--	0.077	0.0017	0.047	0.013	--	--	
A-28R	03/02/11	2.8	--	--	--	--	0.15	0.0029	0.083	0.016	--	--	
A-28R	05/24/11	3.5	--	--	--	--	0.21	0.0029	0.091	0.015	<0.0050	--	
A-28R	08/30/11	3.7	--	--	--	--	0.14	0.0026	0.061	0.011	--	--	
A-28R	12/02/11	3.6	--	--	--	--	0.074	0.0022	0.056	0.0092	--	--	
A-28R	03/02/12	2.6	--	--	--	--	0.086	0.0022	0.075	0.012	--	--	
A-28R	05/30/12	2.7	--	--	--	--	0.065	0.0017	0.050	0.0085	<0.0050	--	
A-28R	08/25/12	1.8	--	--	--	--	0.030	0.00089	0.010	0.0031	--	--	
A-28R	11/08/12	0.81	--	--	--	--	0.015	<0.0005	0.0066	0.0013	--	--	
A-28R	02/28/13	2.6	--	--	--	--	0.062	<0.0025	0.044	0.0059	--	--	
A-28R	04/10/13	3.2	--	--	--	--	0.035	0.0013	0.03	0.0042	<0.0050	--	
A-28R	07/29/13	2.5	--	--	--	--	0.043	0.0018	0.019	0.0034	--	--	
A-28R	10/02/13	1.4	--	--	--	--	0.015	<0.001	0.0043	0.0026	--	--	
A-28R	01/22/14	1.4	--	--	--	--	0.17	0.0027	0.006	0.0033	--	--	
A-28R	04/22/14	2.2	--	--	--	--	0.062	0.0022	0.016	0.0025	<0.0050	--	
A-28R	07/15/14	1.7	--	--	--	--	0.043	0.0016	0.0062	0.002	--	--	
A-28R	03/18/15	3.0	--	--	--	--	0.042	0.0035	0.016	0.0055	--	--	Surrogate recovery above lab limits
A-29R	05/25/11	5.6	--	--	--	--	2.3	0.018	<0.015	0.024	--	--	
11	06/24/13	<0.25	0.30	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	Baseline monitoring event
11	07/30/13	<0.25	--	--	--	--	--	--	--	--	--	--	
11	10/03/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
11	01/22/14	0.75	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
11	04/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
11	07/14/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
11	03/18/15	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
12	06/24/13	4.1	5.3 K	--	--	--	0.037	0.045	0.13	0.53	--	--	Baseline monitoring event
12	10/03/13	2.7	--	--	--	--	0.002	0.0057	0.043	0.18	--	--	
12	01/22/14	4.2	--	--	--	--	0.0067	0.015	0.027	0.34	--	--	
12	04/21/14	2.6	--	--	--	--	0.015	0.014	0.088	0.15	--	--	
12	07/14/14	4.7	--	--	--	--	0.019	0.026	0.17	0.22	--	--	
12	03/18/15	1.8	--	--	--	--	0.0059	0.0012	0.003	0.024	--	--	
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	--	



Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-1	08/25/04	<b>0.83</b>	<b>0.40</b>	--	<0.50	--	<0.0005	<0.0005	<b>0.00065</b>	<0.0005	<0.0050	--	
MW-1	12/15/04	<0.25	<b>0.38</b>	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	03/09/05	<0.25	<b>0.63</b>	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	06/08/05	<0.25	<b>0.80</b>	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	09/21/05	<0.25	<b>0.40</b>	--	<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	<b>0.25</b>	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	09/13/06	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-1	04/23/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	02/13/02	<0.25	<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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-2	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	02/13/02	<0.25	<b>1.8</b>	--	<0.5	--	<b>0.011</b>	<b>0.0015</b>	<b>0.0045</b>	<b>0.011</b>	<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	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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>	--	
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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-3	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-4	02/14/02	<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	--	--	
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>	--	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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	--	0.92	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	--	--	
MW-4	04/23/14	<0.25	<b>5.3</b>	1.7	<b>0.90</b>	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-5	02/13/02	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-5	05/21/02	<0.25	<0.5	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<b>0.0073</b>	--	
MW-5	04/21/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	02/13/02	<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>	--	
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	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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	--	--	
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-6	04/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-6	07/15/14	<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>	--	

**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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*</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>	--	--	
MW-7	03/01/11	<b>4.9</b>	--	--	--	--	<b>0.0051</b>	<b>0.055</b>	<b>0.11</b>	<b>0.77</b>	--	--	
MW-7	05/24/11	<b>5.0</b>	--	--	--	--	<b>0.0062</b>	<b>0.050</b>	<b>0.14</b>	<b>0.66</b>	<b>0.0082**</b>	--	
MW-7	08/29/11	<b>2.3</b>	--	--	--	--	<b>0.0022</b>	<b>0.0055</b>	<b>0.026</b>	<b>0.16</b>	--	--	
MW-7	12/01/11	<b>5.2</b>	--	--	--	--	<0.0005	<b>0.026</b>	<b>0.036</b>	<b>0.83</b>	--	--	
MW-7	03/01/12	<b>6.0</b>	<0.25	--	<0.50	--	<b>0.011</b>	<b>0.0987</b>	<b>0.24</b>	<b>0.90</b>	--	--	
MW-7	05/31/12	<b>8.8</b>	--	--	--	--	<b>0.020</b>	<b>0.14</b>	<b>0.36</b>	<b>1.9</b>	<b>0.0063**</b>	--	
MW-7	08/25/12	<b>1.8</b>	--	--	--	--	<b>0.0024</b>	<b>0.0062</b>	<b>0.030</b>	<b>0.160</b>	--	--	
MW-7	11/08/12	<b>2.4</b>	--	--	--	--	<b>0.0028</b>	<b>0.028</b>	<b>0.072</b>	<b>0.55</b>	--	--	
MW-7	02/28/13	<b>1.3</b>	--	--	--	--	<0.0015	<b>0.007</b>	<b>0.007</b>	<b>0.19</b>	--	--	
MW-7	04/09/13	<b>8.1</b>	--	--	--	--	<0.005	<b>0.07</b>	<b>0.25</b>	<b>1.4</b>	<b>0.0097</b>	0.0097	
MW-7	04/09/13	<b>5.7</b>	--	--	--	--	<b>0.0071</b>	<b>0.072</b>	<b>0.24</b>	<b>1.2</b>	--	--	
MW-7	06/21/13	<b>4.0</b>	<b>0.27 K</b>	--	--	--	<b>0.0059</b>	<b>0.064</b>	<b>0.28</b>	<b>1.1</b>	--	--	Baseline monitoring event
MW-7	07/30/13	<b>7.2</b>	--	--	--	--	<b>0.016</b>	<b>0.11</b>	<b>0.29</b>	<b>1.6</b>	--	--	
MW-7	10/03/13	<b>2.8</b>	--	--	--	--	<b>0.016</b>	<b>0.033</b>	<b>0.15</b>	<b>0.54</b>	--	--	
MW-7	01/22/14	<b>2.1</b>	--	--	--	--	<b>0.014</b>	<b>0.01</b>	<b>0.13</b>	<b>0.17</b>	--	--	
MW-7	04/21/14	<b>1.9</b>	--	--	--	--	<b>0.013</b>	<b>0.0093</b>	<b>0.11</b>	<b>0.2</b>	<0.0050	<0.0050	
MW-7 (DUP)	04/21/14	<b>2.4</b>	--	--	--	--	<b>0.015</b>	<b>0.012</b>	<b>0.13</b>	<b>0.25</b>	--	--	Duplicate of MW-7

**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-7	07/14/14	1.5	--	--	--	--	0.012	0.0012	0.073	0.021	--	--	
MW-7	03/17/15	1.6	--	--	--	--	0.0043	0.0061	0.050	0.13	--	--	
MW-7 (DUP)	03/17/15	2.1	--	--	--	--	0.0059	0.0078	0.068	0.17	--	--	Duplicate of MW-7
MW-8	02/14/02	<0.25	8.1	--	<5.0	--	<0.0005	0.00086	<0.0005	<0.0005	0.03*	--	
MW-8	08/29/02	<0.25	7.5	--	<0.5	--	<0.0005	0.00082	<0.0005	<0.0005	0.017*	--	
MW-8	11/05/02	<0.25	1.7	--	1.2	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	--	
MW-8	02/20/03	<0.25	6.6	--	<0.5	--	<0.0005	0.00055	<0.0005	0.0024	0.029*	--	
MW-8	06/11/03	<0.25	3.8	--	<0.25	--	0.0013	<0.001	<0.001	<0.001	0.012*	--	
MW-8	09/17/03	<0.25	3.3	--	0.77	--	<0.0005	<0.0005	<0.0005	<0.0005	0.030*	--	
MW-8	11/20/03	<0.25	2.5	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050	--	
MW-8	02/26/04	<0.25	2.7	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.016*	--	
MW-8	05/11/04	<0.25	1.5	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-8	08/26/04	<0.25	1.0	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-8	12/15/04	<0.25	1.5	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	0.0071*	--	
MW-8	03/09/05	<0.25	1.6	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0094*	--	
MW-8	06/08/05	<0.25	1.8	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.014*	--	
MW-8	09/21/05	<0.25	0.97	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.011*	--	
MW-8	12/14/05	<0.25	1.1	--	0.58	--	<0.001	<0.001	<0.001	0.0013	0.0060*	--	
MW-8	03/14/06	<0.25	0.54	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.011*	--	
MW-8	06/07/06	<0.25	0.88	--	0.61	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0093*	--	
MW-8	09/13/06	<0.25	0.35	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012*	--	
MW-8	12/13/06	<0.25	0.82	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.0060*	--	
MW-8	06/20/07	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.029	--	
MW-8	06/04/08	<0.25	0.37	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	0.064	--	
MW-8	06/02/09	<0.25	0.52	--	<0.50	--	<0.00050	<0.00050	<0.00050	<0.00050	0.020	--	
MW-8	06/09/10	<0.25	0.82	--	0.65	--	<0.0005	<0.0005	<0.0005	<0.0005	0.013	--	
MW-8	05/24/11	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.020	--	
MW-8	05/31/12	<0.25	<0.25	--	<0.50	--	<0.0010	<0.0010	<0.0010	<0.0010	0.032	--	
MW-8	04/10/13	<0.25	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	0.046	--	
MW-8	04/24/14	<0.25	0.49	<0.25	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	0.027	--	
MW-9	06/11/03	6.0	13	--	<0.50	--	0.0031	0.036	0.076	0.60	0.022*	--	
MW-9	09/17/03	5.3	39	--	0.72	--	0.026	0.027	0.090	0.45	0.0095*	--	
MW-9	11/20/03	8.5	19	--	<0.50	--	<0.005	0.018	0.14	1.1	0.0096*	--	
MW-9	02/26/04	4.1	28	--	<0.50	--	0.022	0.0072	0.025	0.47	0.0083*	--	
MW-9	05/11/04	4.1	5.8	--	<0.50	--	0.0023	0.0093	0.081	0.44	<0.0050	--	
MW-9	08/26/04	4.2	6.2	--	<0.50	--	0.0066	0.025	0.13	0.43	0.0099*	--	
MW-9	12/15/04	5.4	7.6	--	<0.50	--	<0.0025	0.011	0.12	0.39	0.0094*	--	
MW-9	03/09/05	4.5	3.5	--	<0.50	--	0.0037	0.0047	0.042	0.18	0.021*	--	
MW-9	06/08/05	3.2	3.9	--	<0.50	--	0.0035	0.0087	0.069	0.17	0.0076*	--	
MW-9	09/21/05	2.3	2.6	--	<0.50	--	0.0070	0.0077	0.033	0.12	0.0076*	--	
MW-9	12/14/05	4.7	1.2	--	<0.50	--	0.0078	0.010	0.12	0.38	0.0095*	--	
MW-9	03/14/06	2.4	1.4	--	<0.50	--	0.0024	0.0034	0.018	0.12	0.013*	--	
MW-9	06/07/06	<0.25	1.0	--	<0.50	--	0.0011	0.023	0.049	0.21	0.021*	--	
MW-9	09/13/06	1.8	0.46	--	<0.50	--	0.0044	0.016	0.063	0.064	0.010*	--	
MW-9	12/13/06	2.6	3.8	--	<0.50	--	<0.0025	<0.0025	0.024	0.19	0.025*	--	
MW-9	03/27/07	1.5	--	--	--	--	0.16	0.0013	0.0051	0.026	--	--	
MW-9	06/20/07	2.0	--	--	--	--	0.066	0.015	0.051	0.12	0.017	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-9	09/24/07	1.7	--	--	--	--	0.0036	0.0072	0.029	0.093	--	--	
MW-9	12/11/07	2.9	--	--	--	--	<0.0025	<0.0025	0.057	0.55	--	--	
MW-9	03/04/08	3.0	--	--	--	--	0.0096	<0.0015	0.016	0.15	--	--	
MW-9	06/04/08	2.0	--	--	--	--	0.0019	0.0073	0.039	0.089	0.0088	--	
MW-9	09/08/08	2.4	--	--	--	--	0.0022	0.020	0.077	0.16	--	--	
MW-9	12/05/08	0.93	--	--	--	--	<0.0015	<0.0015	<0.0015	0.052	--	--	
MW-9	03/04/09	0.42	--	--	--	--	<0.0010	<0.0010	0.0040	0.031	--	--	
MW-9	06/02/09	1.2	--	--	--	--	<0.00050	<0.00050	0.0041	0.032	0.0099	--	
MW-9	09/22/09	1.2	--	--	--	--	0.0060	0.0018	0.0068	0.033	--	--	
MW-9	11/17/09	<0.25	--	--	--	--	<0.0005	0.00050	<0.0005	0.0043	--	--	
MW-9	03/09/10	<0.25	--	--	--	--	0.00092	0.00050	0.00055	0.00071	--	--	
MW-9	06/09/10	0.30	--	--	--	--	0.0014	<0.0005	0.00081	0.0058	<0.0050	--	
MW-9	09/09/10	0.48	--	--	--	--	0.0058	0.0014	0.0061	0.025	--	--	
MW-9	11/15/10	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.00085	--	--	
MW-9	03/01/11	<0.25	--	--	--	--	0.014	<0.0005	<0.0005	0.00085	--	--	
MW-9	05/24/11	<0.25	--	--	--	--	0.0043	<0.0005	<0.0005	0.00085	0.0093	--	
MW-9	08/29/11	0.28	--	--	--	--	0.0067	<0.0005	0.00078	0.0038	--	--	
MW-9	12/01/11	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.0024	--	--	
MW-9	03/01/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-9	05/31/12	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	0.012	--	
MW-9	08/25/12	0.67	--	--	--	--	<0.00050	<0.00050	0.00062	0.0057	--	--	
MW-9	11/08/12	<0.25	--	--	--	--	<0.001	<0.001	<0.001	0.0029	--	--	
MW-9	02/28/13	<0.25	--	--	--	--	0.0012	<0.0005	<0.0005	<0.0005	--	--	
MW-9	04/10/13	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-9	06/24/13	0.33	0.37	--	--	--	0.014	<0.0005	<0.0005	0.0035	--	--	Baseline monitoring event
MW-9	07/30/13	0.27	--	--	--	--	0.0017	<0.0005	0.00071	0.006	--	--	
MW-9	10/03/13	0.30	--	--	--	--	0.0056	<0.0005	<0.0005	0.0092	--	--	
MW-9	01/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	0.0013	--	--	
MW-9	04/21/14	<0.25	--	--	--	--	0.017	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-9	07/14/14	<0.25	--	--	--	--	0.01	<0.0005	<0.0005	0.00072	--	--	
MW-9	03/18/15	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-12	06/19/01	<0.05	1.6	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	
MW-12	06/20/01	<0.06	1.7	--	<0.5	--	<0.001	<0.001	<0.001	<0.003	<0.004	--	
MW-12		Destroyed during construction activities											
MW-12R	02/14/02	<0.25	1.4	--	<0.5	--	0.014	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-12R	05/21/02	<0.25	2.5	--	<0.5	--	0.080	0.0013	<0.0005	0.00066	<0.005*	--	
MW-12R	08/28/02	<0.25	2.1	--	<0.5	--	0.028	0.0059	<0.0005	0.0015	<0.005*	--	
MW-12R	11/05/02	<0.25	1.3	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.005*	--	
MW-12R	02/19/03	0.26	2.5	--	<0.5	--	0.19	0.0012	<0.001	<0.001	<0.005*	--	
MW-12R	06/10/03	0.41	1.3	--	<0.25	--	0.11	0.00055	<0.0005	<0.0005	<0.005*	--	
MW-12R	09/16/03	<0.25	0.67	--	<0.50	--	0.0021	<0.0005	<0.0005	<0.0005	0.013*	--	
MW-12R	11/19/03	0.42	<0.25	--	<0.50	--	0.26	<0.001	<0.001	<0.001	0.0078	--	
MW-12R	02/25/04	0.26	1.8	--	<0.50	--	0.099	0.00050	<0.0005	0.00076	0.010*	--	
MW-12R	05/12/04	0.56	0.74	--	<0.50	--	0.20	<0.001	<0.001	<0.001	<0.0050	--	
MW-12R	08/26/04	0.35	0.50	--	<0.50	--	0.089	<0.001	<0.001	<0.001	<0.0050	--	
MW-12R	12/15/04	<0.25	0.50	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	03/09/05	<0.25	0.39	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-12R	04/23/14	<0.25	<b>0.49</b>	<0.25	<0.50	<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	--	
<b>MW-13</b>		<b>Destroyed during construction activities</b>											
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*	--	
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	--	
<b>MW-13R</b>		<b>Abandoned on 5/25/2012</b>											
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>	--	--	



**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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>	--	--	
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-14	04/21/14	<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	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-14	07/15/14	<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	--	--	
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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-16	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-17	05/23/11	<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>	--	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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>	--	--	
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-18	04/22/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	07/15/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-18	03/18/15	<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>	--	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-19	06/08/05	17	6.3	--	<0.50	--	0.071	0.17	0.61	2.8	--	--	
MW-19	09/20/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	12/14/05	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	03/14/06	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-19	06/07/06	14	1.4	--	<0.50	--	<0.010	0.043	0.29	1.4	--	--	
MW-19	09/13/06	11	0.50	--	<0.50	--	0.032	0.047	0.41	1.1	--	--	
MW-19	12/13/06	8.0	1.4	--	<0.50	--	0.016	0.052	0.30	1.4	--	--	
MW-19	03/27/07	13	--	--	--	--	<0.010	0.047	0.35	1.8	--	--	
MW-19	06/20/07	12	--	--	--	--	0.050	0.092	0.29	1.2	--	--	
MW-19	09/24/07	10	--	--	--	--	0.13	0.11	0.42	1.3	--	--	
MW-19	12/11/07	12	--	--	--	--	0.11	0.14	0.40	1.9	--	--	
MW-19	03/04/08	17	--	--	--	--	0.15	0.28	0.52	2.4	--	--	
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-19	04/21/14	2.1	--	--	--	--	0.0066	0.0039	0.16	0.0064	--	--	
MW-19	07/15/14	4.2	--	--	--	--	0.0059	0.01	0.21	0.15	--	--	
MW-19 (DUP)	07/15/14	4.4	--	--	--	--	0.0052	0.0097	0.2	0.15	--	--	Duplicate of MW-19
MW-19	03/18/15	4.3	--	--	--	--	0.0049	0.014	0.14	0.18	--	--	
MW-20	02/13/02	<0.25	0.64	--	<0.5	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-20	05/20/02	<0.25	1.3	--	<0.5	--	0.018	0.0012	0.0048	0.014	--	--	
MW-20	08/29/02	0.60	1.1	--	<0.5	--	0.057	0.0065	0.021	0.084	--	--	
MW-20	11/06/02	<0.25	0.81	--	<0.5	--	0.0023	0.00053	<0.0005	<0.0005	--	--	
MW-20	02/19/03	<0.25	<0.25	--	<0.5	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	06/11/03	<0.25	0.68	--	<0.25	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-20	04/22/14	<0.25	<0.25	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	06/10/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	06/11/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	09/17/03	--	--	--	--	--	--	--	--	--	--	--	Not Sampled
MW-21	11/20/03	<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	--	--	
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>	--	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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	<0.0025	<0.0025	<0.0025	--	--	
MW-21	11/08/12	<0.25	--	0.29	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-21	02/28/13	<0.25	--	0.90	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	04/10/13	<0.25	--	0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	07/30/13	<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	--	0.62	<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-21	04/24/14	<0.25	<b>0.74</b>	0.28	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	07/14/14	<0.25	<b>1.4</b>	0.58	<0.50	<0.50	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
MW-21	03/18/15	<0.25	--	<0.25	--	<0.50	<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	--	--	
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	--	--	

**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-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	--	0.97	<0.50	--	<0.001	<0.001	<0.001	<0.001	--	--	
MW-22	04/22/14	<0.25	<b>2.9</b>	0.38	<0.50	<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>	--	--	
MW-23	03/02/11	<b>5.0</b>	--	--	--	--	<b>0.21</b>	<b>0.0060</b>	<b>0.15</b>	<b>0.023</b>	--	--	
MW-23	05/24/11	<b>6.0</b>	--	--	--	--	<b>0.32</b>	<b>0.0053</b>	<b>0.16</b>	<b>0.027</b>	<0.0050	--	
MW-23	08/30/11	<b>6.0</b>	--	--	--	--	<b>0.15</b>	<b>0.0030</b>	<b>0.093</b>	<b>0.015</b>	--	--	
MW-23	12/02/11	<b>5.3</b>	--	--	--	--	<b>0.29</b>	<b>0.0076</b>	<b>0.13</b>	<b>0.017</b>	--	--	
MW-23	03/02/12	<b>4.0</b>	--	--	--	--	<b>0.12</b>	<b>0.0029</b>	<b>0.13</b>	<b>0.027</b>	--	--	
MW-23	05/30/12	<b>4.5</b>	--	--	--	--	<b>0.087</b>	<0.0025	<b>0.14</b>	<b>0.022</b>	<0.0050	--	
MW-23	08/25/12	<b>2.6</b>	--	--	--	--	<b>0.050</b>	<0.0025	<b>0.059</b>	<b>0.0046</b>	--	--	
MW-23	11/08/12	<b>2.3</b>	--	--	--	--	<b>0.021</b>	<0.001	<b>0.065</b>	<b>0.0038</b>	--	--	
MW-23	02/28/13	<b>2.6</b>	--	--	--	--	<b>0.034</b>	<0.0025	<b>0.16</b>	<b>0.01</b>	--	--	
MW-23	04/10/13	<b>0.54</b>	--	--	--	--	<b>0.015</b>	<0.001	<b>0.015</b>	<b>0.0013</b>	<0.0050	--	
MW-23	07/29/13	<b>1.7</b>	--	--	--	--	<b>0.0097</b>	<0.001	<b>0.025</b>	<b>0.0011</b>	--	--	
MW-23	10/02/13	<b>0.39</b>	--	--	--	--	<b>0.015</b>	<0.001	<b>0.0019</b>	<0.001	--	--	
MW-23	01/21/14	<b>0.27</b>	--	--	--	--	<b>0.011</b>	<0.001	<0.001	<0.001	--	--	
MW-23	04/23/14	<b>1.7</b>	--	--	--	--	<b>0.039</b>	<0.001	<0.001	<b>0.0026</b>	<0.0050	--	
MW-23	07/15/14	<b>2.5</b>	--	--	--	--	<b>0.11</b>	<b>0.002</b>	<b>0.063</b>	<b>0.0071</b>	--	--	

**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-23	03/18/15	2.1	--	--	--	--	0.056	0.0013	0.028	0.0039	--	--	Surrogate recovery above lab limits
MW-23 (DUP)	03/18/15	1.4	--	--	--	--	0.045	0.0011	0.024	0.0029	--	--	
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	--	
MW-24	09/10/10	28	--	--	--	--	2.4	0.066	1.8	4.3	--	--	
MW-24	11/16/10	26	--	--	--	--	1.3	0.051	1.5	5.8	--	--	
MW-24	03/02/11	26	--	--	--	--	2.2	0.057	1.3	4.8	--	--	
MW-24	05/24/11	11	--	--	--	--	1.2	0.028	0.51	1.3	<0.0050	--	
MW-24	08/30/11	30	--	--	--	--	2.0	0.057	1.4	4.2	--	--	
MW-24	12/02/11	18	--	--	--	--	0.37	0.016	0.42	2.56	--	--	
MW-24	03/02/12	8.7	--	--	--	--	0.53	0.014	0.25	1.1	--	--	
MW-24	05/30/12	7.3	--	--	--	--	0.39	0.013	0.30	0.88	<0.0050	--	
MW-24	08/25/12	11	--	--	--	--	0.560	<0.020 V	0.41	1.4	--	--	
MW-24 (DUP)	08/25/12	8.0	--	--	--	--	0.41	<0.015 V	0.3	1.1	--	--	Duplicate of MW-24
MW-24	11/08/12	20	--	--	--	--	1.7	0.057	1.4	4.1	--	--	
MW-24	11/08/12	19	--	--	--	--	1.7	0.057	1.4	4.2	--	--	
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	--	--	



**Table 2**



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
MW-24	10/02/13	<b>33</b>	--	--	--	--	<b>1.1</b>	<b>0.072</b>	<b>2.6</b>	<b>6.3</b>	--	--	
MW-24 (DUP)	10/02/13	<b>29</b>	--	--	--	--	<b>1.4</b>	<b>0.076</b>	<b>2.5</b>	<b>5.6</b>	--	--	Duplicate of MW-24
MW-24	01/22/14	<b>3.1</b>	--	--	--	--	<b>0.088</b>	<b>0.0034</b>	<b>0.18</b>	<b>0.33</b>	--	--	
MW-24 (DUP)	01/22/14	<b>2.2</b>	--	--	--	--	<b>0.056</b>	<b>0.0026</b>	<b>0.12</b>	<b>0.2</b>	--	--	Duplicate of MW-24
MW-24	04/23/14	<b>23</b>	--	--	--	--	<b>1</b>	<b>0.051</b>	<b>1.7</b>	<b>3.6</b>	<b>0.0085</b>	--	
MW-24 (DUP)	04/23/14	<b>24</b>	--	--	--	--	<b>1</b>	<b>0.048</b>	<b>1.7</b>	<b>3.7</b>	--	--	Duplicate of MW-24
MW-24	07/15/14	<b>24</b>	--	--	--	--	<b>1.1</b>	<b>0.055</b>	<b>1.7</b>	<b>3.7</b>	--	--	
MW-24 (DUP)	07/15/14	<b>22</b>	--	--	--	--	<b>1.1</b>	<b>0.05</b>	<b>1.7</b>	<b>3.6</b>	--	--	Duplicate of MW-24
MW-24	03/18/15	<b>28</b>	--	--	--	--	<b>1.4</b>	<b>0.066</b>	<b>1.8</b>	<b>2.6</b>	--	--	
MW-25	11/20/03	<0.25	<b>1.3</b>	--	<0.50	--	<b>0.0061</b>	<0.0005	<0.0005	<0.0005	--	--	
MW-25	02/26/04	<b>0.38</b>	<b>8.9</b>	--	<0.50	--	<b>0.0011</b>	<0.0005	<b>0.0027</b>	<0.0005	<b>0.012*</b>	--	
MW-25	05/12/04	<0.25	<b>1.6</b>	--	<0.50	--	<0.0005	<0.0005	<b>0.0034</b>	<0.0005	<0.0050	--	
MW-25	08/26/04	<0.25	<b>0.27</b>	--	<0.50	--	<b>0.013</b>	<0.0005	<0.0005	<0.0005	<b>0.034*a</b>	--	
MW-25	12/14/04	<0.25	<b>1.4</b>	--	<0.50	--	<b>0.0035</b>	<0.001	<0.001	<0.001	<0.0050	--	
MW-25	03/10/05	<b>0.31</b>	<b>3.7</b>	--	<0.50	--	<b>0.0014</b>	<0.0005	<b>0.00064</b>	<0.0005	<0.0050	--	
MW-25	06/07/05	<b>0.40</b>	<b>3.2</b>	--	<0.50	--	<0.001	<0.001	<b>0.0014</b>	<0.001	<0.0050	--	
MW-25	09/20/05	<b>0.30</b>	<b>1.4</b>	--	<0.50	--	<b>0.0016</b>	<0.0005	<0.0005	<0.0005	<b>0.059*a</b>	--	
MW-25	12/13/05	<0.25	<b>1.2</b>	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050	--	
MW-25	03/15/06	<0.25	<b>1.0</b>	--	<0.50	--	<b>0.0019</b>	<0.001	<0.001	<0.001	<0.0050	--	
MW-25	06/08/06	<0.25	<b>1.4</b>	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	09/12/06	<0.25	<b>0.31</b>	--	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	12/12/06	<0.25	<b>0.86</b>	--	<0.50	--	<b>0.0052</b>	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	06/19/07	<0.50	<b>1.6</b>	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-25	06/04/08	<0.25	<b>0.26</b>	--	<0.50	--	<b>0.0020</b>	<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	<b>0.32</b>	--	<0.50	--	<0.001	<0.001	<0.001	<0.001	<0.0050	--	
MW-25	05/25/11	<0.50	<b>1.4</b>	--	<0.50	--	<0.0025	<0.0025	<0.0025	<0.0025	<0.0050	--	
MW-25	06/01/12	<0.25	<0.25	--	<0.50	--	<b>0.0011</b>	<0.0010	<0.0010	<0.0010	<0.0050	--	
MW-25	04/10/13	<0.25	--	<0.25	<0.50	--	<b>0.0013</b>	<0.0005	<0.0005	<0.0005	<0.0050	--	
MW-25	04/23/14	<0.25	<b>0.65</b>	0.25	<0.50	<0.50	<b>0.0014</b>	<0.0005	<0.0005	<0.0005	<0.0050	--	
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	--	

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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	--	<0.25	<0.50	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0050	--	
SH-02R	04/23/14	<0.25	<b>0.28</b>	<0.25	<0.50	<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	--	
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	--	

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

Table 2



**Groundwater Analytical Results**

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		
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-1	04/21/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-1	07/14/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-1	03/17/15	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-2	06/21/13	<b>0.25</b>	<b>0.28</b>	--	--	--	<b>0.0075</b>	<b>0.00097</b>	<0.0005	<b>0.00068</b>	--	--	Baseline monitoring event
TMW-2	07/30/13	<b>0.26</b>	--	--	--	--	--	--	--	--	--	--	
TMW-2	10/03/13	<b>0.50</b>	--	--	--	--	<b>0.013</b>	<b>0.00074</b>	<0.0005	<b>0.0024</b>	--	--	
TMW-2	01/22/14	<b>0.28</b>	--	--	--	--	<b>0.011</b>	<0.0005	<0.0005	<0.0005	--	--	
TMW-2	04/21/14	<0.25	--	--	--	--	<0.001	<0.001	<0.001	<0.001	--	--	
TMW-2	07/14/14	<0.25	--	--	--	--	0.0028	<0.0005	<0.0005	<0.0005	--	--	
TMW-2	03/17/15	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-3	06/24/13	<b>0.86</b>	<b>0.85</b>	--	--	--	<0.0005	<b>0.00052</b>	<0.0005	<b>0.00087</b>	--	--	Baseline monitoring event
TMW-3	07/30/13	<b>0.98</b>	--	--	--	--	--	--	--	--	--	--	
TMW-3	10/03/13	<b>0.92</b>	--	--	--	--	<b>0.00057</b>	<b>0.0018</b>	<b>0.0076</b>	<b>0.0072</b>	--	--	
TMW-3	01/22/14	<b>0.75</b>	--	--	--	--	<0.001	<b>0.0022</b>	<0.001	<0.001	--	--	
TMW-3	04/24/14	<b>0.51</b>	--	--	--	--	<0.0005	<b>0.0046</b>	<b>0.0011</b>	<0.0005	--	--	
TMW-3	07/14/14	<0.25	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-3	03/18/15	<b>0.62</b>	--	--	--	--	<0.0005	<0.0005	<0.0005	<0.0005	--	--	
TMW-4	06/24/13	<b>4.9</b>	<b>2.5 Z</b>	--	--	--	<b>0.17</b>	<b>0.084</b>	<b>0.23</b>	<b>0.95</b>	--	--	Baseline monitoring event
TMW-4	07/30/13	<b>5.1</b>	--	--	--	--	--	--	--	--	--	--	
TMW-4	10/03/13	<b>4.7</b>	--	--	--	--	<b>0.13</b>	<b>0.12</b>	<b>0.29</b>	<b>1.3</b>	--	--	
TMW-4	01/22/14	<b>6.0</b>	--	--	--	--	<b>0.21</b>	<b>0.07</b>	<b>0.4</b>	<b>0.99</b>	--	--	
TMW-4	04/24/14	<b>4.0</b>	--	--	--	--	<b>0.16</b>	<b>0.044</b>	<b>0.39</b>	<b>0.84</b>	--	--	
TMW-4	07/14/14	<b>5.6</b>	--	--	--	--	<b>0.19</b>	<b>0.016</b>	<b>0.38</b>	<b>0.35</b>	--	--	
TMW-4	03/18/15	<b>7.5</b>	--	--	--	--	<b>0.21</b>	<b>0.019</b>	<b>0.53</b>	<b>0.38</b>	--	--	
TMW-5	06/21/13	<b>1.3</b>	<b>0.65 K</b>	--	--	--	<b>0.1</b>	<b>0.0097</b>	<b>0.022</b>	<b>0.02</b>	--	--	Baseline monitoring event
TMW-5	07/30/13	<b>4.3</b>	--	--	--	--	--	--	--	--	--	--	
TMW-5	10/03/13	<b>1.9</b>	--	--	--	--	<b>0.044</b>	<b>0.0063</b>	<b>0.0038</b>	<b>0.0088</b>	--	--	
TMW-5	01/22/14	<b>1.9</b>	--	--	--	--	<b>0.0039</b>	<b>0.0031</b>	<b>0.0012</b>	<b>0.0023</b>	--	--	
TMW-5	04/24/14	<b>1.4</b>	--	--	--	--	<0.0015	<b>0.0026</b>	<b>0.0017</b>	<b>0.0021</b>	--	--	
TMW-5	07/14/14	<b>1.4</b>	--	--	--	--	<b>0.01</b>	<b>0.0016</b>	<0.0005	<b>0.00062</b>	--	--	
TMW-5	03/18/15	<b>3.0</b>	--	--	--	--	<b>0.046</b>	<b>0.0069</b>	<b>0.016</b>	<b>0.016</b>	--	--	
TMW-6	06/24/13	<b>4.9</b>	<b>1.8 Z</b>	--	--	--	<b>0.067</b>	<b>0.0099</b>	<b>0.15</b>	<b>0.55</b>	--	--	Baseline monitoring event
TMW-6	07/30/13	<b>7.8</b>	--	--	--	--	--	--	--	--	--	--	
TMW-6	10/03/13	<b>5.4</b>	--	--	--	--	<b>0.028</b>	<b>0.01</b>	<b>0.18</b>	<b>0.42</b>	--	--	
TMW-6	01/22/14	<b>7.0</b>	--	--	--	--	<b>0.06</b>	<b>0.01</b>	<b>0.28</b>	<b>0.53</b>	--	--	
TMW-6	04/24/14	<b>5.1</b>	--	--	--	--	<b>0.015</b>	<b>0.0036</b>	<b>0.19</b>	<b>0.37</b>	--	--	
TMW-6	07/14/14	<b>3.9</b>	--	--	--	--	<b>0.064</b>	<b>0.0047</b>	<b>0.16</b>	<b>0.21</b>	--	--	
TMW-6	03/18/15	<b>5.0</b>	--	--	--	--	<b>0.003</b>	<b>0.0028</b>	<b>0.15</b>	<b>0.12</b>	--	--	

## Table 2



### Groundwater Analytical Results

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

Well ID	Date Sampled	GRO	DRO	DRO, SGC	HO	HO, SGC	Benzene	Toluene	Ethylbenzene	Xylenes	Total Lead	Lead Dissolved	Comments
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	
Site Specific Cleanup Levels:		1.0	10	10	10	10	0.071	200	29.0	NA	0.0058		

#### 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 Limits were increased due to high concentration of target analytes.

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

Total Petroleum Hydrocarbons as gasoline-range organics (GRO) - Analysis by Washington Method WTPH-G prior to 5/20/98; analysis by Northwest Method NWTPH-Gx from 5/20/98 through present.

Total Petroleum Hydrocarbons as diesel-range organics (DRO) and heavy oil-range organics (HO) - 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-5	07/15/14	0.37	--	--	--	--	--	--	--	
A-5	03/18/15	0.16	--	--	--	--	--	--	--	
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	08/28/02	1.40	<b>5.7</b>	--	--	<b>16</b>	<0.25	<b>30.00</b>	<b>0.6</b>	
A-10	11/06/02	2.00	<b>5.9</b>	--	--	<b>15</b>	<0.25	<b>10.00</b>	<b>0.3</b>	
A-10	02/20/03	2.70	<b>1.0</b>	--	--	<b>22</b>	<b>6.1</b>	<b>86</b>	<0.1	
A-10	06/10/03	1.40	<b>1.60</b>	--	--	<b>17.00</b>	<b>0.54</b>	<b>63.00</b>	<b>0.1</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-10	09/17/03	1.70	<b>3.20</b>	--	--	<b>47.00</b>	<0.25a	<b>12.00</b>	<b>0.6</b>	
A-10	11/20/03	1.40	<b>0.10</b>	--	--	<b>4.90</b>	<0.25a	<b>3.70</b>	<b>0.3</b>	
A-10	02/26/04	1.50	<b>0.24</b>	--	--	<b>5.10</b>	<0.25b	<b>61.00</b>	<b>0.2</b>	
A-10	05/12/04	0.60	--*a	--	--	<b>30.00</b>	<0.25	<b>10.00</b>	<0.10	
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	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	

### 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	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	--	--	--	--	--	--	--	
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	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	--	--	--	--	--	--	--	



# 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	06/02/09	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	--	--	--	--	--	--	--	
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	3.53	--	--	--	--	--	--	--	
A-21	04/23/14	--	<b>0.013</b>	--	--	<b>0.62</b>	<0.25	<b>250</b>	<0.10	
A-21	07/15/14	0.39	--	--	--	--	--	--	--	
A-21	03/18/15	0.03	<b>0.050</b>	--	--	<b>4.2</b>	<2.5	<b>1,500</b>	<0.10	
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>	

# 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	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	
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-23R	04/22/14	--	<b>0.018</b>	--	--	<b>18</b>	<0.25	<b>1,900</b>	<0.10	
A-23R	07/15/14	0.88	--	--	--	--	--	--	--	
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	

# 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	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>	
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

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## Groundwater Natural Attenuation Parameters

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 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
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	7.32	--	--	--	--	--	<0.50	<0.10	
A-27	04/22/14	--	<b>2.9</b>	--	--	<b>2.4</b>	<0.25	<b>4.2</b>	<0.10	
A-27	07/15/14	0.36	<b>5.7</b>	<b>18</b>	<b>16</b>	--	--	<b>0.34 J</b>	<0.10	
A-27	03/17/15	0.33	<b>6.7</b>	--	--	<b>17</b>	<0.25	<b>3.1</b>	<0.10	
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	
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	--	--	--	--	--	--	--	

**Table 3**

**Groundwater Natural Attenuation Parameters**

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
A-28R	06/08/10	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	--	--	--	--	--	--	--	
A-28R	04/22/14	--	<b>4.3</b>	--	--	<b>47</b>	<b>0.45</b>	<b>2.2</b>	<0.10	
A-28R	07/15/14	0.20	--	--	--	--	--	--	--	
A-28R	03/18/15	0.22	<b>7.5</b>	--	--	<b>44</b>	<0.25	<b>4.4</b>	<0.10	
11	06/24/13	--	--	--	--	--	<0.25	<b>2.5</b>	<0.10	Baseline monitoring event
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	
11	04/21/14	--	--	--	--	--	<b>1.1</b>	<b>580</b>	<0.10	
11	07/14/14	1.07	<b>0.47</b>	<b>1.6</b>	<b>0.55</b>	--	--	<b>200</b>	<0.10	
11	03/18/15	10.87	<0.010	--	--	<0.050	<b>0.43</b>	<b>450</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	
12	04/21/14	--	--	--	--	--	<0.25	<b>1,700</b>	<b>0.22</b>	
12	07/14/14	0.20	<b>11</b>	<b>31</b>	<b>38</b>	--	--	<b>1,100</b>	<0.10	
12	03/18/15	0.23	<b>2.2</b>	--	--	<b>5.5</b>	<0.25	<b>940</b>	<0.10	
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	

# Table 3



## Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-1	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	08/29/02	2.10	<b>0.69</b>	--	--	<b>1.60</b>	<0.25	<b>9.80</b>	<0.1	
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	

# 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	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-2	04/22/14	--	--	--	--	--	--	--	<0.10	
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	
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	--	--	--	--	--	--	--	

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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-3	05/31/12	0.34	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	
MW-5	08/29/02	1.40	<b>0.17</b>	--	--	<b>0.30</b>	<0.25	<b>11.00</b>	<b>0.20</b>	
MW-5	11/05/02	4.10	<b>6.40</b>	--	--	<b>13.00</b>	<b>1.10</b>	<b>250.00</b>	<b>0.30</b>	
MW-5	02/20/03	2.00	<b>0.073</b>	--	--	<0.2	<0.25	<b>6.20</b>	<0.1	
MW-5	06/11/03	1.60	<b>2.50</b>	--	--	<b>0.60</b>	<0.25	<b>8.20</b>	<b>0.10</b>	
MW-5	09/16/03	1.20	<b>4.70</b>	--	--	<b>3.10</b>	<0.25b	<b>5.60</b>	<b>0.10</b>	
MW-5	11/20/03	4.90	<0.01	--	--	<b>0.30</b>	<0.25a	<b>4.70</b>	<b>0.20</b>	
MW-5	02/24/04	3.10	<b>0.33</b>	--	--	<b>0.062</b>	<0.25b	<b>5.80</b>	<b>0.10</b>	
MW-5	05/11/04	1.90	<b>0.61</b>	--	--	<b>1.50</b>	<b>0.27</b>	<b>3.00</b>	<0.10	
MW-5	08/26/04	1.22	<0.010	--	--	<0.050	<b>1.80</b>	<b>7.60</b>	<0.10	
MW-5	12/15/04	12.19	<0.010	--	--	<0.050	<b>0.27</b>	<b>4.30</b>	<0.10	
MW-5	03/09/05	6.22	<b>0.020</b>	--	--	<0.050	<0.25	<b>15.00</b>	<0.10	
MW-5	06/08/05	2.50	<0.010	--	--	<0.050	<0.25	<b>11.00</b>	<0.2	



# 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	09/21/05	1.90	<b>0.080</b>	--	--	<b>0.077</b>	<0.25	<b>8.90</b>	<0.10	
MW-5	12/14/05	2.20	<0.010	--	--	<0.050	<0.25	<b>9.80</b>	--*a	
MW-5	03/14/06	2.20	<0.010	--	--	<0.050	<b>0.55</b>	<b>3.20</b>	<0.10	
MW-5	06/07/06	2.00	<0.010	--	--	<0.050	<b>1.10</b>	<b>4.50</b>	<0.10	
MW-5	09/13/06	2.10	<b>0.34</b>	--	--	<0.050	<0.25	<b>6.60</b>	<0.10	
MW-5	12/13/06	2.30	<0.010	--	--	<0.050	<b>0.30</b>	<b>3.80</b>	<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	08/29/02	1.20	<b>0.72</b>	--	--	<b>4.10</b>	<0.25	<b>11.00</b>	<b>0.10</b>	
MW-6	11/05/02	1.70	<b>1.70</b>	--	--	<b>10.00</b>	<0.25	<b>5.60</b>	<b>0.70</b>	
MW-6	02/19/03	3.30	<b>1.20</b>	--	--	<b>7.30</b>	<0.25	<b>62.00</b>	<b>0.10</b>	
MW-6	06/10/03	2.00	<b>0.87</b>	--	--	<b>5.90</b>	<0.25	<b>17.00</b>	<b>0.20</b>	
MW-6	09/16/03	2.30	<b>1.60</b>	--	--	<b>41.00</b>	<0.25b	<b>2.90</b>	<b>1.00</b>	
MW-6	11/19/03	5.10	<b>1.70</b>	--	--	<b>5.40</b>	<0.25b	<b>19.00</b>	<0.1	
MW-6	02/25/04	2.40	<0.01	--	--	<b>0.49</b>	<b>2.8b</b>	<b>24.00</b>	<0.1	
MW-6	05/11/04	1.20	<b>0.39</b>	--	--	<b>5.10</b>	<0.25	<b>12.00</b>	<0.10	
MW-6	08/25/04	2.26	<b>0.59</b>	--	--	<b>4.90</b>	<0.25	<b>8.70</b>	<b>0.18</b>	
MW-6	12/14/04	1.45	<b>2.80</b>	--	--	<b>2.50</b>	<0.25	<b>9.90</b>	<0.10	
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>	

## 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	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-6	04/22/14	--	<0.010	--	--	<0.050	<b>1.6</b>	<b>23</b>	<0.10	
MW-6	07/15/14	0.51	--	--	--	--	--	--	--	
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>	
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>	

# 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	06/07/06	1.60	19.00	--	--	2.70	<0.25	17.00	0.43	
MW-7	09/13/06	2.00	17.00	--	--	1.80	<0.25	2.10	0.17	
MW-7	03/27/07	1.90	--	--	--	--	--	--	--	
MW-7	06/20/07	1.00	23.00	--	--	2.90	<0.25	8.30	0.45	
MW-7	09/24/07	2.60	--	--	--	--	--	--	--	
MW-7	12/11/07	3.22	--	--	--	--	--	--	--	
MW-7	03/04/08	1.30	--	--	--	--	--	13.00	--	
MW-7	06/04/08	1.30	19.00	--	--	0.15	<0.25	2.30	0.63	
MW-7	09/08/08	0.73	--	--	--	--	--	--	--	
MW-7	12/05/08	0.40	--	--	--	--	--	--	--	
MW-7	03/04/09	0.70	--	--	--	--	--	--	--	
MW-7	06/02/09	0.37	25.00	--	--	2.80	<0.25	21.00	0.42	
MW-7	09/22/09	0.54	--	--	--	--	--	--	--	
MW-7	11/17/09	0.64	--	--	--	--	--	--	--	
MW-7	03/09/10	0.18	--	--	--	--	--	--	--	
MW-7	06/09/10	0.00	27.00	--	--	1.10	1.60	1.60	0.44	
MW-7	09/09/10	0.25	--	--	--	--	<0.25	3.60	--	
MW-7	11/15/10	0.47	--	--	--	--	--	--	--	
MW-7	03/01/11	0.00	--	--	--	--	--	--	--	
MW-7	05/24/11	0.00	3.50	--	--	1.80	0.46	5.10	0.55	
MW-7	08/29/11	0.44	--	--	--	--	--	--	--	
MW-7	12/01/11	0.42	--	--	--	--	--	--	--	
MW-7	03/01/12	0.25	--	--	--	--	--	--	--	
MW-7	05/31/12	0.00	14.00	--	--	1.50	<0.25	2.40	0.70	
MW-7	04/09/13	--	3.7	--	--	3.3	<0.25 *	4.7	0.054 J	
MW-7	06/21/13	--	--	--	--	--	<0.25 *	3.2	<0.10	Baseline monitoring event
MW-7	07/30/13	--	20	4.6	<0.30	--	<0.25	4.1	<0.10	
MW-7	10/03/13	0.00	20	170	140	--	0.81 *	3,100	<0.10	
MW-7	01/22/14	5.11	--	--	--	--	--	2,100	0.23	
MW-7	04/21/14	--	7.9	--	--	15	0.29	1,200	0.18	
MW-7	07/14/14	1.80	24	3.7	5.8	--	--	1,000	<0.10	
MW-7	03/17/15	0.10	3.3	--	--	3.6	<0.25	750	0.16	
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	

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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-8	02/20/03	2.90	<b>0.56</b>	--	--	<b>0.50</b>	<b>0.69</b>	<b>7.60</b>	<b>0.30</b>	
MW-8	06/11/03	1.56	<b>18.00</b>	--	--	<b>0.30</b>	<0.25	<0.25	<b>0.40</b>	
MW-8	09/17/03	2.50	<b>11.00</b>	--	--	<b>6.10</b>	<0.25a	<b>6.70</b>	<b>0.40</b>	
MW-8	11/20/03	1.70	<0.010	--	--	<0.2	<b>2.4a</b>	<b>11.00</b>	<b>0.10</b>	
MW-8	02/26/04	2.30	<0.01	--	--	<b>0.57</b>	<b>1.2b</b>	<b>4.40</b>	<b>0.20</b>	
MW-8	05/11/04	3.10	<b>0.19</b>	--	--	<b>0.12</b>	<0.25	<b>5.30</b>	<0.10	
MW-8	08/26/04	3.32	<b>0.36</b>	--	--	<0.050	<b>2.20</b>	<b>11.00</b>	<0.10	
MW-8	12/15/04	2.30	<0.010	--	--	<0.050	<b>5.80</b>	<b>15.00</b>	<0.10	
MW-8	03/09/05	2.22	<0.010	--	--	<0.050	<b>1.20</b>	<b>7.30</b>	<0.10	
MW-8	06/08/05	6.50	<b>0.018</b>	--	--	<0.050	<b>2.30</b>	<b>7.40</b>	<0.2	
MW-8	09/21/05	2.10	<b>4.40</b>	--	--	<b>0.51</b>	<0.25	<b>11.00</b>	<0.10	
MW-8	12/14/05	2.50	<b>4.00</b>	--	--	<0.050	<b>2.20</b>	<b>11.00</b>	<0.10	
MW-8	03/14/06	2.50	<0.010	--	--	<0.050	<b>1.60</b>	<b>6.40</b>	<0.10	
MW-8	06/07/06	1.30	<b>0.53</b>	--	--	<0.050	<b>1.10</b>	<b>6.00</b>	<0.10	
MW-8	09/13/06	1.60	<b>7.10</b>	--	--	<b>0.068</b>	<0.25	<b>5.00</b>	<0.10	
MW-8	12/13/06	3.10	<0.010	--	--	<0.050	<b>7.30</b>	<b>41.00</b>	<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	<b>6.60</b>	--	--	<b>15.00</b>	<0.25	<b>2.00</b>	<b>0.70</b>	
MW-9	09/17/03	2.10	<b>9.80</b>	--	--	<b>19.00</b>	<0.25a	<b>1.50</b>	<b>0.70</b>	
MW-9	11/20/03	1.60	<b>2.20</b>	--	--	<b>14.00</b>	<0.25a	<b>66.00</b>	<b>0.30</b>	
MW-9	02/26/04	1.10	<b>15.00</b>	--	--	<b>12.00</b>	<0.25b	<b>8.10</b>	<b>0.80</b>	
MW-9	05/11/04	0.90	<b>4.10</b>	--	--	<b>0.25</b>	<0.25	<b>0.62</b>	<b>0.12</b>	
MW-9	08/26/04	1.80	<b>8.20</b>	--	--	<b>15.00</b>	<0.25	<b>1.00</b>	<b>0.41</b>	
MW-9	12/15/04	1.76	<b>5.30</b>	--	--	<b>29.00</b>	<b>10.00</b>	<b>180.00</b>	<0.10	
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>	

# 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	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-9	04/21/14	--	<b>24</b>	--	--	<b>0.45</b>	<0.25	<b>300</b>	<0.10	
MW-9	07/14/14	0.24	<b>21</b>	<b>1.5</b>	<b>1.2</b>	--	--	<b>99</b>	<0.10	
MW-9	03/18/15	1.99	<b>2.9</b>	--	--	<0.050	<b>0.57</b>	<b>190</b>	<0.10	
MW-12R	06/01/09	0.36	--	--	--	--	--	--	--	
MW-12R	06/08/10	0.19	--	--	--	--	--	--	--	

# Table 3



## Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-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-12R	04/23/14	--	--	--	--	--	--	--	<0.10	
MW-13R	06/01/09	0.49	--	--	--	--	--	--	--	
MW-13R	06/08/10	0.00	--	--	--	--	--	--	--	
MW-13R	05/23/11	0.18	--	--	--	--	--	--	<b>0.0050</b>	
MW-13R		Abandoned on 5/25/2012								
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-14	04/21/14	--	<b>0.23</b>	--	--	<0.050	<0.25	<b>8.8</b>	<0.10	
MW-14	07/15/14	0.37	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	

# 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	06/08/10	0.00	--	--	--	--	--	--	--	
MW-18	09/10/10	3.84	--	--	--	--	--	--	--	
MW-18	11/16/10	0.59	--	--	--	--	--	--	--	
MW-18	03/02/11	0.030	--	--	--	--	--	--	--	
MW-18	05/23/11	0.00	--	--	--	--	--	--	--	
MW-18	08/30/11	0.28	--	--	--	--	--	--	--	
MW-18	12/02/11	0.57	--	--	--	--	--	--	--	
MW-18	03/02/12	0.57	--	--	--	--	--	--	--	
MW-18	05/31/12	0.00	--	--	--	--	--	--	--	
MW-18	10/02/13	0.00	--	--	--	--	--	--	--	
MW-18	01/22/14	5.50	--	--	--	--	--	--	--	
MW-18	07/15/14	0.15	--	--	--	--	--	--	--	
MW-18	03/18/15	0.23	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	



# Table 3



## Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-19	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	
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	7.20	--	--	--	--	--	<b>620</b>	<0.10	
MW-19	04/21/14	--	<b>28</b>	--	--	<b>30</b>	<0.25	<b>190</b>	<b>0.23</b>	
MW-19	07/15/14	0.46	<b>30</b>	<b>8.3</b>	<b>7.6</b>	--	--	<0.50	<0.10	
MW-19	03/17/15	0.05	<b>30</b>	--	--	<b>8.7</b>	<0.25	<b>1.9</b>	<0.10	
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>	

# Table 3



## Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-20	03/14/06	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	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	

# 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	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-21	04/24/14	--	<b>0.20</b>	--	--	<0.050	<0.25	<b>7.8</b>	<0.10	
MW-21	07/15/14	0.29	--	--	--	--	--	--	--	
MW-21	03/18/15	4.6	<b>0.55</b>	--	--	<0.050	<b>0.28</b>	<b>2.0</b>	<0.10	
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>	
MW-22	11/05/02	1.60	<b>1.1</b>	--	--	<b>5.6</b>	<0.25	<b>99.00</b>	<b>0.2</b>	
MW-22	02/19/03	2.10	<0.01	--	--	<b>4.7</b>	<0.25	<b>120</b>	<b>0.1</b>	
MW-22	06/10/03	1.30	<b>0.087</b>	--	--	<b>5.00</b>	<b>0.64</b>	<b>110.00</b>	<b>0.5</b>	
MW-22	09/16/03	2.40	<b>2.0</b>	--	--	<b>55.00</b>	<0.25b	<b>230.00</b>	<b>1.6</b>	
MW-22	11/19/03	6.60	<b>0.056</b>	--	--	<b>2.30</b>	<0.25b	<b>100.00</b>	<b>0.4</b>	
MW-22	02/25/04	8.20	<0.01	--	--	<b>2.40</b>	<b>0.38b</b>	<b>43.00</b>	<b>0.4</b>	
MW-22	05/11/04	5.10	<0.010	--	--	<b>0.48</b>	<b>0.87</b>	<b>36.00</b>	<0.10	
MW-22	08/25/04	2.72	<b>1.4</b>	--	--	<b>2.70</b>	<b>0.33</b>	<b>59.00</b>	--*b	
MW-22	12/14/04	1.35	<b>3.2</b>	--	--	<b>5.50</b>	<b>1.20</b>	<b>65.00</b>	<0.10	
MW-22	03/10/05	1.40	<b>0.38</b>	--	--	<b>9.20</b>	<b>0.49</b>	<b>23.00</b>	<b>0.61</b>	
MW-22	06/07/05	4.20	<b>0.53</b>	--	--	<b>6.30</b>	<0.25	<b>25.00</b>	<b>0.7</b>	
MW-22	09/20/05	3.70	<b>0.86</b>	--	--	<b>27.00</b>	<0.25	<b>24.00</b>	<b>0.16</b>	
MW-22	12/13/05	2.10	<b>3.8</b>	--	--	<b>12.00</b>	<0.25	<b>25.00</b>	<b>3.0</b>	
MW-22	03/15/06	2.10	<b>0.033</b>	--	--	<b>4.40</b>	<0.25	<b>14.00</b>	<0.10	
MW-22	06/08/06	2.60	<b>0.62</b>	--	--	<b>4.50</b>	<0.25	<b>17.00</b>	<b>0.19</b>	
MW-22	09/12/06	2.60	<b>2.2</b>	--	--	<b>4.50</b>	<0.25	<b>19.00</b>	<b>0.11</b>	
MW-22	12/12/06	0.90	<b>0.010</b>	--	--	<b>2.20</b>	<0.25	<b>7.3</b>	<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	--	

## 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	05/23/11	0.00	--	--	--	--	--	--	--	
MW-22	05/31/12	0.00	--	--	--	--	--	--	--	
MW-23	02/25/04	1.60	<b>12</b>	--	--	<b>15</b>	<0.25b	<b>13.00</b>	<b>0.4</b>	
MW-23	05/12/04	1.80	<b>13</b>	--	--	<b>19</b>	<0.25	<b>3.60</b>	<b>0.16</b>	
MW-23	08/26/04	1.41	<b>10</b>	--	--	<b>14</b>	<0.25	<b>21.00</b>	<b>0.11</b>	
MW-23	12/13/05	2.30	<b>16</b>	--	--	<b>1.2</b>	<0.25	<0.50	<b>0.25</b>	
MW-23	03/15/06	2.30	<b>17</b>	--	--	<b>20</b>	<0.25	<0.50	<b>0.23</b>	
MW-23	06/08/06	1.10	<b>18</b>	--	--	<b>18</b>	<0.25	<0.50	<b>0.20</b>	
MW-23	12/12/06	1.90	<b>27</b>	--	--	<b>27</b>	<0.25	<0.50	<b>0.24</b>	
MW-23	03/27/07	2.40	--	--	--	--	--	--	--	
MW-23	06/19/07	1.20	<b>13</b>	--	--	<b>18</b>	<0.25	<1.0	<b>0.19</b>	
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	<b>12</b>	--	--	<b>63</b>	<0.25	<b>1.0</b>	<b>0.48</b>	
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-23	04/23/14	--	<b>3.1</b>	--	--	<b>23</b>	<0.25	<b>470</b>	<0.10	
MW-23	07/15/14	0.30	--	--	--	--	--	--	--	

# 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	03/18/15	0.07	<b>6.5</b>	--	--	<b>9.5</b>	<0.25	<b>260</b>	<b>0.15</b>	
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	--	--	--	--	--	--	--	
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	--	--	--	--	--	--	--	Duplicate of MW-24
MW-24	04/23/14	--	<b>13</b>	--	--	<b>52</b>	<b>0.95</b>	<b>2.3</b>	<0.10	
MW-24	07/15/14	0.20	--	--	--	--	--	--	--	
MW-24	03/18/15	0.18	<b>23</b>	--	--	<b>40</b>	<0.25	<b>1.2</b>	<0.10	
MW-25	02/26/04	1.30	<b>1.5</b>	--	--	<b>27</b>	<0.25b	<b>120.00</b>	<b>0.9</b>	

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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-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	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>	
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	

# Table 3



## Groundwater Natural Attenuation Parameters

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

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
SH-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-02R	04/23/14	--	--	--	--	--	--	--	<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	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	
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>	

# Table 3



## Groundwater Natural Attenuation Parameters

Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal  
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 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
MW-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	
MW-07R	04/23/14	--	--	--	--	--	--	--	<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	--	--	--	--	--	--	--	
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	



## Table 3

### Groundwater Natural Attenuation Parameters

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 Seattle, Washington

Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
TMW-1	04/21/14	--	--	--	--	--	<0.25	<b>670</b>	<0.10	
TMW-1	07/14/14	0.87	<0.010	<b>4.0</b>	<b>3.1</b>	--	--	<b>650</b>	<0.10	
TMW-1	03/17/15	5.42	<b>0.040</b>	--	--	<b>0.65</b>	<b>0.32</b>	<b>640</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-2	04/21/14	--	--	--	--	--	<0.25	<b>2,600</b>	<0.10	
TMW-2	07/14/14	0.10	<b>7.1</b>	<b>68</b>	<b>67</b>	--	--	<b>2,700</b>	<0.10	
TMW-2	03/17/15	0.24	<b>2.7</b>	--	--	<b>16</b>	<0.25	<b>1,500</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	

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Well ID	Date Sampled	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Ferrous Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	Comments
TMW-3	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-3	04/24/14	--	--	--	--	--	<0.25	<b>2,500</b>	<0.10	
TMW-3	07/14/14	0.27	<b>1.3</b>	<b>19</b>	<b>17</b>	--	--	<b>3,100</b>	<0.10	
TMW-3	03/18/15	0.07	<b>1.3</b>	--	--	<b>9.3</b>	<0.25	<b>1,300</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-4	04/24/14	--	--	--	--	--	<0.25	<b>1,400</b>	<0.10	
TMW-4	07/14/14	0.12	<b>7.9</b>	<b>130</b>	<b>130</b>	--	--	<b>940</b>	<0.10	
TMW-4	03/18/15	0.08	<b>7.5</b>	--	--	<b>30</b>	<0.25	<b>410</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-5	04/24/14	--	--	--	--	--	<0.25	<b>4,000</b>	<0.10	
TMW-5	07/14/14	0.09	<b>2.4</b>	<b>8.0</b>	<b>0.82</b>	--	--	<b>1,300</b>	<0.10	
TMW-5	03/18/15	0.04	<b>8.9</b>	--	--	<b>0.069</b>	<0.25	<b>700</b>	<b>0.20</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	
TMW-6	04/24/14	--	--	--	--	--	<0.25	<b>1,800</b>	<0.10	
TMW-6	07/14/14	0.22	<b>6.5</b>	<b>100</b>	<b>98</b>	--	--	<b>1,600</b>	<0.10	
TMW-6	03/18/15	0.09	<b>0.54</b>	--	--	<b>2.0</b>	<0.25	<b>1,000</b>	<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
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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.

081614RTH\_\\ca09fp01\data\CMA\Projects\Mission Valley Terminal\db\DATAMGMT\_Corona\KMEP\_CORONA\Harbor Island\HarborIsland\_Table3\_MNA.rpt

# Table 4

## Performance Monitoring Parameters

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



Sample ID	Date	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	GRO mg/l	DRO mg/l	HO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
Site Specific Cleanup Levels:															
			N/A	N/A	N/A	N/A	N/A	N/A	1.0	10	10	0.071	200	29	N/A
11	06/24/13	0.50	--	--	--	<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	1.70	<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	0.69	<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	0.69	--	--	--	--	<b>120</b>	<0.10	<b>0.75</b>	--	--	<0.00050	<0.00050	<0.00050	<0.00050
11	04/21/14	0.69	--	--	--	<b>1.1</b>	<b>580</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
11	07/14/14	--	<b>0.47</b>	<b>1.6</b>	<b>0.55</b>	--	<b>200</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
11	03/18/15	10.87	<0.010	--	--	<b>0.43</b>	<b>450</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
12	06/24/13	0.48	--	--	--	<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	0	<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	0.00	--	--	--	--	<b>3,000</b>	<0.10	<b>4.2</b>	--	--	<b>0.0020</b>	<b>0.0057</b>	<b>0.043</b>	<b>0.180</b>
12	04/21/14	0.00	--	--	--	<0.25	<b>1,700</b>	<b>0.22</b>	<b>2.6</b>	--	--	<b>0.015</b>	<b>0.014</b>	<b>0.088</b>	<b>0.150</b>
12	07/14/14	--	<b>11</b>	<b>31</b>	<b>38</b>	--	<b>1,100</b>	<0.10	<b>4.7</b>	--	--	<b>0.019</b>	<b>0.026</b>	<b>0.17</b>	<b>0.220</b>
12	03/18/15	0.23	<b>2.2</b>	--	--	<0.25	<b>940</b>	<0.10	<b>1.8</b>	--	--	<b>0.0059</b>	<b>0.0012</b>	<b>0.0030</b>	<b>0.024</b>
A-27	06/21/13	1.27	--	--	--	<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	1.50	--	--	--	--	--	--	<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	1.50	<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	0.00	<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	0.00	--	--	--	--	<0.50	<0.10	<b>2.6</b>	--	--	<b>0.078</b>	<b>0.0042</b>	<b>0.061</b>	<b>0.062</b>
A-27	04/22/14	0.00	<b>2.9</b>	--	<b>2.4</b>	<0.25	<b>4.2</b>	<0.10	<b>2.9</b>	--	--	<b>0.062</b>	<b>0.0023</b>	<b>0.074</b>	<b>0.078</b>
A-27	07/14/14	--	<b>5.7</b>	<b>18</b>	<b>16.0</b>	--	<b>&lt;0.50</b>	<0.10	<b>1.8</b>	--	--	<b>0.051</b>	<b>0.0021</b>	<b>0.012</b>	<b>0.016</b>
A-27	03/18/15	0.33	<b>6.7</b>	--	--	<0.25	<b>3.1</b>	<0.10	<b>2.3</b>	--	--	<b>0.072</b>	<b>0.0019</b>	<b>0.072</b>	<b>0.010</b>
MW-7	06/21/13	0.42 d	--	--	--	<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	5.90	<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>

# Table 4

## Performance Monitoring Parameters

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



Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Nitrate	Sulfate	Sulfide	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Xylenes
Site Specific Cleanup Levels:		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
			N/A	N/A	N/A	N/A	N/A	N/A	1.0	10	10	0.071	200	29	N/A
MW-7	08/26/13		--	--	--	--	<b>1,100</b>	--	<b>7.1</b>	--	--	--	--	--	--
MW-7	10/03/13	0.00	<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	0.00	--	--	--	--	<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-7	04/21/14	0.00	<b>7.9</b>	--	<b>15</b>	<b>0.29</b>	<b>1,200</b>	<b>0.18</b>	<b>1.9</b>	--	--	<b>0.013</b>	<b>0.0093</b>	<b>0.110</b>	<b>0.200</b>
MW-7	04/21/14	0.00	--	--	--	--	--	--	<b>2.4</b>	--	--	<b>0.015</b>	<b>0.012</b>	<b>0.130</b>	<b>0.250</b>
MW-7	07/14/14		<b>24</b>	<b>4</b>	<b>6</b>	--	<b>1,000</b>	<0.10	<b>1.5</b>	--	--	<b>0.012</b>	<b>0.001</b>	<b>0.073</b>	<b>0.021</b>
MW-7	03/17/15	0.10	<b>3.3</b>	--	--	<0.25	<b>750</b>	<b>0.16</b>	<b>1.6</b>	--	--	<b>0.0043</b>	<b>0.0061</b>	<b>0.050</b>	<b>0.130</b>
MW-7 (DUP)	03/17/15		--	--	--	--	--	--	<b>2.1</b>	--	--	<b>0.0059</b>	<b>0.0078</b>	<b>0.068</b>	<b>0.170</b>
MW-9	06/24/13	0.64 d	--	--	--	<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	5.80	<b>14</b>	<b>2.0</b>	<b>&lt;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	0.00 d	<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	0.00 d	--	--	--	--	<b>26</b>	<0.10	<0.25	--	--	<0.0050	<0.00050	<0.00050	<b>0.0013</b>
MW-9	04/21/14	0.00 d	<b>24</b>	--	<b>0.45</b>	<0.25	<b>300</b>	<0.10	<0.25	--	--	<b>0.017</b>	<0.00050	<0.00050	<0.00050
MW-9	07/14/14		<b>21</b>	<b>1.5</b>	<b>1.2</b>	--	<b>99</b>	<0.10	<0.25	--	--	<b>0.01</b>	<0.00050	<0.00050	<b>0.00072</b>
MW-9	03/18/15	1.99	<b>2.9</b>	--	--	<b>0.57</b>	<b>190</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
MW-19	06/21/13	0.51	--	--	--	<0.25 *	<0.50	<b>0.13</b>	<b>2.8</b>	<b>1.1</b>	--	<b>0.019</b>	<b>0.017</b>	<b>0.310</b>	<b>0.081</b>
MW-19	07/30/13	2.40	--	--	--	--	--	--	<b>4.4</b>	--	--	<b>0.0086</b>	<b>0.005</b>	<b>0.160</b>	<b>0.013</b>
MW-19	08/26/13		--	--	--	--	<0.50	--	<b>2.3</b>	--	--	--	--	--	--
MW-19	10/03/13	0.00 d	--	--	--	--	--	--	<b>3.2</b>	--	--	<b>0.0076</b>	<b>0.0023</b>	<b>0.046</b>	<b>0.0020</b>
MW-19	01/22/14	0.00 d	--	--	--	--	<b>620</b>	--	<b>2.2</b>	--	--	<b>0.021</b>	<b>0.00065</b>	<b>0.029</b>	<0.00050
MW-19	04/21/14	0.00 d	<b>28</b>	--	<b>30</b>	<0.25	<b>190</b>	<b>0.23</b>	<b>2.1</b>	--	--	<b>0.0066</b>	<b>0.0039</b>	<b>0.160</b>	<b>0.0064</b>
MW-19	07/14/14		<b>30</b>	<b>8.30</b>	<b>8</b>	--	<0.50	<0.10	<b>4.2</b>	--	--	<b>0.0059</b>	<b>0.0100</b>	<b>0.210</b>	<b>0.1500</b>
MW-19 (DUP)	07/14/14		--	--	--	--	--	--	<b>4.4</b>	--	--	<b>0.0052</b>	<b>0.0097</b>	<b>0.200</b>	<b>0.1500</b>
MW-19	03/17/15	0.05	<b>30</b>	--	--	<0.25	<b>1.9</b>	<0.10	<b>4.3</b>	--	--	<b>0.0049</b>	<b>0.014</b>	<b>0.140</b>	<b>0.180</b>

# Table 4

## Performance Monitoring Parameters

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



Sample ID	Date	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	GRO mg/l	DRO mg/l	HO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
Site Specific Cleanup Levels:															
			N/A	N/A	N/A	N/A	N/A	N/A	1.0	10	10	0.071	200	29	N/A
TMW-1	06/21/13	1.90	--	--	--	<b>0.41 *</b>	<b>11</b>	<0.10	<0.25	<0.25	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	07/30/13	1.70	<b>0.075</b>	<b>10</b>	<0.30	<b>0.28</b>	<b>1,900</b>	<0.10	<0.25	--	--	--	--	--	--
TMW-1	08/26/13	--	--	--	--	--	<b>470</b>	--	<0.25	--	--	--	--	--	--
TMW-1	10/03/13	2.92	<b>0.081</b>	<b>13</b>	<b>5.20</b>	<0.50 *	<b>980</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	01/22/14	2.92	--	--	--	--	<b>450</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	04/21/14	2.92	--	--	--	<0.25	<b>670</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	07/14/14	--	<0.010	<b>4</b>	<b>3.1</b>	--	<b>650</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-1	03/17/15	<b>5.42</b>	<b>0.040</b>	--	--	<b>0.32</b>	<b>640</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-2	06/21/13	0.86	--	--	--	<0.25 *	<b>0.83</b>	<0.10	<b>0.25</b>	<b>0.28</b>	--	<b>0.0075</b>	<b>0.00097</b>	<0.0005	<b>0.00068</b>
TMW-2	07/30/13	1.40	<b>17</b>	<b>29</b>	<b>1.2</b>	<0.25	<b>6.4</b>	<0.10	<b>0.26</b>	--	--	--	--	--	--
TMW-2	08/26/13	--	--	--	--	--	<b>61</b>	--	<b>0.64</b>	--	--	--	--	--	--
TMW-2	10/03/13	0.00 d	<b>15</b>	<b>160</b>	<b>110</b>	<0.50 *	<b>2,000</b>	<0.10	<b>0.50</b>	--	--	<b>0.013</b>	<b>0.00074</b>	<0.00050	<b>0.0024</b>
TMW-2	01/22/14	0.00 d	--	--	--	--	<b>2,000</b>	<0.10	<b>0.28</b>	--	--	<b>0.011</b>	<0.00050	<0.00050	<0.00050
TMW-2	04/21/14	0.00 d	--	--	--	<0.25	<b>2,600</b>	<0.10	<0.25	--	--	<0.001 v	<0.001 v	<0.001 v	<0.001 v
TMW-2	07/14/14	--	<b>7</b>	<b>68</b>	<b>67</b>	--	<b>2,700</b>	<0.10	<0.25	--	--	0.0028	<0.00050	<0.00050	<0.00050
TMW-2	03/17/15	0.24	<b>2.7</b>	--	--	<0.25	<b>1,500</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-3	06/24/13	0.34 d	--	--	--	<0.25	<b>4.4</b>	<0.10	<b>0.86</b>	<b>0.85</b>	--	<0.0005	<b>0.00052</b>	<0.0005	<b>0.00087</b>
TMW-3	07/30/13	5.70	<b>2.6</b>	<b>10</b>	<0.30	<0.25	<b>3.1</b>	<0.10	<b>0.98</b>	--	--	--	--	--	--
TMW-3	08/26/13	--	--	--	--	--	<b>37</b>	--	<b>1.2</b>	--	--	--	--	--	--
TMW-3	10/03/13	0.00 d	<b>3.8</b>	<b>43</b>	<b>18</b>	<0.50 *	<b>1,100</b>	<0.10	<b>0.92</b>	--	--	<b>0.00057</b>	<b>0.00180</b>	<b>0.0076</b>	<b>0.0072</b>
TMW-3	01/22/14	0.00 d	--	--	--	--	<b>3,800</b>	<0.10	<b>0.75</b>	--	--	<0.0010 v	<b>0.0022</b>	<0.0010o	<0.0010o
TMW-3	04/24/14	0.00 d	--	--	--	<0.25	<b>2,500</b>	<0.10	<b>0.51</b>	--	--	<0.00050	<b>0.0046</b>	<b>0.0011</b>	<0.00050
TMW-3	07/14/14	--	<b>1.3</b>	<b>19</b>	<b>17</b>	--	<b>3,100</b>	<0.10	<0.25	--	--	<0.00050	<0.00050	<0.00050	<0.00050
TMW-3	03/18/15	0.07	<b>1.3</b>	--	--	<0.25	<b>1,300</b>	<0.10	<b>0.62</b>	--	--	<0.00050	<0.00050	<0.00050	<0.00050

# Table 4

## Performance Monitoring Parameters

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



Sample ID	Date	Dissolved Oxygen mg/l	Methane (Head Space) mg/l	Total Iron mg/l	Dissolved Iron mg/l	Nitrate mg/l	Sulfate mg/l	Sulfide mg/l	GRO mg/l	DRO mg/l	HO mg/l	Benzene mg/l	Toluene mg/l	Ethylbenzene mg/l	Xylenes mg/l
Site Specific Cleanup Levels:			N/A	N/A	N/A	N/A	N/A	N/A	1.0	10	10	0.071	200	29	N/A
TMW-4	06/24/13	0.66	--	--	--	<0.25	<b>32</b>	<b>0.11</b>	<b>4.9</b>	<b>2.5</b>	--	<b>0.170</b>	<b>0.084</b>	<b>0.230</b>	<b>0.950</b>
TMW-4	07/30/13	1.70	<b>13</b>	<b>24</b>	<b>5</b>	<b>0.48</b>	<b>1.4</b>	<b>0.11</b>	<b>5.1</b>	--	--	--	--	--	--
TMW-4	08/26/13		--	--	--	--	<b>2,200</b>	--	<b>9.2</b>	--	--	--	--	--	--
TMW-4	10/03/13	0.00 d	<b>16</b>	<b>410</b>	<b>17</b>	<0.50 *	<b>2,800</b>	<0.10	<b>4.7</b>	--	--	<b>0.130</b>	<b>0.120</b>	<b>0.290</b>	<b>1.300</b>
TMW-4	01/22/14	0.00 d	--	--	--	--	<b>2,800</b>	<0.10	<b>6.0</b>	--	--	<b>0.210</b>	<b>0.070</b>	<b>0.400</b>	<b>0.990</b>
TMW-4	04/24/14	0.00 d	--	--	--	<0.25	<b>1,400</b>	<0.10	<b>4.0</b>	--	--	<b>0.160</b>	<b>0.044</b>	<b>0.390</b>	<b>0.840</b>
TMW-4	07/14/14		<b>8</b>	<b>130</b>	<b>130</b>	--	<b>940</b>	<0.10	<b>5.6</b>	--	--	<b>0.190</b>	<b>0.016</b>	<b>0.380</b>	<b>0.350</b>
TMW-4	03/18/15	0.08	<b>7.5</b>	--	--	<0.25	<b>410</b>	<0.10	<b>7.5</b>	--	--	<b>0.210</b>	<b>0.019</b>	<b>0.530</b>	<b>0.380</b>
TMW-5	06/21/13	0.98 d	--	--	--	<0.25 *	<b>4.3</b>	<0.10	<b>1.3</b>	<b>0.65</b>	--	<b>0.100</b>	<b>0.0097</b>	<b>0.022</b>	<b>0.020</b>
TMW-5	07/30/13	4.60	<b>7.6</b>	<b>11</b>	<0.30	<0.25	<b>0.67</b>	<b>0.25</b>	<b>4.3</b>	--	--	--	--	--	--
TMW-5	08/26/13		--	--	--	--	<b>980</b>	--	<b>4.2</b>	--	--	--	--	--	--
TMW-5	10/03/13	0.00 d	<b>5.6</b>	<b>39</b>	<b>16</b>	<0.50 *	<b>2,500</b>	<b>0.10</b>	<b>1.9</b>	--	--	<b>0.044</b>	<b>0.0063</b>	<b>0.0038</b>	<b>0.0088</b>
TMW-5	01/22/14	0.00 d	--	--	--	--	<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-5	04/24/14	0.00 d	--	--	--	<0.25	<b>4,000</b>	<0.10	<b>1.4</b>	--	--	<0.0015 v	<b>0.0026</b>	<b>0.0017</b>	<b>0.0021</b>
TMW-5	07/14/14		<b>2</b>	<b>8</b>	<b>1</b>	--	<b>1,300</b>	<0.10	<b>1.4</b>	--	--	<b>0.01</b>	<b>0.0016</b>	<0.00050	<b>0.0006</b>
TMW-5	03/18/15	0.04	<b>8.9</b>	--	--	<0.25	<b>700</b>	<b>0.20</b>	<b>3.0</b>	--	--	<b>0.046</b>	<b>0.0069</b>	<b>0.016</b>	<b>0.016</b>
TMW-6	06/24/13	0.41 d	--	--	--	<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	5.00	<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	0.00 d	<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	0.00 d	--	--	--	--	<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>
TMW-6	04/24/14	0.00 d	--	--	--	<0.25	<b>1,800</b>	<0.10	<b>5.1</b>	--	--	<b>0.015</b>	<b>0.0036</b>	<b>0.190</b>	<b>0.370</b>
TMW-6	07/14/14		<b>7</b>	<b>100</b>	<b>98</b>	--	<b>1,600</b>	<0.10	<b>3.9</b>	--	--	<b>0.064</b>	<b>0.0047</b>	<b>0.160</b>	<b>0.210</b>
TMW-6	03/18/15	0.09	<b>0.54</b>	--	--	<0.25	<b>1,000</b>	<0.10	<b>5.0</b>	--	--	<b>0.0030</b>	<b>0.0028</b>	<b>0.150</b>	<b>0.120</b>

Notes appear on the following page

## Table 4

### Performance Monitoring Parameters

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



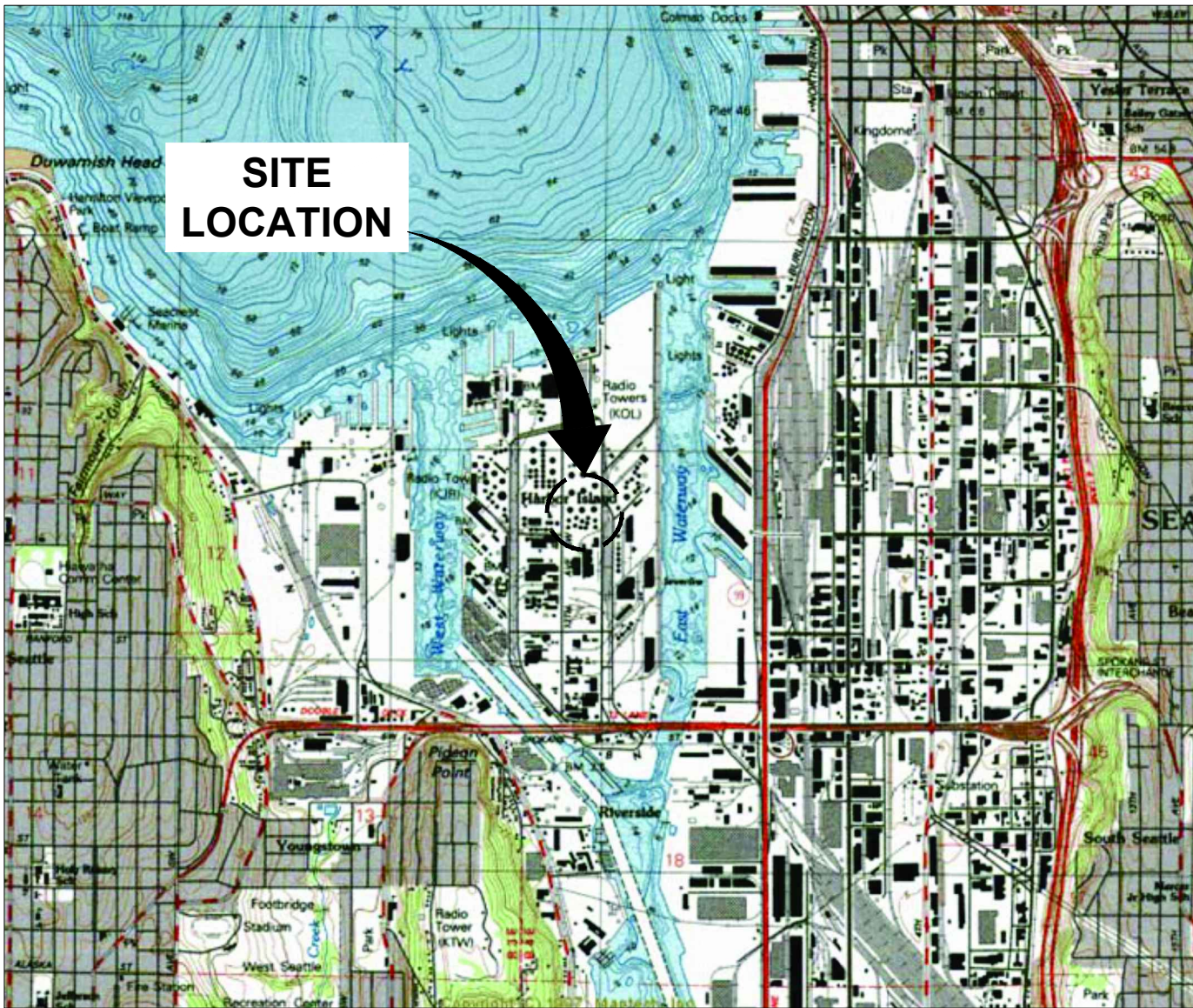
Sample ID	Date	Dissolved Oxygen	Methane (Head Space)	Total Iron	Dissolved Iron	Nitrate	Sulfate	Sulfide	GRO	DRO	HO	Benzene	Toluene	Ethylbenzene	Xylenes
Site Specific Cleanup Levels:		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
			N/A	N/A	N/A	N/A	N/A	N/A	1.0	10	10	0.071	200	29	N/A

Notes: < = Denotes compound was not detected at designated detection limit.  
**Bold** = Concentration detected above the laboratory reporting limit.  
 mg/l = Milligrams per liter (parts per million)  
 -- = Not analyzed for this parameter  
 \* = The lab analyzed nitrate using sulfuric acid preserved samples. Concentration may be biased high due to possible oxidation of nitrite to nitrate.  
 o = Reporting limit increased due to sample foaming  
 v = Reporting limit increased due to high concentration of target analytes  
 Total Petroleum Hydrocarbons as gasoline-range organics (GRO) - Analysis by Washington Method WTPH-G prior to 5/20/98; analysis by Northwest Method NWTPH-Gx from 5/20/98 through present.  
 Total Petroleum Hydrocarbons as diesel-range organics (DRO) and heavy oil-range organics (TPH-HO) - Analysis by Washington Method WTPH-D+ extended prior to 5/20/98; analysis by Northwest Method NWTPH-Dx from 5/20/98 through present.

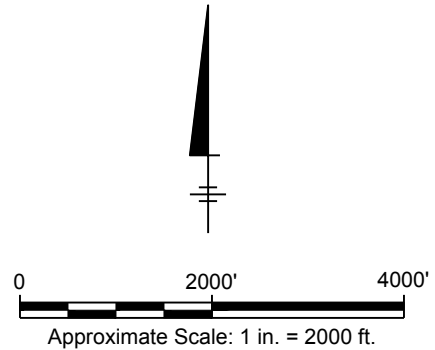


## Figures

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XREFS: IMAGES: PROJECTNAME: ---  
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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 SEMIANNUAL 2015  
GROUNDWATER MONITORING REPORT**








**SITE LOCATION MAP**

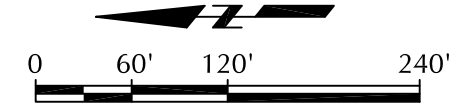
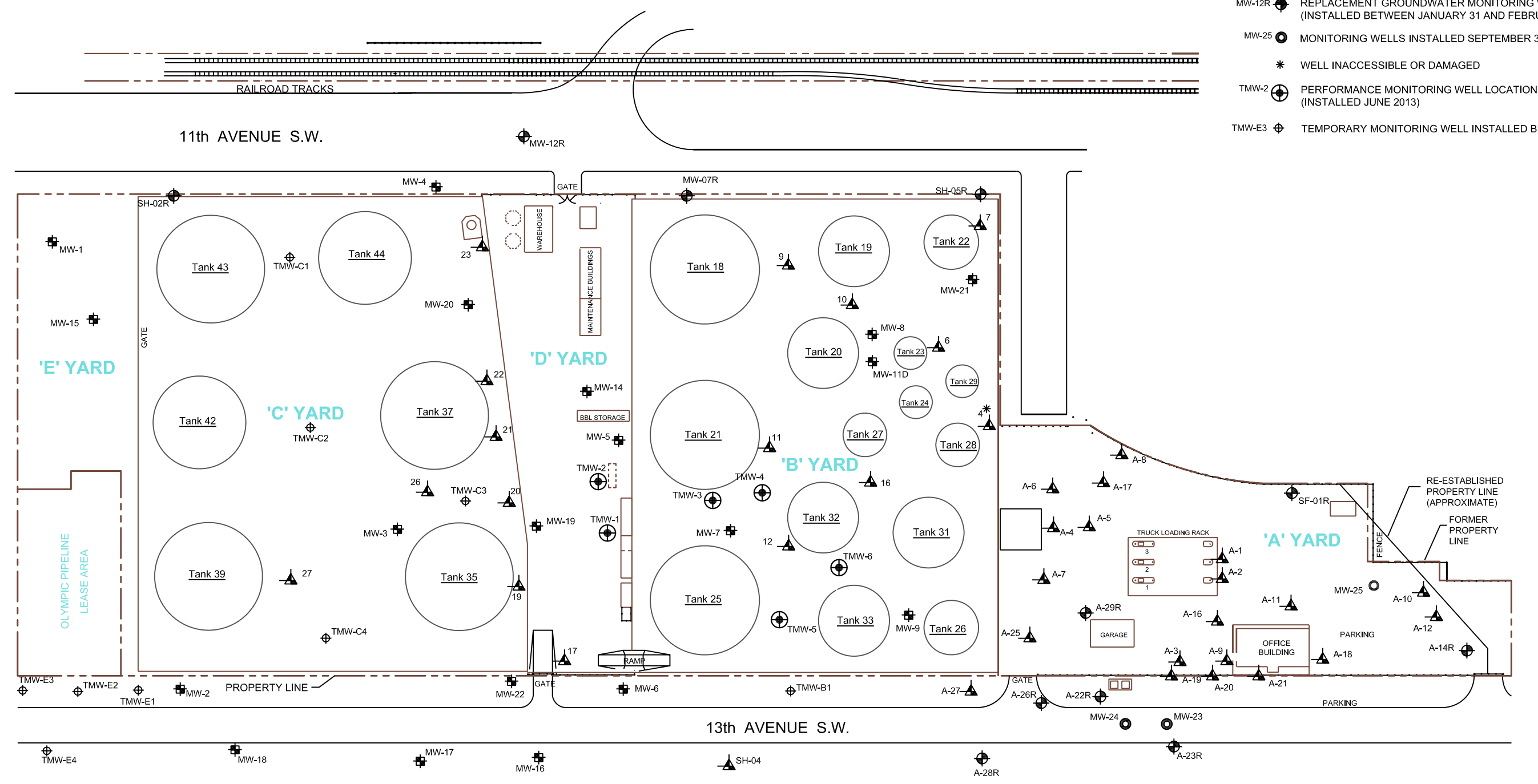


FIGURE  
**1**

CITY:\Recd\DIV\GROUP\Recd\DR\Recd\LD\Opt\PIC\Opt\PN\Recd\TM\Recd\TM\Opt\LYR\Opt\OFF\REF\G:\ENVCAD\Emery\file\ACT\1\WA000904\2015\0000\11st\Sem\Ann\2015\DWG\WA000904\B02.dwg LAYOUT: 2. SAVED: 4/16/2015 3:04 PM ACADVER: 18.1S (LMS TECH) PAGES: 18. PLOTTED: 4/23/2015 11:07 AM BY: REYES, ALEC

**LEGEND**

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



KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
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









**SITE PLAN**

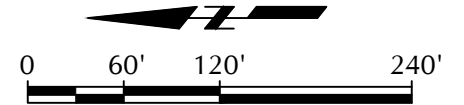
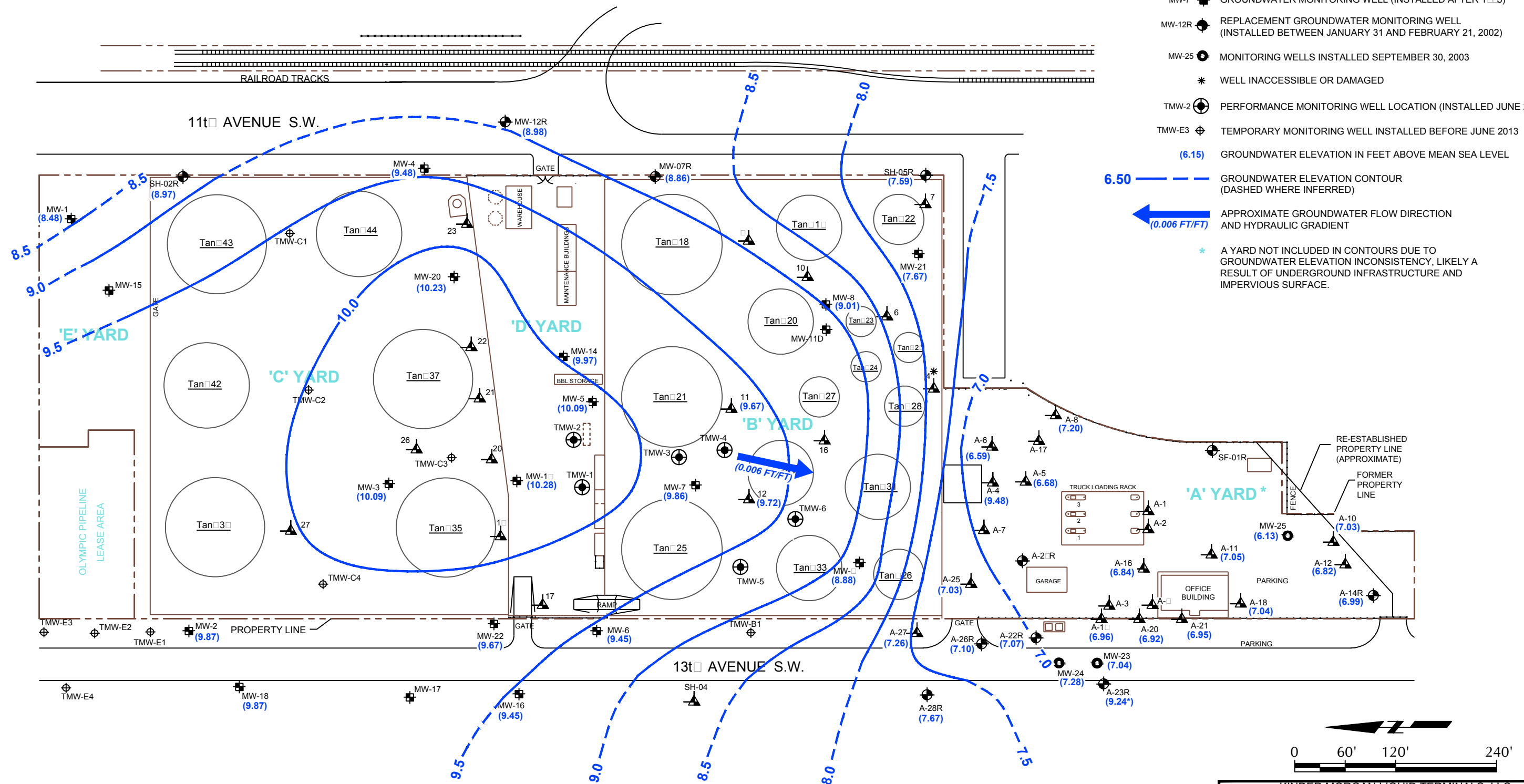


FIGURE  
**2**

CITY: EMERYVILLE, CA DIV: GROUP: ENV: CAD DB: A. REYES, J. HARRIS  
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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
- \*  WELL INACCESSIBLE OR DAMAGED
- TMW-2  PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
- TMW-E3  TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
- (6.15)  GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 6.50  GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
-  APPROXIMATE GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT
- \*  A YARD NOT INCLUDED IN CONTOURS DUE TO GROUNDWATER ELEVATION INCONSISTENCY, LIKELY A RESULT OF UNDERGROUND INFRASTRUCTURE AND IMPERVIOUS SURFACE.




KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
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---

**GROUNDWATER ELEVATION CONTOURS**  
**MARCH 17, 2015**

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 **ARCADIS**

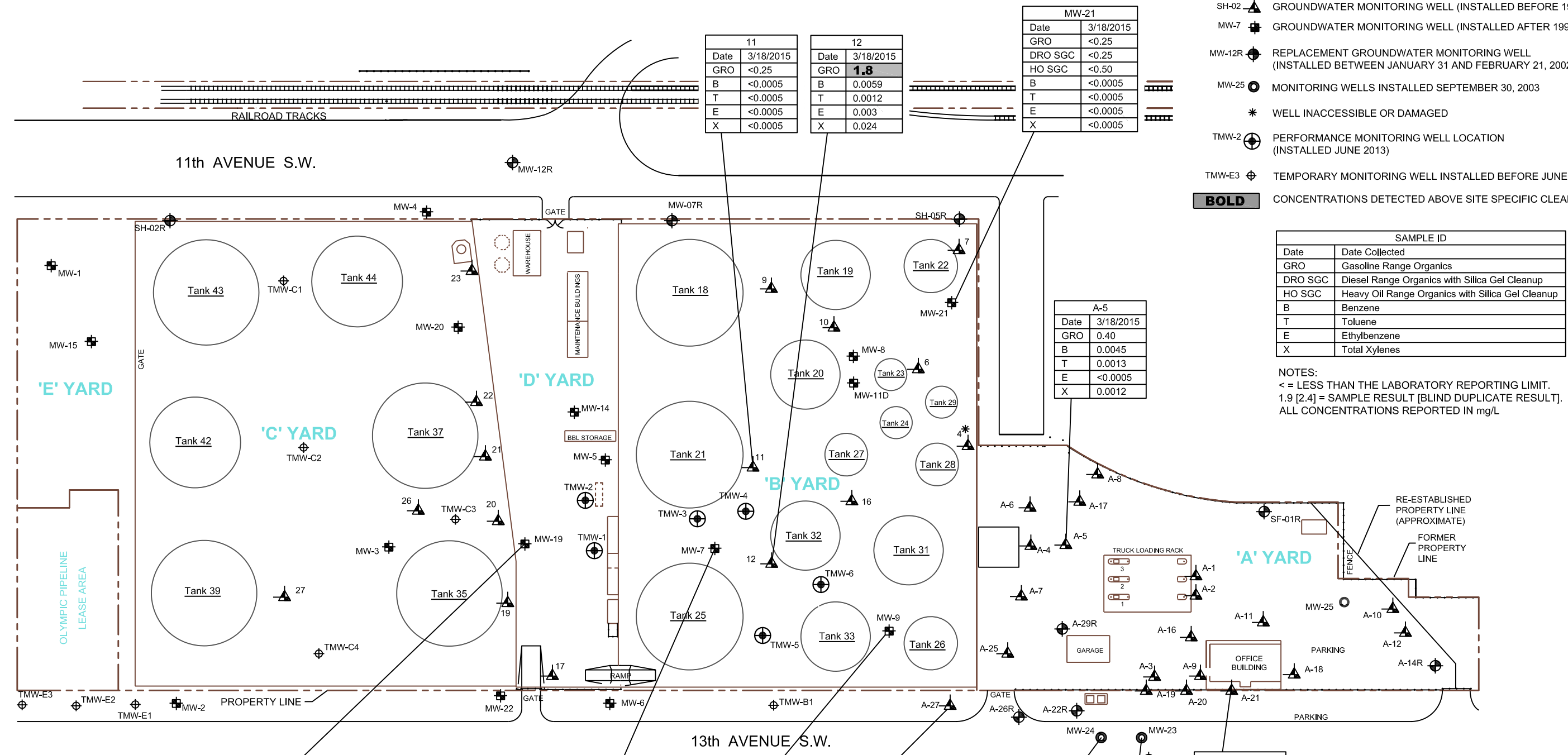
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**LEGEND**

- 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
- \* WELL INACCESSIBLE OR DAMAGED
- 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 Collected
GRO	Gasoline Range Organics
DRO SGC	Diesel Range Organics with Silica Gel Cleanup
HO SGC	Heavy Oil Range Organics with Silica Gel Cleanup
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes

NOTES:  
 < = LESS THAN THE LABORATORY REPORTING LIMIT.  
 1.9 [2.4] = SAMPLE RESULT [BLIND DUPLICATE RESULT].  
 ALL CONCENTRATIONS REPORTED IN mg/L



11	
Date	3/18/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

12	
Date	3/18/2015
GRO	<b>1.8</b>
B	0.0059
T	0.0012
E	0.003
X	0.024

MW-21	
Date	3/18/2015
GRO	<0.25
DRO SGC	<0.25
HO SGC	<0.50
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

A-5	
Date	3/18/2015
GRO	0.40
B	0.0045
T	0.0013
E	<0.0005
X	0.0012

MW-18	
Date	3/18/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

MW-19	
Date	3/18/2015
GRO	<b>4.3</b>
B	0.0049
T	0.014
E	0.14
X	0.18

MW-7	
Date	3/17/2015
GRO	<b>1.6 [2.1]</b>
B	0.0043 [0.0059]
T	0.0061 [0.0078]
E	0.050 [0.068]
X	0.13 [0.17]

MW-9	
Date	3/18/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

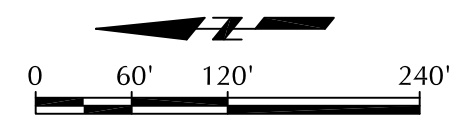
A-27	
Date	3/18/2015
GRO	<b>2.3</b>
B	<b>0.072</b>
T	0.0019
E	0.072
X	0.010

A-28R	
Date	3/18/2015
GRO	<b>3.0</b>
B	0.042
T	0.0035
E	0.016
X	0.0055

MW-24	
Date	3/18/2015
GRO	<b>28</b>
B	<b>1.4</b>
T	0.066
E	1.8
X	2.6

MW-23	
Date	3/18/2015
GRO	<b>2.1 [1.4]</b>
B	0.056 [0.045]
T	0.0013 [0.0011]
E	0.028 [0.024]
X	0.0039 [0.0029]

A-21	
Date	3/18/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005



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

**FIRST SEMIANNUAL 2015**  
**GROUNDWATER ANALYTICAL RESULTS**



CITY:(Recd) DIV:(GROUP):(Recd) DB:(Recd) LD:(Opt) PIC:(Opt) PNR:(Recd) TMI:(Opt) LTR:(Opt)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
- \* 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 Collected
GRO	Gasoline Range Organics
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes

**NOTES:**  
 < = LESS THAN THE LABORATORY REPORTING LIMIT  
 1.9 [2.4] = SAMPLE RESULT [BLIND DUPLICATE RESULT]  
 ALL CONCENTRATIONS REPORTED IN mg/L

MW-19	
Date	3/18/2015
GRO	<b>4.3</b>
B	0.0049
T	0.014
E	0.14
X	0.18

TMW-2	
Date	3/17/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

12	
Date	3/18/2015
GRO	1.8
B	0.0059
T	0.0012
E	0.003
X	0.024

11	
Date	3/18/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

TMW-5	
Date	3/18/2015
GRO	<b>3.0</b>
B	0.046
T	0.0069
E	0.016
X	0.016

TMW-6	
Date	3/18/2015
GRO	<b>5.0</b>
B	0.003
T	0.0028
E	0.15
X	0.12

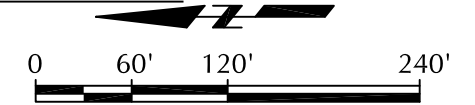
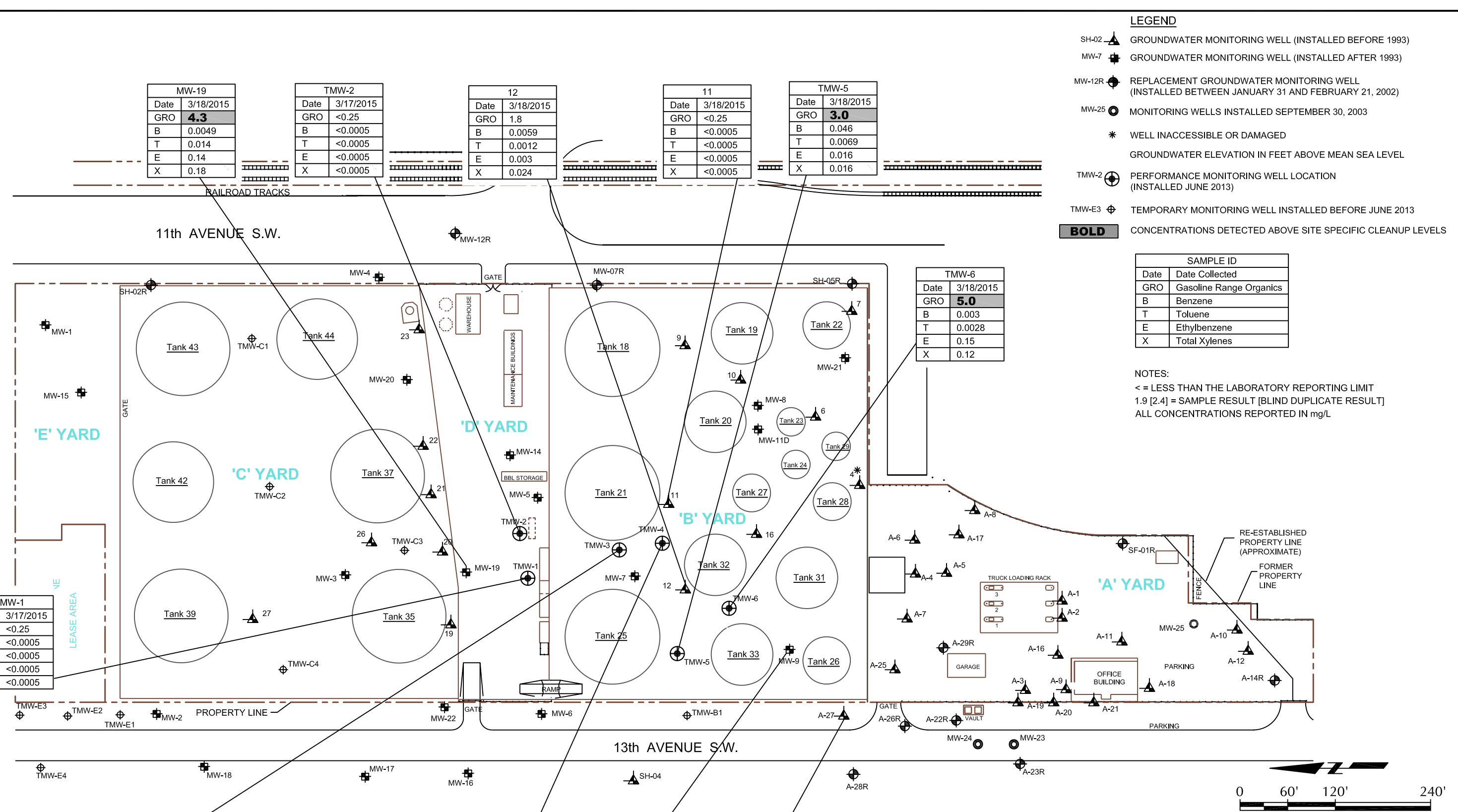
TMW-1	
Date	3/17/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

TMW-3	
Date	3/18/2015
GRO	0.62
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

TMW-4	
Date	3/18/2015
GRO	<b>7.5</b>
B	<b>0.21</b>
T	0.019
E	0.53
X	0.38

MW-9	
Date	3/18/2015
GRO	<0.25
B	<0.0005
T	<0.0005
E	<0.0005
X	<0.0005

A-27	
Date	3/18/2015
GRO	<b>2.3</b>
B	<b>0.072</b>
T	0.0019
E	0.072
X	0.01

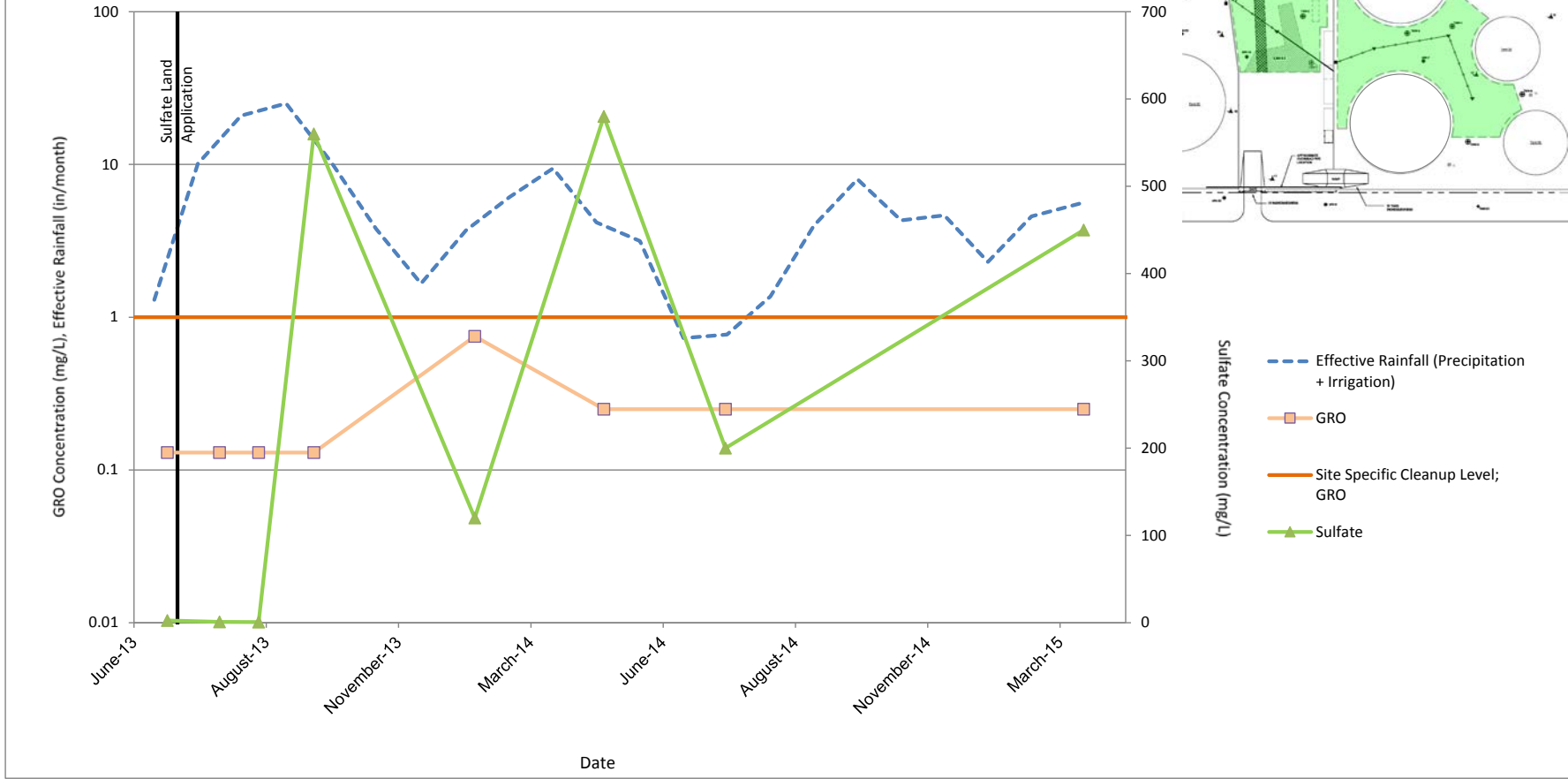


KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
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**FIRST QUARTER 2015 PERFORMANCE**  
**MONITORING GROUNDWATER**  
**ANALYTICAL RESULTS**



## Graphs

Well 11 Performance Monitoring Parameters




KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
 First Semiannual 2015 Groundwater Monitoring Report

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**11 CONSTITUENT TREND GRAPHS**

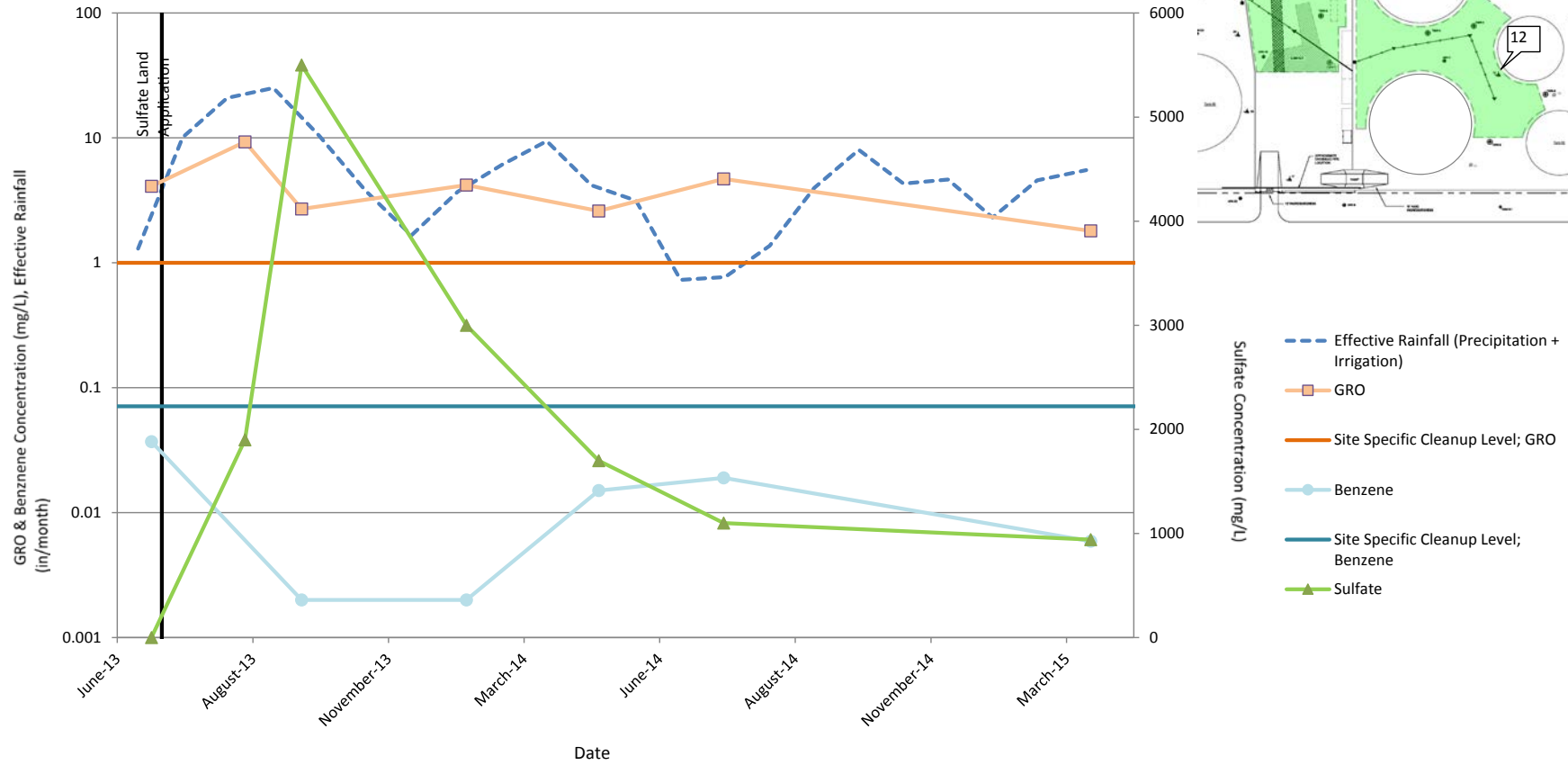
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GRAPH  
**1**



Well 12 Performance Monitoring Parameters



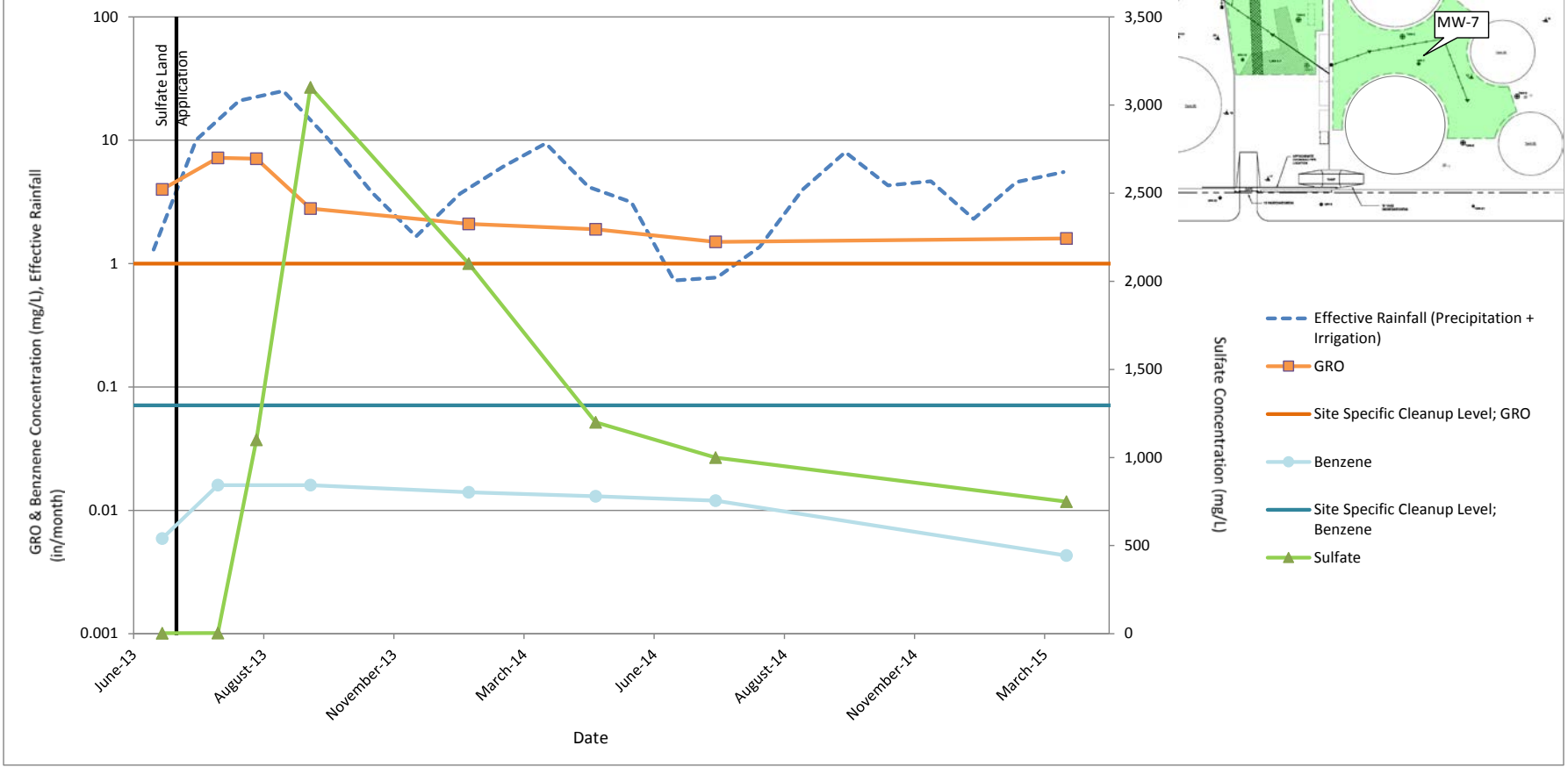
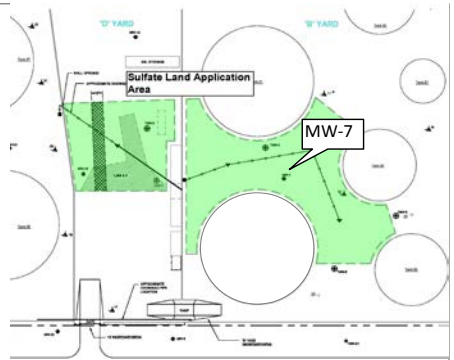
KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
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12 CONSTITUENT TREND GRAPHS



GRAPH

Well MW-7 Performance Monitoring Parameters




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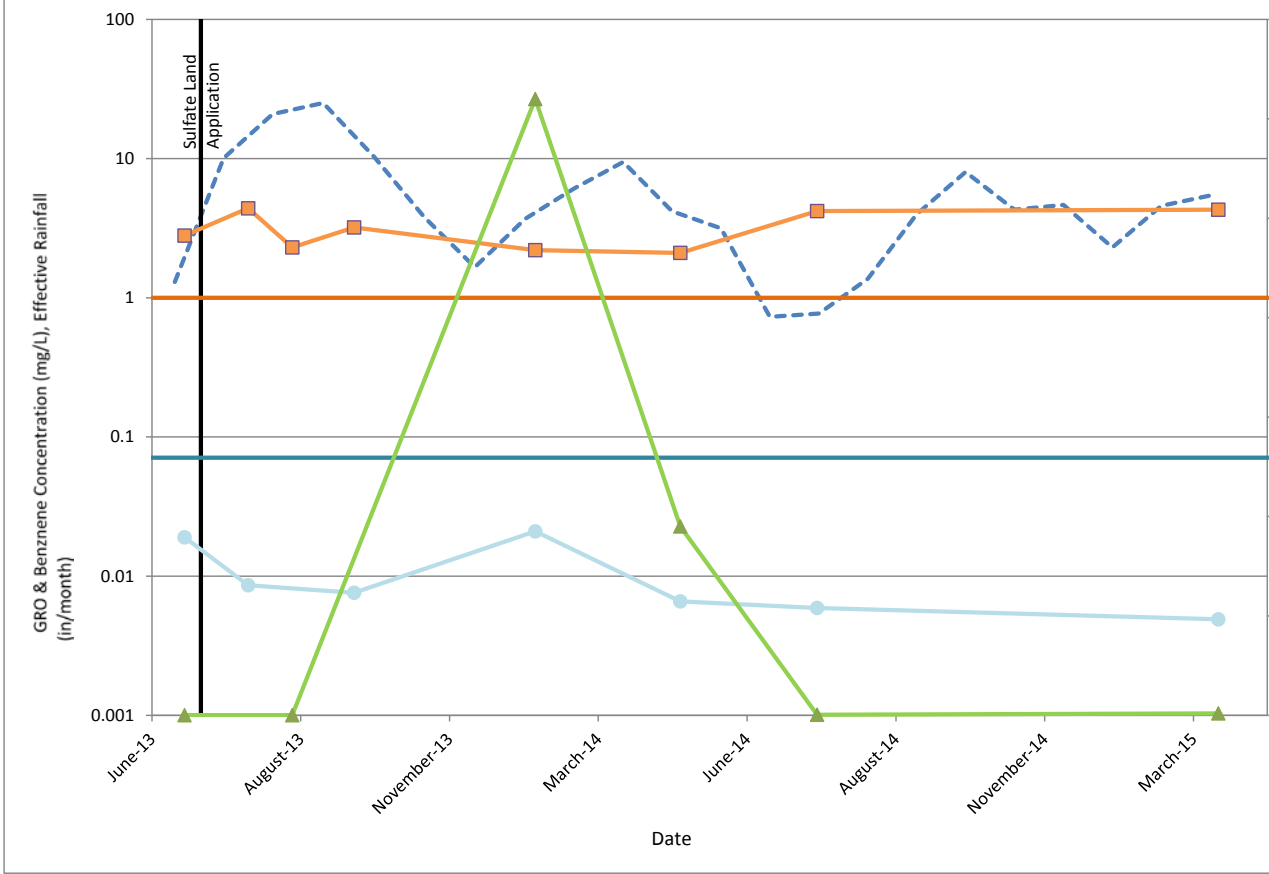
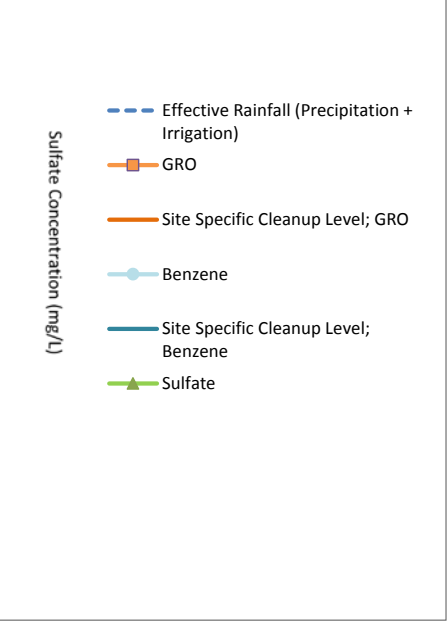
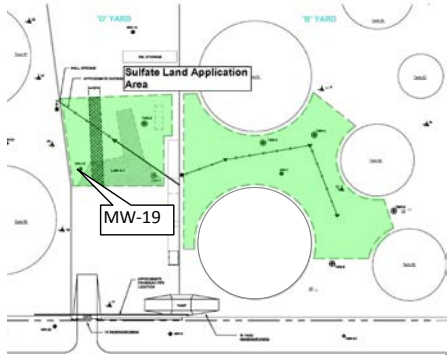
**MW-7 CONSTITUENT TREND GRAPHS**

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GRAPH  
3

Well MW-19 Performance Monitoring Parameters




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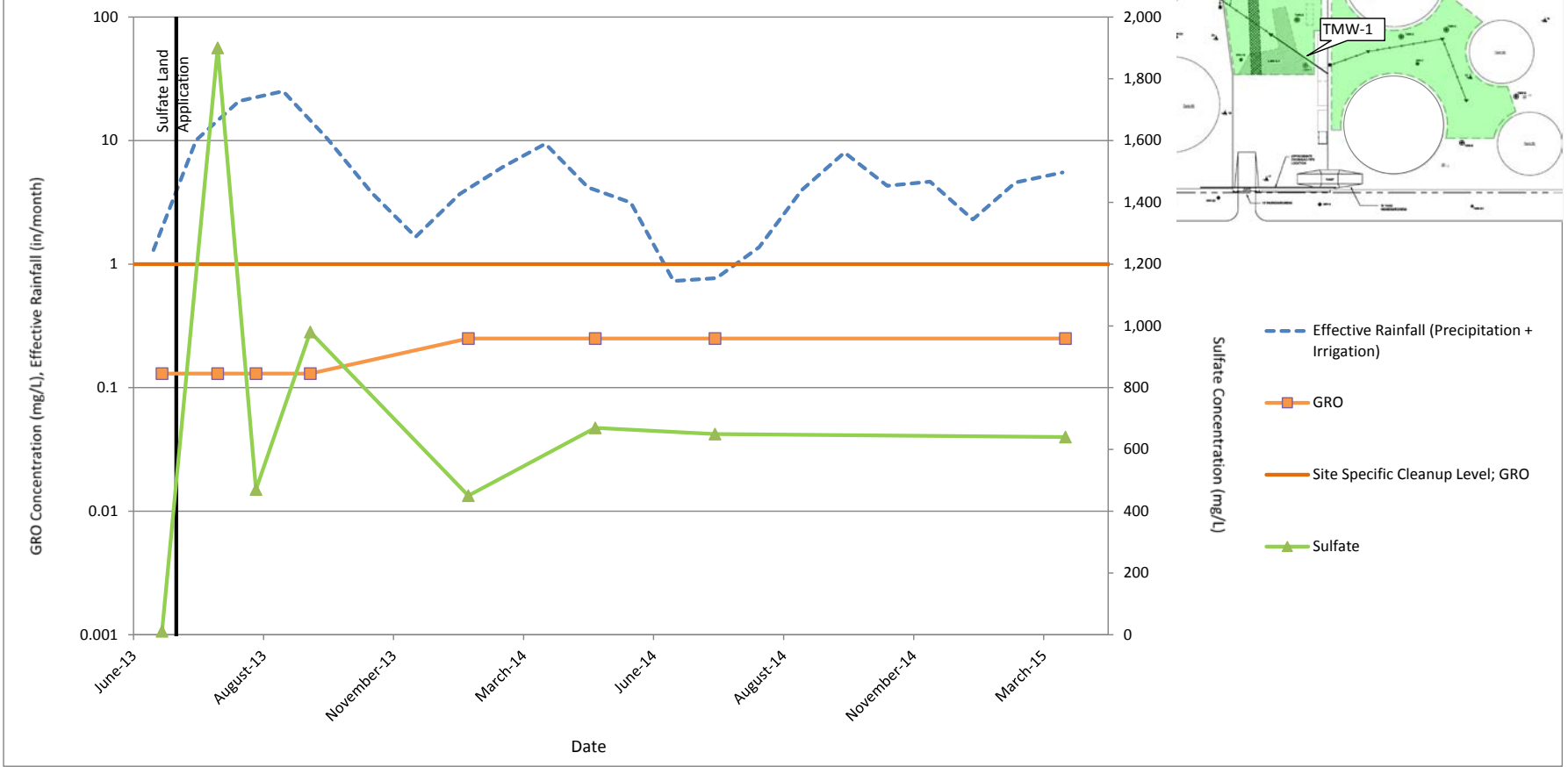
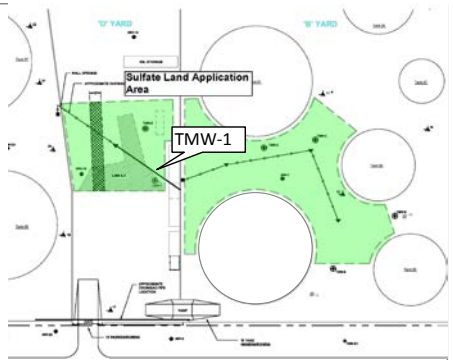
**MW-19 CONSTITUENT TREND GRAPHS**

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GRAPH  
4

Well TMW-1 Performance Monitoring Parameters




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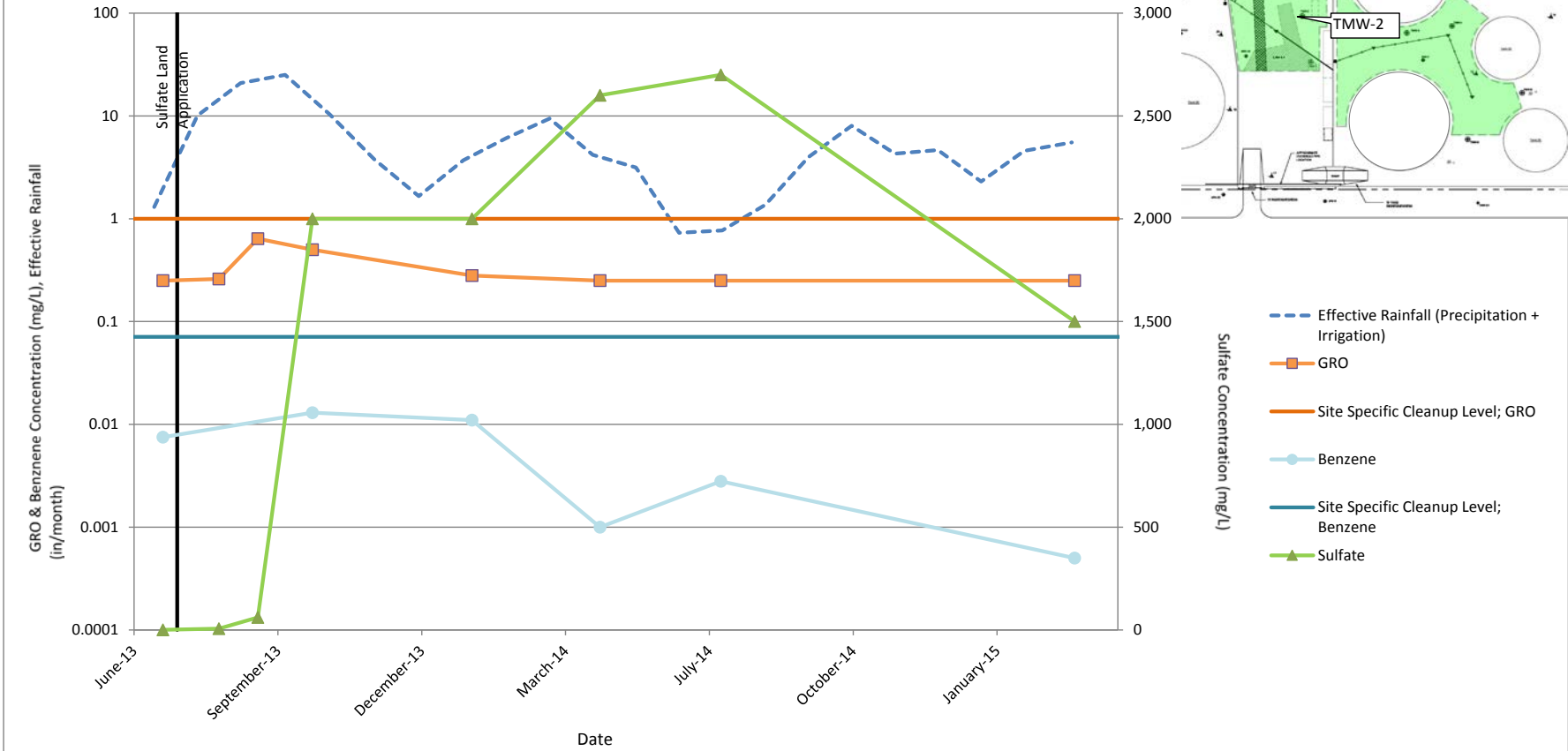
**TMW-1 CONSTITUENT TREND GRAPHS**

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GRAPH  
5

Well TMW-2 Performance Monitoring Parameters



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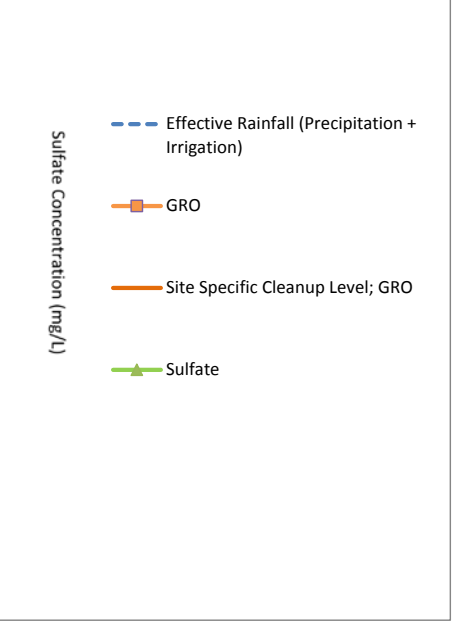
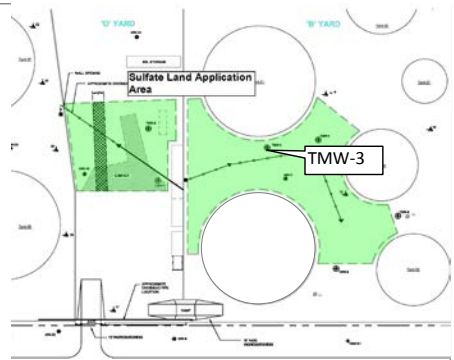
TMW-2 CONSTITUENT TREND GRAPHS



GRAPH

6

Well TMW-3 Performance Monitoring Parameters



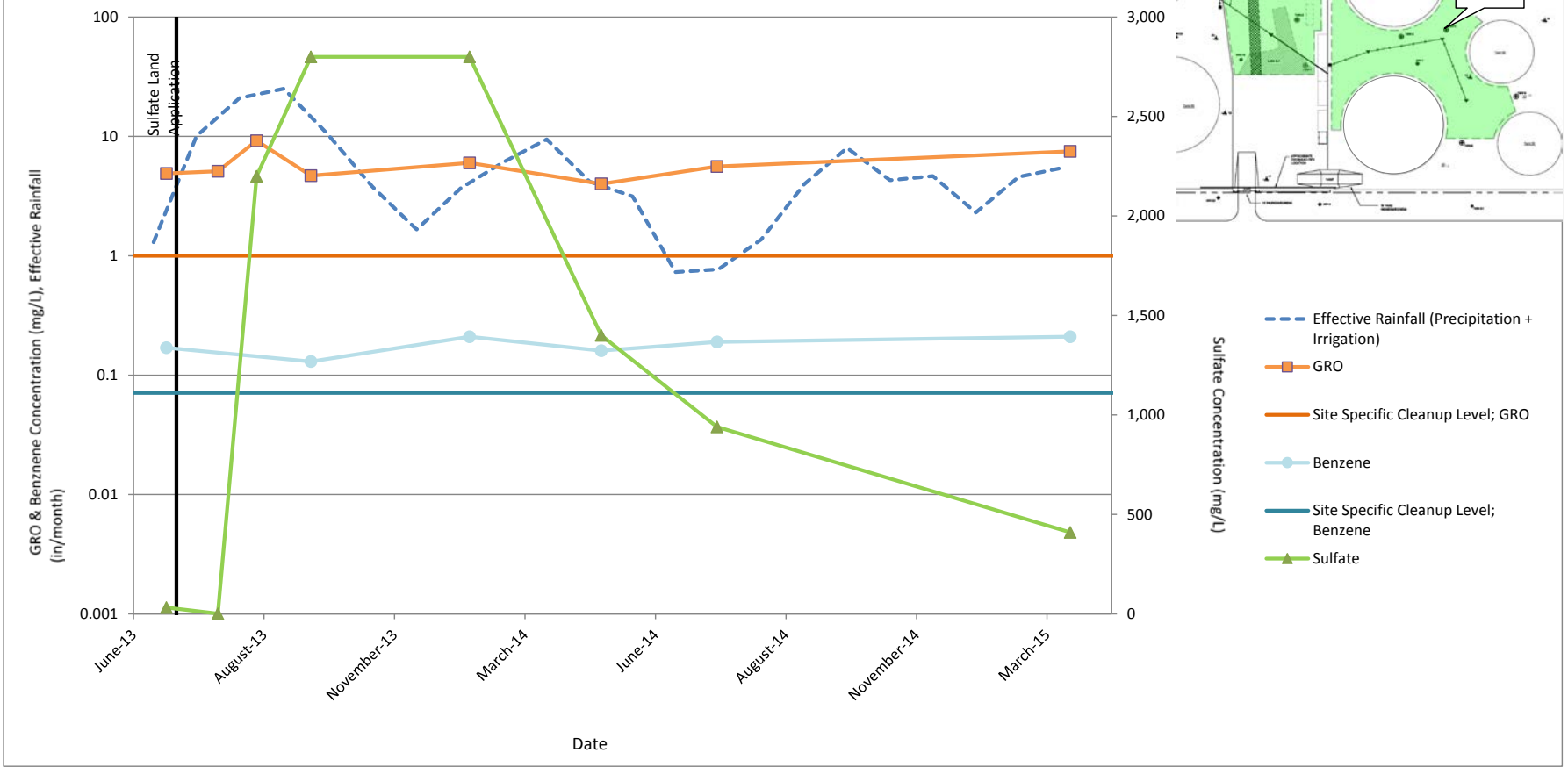
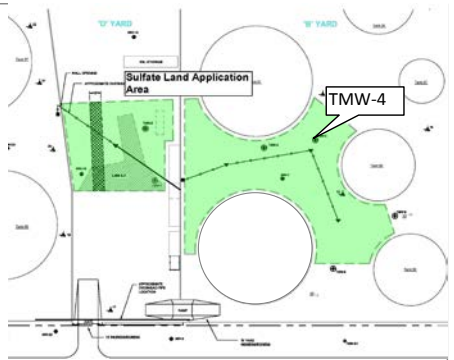
KINDER MORGAN LIQUID TERMINALS, LLC  
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TMW-3 CONSTITUENT TREND GRAPHS



GRAPH

Well TMW-4 Performance Monitoring Parameters




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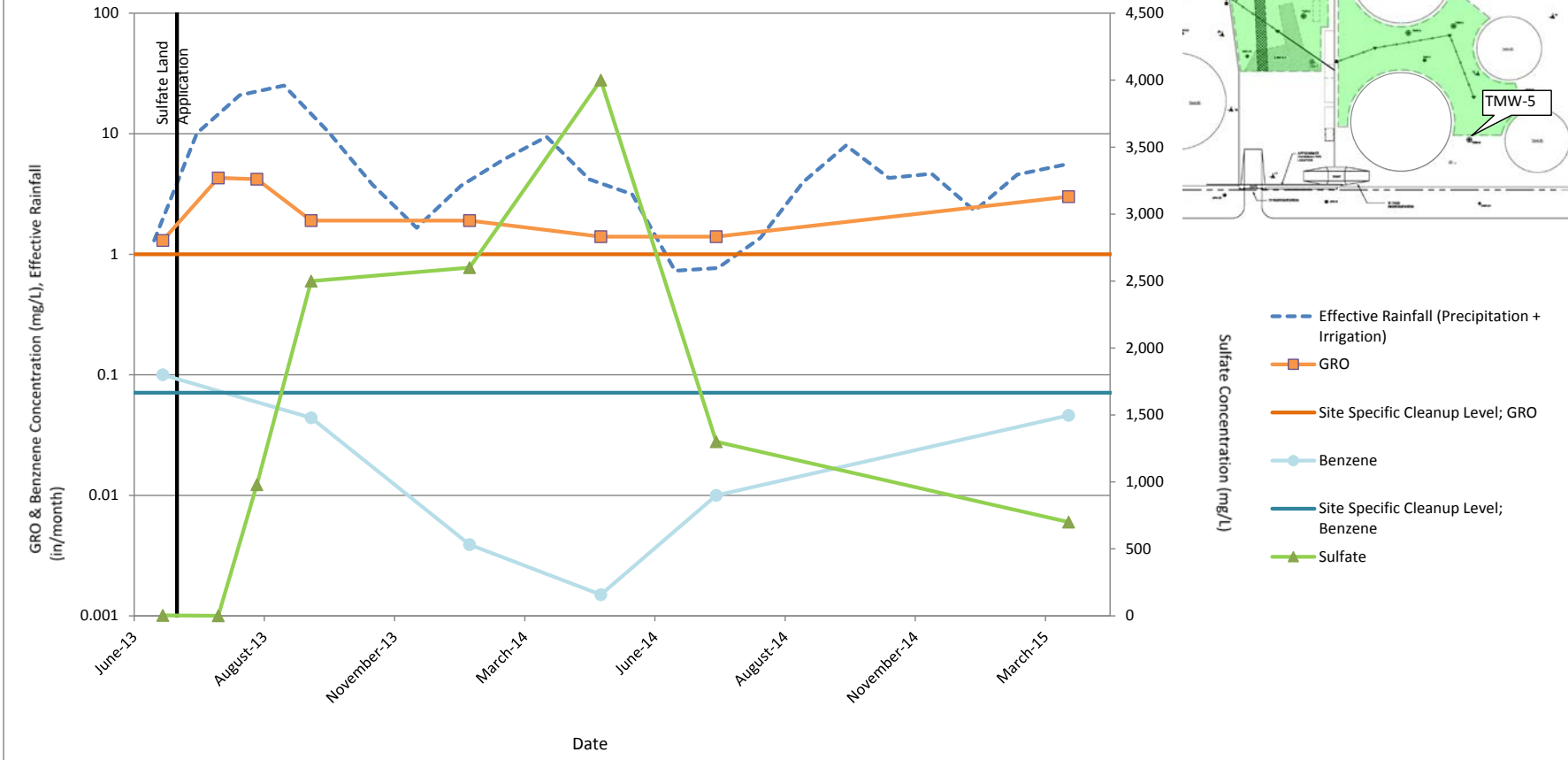
**TMW-4 CONSTITUENT TREND GRAPHS**

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GRAPH  
8

Well TMW-5 Performance Monitoring Parameters



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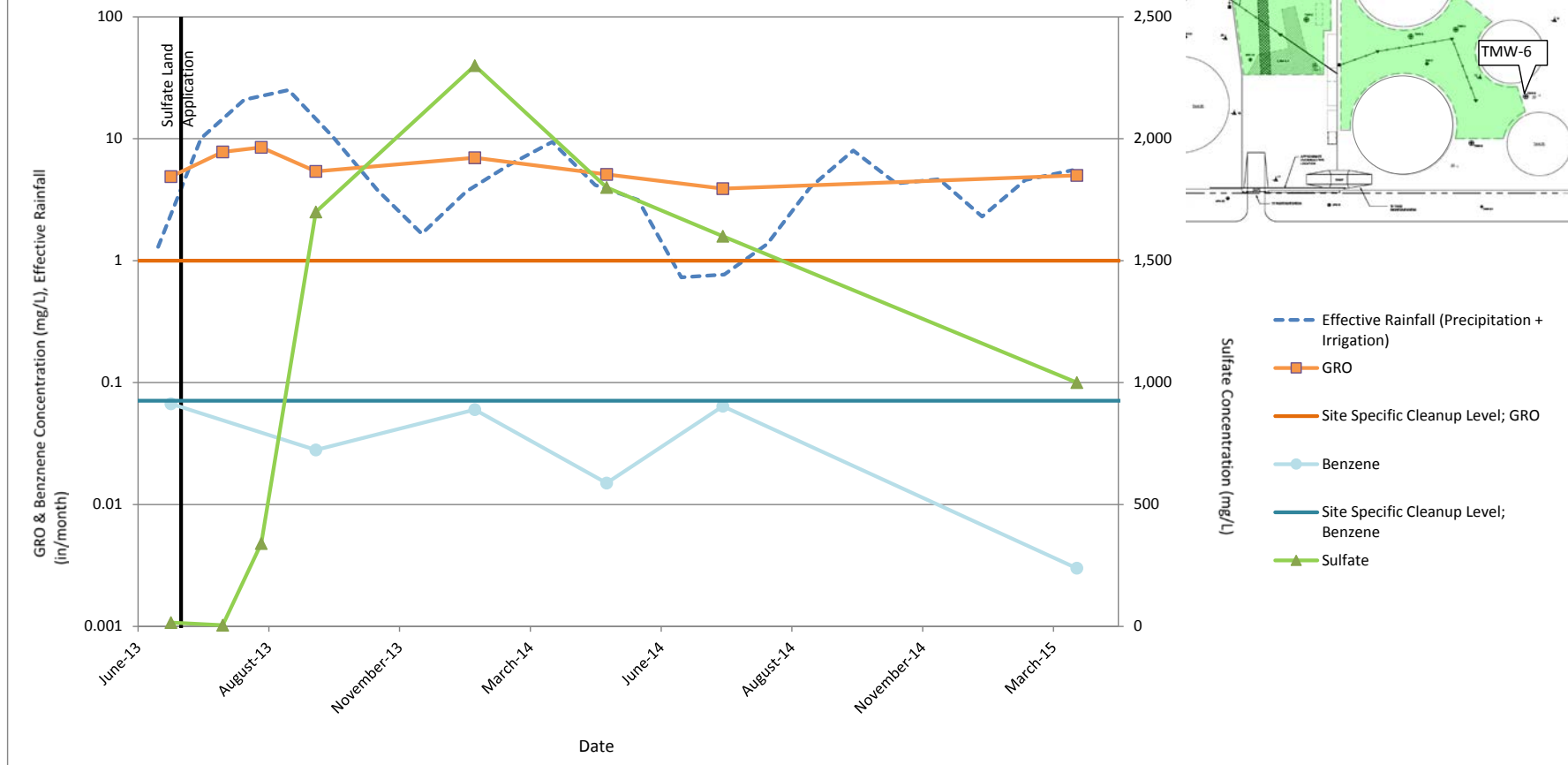
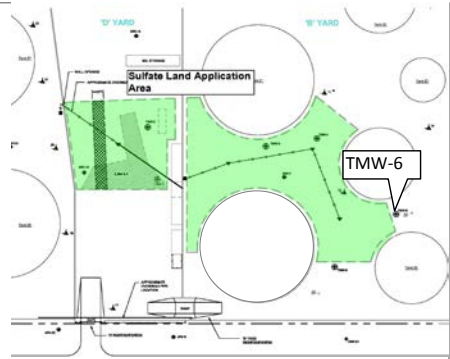
TMW-5 CONSTITUENT TREND GRAPHS



GRAPH



Well TMW-6 Performance Monitoring Parameters



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TMW-6 CONSTITUENT TREND GRAPHS



GRAPH

10



**Attachment A**

*Site Wide Groundwater Compliance -  
Proposed Reduced Monitoring  
Monitoring Plan*

*Technical Revision Request*

*Ecology Approval Letter*

*Revised Site Groundwater Monitoring  
Plan*

*Ecology Approval Emails*

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.

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>NA</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>NA</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,b</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



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.

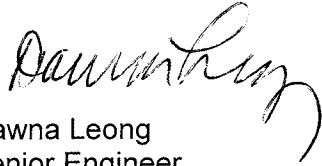
Groundwater samples will be collected after specific conductance and dissolved oxygen measurements are within 10 percent for 3 consecutive readings.

#### Sample Collection

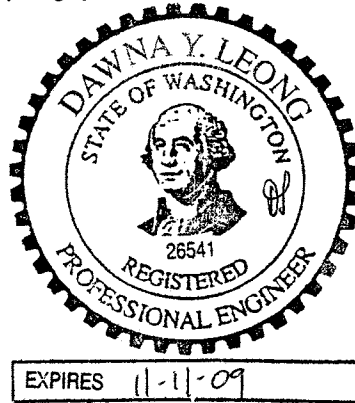
Following purging, samples will be collected for laboratory analyses. Samples will be pumped directly into laboratory-supplied sample containers, and each sample bottle will be labeled with the sample identification number, the sample date, the facility name, and the name of the technician who performed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





Ms. Maura O'Brien  
Washington State Department of Ecology  
Northwest Regional Office  
3190 – 160<sup>th</sup> Avenue SE  
Bellevue, WA 98008-5452

Subject:

**Revised Site Groundwater Monitoring Plan**

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

Dear Ms. O'Brien:

On behalf of Kinder Morgan Liquids Terminal, LLC (KMLT), ARCADIS US, Inc (ARCADIS) is pleased to submit this Revised Site Groundwater Monitoring Plan (Plan) for the KMLT Harbor Island Terminal located at 2720 13<sup>th</sup> Avenue Southwest in Seattle, Washington (site). The purpose of this Plan is to request and provide justification to support the reduction of groundwater sampling frequency at the site for the compliance and performance monitoring programs.

Reduced frequency of groundwater monitoring at the site is warranted due to:

- Quarterly groundwater quality data has been collected at the site since 2002
- Current groundwater conditions onsite are stable and not migrating offsite
- There have been no product releases reported at the site since 2010
- SPH has only been observed in one monitoring well (A-6) in the last 9 quarterly monitoring events.

Cleanup activities at the site are being conducted under a Consent Decree (CD) number 00-2-07760-2SEA between Washington State Department of Ecology (Ecology) and GATX Terminals Corporation (GATX) executed on April 4, 2000. KMLT assumed the obligations of the CD with the purchase of GATX Harbor Island Terminal in 2001. Compliance groundwater monitoring and sampling is currently

ARCADIS U.S., Inc.  
1100 Olive Way  
Suite 800  
Seattle  
Washington 98101  
Tel 206.325.5254  
Fax 206.325.8218  
[www.arcadis-us.com](http://www.arcadis-us.com)

ENVIRONMENT

Date:  
May 20, 2014

Contact:  
Matt Annis

Phone:  
206.726.4716

Email:  
[matt.annis@arcadis-us.com](mailto:matt.annis@arcadis-us.com)

Our ref:  
WA000804.2014

performed in accordance with the *Proposed Reduced Monitoring-Site-Wide Groundwater Compliance Monitoring Plan* (Reduced Monitoring Plan [Delta Consultants Inc. (Delta) 2007]). Additionally, low-flow groundwater sampling techniques are used in accordance with the Technical Revision Request (Delta 2008).

In addition, performance monitoring groundwater samples are collected in accordance with the letter Response to Comments - *B and D Yards Groundwater Remediation Engineering Design Report* dated December 12, 2012 (ARCADIS 2012) to evaluate the overall effectiveness of the sulfate land application.

### **Contaminants of Concern and Cleanup Levels**

The approved Reduced Monitoring Plan (Delta 2007) outlines site-specific contaminants of concern (COCs) and applicable cleanup levels for groundwater. These site-specific COCs and their cleanup levels are as follows:

- Total Petroleum Hydrocarbons as Gasoline Range Organics at 1.0 milligrams per liter (mg/L)
- Total Petroleum Hydrocarbons as Diesel Range Organics at 10 mg/L
- Total Petroleum Hydrocarbons as Heavy Oil at 10 mg/L
- Benzene at 0.071 mg/L
- Toluene at 200 mg/L
- Ethylbenzene at 29 mg/L
- Total Lead at 0.0058 mg/L
- No Product Sheen

## Current Groundwater Monitoring Plan

### Compliance Monitoring

In accordance with the Reduced Monitoring Plan (Delta 2007) and Technical Revision Request (Delta 2008), the current groundwater compliance plan schedule is presented in Table 1 and Figure 2.

### Performance Monitoring

In accordance with the Response to Comments - *B and D Yards Groundwater Remediation Engineering Design Report* dated December 12, 2012 (ARCADIS 2012), the current groundwater performance plan schedule is presented in Table 1.

## Proposed Groundwater Monitoring Plan

The section below summarizes the proposed changes to the current groundwater monitoring plan. Groundwater gauging and sample collection protocols and procedures will continue to be implemented in accordance with the Ecology-approved plans mentioned above.

### Compliance Monitoring

This proposed groundwater monitoring plan was prepared with consideration for the requirements of the Model Toxics Control Act (MTCA) regulations and requirements from Exhibit F of the CD. The achievement of cleanup levels in groundwater is measured at points of performance and compliance located within the hydrocarbon plume area and at the edges of the site in accordance with section 1.2 in Exhibit F of the CD. Points of compliance will not be altered for this plan and consist of the 44 wells presented in Table 2. Hydrograph and COC trend graphs for monitoring wells MW-7, MW-9, MW-14, and MW-19 are presented in Attachment A. The graphs are representative of the compliance points and indicate stable or decreasing groundwater conditions.

Future compliance groundwater monitoring events are proposed to be conducted on a semi-annual basis until the site has achieved compliance with the applicable cleanup levels. The proposed compliance groundwater monitoring plan is summarized in Table 2 and presented in Figure 3.

**Proposed Performance Groundwater Monitoring Plan**

In accordance with the Response to Comments letter dated December 20, 2012 and the KMLT *Remedial Action Report – B and D Yards* (RAP) [ARCADIS 2013]), the current groundwater performance monitoring plan will be conducted quarterly through third quarter 2014.

After the completion of the third quarter 2014 monitoring event KMLT proposes to alter the performance monitoring schedule to semi-annual monitoring which will be conducted concurrently with compliance monitoring activities. The proposed performance groundwater monitoring plan is summarized in Table 2 and presented in Figure 4.

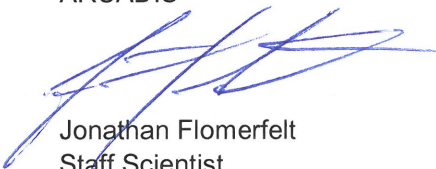
**Schedule**

The proposed Plan would be initiated during the third quarter 2014 sampling event upon Ecology approval; annual sampling will be conducted in the third quarter of each year.


If you have any questions or comments, please contact Matt Annis at 206.726.4716 or by email at [matt.annis@arcadis-us.com](mailto:matt.annis@arcadis-us.com).

Sincerely,

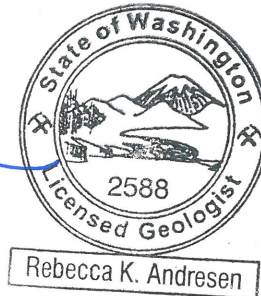
ARCADIS



Jonathan Flomerfelt  
Staff Scientist



Rebecca Andresen, L.G.  
Associate Vice President



Copies:

- Mr. Dave Rowland, KMLT, Seattle (CD Copy)
- Mr. Robert Truedinger, c/o Stephanie Randall, KMLT, Orange, CA (CD copy)
- Stephanie Randall, KMLT, Orange, CA (File Copy)

**Tables**

Table 1	Current Groundwater Monitoring
Table 2	Proposed Groundwater Monitoring Plan

**Figures**

Figure 1	Site Location
Figure 2	Current Groundwater Monitoring Plan
Figure 3	Proposed Groundwater Monitoring Plan
Figure 4	Proposed Performance Monitoring Plan

**Attachments**

Attachment A	Hydrographs and Trend Graphs
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**Tables**

**Table 1**  
**Current Monitoring Schedule**  
**2014 Revised Groundwater Monitoring Plan**  
**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
**Seattle, Washington**

Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
A-4	1Q, 3Q, 4Q							X
	2Q							X
A-5	1Q, 3Q, 4Q	X			X			X
	2Q	X			X			X
A-6	1Q, 3Q, 4Q							X
	2Q							X
A-8	1Q, 3Q, 4Q							X
	2Q	X	X	X	X			X
A-10	1Q, 3Q, 4Q							X
	2Q	X	X	X	X			X
A-11	1Q, 3Q, 4Q							X
	2Q							X
A-12	1Q, 3Q, 4Q							X
	2Q							X
A-14R	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X		X
A-16	1Q, 3Q, 4Q							X
	2Q							X
A-18	1Q, 3Q, 4Q							X
	2Q							X
A-19	1Q, 3Q, 4Q							X
	2Q							X
A-20	1Q, 3Q, 4Q							X
	2Q							X



**Table 1**  
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**Seattle, Washington**

Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
A-21	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X	X	X	X
A-22R	1Q, 3Q, 4Q							X
	2Q							X
A-23R	1Q, 3Q, 4Q	X			X			X
	2Q	X			X		X	X
A-25	1Q, 3Q, 4Q							X
	2Q							X
A-26R	1Q, 3Q, 4Q							X
	2Q							X
A-27	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X		X	X
A-28R	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X	X	X	X
12	1Q, 3Q, 4Q							X
	2Q							X
MW-1	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X		X
MW-2	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X	X	X
MW-3	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X		X
MW-4	1Q, 3Q, 4Q							X
	2Q	X	X	X	X			X

**Table 1**  
**Current Monitoring Schedule**  
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**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
**Seattle, Washington**

Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
MW-5	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X		X
MW-6	1Q, 3Q, 4Q	X			X			X
	2Q	X			X	X	X	X
MW-7	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X	X	X	X
MW-8	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X		X
MW-9	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X	X	X	X
MW-12R	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X	X	X
MW-14	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X		X	X
MW-16	1Q, 3Q, 4Q							X
	2Q	X	X	X	X			X
MW-18	1Q, 3Q, 4Q	X			X			X
	2Q	X			X			X
MW-19	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X		X	X
MW-20	1Q, 3Q, 4Q							X
	2Q	X	X	X	X			X
MW-21	1Q, 3Q, 4Q	X	X	X	X		X	X
	2Q	X	X	X	X		X	X

**Table 1**  
**Current Monitoring Schedule**  
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**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
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Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
MW-22	1Q, 3Q, 4Q							X
	2Q	X	X	X	X			X
MW-23	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X	X	X	X
MW-24	1Q, 3Q, 4Q	X			X		X	X
	2Q	X			X	X	X	X
MW-25	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X		X
MW-07R	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X	X	X
SH-02R	1Q, 3Q, 4Q							X
	2Q	X	X	X	X	X	X	X
SH-05R	1Q, 3Q, 4Q							X
	2Q							X
TMW-B1	1Q, 3Q, 4Q							X
	2Q	X			X			

**Notes**

1 Monitored Natural Attenuation (MNA) Geochemical Parameters include dissolved oxygen, methane, ferrous iron, nitrate, sulfate, and sulfide  
GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics by Northwest Method NWTPH-Gx  
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes by Environmental Protection Agency (EPA) Method 8260B.  
1Q, 2Q, 3Q, 4Q = Denotes the quarter for each sampling event  
-- Not Applicable

**Table 2**  
**Proposed Monitoring Schedule**  
**2014 Revised Groundwater Monitoring Plan**  
**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
**Seattle, Washington**

Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
A-4	1Q							X
	3Q							X
A-5	1Q	X			X			X
	3Q	X			X			X
A-6	1Q							X
	3Q							X
A-8	1Q							X
	3Q	X	X	X	X			X
A-10	1Q							X
	3Q	X	X	X	X			X
A-11	1Q							X
	3Q							X
A-12	1Q							X
	3Q							X
A-14R	1Q							X
	3Q	X	X	X	X	X		X
A-16	1Q							X
	3Q							X
A-18	1Q							X
	3Q							X
A-19	1Q							X
	3Q							X
A-20	1Q							X
	3Q							X

**Table 2**  
**Proposed Monitoring Schedule**  
**2014 Revised Groundwater Monitoring Plan**  
**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
**Seattle, Washington**

Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
A-21	1Q	X			X		X	X
	3Q	X			X	X	X	X
A-22R	1Q							X
	3Q							X
A-23R	1Q							X
	3Q	X			X		X	X
A-25	1Q							X
	3Q							X
A-26R	1Q							X
	3Q							X
A-27	1Q	X			X		X	X
	3Q	X			X		X	X
A-28R	1Q	X			X		X	X
	3Q	X			X	X	X	X
11 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
12 <sup>2</sup>	1Q	X			X		X	X
	3Q	X	X	X	X	X	X	X
MW-1	1Q							X
	3Q	X	X	X	X	X		X
MW-2	1Q							X
	3Q	X	X	X	X	X	X	X
MW-3	1Q							X
	3Q	X	X	X	X	X		X

**Table 2**  
**Proposed Monitoring Schedule**  
**2014 Revised Groundwater Monitoring Plan**  
**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
**Seattle, Washington**

Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
MW-4	1Q							X
	3Q	X	X	X	X			X
MW-5	1Q							X
	3Q	X	X	X	X	X		X
MW-6	1Q							X
	3Q	X			X	X	X	X
MW-7 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X	X	X	X
MW-8	1Q							X
	3Q	X	X	X	X	X		X
MW-9 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X	X	X	X
MW-12R	1Q							X
	3Q	X	X	X	X	X	X	X
MW-14	1Q							X
	3Q	X			X		X	X
MW-16	1Q							X
	3Q	X	X	X	X			X
MW-18	1Q	X			X			X
	3Q	X			X			X
MW-19 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
MW-20	1Q							X
	3Q	X	X	X	X			X

**Table 2**  
**Proposed Monitoring Schedule**  
**2014 Revised Groundwater Monitoring Plan**  
**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
**Seattle, Washington**

Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
MW-21	1Q	X	X	X	X		X	X
	3Q	X	X	X	X		X	X
MW-22	1Q							X
	3Q	X	X	X	X			X
MW-23	1Q	X			X		X	X
	3Q	X			X	X	X	X
MW-24	1Q	X			X		X	X
	3Q	X			X	X	X	X
MW-25	1Q							X
	3Q	X	X	X	X	X		X
MW-07R	1Q							X
	3Q	X	X	X	X	X	X	X
SH-02R	1Q							X
	3Q	X	X	X	X	X	X	X
SH-05R	1Q							X
	3Q	X	X	X	X	X		X
TMW-B1	1Q							X
	3Q	X			X			

**Table 2**  
**Proposed Monitoring Schedule**  
**2014 Revised Groundwater Monitoring Plan**  
**Kinder Morgan Liquids Terminals, LLC, Harbor Island Terminal**  
**Seattle, Washington**

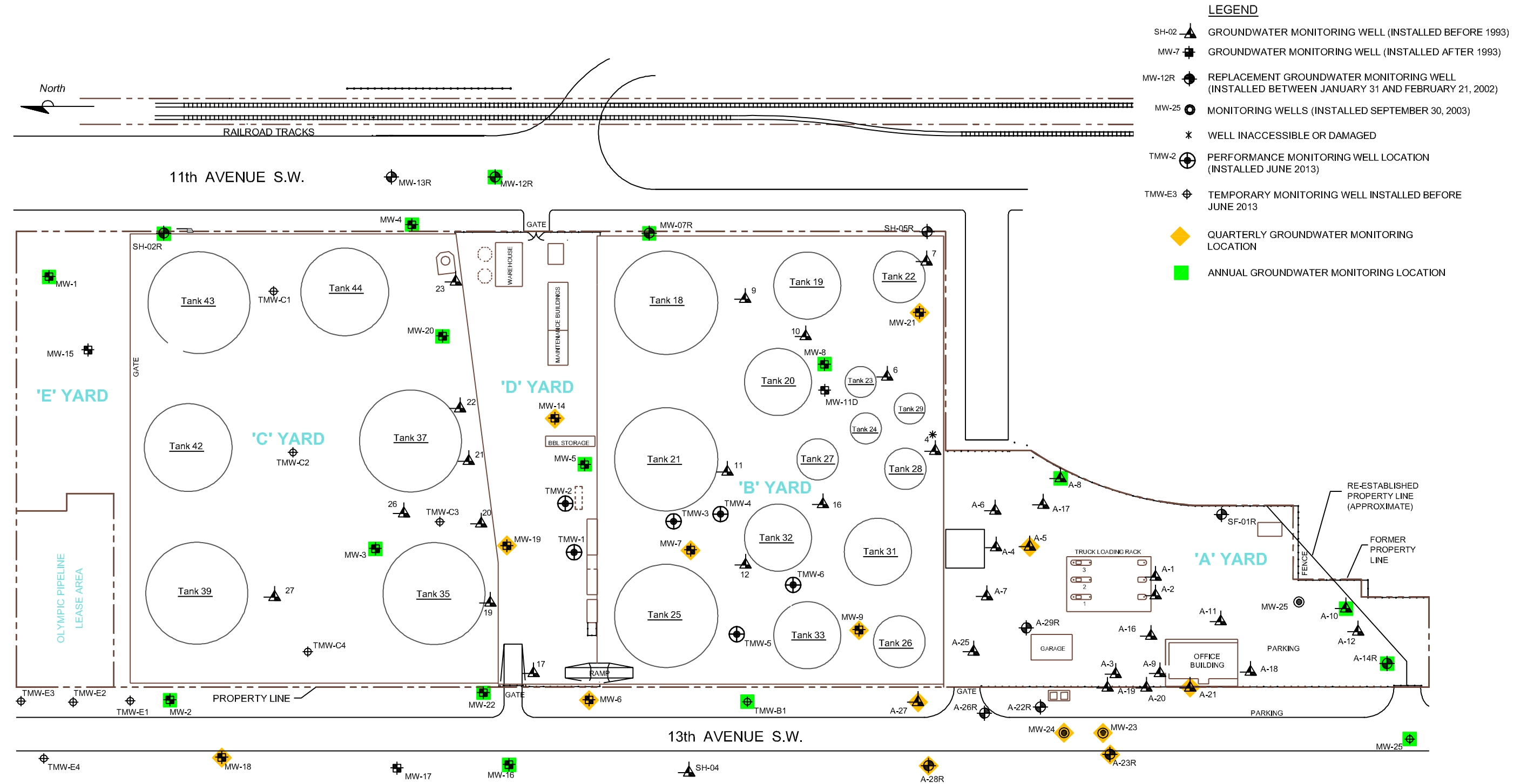
Well	Sampling Schedule	GRO by NWTPH-GX	DRO by NWTPH-DX	HO by NWTPH-DX	BTEX by EPA 8260B	Total and Dissolved Lead by EPA 200.8	MNA Geochemical Parameters <sup>1</sup>	Depth to Water/SPH by downhole meter
TMW-1 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
TMW-2 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
TMW-3 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
TMW-4 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
TMW-5 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
TMW-6 <sup>2</sup>	1Q	X			X		X	X
	3Q	X			X		X	X
<b>Notes</b>								
1 Monitored Natural Attenuation (MNA) Geochemical Parameters include dissolved oxygen, methane, ferrous iron, nitrate, sulfate, and sulfide								
2 Performance monitoring locations								
GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics by Northwest Method NWTPH-Gx								
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes by Environmental Protection Agency (EPA) Method 8260B.								
1Q, 2Q, 3Q, 4Q = Denotes the quarter for each sampling event								
-- Not Applicable								



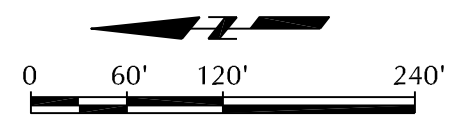
**Figures**



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 XREFS: IMAGES: PROJECTNAME:



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

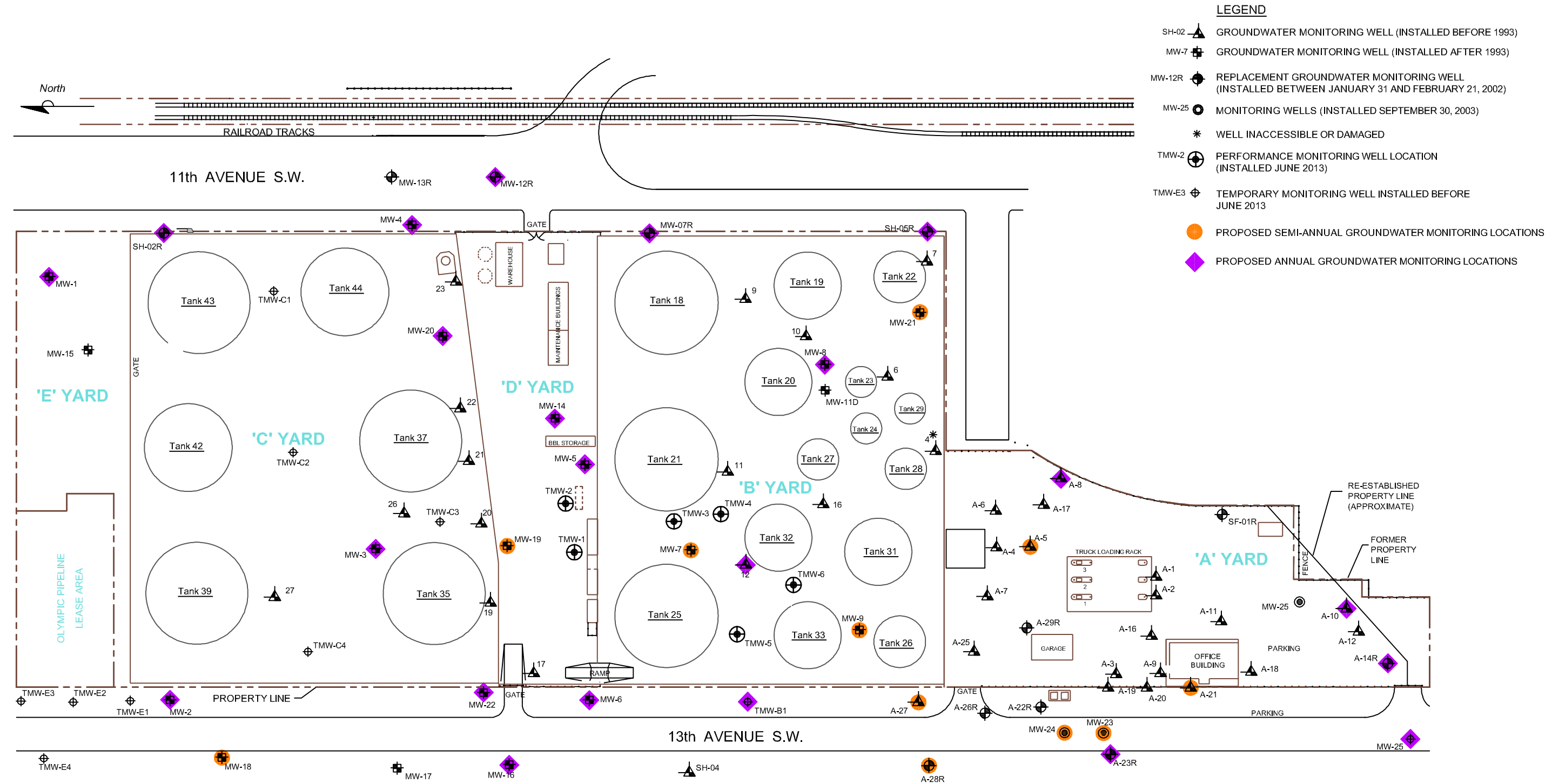


KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**2014 REVISED GROUNDWATER MONITORING PLAN**

**CURRENT QUARTERLY AND ANNUAL  
 GROUNDWATER MONITORING  
 LOCATIONS**

FIGURE  
**2**

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)
  - \* WELL INACCESSIBLE OR DAMAGED
  - TMW-2 ⊕ PERFORMANCE MONITORING WELL LOCATION (INSTALLED JUNE 2013)
  - TMW-E3 ⊕ TEMPORARY MONITORING WELL INSTALLED BEFORE JUNE 2013
  - PROPOSED SEMI-ANNUAL GROUNDWATER MONITORING LOCATIONS
  - ◆ PROPOSED ANNUAL GROUNDWATER MONITORING LOCATIONS

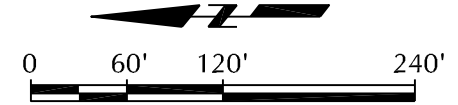
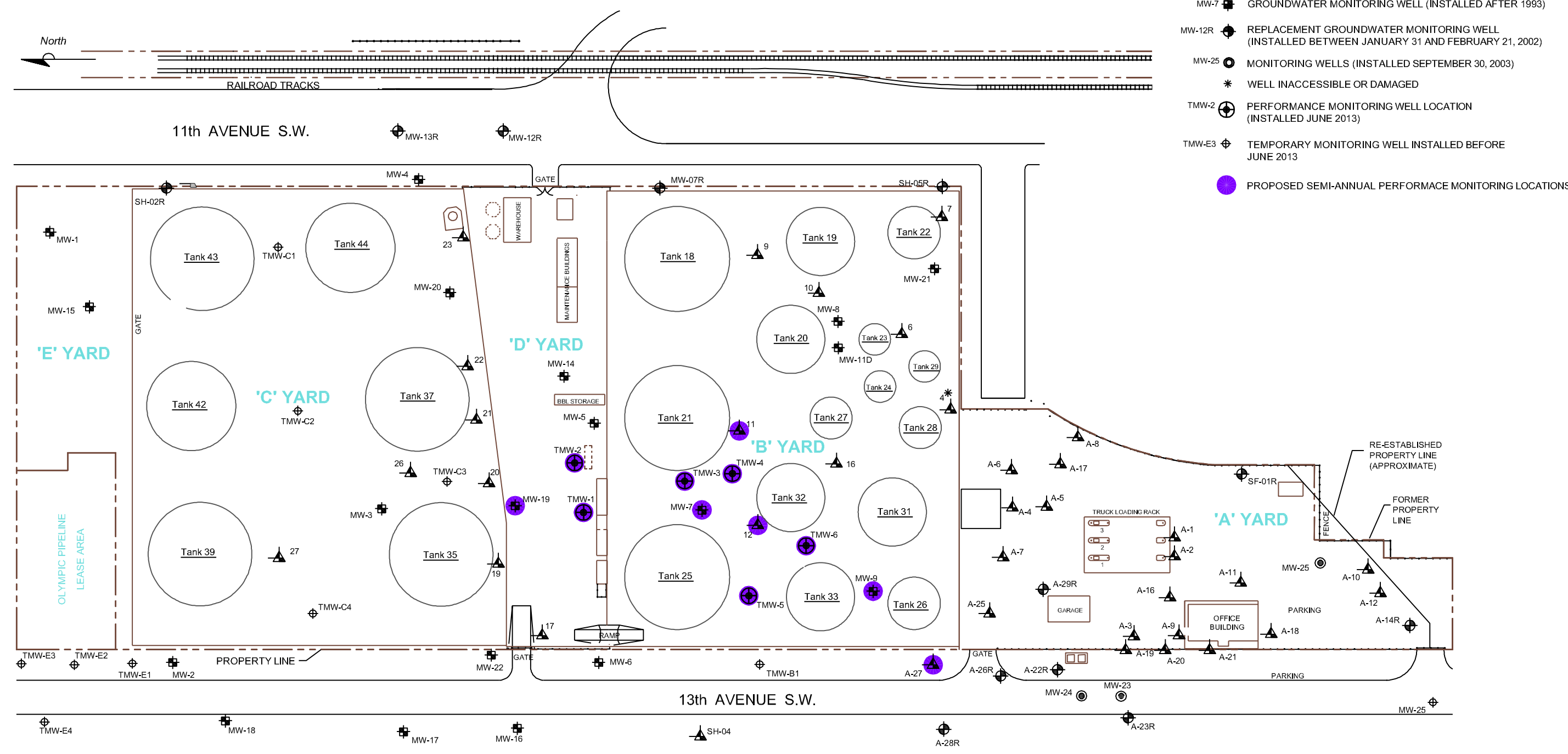
KINDER MORGAN LIQUID TERMINALS, LLC  
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 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**2014 REVISED GROUNDWATER MONITORING PLAN**  
**PROPOSED SEMI-ANNUAL AND ANNUAL GROUNDWATER MONITORING LOCATIONS**

FIGURE  
**3**

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**LEGEND**

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



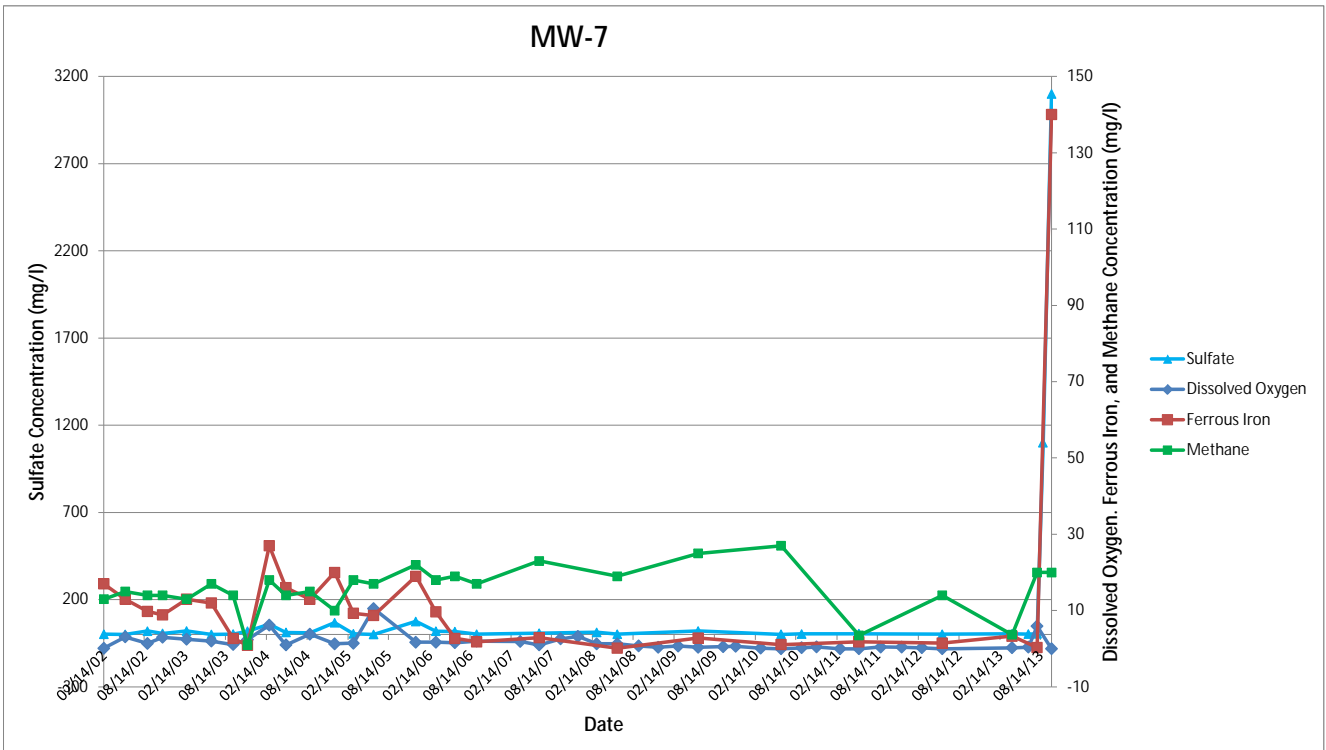
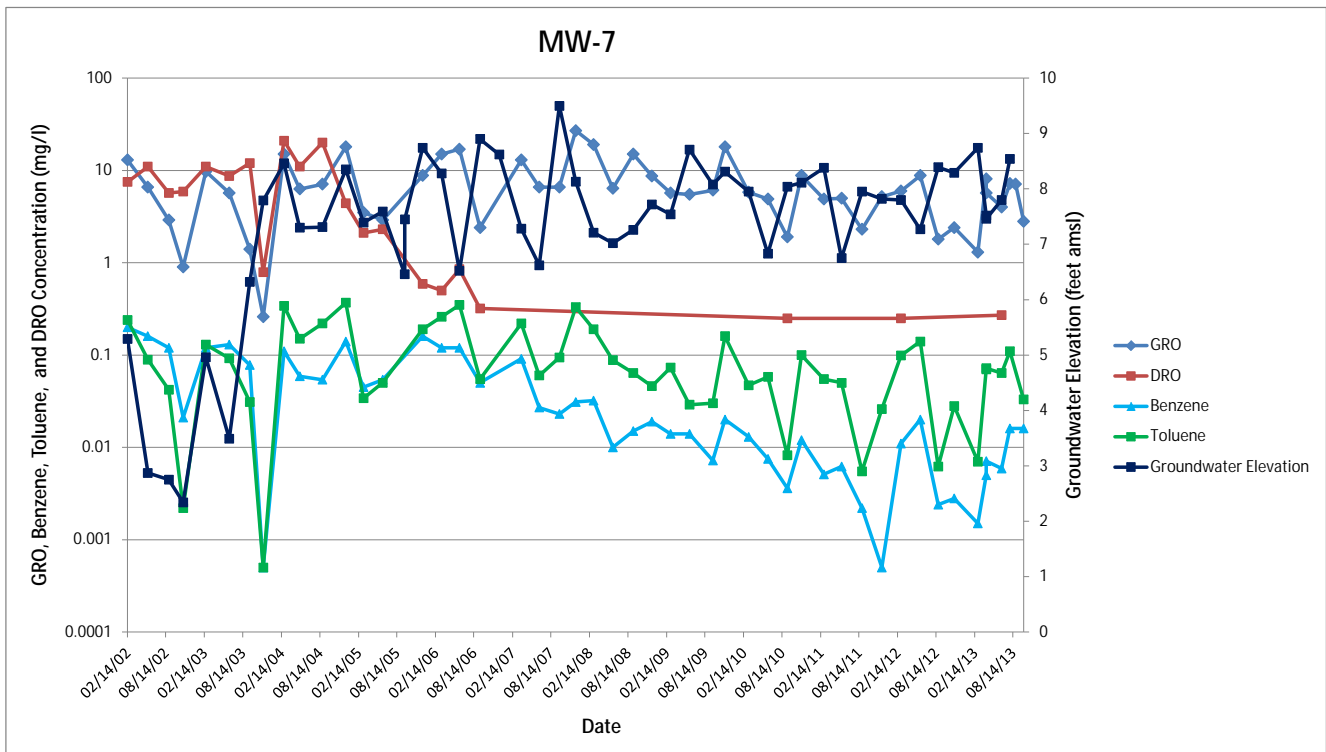
KINDER MORGAN LIQUID TERMINALS, LLC  
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 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**2014 REVISED GROUNDWATER MONITORING PLAN**

**PROPOSED PERFORMANCE MONITORING LOCATIONS**




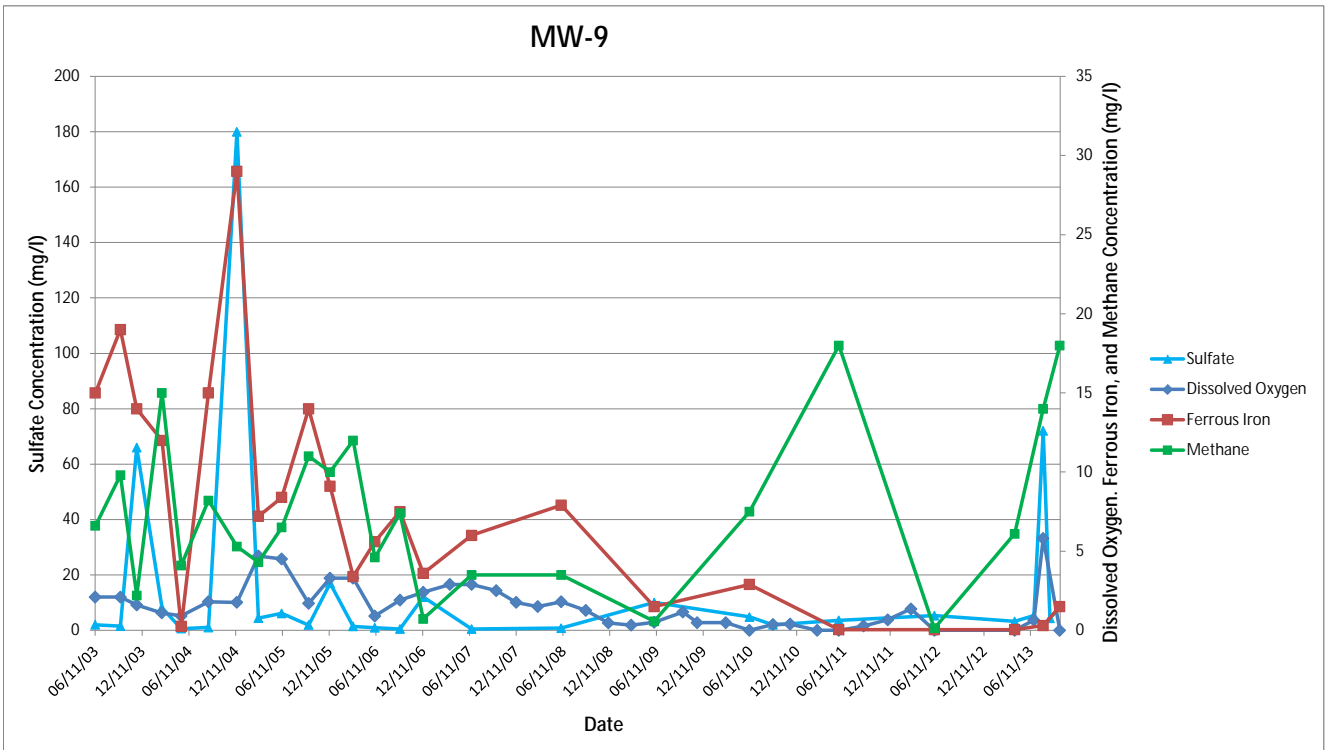
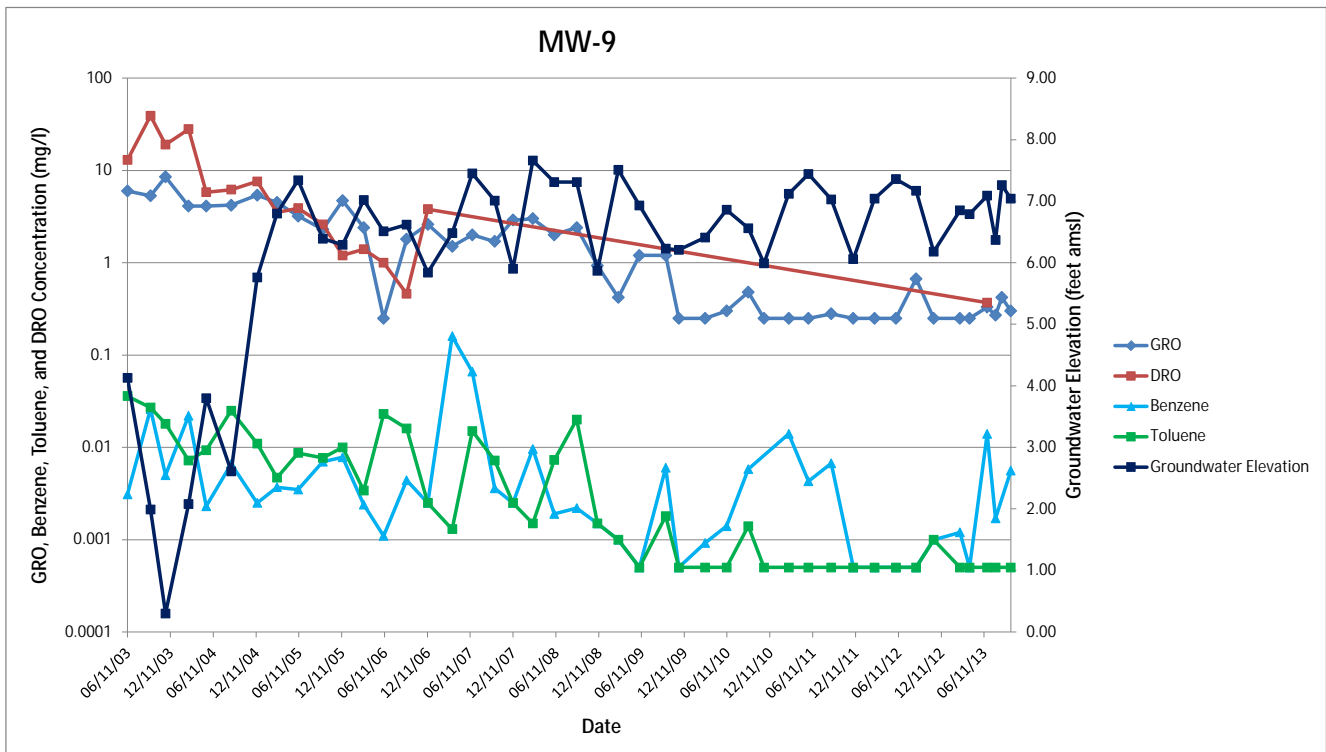


**Attachment A**




KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
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**2014 REVISED GROUNDWATER MONITORING PLAN**  
**ATTACHMENT A**  
**HYDROGRAPH AND CONSTITUENT TREND GRAPHS**

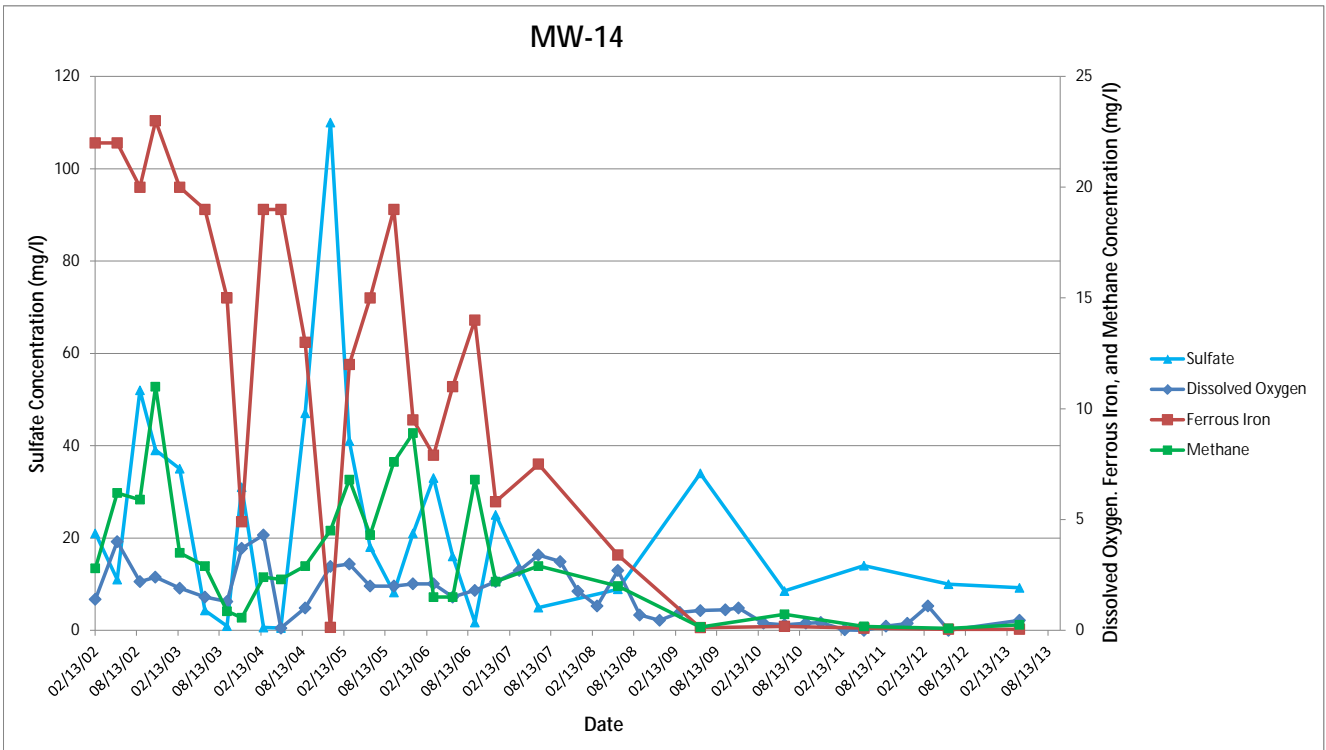
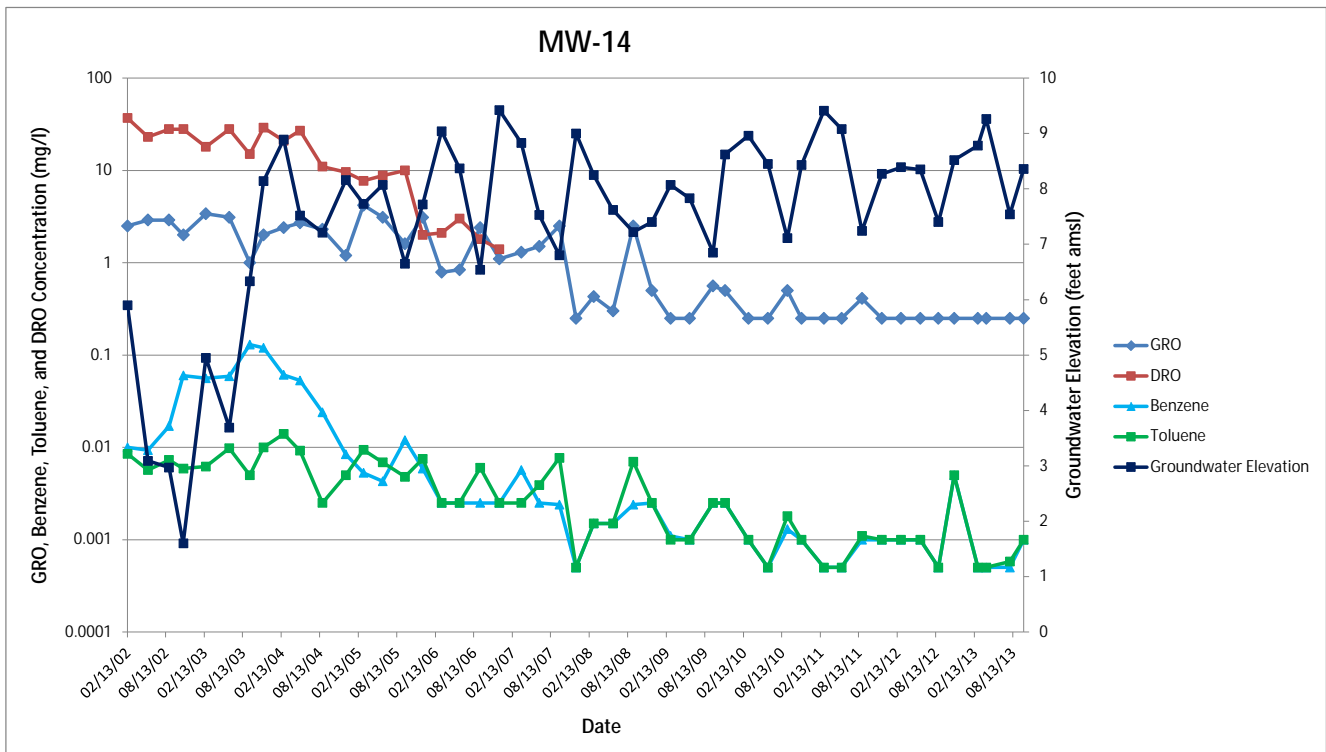
  
 Infrastructure · Water · Environment · Buildings




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 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**2014 REVISED GROUNDWATER MONITORING PLAN**  
**ATTACHMENT A**  
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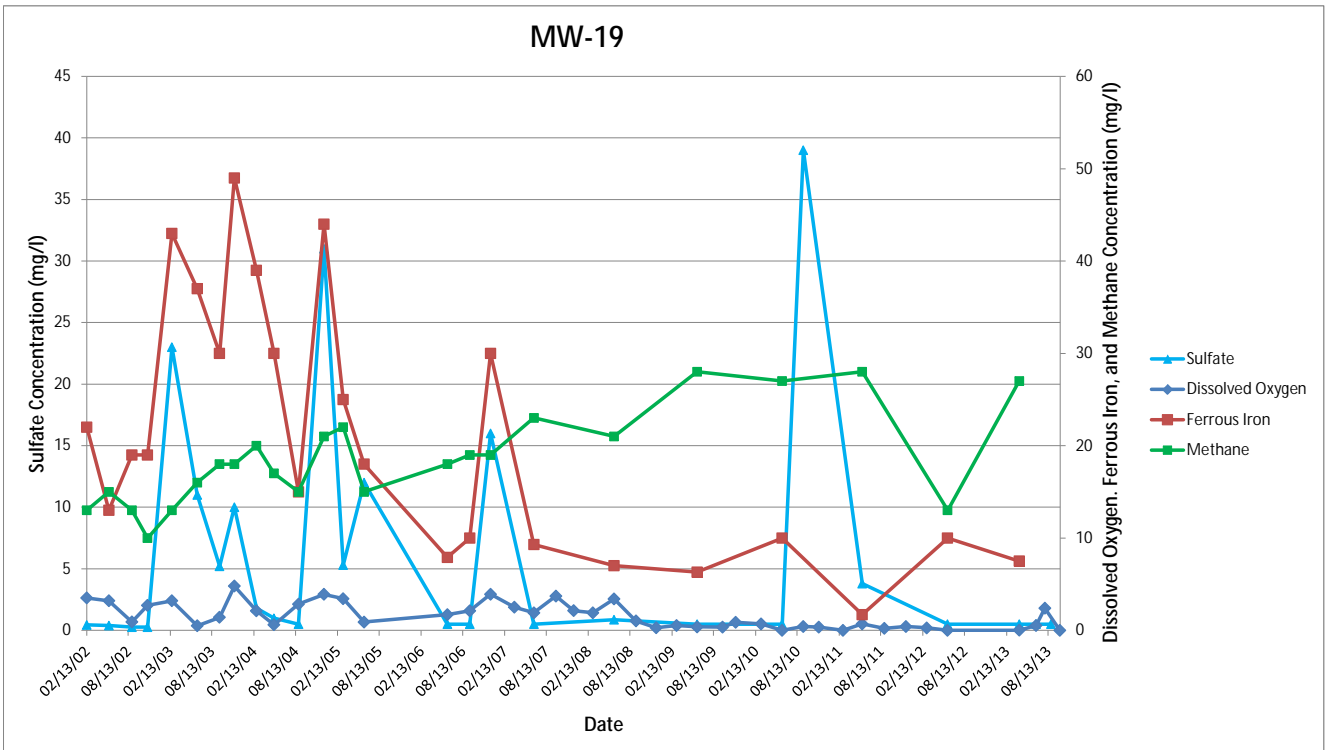
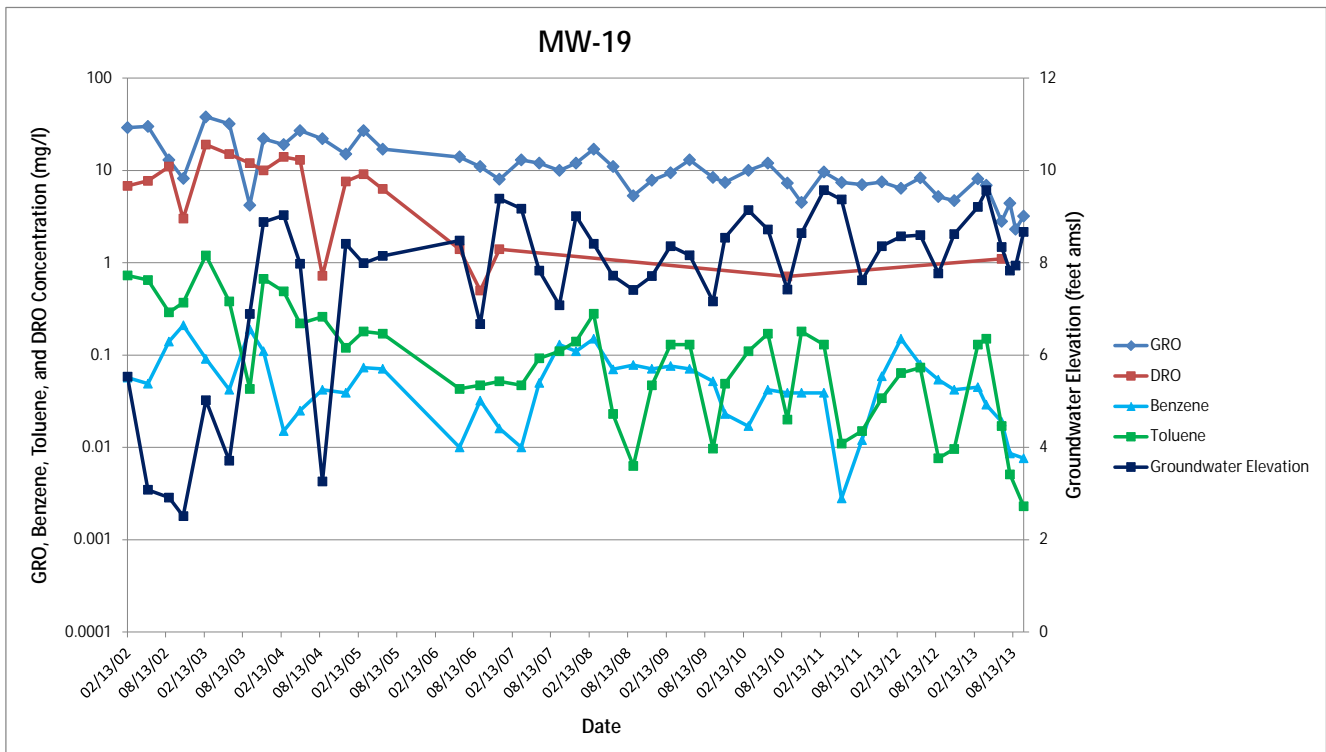






KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**2014 REVISED GROUNDWATER MONITORING PLAN**  
**ATTACHMENT A**  
**HYDROGRAPH AND CONSTITUENT TREND GRAPHS**





KINDER MORGAN LIQUID TERMINALS, LLC  
 HARBOR ISLAND TERMINAL  
 2720 13TH AVENUE SOUTHWEST, SEATTLE, WASHINGTON  
**2014 REVISED GROUNDWATER MONITORING PLAN**  
**ATTACHMENT A**  
**HYDROGRAPH AND CONSTITUENT TREND GRAPHS**

**From:** [Flomerfelt, Jonathan](mailto:Flomerfelt_Jonathan)  
**To:** [Wenning, Scott](mailto:Wenning_Scott)  
**Cc:** [Annis, Matt](mailto:Annis_Matt)  
**Subject:** FW: Kinder Morgan Harbor Island Terminal Proposed Revised Compliance Monitoring Plan  
**Date:** Wednesday, August 20, 2014 9:25:42 AM

---

Since there were some clarifications, lets use 8/13, email below as official approval

---

**From:** O'Brien, Maura (ECY) [<mailto:MOBR461@ECY.WA.GOV>]  
**Sent:** Wednesday, August 13, 2014 4:50 PM  
**To:** Annis, Matt; Flomerfelt, Jonathan; Truedinger, Robert  
**Cc:** Wang, Ching-Pi (ECY)  
**Subject:** RE: Kinder Morgan Harbor Island Terminal Proposed Revised Compliance Monitoring Plan

This is fine.

Maura

Maura S. O'Brien, PG/HG #869  
Professional Geologist/Hydrogeologist  
Toxics Cleanup Program - NWRO  
Department of Ecology  
3190 - 160th Avenue SE  
Bellevue, WA 98008-5452  
Tele 425-649-7249  
Fax 425-649-7098  
Email [mobr461@ecy.wa.gov](mailto:mobr461@ecy.wa.gov)

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**From:** Annis, Matt [<mailto:Matt.Annis@arcadis-us.com>]  
**Sent:** Wednesday, August 13, 2014 3:08 PM  
**To:** O'Brien, Maura (ECY); Flomerfelt, Jonathan; Truedinger, Robert  
**Cc:** Wang, Ching-Pi (ECY)  
**Subject:** RE: Kinder Morgan Harbor Island Terminal Proposed Revised Compliance Monitoring Plan

Hi Maura – One last clarification. Please see below in red. Thanks.

**Matt Annis** | Principal Environmental Scientist | [matt.annis@arcadis-us.com](mailto:matt.annis@arcadis-us.com)  
ARCADIS U.S., Inc. | 1100 Olive Way, Suite 800 | Seattle, WA, 98101  
T: 206.726.4716 | C: 206.434.1929 | F: 206.325.8218  
[www.arcadis-us.com](http://www.arcadis-us.com)

ARCADIS, Imagine the result

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---

**From:** O'Brien, Maura (ECY) [<mailto:MOBR461@ECY.WA.GOV>]  
**Sent:** Wednesday, August 13, 2014 2:07 PM  
**To:** Annis, Matt; Flomerfelt, Jonathan; Truedinger, Robert  
**Cc:** Wang, Ching-Pi (ECY)  
**Subject:** RE: Kinder Morgan Harbor Island Terminal Proposed Revised Compliance Monitoring Plan

Rob Truedinger and Matt Annis,  
Ecology approves the revised Kinder Morgan Harbor Island Terminal Proposed Revised Compliance Monitoring Plan for the KM Terminal prepared by Arcadis on May 20, 2014 and revised August 13, 2014. The revised plan is effective fall 2014 and the next monitoring **quarter event** will occur first quarter 2015.

Maura

Maura S. O'Brien, PG/HG #869  
Professional Geologist/Hydrogeologist  
Toxics Cleanup Program - NWRO  
Department of Ecology  
3190 - 160th Avenue SE  
Bellevue, WA 98008-5452  
Tele 425-649-7249  
Fax 425-649-7098  
Email [mobr461@ecy.wa.gov](mailto:mobr461@ecy.wa.gov)

---

**From:** Annis, Matt [<mailto:Matt.Annis@arcadis-us.com>]  
**Sent:** Wednesday, August 13, 2014 12:50 PM  
**To:** O'Brien, Maura (ECY); Flomerfelt, Jonathan; Truedinger, Robert  
**Cc:** Wang, Ching-Pi (ECY)  
**Subject:** RE: Kinder Morgan Harbor Island Terminal Proposed Revised Compliance Monitoring Plan

Hi Maura,

Below in red are responses/clarifications to your comments. Thank you for reviewing the Revised Site Groundwater Monitoring Plan so quickly.

**Matt Annis** | Principal Environmental Scientist | [matt.annis@arcadis-us.com](mailto:matt.annis@arcadis-us.com)  
ARCADIS U.S., Inc. | 1100 Olive Way, Suite 800 | Seattle, WA, 98101  
T: 206.726.4716 | C: 206.434.1929 | F: 206.325.8218  
[www.arcadis-us.com](http://www.arcadis-us.com)

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---

**From:** O'Brien, Maura (ECY) [<mailto:MOBR461@ECY.WA.GOV>]  
**Sent:** Thursday, August 07, 2014 3:35 PM  
**To:** Annis, Matt; Flomerfelt, Jonathan; Truedinger, Robert  
**Cc:** Wang, Ching-Pi (ECY)  
**Subject:** RE: Kinder Morgan Harbor Island Terminal Proposed Revised Compliance Monitoring Plan

Hello

Thank you for your proposed Revised Site Groundwater Monitoring Plan at the Kinder Morgan Harbor Island Terminal site prepared by Arcadis US dated May 20, 2014. Ecology approves this

revised compliance plan with two additions:

-If SPH or LNAPL occur at any well, then gauging and removal will be implemented quarterly for four quarters and then to re-evaluate. If SPH or LNAPL occur at any well, ARCADIS will gauge and remove quarterly. Removal will be performed using absorbent socks, which is consistent with recent SPH/LNAPL removal performed at the site.

-If any groundwater compliance well shows concentration increase for two consecutive events, then to discuss with Ecology if additional monitoring or cleanup action needs to be implemented at that location. OK

Starting third quarter 2014, this revised annual and semi-annual monitoring will begin. The next monitoring event will occur in 1Q2015 and moving forward reporting will be conducted semi-annually.

Thanks for your hard work and continued efforts to bring this site to completion under MTCA.

Maura

Maura S. O'Brien, PG/HG #869  
Professional Geologist/Hydrogeologist  
Toxics Cleanup Program - NWRO  
Department of Ecology  
3190 - 160th Avenue SE  
Bellevue, WA 98008-5452  
Tele 425-649-7249  
Fax 425-649-7098  
Email [mobr461@ecy.wa.gov](mailto:mobr461@ecy.wa.gov)

---

**From:** Annis, Matt [<mailto:Matt.Annis@arcadis-us.com>]  
**Sent:** Thursday, August 07, 2014 11:09 AM  
**To:** O'Brien, Maura (ECY)  
**Cc:** Flomerfelt, Jonathan  
**Subject:** Kinder Morgan Harbor Island Periodic Review

Hi Maura,

Under Section 2.2 of the boilerplate you sent, are you looking for a summary of all site investigations and sample results to date or just those between the last 5-year review and present? Thanks.

**Matt Annis** | Senior Environmental Scientist | [matt.annis@arcadis-us.com](mailto:matt.annis@arcadis-us.com)  
ARCADIS U.S., Inc. | 1100 Olive Way, Suite 800 | Seattle, WA, 98101  
T: 206.726.4716 | C: 206.434.1929 | F: 206.325.8218  
[www.arcadis-us.com](http://www.arcadis-us.com)

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**Attachment B**

Groundwater Monitoring Field Data  
Sheets



Site ID: KMLT - Harbor Island

Project #: WA000804.0000.00003

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

Date: 3/17/15

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
A-4	13:38	—	—	—	3.74	12.56	
A-5	13:36	—	—	—	7.45	14.88	
A-6	1330	HCLO	6.20	0.10	6.30	—	
A-8	1320	Slight odor	—	—	7.41	24.79	
A-10	1255	—	—	—	6.48	24.13	
A-11	1301	—	—	—	7.35	24.58	
A-12	1245	—	—	—	6.13	23.28	
A-14R	1242	—	—	—	7.22	14.92	
A-16	1303	HCLO	—	—	7.55	13.96	
A-18	1252	—	—	—	7.70	13.80	
A-19	1232	—	—	—	7.61	13.95	
A-20	1229	—	—	—	<del>7.27</del> 7.27	13.61	
A-21	1229	—	—	—	7.40	14.45	
A-22R	4012:19	Slight odor	—	—	7.04	14.65	
A-23R	1012	—	—	—	6.33	15.90	
A-25	13:42	—	—	—	6.87	13.88	
A-26R	1345	HCLO	—	—	7.09	14.45	
A-27	1136	HCLO	—	—	9.96	17.92	



Site ID: KMLT - Harbor Island

Project #: WA000804.0000.00003

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

Date: 3/17/15

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
A-28R	10:37	odor	—	—	<del>7.26</del> 14.52	14.52	Measured top of vault
12	<del>11:25</del> <del>0941</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>0.07</del> <del>5.06</del>	<del>7.59</del> <del>12.65</del>	gas bubbles
MW-07R	0941	—	—	—	5.06	12.65	
MW-1	14:00	—	—	—	4.73	12.90	
MW-2	1112	—	—	—	5.35	12.66	
MW-3	0929	—	—	—	1.30	13.45	Soft bottom
MW-4	0955	—	—	—	5.21	14.25	
MW-5	0957	—	—	—	1.04	13.34	
MW-6	1120	—	—	—	5.72	13.00	
MW-7	1156	—	—	—	0.76	13.11	
MW-8	1052	—	—	—	1.62	13.12	
MW-9	1100	odor	—	—	0.87	12.97	
MW-12R	0953	—	—	—	6.49	14.30	
MW-13R	<hr/>						
MW-14	0949	—	—	—	1.47	13.65	
MW-16	10:31	—	—	—	<del>5.73</del> 14.56	14.56	Measured top of vault
MW-18	1020	—	—	—	5.62	13.55	
MW-19	1024	odor	—	—	1.11	13.05	





Site ID: KMLT - Harbor Island

Project #: WA000804.0000.00003

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

Date: 3/17/15

Well ID	Time	Sheen/ Odor	LNAPL Depth	LNAPL Thickness	DTW	TD	Notes
MW-20	0938	—	—	—	1.49	11.91	
MW-21	1045	—	—	—	1.74	11.66	
MW-22	11:17	—	—	—	6.65	13.30	
MW-23	10:52	—	—	—	7.11	14.85	
MW-24	1047	HCL0	—	—	7.06	14.80	
SH-02R	1000	—	—	—	4.43	14.49	
SH-05R	0930	—	—	—	6.30	13.68	
TMW-B1	11:30	odor	—	—	6.57	14.78	

MW-25	1257	—	—	—	6.92	14.80	
TMW-1	1015	—	—	—	1.65	15.05	Soft bottom
TMW-2	1005	—	—	—	1.68	15.63	
TMW-3	1148	—	—	—	1.67	15.70	
TMW-4	1130	—	—	—	1.30	15.46	
TMW-5	1118	—	—	—	1.84	14.34	Soft bottom and gas bubbles
TMW-6	1111	—	—	—	1.48	14.60	
11	1141	—	—	—	2.41	10.85	Stack up 1.41 ft above box





# ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID A-27

Page 1 of 1

Date 3-17-2015

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

Weather Clear

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

Static Water Level (ft-btoc) 9.98 Total Depth (ft-btoc) 10.72 Water Column/ Gallons in Well NC Initial PID Reading (ppm) -

TOC Elevation: 17.22 Pump Intake (ft-btoc) Mid-Screen Purge Method:  Low-flow  Centrifugal  Submersible  Other  Sample Method Peristaltic Pump

Pump On/Off 11:21/11:44 Volumes Purged ~0.5 gallons Sample Code No. - Sampled by KH

Sample Time: Label 11:45 Replicate/ Code No. -  
 Start 11:37  
 End 11:44

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	3% Cond. (µMhos) (mS/cm)	10% Turbidity (NTU)	3% Dissolved Oxygen (mg/L)	Temp. (°C)	3% Redox ORP (mV)	Appearance	
											Color	Odor
11:23	0	250	9.97	~0.1	6.30	0.285	2.8	1.03	13.2	-55.5	Clear	Slight
11:26	3		10.00	~0.2	6.26	0.240	2.5	0.54	13.1	-65.2		
11:29	6		10.01	~0.3	6.27	0.281	2.6	0.37	13.0	-70.0		
11:32	9		10.03	~0.4	6.27	0.281	2.9	0.34	13.0	-72.9		
11:35	12		10.02	~0.5	6.27	0.282	2.6	0.33	13.0	-73.9		

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

**Well Casing Volumes**

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

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival:  Yes /  No

Condition of Well: \_\_\_\_\_ Well Locked at Departure:  Yes /  No

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

# ARCADIS Groundwater Sampling Form

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

Page 1 of 1

Date 3-18-2015

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

Weather Clear

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

Well Material  PVC  SS

Static Water Level (ft-btoc) 7.35 Total Depth (ft-btoc) 14.25 Water Column/ Gallons in Well N/C

Initial PID Reading (ppm) —

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

Sample Method Peristaltic Pump

Pump On/Off 10:30/10:51 Volumes Purged ~0.5 gallons

Sample Time: Label 10:45 Replicate/ Code No. —  
Start 10:46  
End 10:51

Sampled by KH

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
10:32	0	250	7.35	~0.1	6.37	0.691	3.1	0.68	13.2	-113.6	clear	slight
10:35	3		7.36	~0.2	6.37	0.694	3.2	0.46	13.1	-117.2		
10:39	6		7.39	~0.3	6.37	0.694	3.3	0.36	13.1	-119.9		
10:41	9		7.40	~0.4	6.38	0.691	3.2	0.26	13.1	-122.2		
10:44	12		7.40	~0.5	6.38	0.687	3.3	0.22	13.1	-122.7		

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

**Well Casing Volumes**

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

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival:  Yes /  No

Condition of Well: \_\_\_\_\_ Well Locked at Departure:  Yes /  No

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



# ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID 12 Page      of     

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

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

Static Water Level (ft-btoc) 606.40 Total Depth (ft-btoc) 14.70 Water Column/  
 Gallons in Well      Initial PID Reading (ppm)     

TOC Elevation 14.24 Pump Intake (ft-btoc) Mid-Screen Purge Method: Low-flow Sample Method Peristaltic Pump  
 Pump On/Off 1527/1551 Volumes Purged      Centrifugal       
 Submersible      Other     

Sample Time: Label 1555 Replicate/ Code No.       
 Start 1546  
 End 1551 Sampled by   mu  

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
1529	0	300	0.4		6.71	1.687	7.2	1.65	12.2	-31.5	Clear	-
1532	3	250	0.4		6.65	1.692	6.4	0.34	11.8	-52.2	Clear	-
1535	6	21	0.4		6.65	1.692	6.3	0.21	11.8	-62.0	Clear	-
1538	9	270	0.4		6.64	1.692	6.3	0.16	11.7	-70.7	Clear	-
1542	13	1	0.4		6.64	1.692	6.2	0.17	11.8	-72.7	Clear	-
1545	16	300	0.4		6.64	1.693	6.0	0.23	11.8	-74.0	Clear	-

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			

**Well Casing Volumes**

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

**Well Information**

Well Location:      Well Locked at Arrival:      Yes / No

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

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





# ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID MW-9

Date 3/18/15

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

Weather cloudy 50

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

Well Material  PVC  SS

Static Water Level (ft-btoc) 1.39 Total Depth (ft-btoc) 11.20 Water Column/ Gallons in Well \_\_\_\_\_

Initial PID Reading (ppm) \_\_\_\_\_

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

Sample Method Peristaltic Pump

Pump On/Off 1034/1110 Volumes Purged \_\_\_\_\_

Sample Time: Label 1110 Replicate/ Code No. \_\_\_\_\_  
Start 1058  
End 1110

Sampled by mu

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
1035	0	250	1.48		6.32	480.1	2.0	2.61	10.7	37.4	amber	-
1039	3	200	1.51		6.29	466.9	2.2	1.87	10.6	23.6	clear	-
1041	6	200	1.49		6.31	458.8	2.3	1.86	10.6	11.1	clear	-
1045	10	200	1.46		6.31	453.2	2.5	1.88	10.6	5.7	clear	-
1048	13	200	1.48		6.33	449.5	2.7	1.90	10.5	-3.9	clear	-
1052	17	200	1.50		6.34	448.0	2.9	1.96	10.5	-10.0	clear	-
1055	20	200	1.48		6.34	448.8	3.3	1.99	10.5	-14.2	clear	-

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

**Well Casing Volumes**

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

**Well Information**

Well Location: B 1/2 rd Well Locked at Arrival: Yes / No

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

Well Completion: Flush Mount 7 Stick Up Key Number To Well: \_\_\_\_\_

# ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003

Well ID MW-18

Page 1 of 1

Date 3-18-2015

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

Weather Clear

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

Well Material  PVC  SS

Static Water Level (ft-btoc) 5.62 Total Depth (ft-btoc) 13.65 Water Column/ Gallons in Well N/C

Initial PID Reading (ppm) —

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

Sample Method Peristaltic Pump

Pump On/Off 9:52 / 10:10 Volumes Purged ~0.5 gallons

Sample Time: Label 10.15 Replicate/ Code No. —  
 Start 10:07  
 End 10:10

Sampled by KH

Stabilized Range: ~.5 ft

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	0.1	3%	10%	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
					pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)				Color	Odor
9:53	0	250	5.62	~0.1	6.39	0.358	11.3	1.36	13.1	-108.4	clear	none
9:56	3	1	5.63	~0.2	6.44	0.308	4.8	0.57	13.2	-117.4		
9:59	6	1	5.63	~0.3	6.50	0.265	8.2	0.32	13.2	-122.8		
10:02	9	1	5.63	~0.4	6.53	0.264	11.9	0.26	13.2	-125.5		
10:05	12	1	5.62	~0.5	6.55	0.265	12.3	0.23	13.2	-127.4		

Constituents Sampled	Container	Number	Preservative
GRO			
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: \_\_\_\_\_

Condition of Well: \_\_\_\_\_

Well Completion: Flush Mount / Stick Up

Well Locked at Arrival:  Yes /  No

Well Locked at Departure:  Yes /  No

Key Number To Well: \_\_\_\_\_

# ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003

Well ID MW-19

Page 1 of 1

Date 3/17/15

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

Weather 50°F - Ptly cldy

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

Well Material  PVC  
 SS

Static Water Level (ft-btoc) 1.11 Total Depth (ft-btoc) 12.90 Water Column/  
 Gallons in Well \_\_\_\_\_

Initial PID Reading (ppm) \_\_\_\_\_

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

Sample Method Peristaltic Pump

Pump On/Off 1300 Volumes Purged \_\_\_\_\_  
 Centrifugal \_\_\_\_\_  
 Submersible \_\_\_\_\_  
 Other \_\_\_\_\_

Sample Time: Label 1355 Replicate/ Code No. \_\_\_\_\_  
 Start 1300  
 End 1400

Sampled by SW

Stabilized Range: \_\_\_\_\_

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	3% Cond. (µMhos/cm)	10% Turbidity (NTU)	Dissolved Oxygen (mg/L)	3% Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1320	20	200	1.15		3.78	224.1	34.6	0.11	13.1	-96.1	clear	-
1323	23	125	1.15		3.73	225.8	36.7	0.09	13.1	-105.9	clear	-
1328	28	125	1.15		3.72	228.3	39.8	0.08	13.0	-108.9	clear	-
1332	32	125	1.15		3.72	230.6	43.5	0.07	13.0	-97.7	clear	-
1340	40	125	1.15		3.72	228.8	48.5	0.04	13.0	-113.9	clear	-
1345	45	125	1.15		3.72	228.9	52.4	0.03	13.0	-114.8	clear	-
1350	50	125	1.15		3.72	229.1	51.8	0.04	13.1	-104.5	clear	-
1355	55	125	1.15		3.72	228.5	56.2	0.05	13.1	-104.8	clear	-

Constituents Sampled	Container	Number	Preservative
GRO - 300ml HCL			
BTEX -			
Nitrate - 100ml Poly			
Sulfate -			
Sulfide - 250ml Amber w/ Zn Acetate			
Ferrous Iron - 200ml HCL			
Methane - 2 40ml HCL AWO <sub>3</sub>			

**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: Dugord 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. WA000804.2014.00003 Well ID MW-21

Date 3/18/15

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

Weather Pt cldy

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) 1.83 Total Depth (ft-btoc) 12.80

Water Column/  
Gallons in Well \_\_\_\_\_  
Initial PID \_\_\_\_\_  
Reading (ppm) \_\_\_\_\_

TOC Elevation 9.41 Pump Intake (ft-btoc) Mid-Screen

Purge Method: Low-flow  
Centrifugal  
Submersible  
Other

Pump On/Off 9:42 Volumes Purged \_\_\_\_\_

Sample Method Peristaltic Pump

Sample Time: Label 1010 Replicate/  
Start 1010 Code No. \_\_\_\_\_  
End 1023

Sampled by Mu

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
0942	0	230	1.83		5.95	0.028	18.2	2.30	12.0	53.1	Clear	-
0945	3		1.98		5.85	0.024	18.0	2.33	11.9	49.1	Cl	-
0948	6		1.98		5.80	0.024	17.8	2.73	11.9	44.0	Cl	-
0951	9		1.98		5.80	0.023	19.7	3.40	11.7	50.5	Cl	-
0954	12		1.99		5.83	0.022	19.2	3.87	11.7	30.9	Cl	-
0957	15		1.99		5.85	0.022	19.6	3.57	11.7	24.3	Cl	-
1000	18		1.98		5.85	0.022	19.8	3.97	11.6	20.4	Cl	-
1003	21		1.98		5.87	0.022	20.1	4.27	11.6	15.7	Cl	-
1006	24		1.97		5.88	0.022	22.5	4.51	11.6	11.9	Cl	-
1009	27		1.97		5.89	0.021	22.8	4.60	11.6	8.8	Cl	-

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

**Well Casing Volumes**

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

**Well Information**

Well Location: NE E 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

Page 1 of 1Project No. WA000804.2014.00003 Well ID MW-23

Date \_\_\_\_\_

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

Weather \_\_\_\_\_

Measuring Pt. \_\_\_\_\_ Screen \_\_\_\_\_ Casing \_\_\_\_\_  
Description TOC Setting (ft-bmp) NM Diameter (in.) 4Well Material  PVC  
 SSStatic Water Level (ft-btoc) 7.10 Total Depth (ft-btoc) 14.60 Water Column/ Gallons in Well NL

Initial PID Reading (ppm) \_\_\_\_\_

TOC Elevation 14.15 Pump Intake (ft-btoc) Mid-Screen Purge Method:  Low-flowSample Method Peristaltic PumpPump On/Off 14:10/14:42 Volumes Purged ~0.7 gallons  Centrifugal  Submersible  Other \_\_\_\_\_Sample Time: Label 14:45 Replicate/ Code No. BD031815  
Start 14:35  
End 14:42Sampled by KH

Stabilized Range: ~.5 ft												
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
14:15	0	250	7.10	~0.1	6.33	11.960	1.4	0.34	14.6	-41.8	clear	strong
14:18	3		7.10	~0.2	6.40	10.599	2.3	0.45	14.8	-55.5		
14:21	6		7.10	~0.3	6.41	10.036	2.3	0.36	14.7	-59.9		
14:24	9		7.10	~0.4	6.42	9.594	2.2	0.23	14.7	-62.4		
14:27	12		7.11	~0.5	6.44	8.948	2.1	0.14	14.7	-68.2		
14:30	15		7.11	~0.6	6.46	8.422	1.9	0.09	14.7	-73.4		
14:33	18		7.11	~0.7	6.47	8.031	1.7	0.07	14.7	-76.2		

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

**Well Casing Volumes**

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

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival:  Yes /  No

Condition of Well: \_\_\_\_\_ Well Locked at Departure:  Yes /  No

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

# ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID MW-24

Date 3-18-2015

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

Weather Clear

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

Well Material  PVC  SS

Static Water Level (ft-btoc) 7.11 Total Depth (ft-btoc) 14.70 14.85 Water Column/ Gallons in Well NC

Initial PID Reading (ppm) —

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

Sample Method Peristaltic Pump

Pump On/Off 13:27/13:52 Volumes Purged ~0.5 gallons

Sample Time: Label 13:45 Replicate/ Code No. 13324  
 Start 13:45  
 End 13:52

Sampled by KH

Stabilized Range:

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos/cm) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
13:30	0	250	7.11	~0.1	6.52	1.097	6.3	0.98	14.8	-123.5	Clear	Stag
13:33	3		7.11	~0.2	6.52	1.108	5.9	0.44	14.8	-131.7		
13:36	6		7.11	~0.3	6.51	1.110	5.1	0.49	14.3	-131.8		
13:39	9		7.11	~0.4	6.50	1.110	5.1	0.24	14.2	-133.8		
13:42	12		7.12	~0.5	6.50	1.110	5.6	0.18	14.0	-135.0		

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

**Well Casing Volumes**

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

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival:  Yes /  No

Condition of Well: \_\_\_\_\_ Well Locked at Departure:  Yes /  No

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

# ARCADIS Groundwater Sampling Form

Project No. WA000804.2014.00003 Well ID TMW-1

Page 1 of 1  
Date 3-17-2015

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

Weather Overcast

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) 1.66 Total Depth (ft-btoc) 14.98 Water Column/ Gallons in Well NC

Initial PID Reading (ppm) —

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

Sample Method Peristaltic Pump

Pump On/Off 15:01/15:32 Volumes Purged —  
Centrifugal —  
Submersible —  
Other —

Sample Time: Label 1530 Replicate/ Code No. —  
Start 1525  
End 1530

Sampled by LH/ML

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMn1000) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
1502	0	250	1.66		7.63	1.137	189.5	7.67	10.9	67.8	Slight Br.	—
1505	3	1	1.71		7.08	1.124	81.8	6.17	10.9	72.1	Clear	—
1508	6	1	1.70		6.88	1.128	36.6	5.78	10.6	73.2	Clear	—
1511	9	1	1.71		6.80	1.224	51.4	5.57	10.6	74.0	Clear	—
1514	12	1	1.72		6.75	1.224	45.0	5.39	10.5	74.4	CI	—
1517	15	1	1.71		6.71	1.270	33.6	5.42	10.5	73.8	CI	—
1520	18	1	1.71		6.69	1.223	16.3	5.42	10.5	73.3	CI	—
1523	21	1										

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			

**Well Casing Volumes**

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

**Well Information**

Well Location: \_\_\_\_\_ Well Locked at Arrival: Yes / No

Condition of Well: \_\_\_\_\_ Well Locked at Departure: Yes / No

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





# ARCADIS Groundwater Sampling Form

Page 1 of 1

Project No. WA000804.2014.00003 Well ID TMW-3

Date \_\_\_\_\_

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

Weather Cloudy 68

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

Well Material  PVC  
 SS

Static Water Level (ft-btoc) 1.93 Total Depth (ft-btoc) 15.71

Water Column/ Gallons in Well \_\_\_\_\_  
 Initial PID Reading (ppm) \_\_\_\_\_

TOC Elevatio: NM Pump Intake (ft-btoc) Mid-Screen

Purge Method:  Low-flow  
 Centrifugal  
 Submersible  
 Other \_\_\_\_\_

Pump On/Off 1450 Volumes Purged \_\_\_\_\_

Sample Method Peristaltic Pump

Sample Time: Label 1520 Replicate/ Code No. \_\_\_\_\_  
 Start 1515  
 End 1520

Sampled by SL

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	0.1		3%		10%		3%		Appearance	
					pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Color	Odor		
1450	0	300	2.05		7.06	2146	2.8	1.46	12.5	-65.2	clear	-		
1453	3	300	2.06		7.07	2195	2.9	0.20	12.3	-99.4	clear	-		
1458	8	200	2.02		7.07	2197	2.4	0.15	12.4	-108.3	clear	-		
1502	12	200	2.02		7.08	2223	3.3	0.14	12.5	-111.2	clear	-		
1505	15	200	2.05		7.07	2213	3.8	0.08	12.3	-116.3	clear	-		
1510	20	225	2.06		7.08	2208	3.4	0.08	12.4	-117.1	clear	-		
1515	25	225	2.05		7.08	2204	3.5	0.07	12.4	-119.6	clear	-		

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			

**Well Casing Volumes**

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

**Well Information**

Well Location: Beyerd Well Locked at Arrival: locked 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. WA000804.2014.00003Well ID TMW-5Date 3/18/15Project Name/Location 2720 13th Ave SW Seattle, WA 98134Weather Sunny 60
 Measuring Pt. TOC Screen Setting (ft-bmp) NM Casing Diameter (in.) 2
Well Material  PVC  SS
 Static Water Level (ft-btoc) 1.93 Total Depth (ft-btoc) 14.68 Water Column/ Gallons in Well \_\_\_\_\_ Initial PID Reading (ppm) \_\_\_\_\_

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

 Pump On/Off 1615 Volumes Purged \_\_\_\_\_

 Sample Time: Label 1645 Replicate/ Code No. \_\_\_\_\_ Start 1648 End 1655 Sampled by SW

Time	Minutes Elapsed	Rate (gpm) (mL/min)	Depth to Water (ft)	Gallons Purged	pH	Cond. (µMhos) (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	Redox ORP (mV)	Appearance	
											Color	Odor
<u>1615</u>	<u>0</u>	<u>210</u>	<u>2.16</u>		<u>7.58</u>	<u>2163</u>	<u>7.8</u>	<u>2.12</u>	<u>13.1</u>	<u>-212</u>	<u>clear</u>	<u>-</u>
<u>1618</u>	<u>3</u>	<u>200</u>	<u>2.08</u>		<u>7.52</u>	<u>2107</u>	<u>8.9</u>	<u>0.32</u>	<u>12.7</u>	<u>-233</u>	<u>clear</u>	<u>-</u>
<u>1621</u>	<u>6</u>	<u>200</u>	<u>2.10</u>		<u>7.51</u>	<u>2066</u>	<u>9.9</u>	<u>0.28</u>	<u>12.5</u>	<u>-234</u>	<u>clear</u>	<u>-</u>
<u>1625</u>	<u>10</u>	<u>250</u>	<u>2.09</u>		<u>7.44</u>	<u>1964</u>	<u>10.1</u>	<u>0.20</u>	<u>12.4</u>	<u>-240</u>	<u>clear</u>	<u>-</u>
<u>1630</u>	<u>15</u>	<u>250</u>	<u>2.09</u>		<u>7.36</u>	<u>1810</u>	<u>11.2</u>	<u>0.13</u>	<u>12.5</u>	<u>-248</u>	<u>clear</u>	<u>-</u>
<u>1635</u>	<u>20</u>	<u>250</u>	<u>2.10</u>		<u>7.34</u>	<u>1741</u>	<u>12.7</u>	<u>0.09</u>	<u>12.4</u>	<u>-264</u>	<u>clear</u>	<u>-</u>
<u>1638</u>	<u>23</u>	<u>250</u>	<u>2.10</u>		<u>7.31</u>	<u>1712</u>	<u>12.7</u>	<u>0.08</u>	<u>12.5</u>	<u>-269</u>	<u>clear</u>	<u>-</u>
<u>1641</u>	<u>26</u>	<u>250</u>	<u>2.08</u>		<u>7.28</u>	<u>1617</u>	<u>13.7</u>	<u>0.05</u>	<u>12.5</u>	<u>-292</u>	<u>clear</u>	<u>-</u>
<u>1645</u>	<u>30</u>	<u>250</u>	<u>2.09</u>		<u>7.29</u>	<u>1650</u>	<u>13.8</u>	<u>0.05</u>	<u>12.5</u>	<u>-304</u>	<u>clear</u>	<u>-</u>
<u>1648</u>	<u>33</u>	<u>250</u>	<u>2.09</u>		<u>7.29</u>	<u>1636</u>	<u>14.5</u>	<u>0.04</u>	<u>12.6</u>	<u>-308</u>	<u>clear</u>	<u>-</u>

Constituents Sampled	Container	Number	Preservative
GRO			
BTEX			
Nitrate			
Sulfate			
Sulfide			

**Well Casing Volumes**

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

**Well Information**

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







**Attachment C**

Laboratory Reports and Chain-of-Custody Documentation



# 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: Matt Annis  
Phone: (206) 726-4716  
Fax:  
Date Received : 03/18/15

Job: WA000804.2015/KMLT-Harbor Island

### Anions by IC EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-7				
Lab ID : ARC15031820-01A Nitrate (NO3) - N	ND	0.25 mg/L	03/18/15 09:25	03/18/15 12:04
Date Sampled 03/17/15 16:15 Sulfate (SO4)	750	50 mg/L	03/18/15 09:25	03/18/15 12:04
Client ID: MW-19				
Lab ID : ARC15031820-02A Nitrate (NO3) - N	ND	0.25 mg/L	03/18/15 09:25	03/18/15 13:00
Date Sampled 03/17/15 13:55 Sulfate (SO4)	1.9	0.50 mg/L	03/18/15 09:25	03/18/15 13:00
Client ID: TMW-1				
Lab ID : ARC15031820-03A Nitrate (NO3) - N	0.32	0.25 mg/L	03/18/15 09:25	03/18/15 13:18
Date Sampled 03/17/15 15:30 Sulfate (SO4)	640	50 mg/L	03/18/15 09:25	03/18/15 13:18
Client ID: TMW-2				
Lab ID : ARC15031820-04A Nitrate (NO3) - N	ND	0.25 mg/L	03/18/15 09:25	03/18/15 13:37
Date Sampled 03/17/15 16:10 Sulfate (SO4)	1,500	100 mg/L	03/18/15 09:25	03/18/15 19:10

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  
 Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com  
 Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.  
 Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



*C*  
3/31/15

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

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

Attn: Matt Annis  
Phone: (206) 726-4716  
Fax:  
Date Received : 03/18/15

Job: WA000804.2015/KMLT-Harbor Island

### Iron by Spectrophotometer SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-7 Lab ID: ARC15031820-01A Iron, Ferrous (+2) Date Sampled 03/17/15 16:15	3.6	0.10 mg/L	03/19/15	03/19/15
Client ID: MW-19 Lab ID: ARC15031820-02A Iron, Ferrous (+2) Date Sampled 03/17/15 13:55	8.7	0.20 mg/L	03/19/15	03/19/15
Client ID: TMW-1 Lab ID: ARC15031820-03A Iron, Ferrous (+2) Date Sampled 03/17/15 15:30	0.65	0.050 mg/L	03/19/15	03/19/15
Client ID: TMW-2 Lab ID: ARC15031820-04A Iron, Ferrous (+2) Date Sampled 03/17/15 16:10	16	0.50 mg/L	03/19/15	03/19/15

Ferrous iron samples were color developed promptly after laboratory login.



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*  
Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
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*3/31/15*  
**Report Date**





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## ANALYTICAL REPORT

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

Attn: Matt Annis  
Phone: (206) 726-4716  
Fax:  
Date Received : 03/18/15

Job: WA000804.2015/KMLT-Harbor Island

Dissolved Gases  
Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: MW-7 Lab ID: ARC15031820-01A Methane Date Sampled 03/17/15 16:15	3.3	0.010 mg/L	03/23/15 12:49	03/23/15 15:32
Client ID: MW-19 Lab ID: ARC15031820-02A Methane Date Sampled 03/17/15 13:55	30	0.10 mg/L	03/23/15 12:49	03/27/15 17:00
Client ID: TMW-1 Lab ID: ARC15031820-03A Methane Date Sampled 03/17/15 15:30	0.040	0.010 mg/L	03/23/15 12:49	03/23/15 16:56
Client ID: TMW-2 Lab ID: ARC15031820-04A Methane Date Sampled 03/17/15 16:10	2.7	0.010 mg/L	03/23/15 12:49	03/23/15 17:17



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager  
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3/31/15

Report Date



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## ANALYTICAL REPORT

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

Attn: Matt Annis  
Phone: (206) 726-4716  
Fax:  
Date Received : 03/18/15

Job: WA000804.2015/KMLT-Harbor Island

### Sulfide SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>MW-7</b> Lab ID : ARC15031820-01A Sulfide Date Sampled 03/17/15 16:15	0.16	0.10 mg/L	03/23/15	03/23/15
Client ID: <b>MW-19</b> Lab ID : ARC15031820-02A Sulfide Date Sampled 03/17/15 13:55	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: <b>TMW-1</b> Lab ID : ARC15031820-03A Sulfide Date Sampled 03/17/15 15:30	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: <b>TMW-2</b> Lab ID : ARC15031820-04A Sulfide Date Sampled 03/17/15 16:10	ND	0.10 mg/L	03/23/15	03/23/15

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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✓  
3/31/15  
Report Date



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## ANALYTICAL REPORT

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

Attn: Matt Annis  
Phone: (206) 726-4716  
Fax:  
Date Received : 03/18/15

Job: WA000804.2015/KMLT-Harbor Island

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B / SW8260B  
Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID : MW-7					
Lab ID : ARC15031820-01A	TPH-P (GRO)	1.6	0.25 mg/L	03/27/15	03/27/15
Date Sampled 03/17/15 16:15	Benzene	4.3	1.0 µg/L	03/27/15	03/27/15
	Toluene	6.1	1.0 µg/L	03/27/15	03/27/15
	Ethylbenzene	50	1.0 µg/L	03/27/15	03/27/15
	Xylenes, Total	130	1.0 µg/L	03/27/15	03/27/15
	Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC	03/27/15	03/27/15
	Surr: Toluene-d8	87	(70-130) %REC	03/27/15	03/27/15
	Surr: 4-Bromofluorobenzene	88	(70-130) %REC	03/27/15	03/27/15
Client ID : MW-19					
Lab ID : ARC15031820-02A	TPH-P (GRO)	4.3	0.25 mg/L	03/27/15	03/27/15
Date Sampled 03/17/15 13:55	Benzene	4.9	1.0 µg/L	03/27/15	03/27/15
	Toluene	14	1.0 µg/L	03/27/15	03/27/15
	Ethylbenzene	140	1.0 µg/L	03/27/15	03/27/15
	Xylenes, Total	180	1.0 µg/L	03/27/15	03/27/15
	Surr: 1,2-Dichloroethane-d4	124	(70-130) %REC	03/27/15	03/27/15
	Surr: Toluene-d8	87	(70-130) %REC	03/27/15	03/27/15
	Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/27/15	03/27/15
Client ID : TMW-1					
Lab ID : ARC15031820-03A	TPH-P (GRO)	ND	0.25 mg/L	03/27/15	03/27/15
Date Sampled 03/17/15 15:30	Benzene	ND	0.50 µg/L	03/27/15	03/27/15
	Toluene	ND	0.50 µg/L	03/27/15	03/27/15
	Ethylbenzene	ND	0.50 µg/L	03/27/15	03/27/15
	Xylenes, Total	ND	0.50 µg/L	03/27/15	03/27/15
	Surr: 1,2-Dichloroethane-d4	124	(70-130) %REC	03/27/15	03/27/15
	Surr: Toluene-d8	88	(70-130) %REC	03/27/15	03/27/15
	Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/27/15	03/27/15
Client ID : TMW-2					
Lab ID : ARC15031820-04A	TPH-P (GRO)	ND	0.25 mg/L	03/27/15	03/27/15
Date Sampled 03/17/15 16:10	Benzene	ND	0.50 µg/L	03/27/15	03/27/15
	Toluene	ND	0.50 µg/L	03/27/15	03/27/15
	Ethylbenzene	ND	0.50 µg/L	03/27/15	03/27/15
	Xylenes, Total	ND	0.50 µg/L	03/27/15	03/27/15
	Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC	03/27/15	03/27/15
	Surr: Toluene-d8	89	(70-130) %REC	03/27/15	03/27/15
	Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/27/15	03/27/15



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Client ID :	<b>BD031715</b>						
Lab ID :	ARC15031820-05A	TPH-P (GRO)	2.1	0.25 mg/L	03/27/15	03/27/15	
Date Sampled	03/17/15 00:00	Benzene	5.9	1.0 µg/L	03/27/15	03/27/15	
		Toluene	7.8	1.0 µg/L	03/27/15	03/27/15	
		Ethylbenzene	68	1.0 µg/L	03/27/15	03/27/15	
		Xylenes, Total	170	1.0 µg/L	03/27/15	03/27/15	
		Surr: 1,2-Dichloroethane-d4	128	(70-130) %REC	03/27/15	03/27/15	
		Surr: Toluene-d8	88	(70-130) %REC	03/27/15	03/27/15	
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/27/15	03/27/15	

### Gasoline Range Organics (GRO) C4-C13

ND = Not Detected



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager

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Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



*e*  
3/31/15

**Report Date**



# Alpha Analytical, Inc.

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---

## VOC Sample Preservation Report

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Work Order: ARC15031820

Job: WA000804.2015/KMLT-Harbor Island

---

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15031820-01A	MW-7	Aqueous	2
15031820-02A	MW-19	Aqueous	2
15031820-03A	TMW-1	Aqueous	2
15031820-04A	TMW-2	Aqueous	2
15031820-05A	BD031715	Aqueous	2

---

**3/31/15**  
**Report Date**



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
23-Mar-15

## QC Summary Report

Work Order:  
15031820

### Method Blank

Method Blank		Type	Test Code: EPA Method 300.0							
File ID: 1		MBLK	Batch ID: 34450					Analysis Date: 03/18/2015 11:08		
Sample ID: MBLK-34450	Units: mg/L		Run ID: MANUAL_150318D					Prep Date: 03/18/2015 09:25		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	ND	0.25								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Laboratory Fortified Blank		Type	Test Code: EPA Method 300.0							
File ID: 2		LFB	Batch ID: 34450					Analysis Date: 03/18/2015 11:27		
Sample ID: LFB-34450	Units: mg/L		Run ID: MANUAL_150318D					Prep Date: 03/18/2015 09:25		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	4.82	0.25	5		96	90	110			
Sulfate (SO4)	49.1	0.5	50		98	90	110			

### Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method 300.0							
File ID: 5		LFM	Batch ID: 34450					Analysis Date: 03/18/2015 12:23		
Sample ID: 15031820-01ALFM	Units: mg/L		Run ID: MANUAL_150318D					Prep Date: 03/18/2015 09:25		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	24	1.25	25	0	96	80	120			
Sulfate (SO4)	796	2.5	250	748.2	19	80	120			M2

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method 300.0							
File ID: 6		LFMD	Batch ID: 34450					Analysis Date: 03/18/2015 12:41		
Sample ID: 15031820-01ALFMD	Units: mg/L		Run ID: MANUAL_150318D					Prep Date: 03/18/2015 09:25		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	24.2	1.25	25	0	97	80	120	23.96	0.8(15)	
Sulfate (SO4)	799	2.5	250	748.2	20	80	120	795.7	0.4(15)	M2

### Comments:

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

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



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
19-Mar-15

## QC Summary Report

Work Order:  
15031820

### Method Blank

File ID: 2	Type MBL	Test Code: SM3500-Fe B	Batch ID: W0319FR	Analysis Date: 03/19/2015 00:00						
Sample ID: W0319FR	Units : mg/L	Run ID: MANUAL_150319B	Prep Date: 03/19/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05								

### Laboratory Control Spike

File ID: 1	Type LCS	Test Code: SM3500-Fe B	Batch ID: W0319FR	Analysis Date: 03/19/2015 00:00						
Sample ID: WC150313-01	Units : mg/L	Run ID: MANUAL_150319B	Prep Date: 03/19/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.29	0.05	1.5		86	70	130			

### Sample Matrix Spike

File ID: 4	Type MS	Test Code: SM3500-Fe B	Batch ID: W0319FR	Analysis Date: 03/19/2015 00:00						
Sample ID: 15031305-01AMS	Units : mg/L	Run ID: MANUAL_150319B	Prep Date: 03/19/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.39	0.05	1.5		0 93	66	130			

### Sample Matrix Spike Duplicate

File ID: 5	Type MSD	Test Code: SM3500-Fe B	Batch ID: W0319FR	Analysis Date: 03/19/2015 00:00						
Sample ID: 15031305-01AMSD	Units : mg/L	Run ID: MANUAL_150319B	Prep Date: 03/19/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.38	0.05	1.5		0 92	66	130	1.391	0.7(20)	

### Comments:

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

Ferrous iron samples were color developed promptly after laboratory login.



# Alpha Analytical, Inc.

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

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
31-Mar-15

## QC Summary Report

Work Order:  
15031820

### Method Blank

File ID: 1	Type MBLK	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 14:50						
Sample ID: MBLK-34478	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	ND	0.01								

### Laboratory Control Spike

File ID: 2	Type LCS	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 15:11						
Sample ID: LCS-34478	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	0.354	0.01	0.452		78	54	138			

### Sample Matrix Spike

File ID: 4	Type MS	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 15:53						
Sample ID: 15031820-01AMS	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	4.85	0.01	1.81	3.317	85	43	138			

### Sample Matrix Spike Duplicate

File ID: 5	Type MSD	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 16:14						
Sample ID: 15031820-01AMSD	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	4.75	0.01	1.81	3.317	79	43	138	4.854	2.1(27)	

### Comments:

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Date:  
24-Mar-15

## QC Summary Report

Work Order:  
15031820

### Method Blank

File ID: 2	Type MBLK	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: W0210SU	Units: mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 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: 1	Type LCS	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: WC150217-02	Units: mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.431	0.1	0.5		86	60	140			

### Sample Matrix Spike

File ID: 4	Type MS	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: 15031820-01AMS	Units: mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.64	0.1	0.5	0.1649	95	51	144			

### Sample Matrix Spike Duplicate

File ID: 5	Type MSD	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: 15031820-01AMSD	Units: mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.59	0.1	0.5	0.1649	85	51	144	0.6398	8.1(20)	

### Comments:

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Date:  
31-Mar-15

## QC Summary Report

Work Order:  
15031820

### Method Blank

Type MBLK Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150327\15032704.D

Batch ID: MS06W0327B

Analysis Date: 03/27/2015 09:40

Sample ID: MBLK MS06W0327B

Units: mg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/27/2015 09:40

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	0.0117		0.01		117	70	130			
Surr: Toluene-d8	0.00874		0.01		87	70	130			
Surr: 4-Bromofluorobenzene	0.00849		0.01		85	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150327\15032703.D

Batch ID: MS06W0327B

Analysis Date: 03/27/2015 09:17

Sample ID: GLCS MS06W0327B

Units: mg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/27/2015 09:17

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.432	0.05	0.4		108	70	130			
Surr: 1,2-Dichloroethane-d4	0.0111		0.01		111	70	130			
Surr: Toluene-d8	0.00887		0.01		89	70	130			
Surr: 4-Bromofluorobenzene	0.00937		0.01		94	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150329\15032907.D

Batch ID: MS06W0327B

Analysis Date: 03/29/2015 10:55

Sample ID: 15031820-03AGS

Units: mg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/29/2015 10:55

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.29	0.25	2	0	114	54	143			
Surr: 1,2-Dichloroethane-d4	0.0636		0.05		127	70	130			
Surr: Toluene-d8	0.0422		0.05		84	70	130			
Surr: 4-Bromofluorobenzene	0.0461		0.05		92	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150329\15032908.D

Batch ID: MS06W0327B

Analysis Date: 03/29/2015 11:18

Sample ID: 15031820-03AGSD

Units: mg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/29/2015 11:18

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.25	0.25	2	0	113	54	143	2.286	1.5(23)	
Surr: 1,2-Dichloroethane-d4	0.0652		0.05		130	70	130			
Surr: Toluene-d8	0.0417		0.05		83	70	130			
Surr: 4-Bromofluorobenzene	0.0454		0.05		91	70	130			

### Comments:

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Date:  
31-Mar-15

## QC Summary Report

Work Order:  
15031820

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: C:\HPCHEMMS06\DATA\150327\15032704.D

Batch ID: MS06W0327A

Analysis Date: 03/27/2015 09:40

Sample ID: MBLK MS06W0327A

Units: µg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/27/2015 09:40

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.7		10		117	70	130			
Surr: Toluene-d8	8.74		10		87	70	130			
Surr: 4-Bromofluorobenzene	8.49		10		85	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: C:\HPCHEMMS06\DATA\150327\15032702.D

Batch ID: MS06W0327A

Analysis Date: 03/27/2015 08:26

Sample ID: LCS MS06W0327A

Units: µg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/27/2015 08:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	9.89	0.5	10		99	70	130			
Toluene	10.2	0.5	10		102	80	120			
Ethylbenzene	10.6	0.5	10		106	80	120			
Xylenes, Total	21.7	0.5	20		108	70	130			
Surr: 1,2-Dichloroethane-d4	11.3		10		113	70	130			
Surr: Toluene-d8	9.58		10		96	70	130			
Surr: 4-Bromofluorobenzene	9.51		10		95	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: C:\HPCHEMMS06\DATA\150327\15032731.D

Batch ID: MS06W0327A

Analysis Date: 03/27/2015 19:58

Sample ID: 15031820-03AMS

Units: µg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/27/2015 19:58

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	56.7	1.3	50	0	113	67	134			
Toluene	53.6	1.3	50	0	107	38	130			
Ethylbenzene	56.6	1.3	50	0	113	70	130			
Xylenes, Total	114	1.3	100	0	114	70	130			
Surr: 1,2-Dichloroethane-d4	60.5		50		121	70	130			
Surr: Toluene-d8	47		50		94	70	130			
Surr: 4-Bromofluorobenzene	46.1		50		92	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: C:\HPCHEMMS06\DATA\150329\15032906.D

Batch ID: MS06W0327A

Analysis Date: 03/29/2015 10:32

Sample ID: 15031820-03AMSD

Units: µg/L

Run ID: MSD\_06\_150327A

Prep Date: 03/29/2015 10:32

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	52.8	1.3	50	0	106	67	134	56.67	7.1(21)	
Toluene	48.9	1.3	50	0	98	38	130	53.64	9.3(20)	
Ethylbenzene	52.9	1.3	50	0	106	70	130	56.6	6.8(20)	
Xylenes, Total	106	1.3	100	0	106	70	130	113.8	6.9(22)	
Surr: 1,2-Dichloroethane-d4	58.4		50		117	70	130			
Surr: Toluene-d8	45.8		50		92	70	130			
Surr: 4-Bromofluorobenzene	47.1		50		94	70	130			

### Comments:

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

# CHAIN-OF-CUSTODY RECORD

# WA

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

**WorkOrder : ARCW15031820**  
**Report Due By : 5:00 PM On : 01-Apr-15**

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

**Report Attention** Phone Number Email Address  
 Matt Annis (206) 726-4716 x matt.annis@arcadis-us.com  
 Kyle Haslam (206) 726-4753 x kyle.haslam@arcadis-us.com

EDD Required : Yes

Sampled by : Kyle Haslam, Scott Wenning, Mark

Client's COC # : 12168  
 Job : WA000804.2015/KMLT-Harbor Island

Cooler Temp 4 °C Samples Received 18-Mar-15 Date Printed 18-Mar-15

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

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles		Requested Tests							Sample Remarks
			Alpha	Sub TAT	300_0_W	3500FE_20_S_W	METHANE_W	SULFIDE_W	TPHP_W	VOC_W		
ARC15031820-01A	MMW-7	03/17/15 16:15	9	0	10	NO3_S04	FE+2	CH4	Sulfide	NWTPH-GX	BTXE_C	
ARC15031820-02A	MMW-19	03/17/15 13:55	9	0	10	NO3_S04	FE+2	CH4	Sulfide	NWTPH-GX	BTXE_C	
ARC15031820-03A	TMW-1	03/17/15 15:30	9	0	10	NO3_S04	FE+2	CH4	Sulfide	NWTPH-GX	BTXE_C	Sulfide bottle received contains headspace.
ARC15031820-04A	TMW-2	03/17/15 16:10	9	0	10	NO3_S04	FE+2	CH4	Sulfide	NWTPH-GX	BTXE_C	Sulfide bottle received contains headspace.
ARC15031820-05A	BD031715	03/17/15 00:00	9	0	10					NWTPH-GX	BTXE_C	Additional bottles provided and confirmed with Kyle.

**Comments:** Security seals intact. Frozen ice. CA limits for VOCs. Total Xylenes. Report attention logged in per conversation with Kyle.

Logged in by: K. Annis Signature K. Annis Print Name K. Annis Company Alpha Analytical, Inc. Date/Time 3/18/15 11:10

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-Tradlar B-Brass P-Plastic OT-Other

Company: Robert Morrison Energy Partners  
 Attn: Robert Morrison  
 Address: 1140 Laurel Blvd  
Elkwood, CA 94504  
 City, State, Zip: Elkwood, CA 94504  
 Phone Number: (570) 672-1610



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Report 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: 775-555-1044  
 Fax: 775-555-0406  
 Phone: 916-366-9089  
 Phone: 702-281-4848  
 Phone: 714-386-2901

12168  
 Page # 1 of 1

Company: ALTADES  
 Address: 100 Olive Way Suite 800  
 City, State, Zip: Seattle, WA 98101

Job and Purchase Order Info:  
 Job #: WA0005042015  
 Job Name: KMUT-HALU-ISL

Report Attention/Project Manager:  
 Name: Robert Morrison  
 Email Address: robert.morrison@alpha-analytical.com  
 Phone #: 570-672-1610  
 Cell #:

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

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

Time Sampled (M/D/Y)	Date Sampled (M/D/Y)	Mark* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	Field Filtered?	# Containers** (See Key Below)	Analysis Requested	Remarks
15:30	3/17/15	AQ	ARC15031820-01	MW-7	10h	N	9	GRO(NWTA-G) BTEX(8200B) Nitrate(300.0) Sulfate(300.0) Sulfide(4500-5) Ferrous Iron (SM2500-Fe-B) Methane (RSK-175)	
16:10	3/17/15	AQ	ARC15031820-02	MW-19	10h	N	9	GRO(NWTA-G) BTEX(8200B) Nitrate(300.0) Sulfate(300.0) Sulfide(4500-5) Ferrous Iron (SM2500-Fe-B) Methane (RSK-175)	
16:10	3/17/15	AQ	ARC15031820-03	MW-1	10h	N	9	GRO(NWTA-G) BTEX(8200B) Nitrate(300.0) Sulfate(300.0) Sulfide(4500-5) Ferrous Iron (SM2500-Fe-B) Methane (RSK-175)	
16:10	3/17/15	AQ	ARC15031820-04	MW-2	10h	N	9	GRO(NWTA-G) BTEX(8200B) Nitrate(300.0) Sulfate(300.0) Sulfide(4500-5) Ferrous Iron (SM2500-Fe-B) Methane (RSK-175)	
16:10	3/17/15	AQ	ARC15031820-05	BDO31715	10h	N	9	GRO(NWTA-G) BTEX(8200B) Nitrate(300.0) Sulfate(300.0) Sulfide(4500-5) Ferrous Iron (SM2500-Fe-B) Methane (RSK-175)	

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: Kyle Haslem, Scott Wenzel, & Mike Vliery  
 Date: 3/17/2015 Time: 17:00  
 Received by: Codeo Date: 3/17/15 Time: 17:00  
 Reinquished by: Codeo Date: 3/18/15 Time: 1000

\* Key: AQ - Aqueous WA - Waste OT - Other L - Lier V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other  
 \*\* L - Lier V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other  
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

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

Attn: Kyle Haslam  
Phone: (206) 726-4753  
Fax:  
Date Received : 03/19/15

Job: WA000804.2015/KMLT-Harbor Island

Anions by IC  
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-21				
Lab ID : ARC15031921-02A Nitrate (NO3) - N	ND	2.5 mg/L	03/24/15 12:15	03/24/15 12:15
Date Sampled 03/18/15 15:30 Sulfate (SO4)	1,500	500 mg/L	03/24/15 12:15	03/24/15 12:15
Client ID: A-27				
Lab ID : ARC15031921-03A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 15:52
Date Sampled 03/18/15 11:45 Sulfate (SO4)	3.1	0.50 mg/L	03/19/15 11:50	03/19/15 15:52
Client ID: A-28R				
Lab ID : ARC15031921-04A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 16:11
Date Sampled 03/18/15 10:45 Sulfate (SO4)	4.4	0.50 mg/L	03/19/15 11:50	03/19/15 16:11
Client ID: 11				
Lab ID : ARC15031921-05A Nitrate (NO3) - N	0.43	0.25 mg/L	03/19/15 11:50	03/19/15 16:29
Date Sampled 03/18/15 13:35 Sulfate (SO4)	450	50 mg/L	03/19/15 11:50	03/19/15 16:29
Client ID: 12				
Lab ID : ARC15031921-06A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 16:48
Date Sampled 03/18/15 15:55 Sulfate (SO4)	940	50 mg/L	03/19/15 11:50	03/19/15 16:48
Client ID: MW-9				
Lab ID : ARC15031921-07A Nitrate (NO3) - N	0.57	0.25 mg/L	03/19/15 11:50	03/19/15 17:06
Date Sampled 03/18/15 11:10 Sulfate (SO4)	190	50 mg/L	03/19/15 11:50	03/19/15 17:06
Client ID: MW-21				
Lab ID : ARC15031921-09A Nitrate (NO3) - N	0.28	0.25 mg/L	03/19/15 11:50	03/19/15 17:25
Date Sampled 03/18/15 10:10 Sulfate (SO4)	2.0	0.50 mg/L	03/19/15 11:50	03/19/15 17:25
Client ID: MW-23				
Lab ID : ARC15031921-10A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 17:43
Date Sampled 03/18/15 14:45 Sulfate (SO4)	260	50 mg/L	03/19/15 11:50	03/19/15 17:43
Client ID: MW-24				
Lab ID : ARC15031921-11A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 18:02
Date Sampled 03/18/15 13:45 Sulfate (SO4)	1.2	0.50 mg/L	03/19/15 11:50	03/19/15 18:02
Client ID: TMW-3				
Lab ID : ARC15031921-13A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 18:20
Date Sampled 03/18/15 15:20 Sulfate (SO4)	1,300	100 mg/L	03/19/15 11:50	03/20/15 15:43
Client ID: TMW-4				
Lab ID : ARC15031921-14A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 19:34
Date Sampled 03/18/15 14:30 Sulfate (SO4)	410	50 mg/L	03/19/15 11:50	03/19/15 19:34
Client ID: TMW-5				
Lab ID : ARC15031921-15A Nitrate (NO3) - N	ND	0.25 mg/L	03/19/15 11:50	03/19/15 20:11
Date Sampled 03/18/15 16:45 Sulfate (SO4)	700	50 mg/L	03/19/15 11:50	03/19/15 20:11



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Client ID: TMW-6

Lab ID: ARC15031921-16A Nitrate (NO3) - N

ND

0.25 mg/L

03/19/15 11:50 03/19/15 20:30

Date Sampled 03/18/15 11:45 Sulfate (SO4)

1,000

100 mg/L

03/19/15 11:50 03/20/15 16:02

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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Statement of Data Authenticity: Alpha Analytical, Inc. attests that the data reported has not been altered in any way.



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4/1/15

**Report Date**



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## ANALYTICAL REPORT

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

Attn: Kyle Haslam  
Phone: (206) 726-4753  
Fax:  
Date Received : 03/19/15

Job: WA000804.2015/KMLT-Harbor Island

### Iron by Spectrophotometer SM3500-Fe B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-21 Lab ID : ARC15031921-02A Iron, Ferrous (+2) Date Sampled 03/18/15 15:30	4.2	0.10 mg/L	03/20/15	03/20/15
Client ID: A-27 Lab ID : ARC15031921-03A Iron, Ferrous (+2) Date Sampled 03/18/15 11:45	17	0.50 mg/L	03/20/15	03/20/15
Client ID: A-28R Lab ID : ARC15031921-04A Iron, Ferrous (+2) Date Sampled 03/18/15 10:45	44	1.0 mg/L	03/20/15	03/20/15
Client ID: 11 Lab ID : ARC15031921-05A Iron, Ferrous (+2) Date Sampled 03/18/15 13:35	ND	0.050 mg/L	03/20/15	03/20/15
Client ID: 12 Lab ID : ARC15031921-06A Iron, Ferrous (+2) Date Sampled 03/18/15 15:55	5.5	0.10 mg/L	03/20/15	03/20/15
Client ID: MW-9 Lab ID : ARC15031921-07A Iron, Ferrous (+2) Date Sampled 03/18/15 11:10	ND	0.050 mg/L	03/20/15	03/20/15
Client ID: MW-21 Lab ID : ARC15031921-09A Iron, Ferrous (+2) Date Sampled 03/18/15 10:10	ND	0.050 mg/L	03/20/15	03/20/15
Client ID: MW-23 Lab ID : ARC15031921-10A Iron, Ferrous (+2) Date Sampled 03/18/15 14:45	9.5	0.20 mg/L	03/20/15	03/20/15
Client ID: MW-24 Lab ID : ARC15031921-11A Iron, Ferrous (+2) Date Sampled 03/18/15 13:45	40	1.0 mg/L	03/20/15	03/20/15
Client ID: TMW-3 Lab ID : ARC15031921-13A Iron, Ferrous (+2) Date Sampled 03/18/15 15:20	9.3	0.20 mg/L	03/20/15	03/20/15
Client ID: TMW-4 Lab ID : ARC15031921-14A Iron, Ferrous (+2) Date Sampled 03/18/15 14:30	30	0.50 mg/L	03/20/15	03/20/15
Client ID: TMW-5 Lab ID : ARC15031921-15A Iron, Ferrous (+2) Date Sampled 03/18/15 16:45	0.069	0.050 mg/L	03/20/15	03/20/15





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Client ID: TMW-6

Lab ID: ARC15031921-16A Iron, Ferrous (+2)

2.0

0.050 mg/L

03/20/15

03/20/15

Date Sampled 03/18/15 11:45

Ferrous iron samples were color developed promptly after laboratory login.

ND = Not Detected



*Roger Scholl*     *Randy Gardner*     *Walter Hinchman*  
Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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Report Date



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## ANALYTICAL REPORT

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

Attn: Kyle Haslam  
Phone: (206) 726-4753  
Fax:  
Date Received : 03/19/15

Job: WA000804.2015/KMLT-Harbor Island

Metals by ICPMS  
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: Drum-1				
Lab ID: ARC15031921-17A	Beryllium (Be)	ND	0.0020 mg/L	03/23/15 09:29 03/24/15 14:55
Date Sampled 03/18/15 17:15	Vanadium (V)	ND	0.010 mg/L	03/23/15 09:29 03/24/15 14:55
	Chromium (Cr)	ND	0.010 mg/L	03/23/15 09:29 03/24/15 14:55
	Cobalt (Co)	ND	0.0050 mg/L	03/23/15 09:29 03/24/15 14:55
	Nickel (Ni)	0.022	0.010 mg/L	03/23/15 09:29 03/24/15 14:55
	Copper (Cu)	ND	0.020 mg/L	03/23/15 09:29 03/24/15 14:55
	Zinc (Zn)	ND	0.10 mg/L	03/23/15 09:29 03/24/15 14:55
	Arsenic (As)	0.013	0.0050 mg/L	03/23/15 09:29 03/24/15 14:55
	Selenium (Se)	ND	0.0050 mg/L	03/23/15 09:29 03/24/15 14:55
	Molybdenum (Mo)	ND	0.0050 mg/L	03/23/15 09:29 03/24/15 14:55
	Silver (Ag)	ND	0.0050 mg/L	03/23/15 09:29 03/24/15 14:55
	Cadmium (Cd)	ND	0.0020 mg/L	03/23/15 09:29 03/24/15 14:55
	Antimony (Sb)	0.0033	0.0030 mg/L	03/23/15 09:29 03/24/15 14:55
	Barium (Ba)	0.021	0.0050 mg/L	03/23/15 09:29 03/24/15 14:55
	Mercury (Hg)	ND	0.0010 mg/L	03/23/15 09:29 03/24/15 14:55
	Thallium (Tl)	ND	0.0010 mg/L	03/23/15 09:29 03/24/15 14:55
	Lead (Pb)	0.0089	0.0050 mg/L	03/23/15 09:29 03/24/15 14:55

ND = Not Detected



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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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.



4/1/15

Report Date



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## ANALYTICAL REPORT

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

Attn: Kyle Haslam  
Phone: (206) 726-4753  
Fax:  
Date Received : 03/19/15

Job: WA000804.2015/KMLT-Harbor Island

Dissolved Gases  
Modified Method RSK-175 GC/FID

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-21 Lab ID : ARC15031921-02A Methane Date Sampled 03/18/15 15:30	0.050	0.010 mg/L	03/23/15 12:49	03/23/15 17:38
Client ID: A-27 Lab ID : ARC15031921-03A Methane Date Sampled 03/18/15 11:45	6.7	0.010 mg/L	03/23/15 12:49	03/23/15 17:59
Client ID: A-28R Lab ID : ARC15031921-04A Methane Date Sampled 03/18/15 10:45	7.5	0.010 mg/L	03/23/15 12:49	03/23/15 18:20
Client ID: 11 Lab ID : ARC15031921-05A Methane Date Sampled 03/18/15 13:35	ND	0.010 mg/L	03/23/15 12:49	03/23/15 18:41
Client ID: 12 Lab ID : ARC15031921-06A Methane Date Sampled 03/18/15 15:55	2.2	0.010 mg/L	03/23/15 12:49	03/23/15 19:02
Client ID: MW-9 Lab ID : ARC15031921-07A Methane Date Sampled 03/18/15 11:10	2.9	0.010 mg/L	03/23/15 12:49	03/23/15 19:23
Client ID: MW-21 Lab ID : ARC15031921-09A Methane Date Sampled 03/18/15 10:10	0.55	0.010 mg/L	03/23/15 12:49	03/23/15 20:05
Client ID: MW-23 Lab ID : ARC15031921-10A Methane Date Sampled 03/18/15 14:45	6.5	0.010 mg/L	03/23/15 12:49	03/23/15 20:26
Client ID: MW-24 Lab ID : ARC15031921-11A Methane Date Sampled 03/18/15 13:45	23	0.10 mg/L	03/23/15 12:49	03/27/15 17:20
Client ID: TMW-3 Lab ID : ARC15031921-13A Methane Date Sampled 03/18/15 15:20	1.3	0.010 mg/L	03/23/15 12:49	03/23/15 21:08
Client ID: TMW-4 Lab ID : ARC15031921-14A Methane Date Sampled 03/18/15 14:30	7.5	0.010 mg/L	03/23/15 12:49	03/23/15 21:28
Client ID: TMW-5 Lab ID : ARC15031921-15A Methane Date Sampled 03/18/15 16:45	8.9	0.010 mg/L	03/23/15 12:49	03/23/15 21:49



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Client ID: TMW-6

Lab ID: ARC15031921-16A Methane

0.54

0.010 mg/L

03/23/15 12:49 03/23/15 22:10

Date Sampled 03/18/15 11:45

ND = Not Detected



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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4/1/15

**Report Date**



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## ANALYTICAL REPORT

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

Attn: Kyle Haslam  
Phone: (206) 726-4753  
Fax:  
Date Received : 03/19/15

Job: WA000804.2015/KMLT-Harbor Island

Sulfide  
SM4500-S D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: A-21 Lab ID : ARC15031921-02A Sulfide Date Sampled 03/18/15 15:30	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: A-27 Lab ID : ARC15031921-03A Sulfide Date Sampled 03/18/15 11:45	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: A-28R Lab ID : ARC15031921-04A Sulfide Date Sampled 03/18/15 10:45	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: 11 Lab ID : ARC15031921-05A Sulfide Date Sampled 03/18/15 13:35	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: 12 Lab ID : ARC15031921-06A Sulfide Date Sampled 03/18/15 15:55	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: MW-9 Lab ID : ARC15031921-07A Sulfide Date Sampled 03/18/15 11:10	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: MW-21 Lab ID : ARC15031921-09A Sulfide Date Sampled 03/18/15 10:10	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: MW-23 Lab ID : ARC15031921-10A Sulfide Date Sampled 03/18/15 14:45	0.15	0.10 mg/L	03/23/15	03/23/15
Client ID: MW-24 Lab ID : ARC15031921-11A Sulfide Date Sampled 03/18/15 13:45	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: TMW-3 Lab ID : ARC15031921-13A Sulfide Date Sampled 03/18/15 15:20	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: TMW-4 Lab ID : ARC15031921-14A Sulfide Date Sampled 03/18/15 14:30	ND	0.10 mg/L	03/23/15	03/23/15
Client ID: TMW-5 Lab ID : ARC15031921-15A Sulfide Date Sampled 03/18/15 16:45	0.20	0.10 mg/L	03/23/15	03/23/15



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Client ID: TMW-6

Lab ID : ARC15031921-16A Sulfide

ND

0.10 mg/L

03/23/15

03/23/15

Date Sampled 03/18/15 11:45

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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Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered in any way.

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4/1/15  
**Report Date**



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

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

Attn: Kyle Haslam  
Phone: (206) 726-4753  
Fax:

Job: WA000804.2015/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:	A-5				
Lab ID:	ARC15031921-01A	TPH-P (GRO)	0.40	0.25 mg/L	03/29/15
Date Sampled	03/18/15 12:20	Surr: 1,2-Dichloroethane-d4	128	(70-130) %REC	03/29/15
		Surr: Toluene-d8	86	(70-130) %REC	03/29/15
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/29/15
Client ID:	A-21				
Lab ID:	ARC15031921-02A	TPH-P (GRO)	ND	0.25 mg/L	03/29/15
Date Sampled	03/18/15 15:30	Surr: 1,2-Dichloroethane-d4	128	(70-130) %REC	03/29/15
		Surr: Toluene-d8	84	(70-130) %REC	03/29/15
		Surr: 4-Bromofluorobenzene	82	(70-130) %REC	03/29/15
Client ID:	A-27				
Lab ID:	ARC15031921-03A	TPH-P (GRO)	2.3	0.25 mg/L	03/29/15
Date Sampled	03/18/15 11:45	Surr: 1,2-Dichloroethane-d4	139	S55 (70-130) %REC	03/29/15
		Surr: Toluene-d8	87	(70-130) %REC	03/29/15
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	03/29/15
Client ID:	A-28R				
Lab ID:	ARC15031921-04A	TPH-P (GRO)	3.0	0.25 mg/L	03/29/15
Date Sampled	03/18/15 10:45	Surr: 1,2-Dichloroethane-d4	142	S55 (70-130) %REC	03/29/15
		Surr: Toluene-d8	83	(70-130) %REC	03/29/15
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	03/29/15
Client ID:	11				
Lab ID:	ARC15031921-05A	TPH-P (GRO)	ND	0.25 mg/L	03/29/15
Date Sampled	03/18/15 13:35	Surr: 1,2-Dichloroethane-d4	122	(70-130) %REC	03/29/15
		Surr: Toluene-d8	76	(70-130) %REC	03/29/15
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/29/15
Client ID:	12				
Lab ID:	ARC15031921-06A	TPH-P (GRO)	1.8	0.25 mg/L	03/31/15
Date Sampled	03/18/15 15:55	Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	03/31/15
		Surr: Toluene-d8	100	(70-130) %REC	03/31/15
		Surr: 4-Bromofluorobenzene	116	(70-130) %REC	03/31/15
Client ID:	MW-9				
Lab ID:	ARC15031921-07A	TPH-P (GRO)	ND	0.25 mg/L	03/29/15
Date Sampled	03/18/15 11:10	Surr: 1,2-Dichloroethane-d4	122	(70-130) %REC	03/29/15
		Surr: Toluene-d8	84	(70-130) %REC	03/29/15
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/29/15
Client ID:	MW-18				
Lab ID:	ARC15031921-08A	TPH-P (GRO)	ND	0.25 mg/L	03/29/15
Date Sampled	03/18/15 10:15	Surr: 1,2-Dichloroethane-d4	126	(70-130) %REC	03/29/15
		Surr: Toluene-d8	85	(70-130) %REC	03/29/15
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	03/29/15



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Client ID :	<b>MW-21</b>						
Lab ID :	ARC15031921-09A	TPH-E (DRO), Silica Gel	ND	0.25 mg/L	03/23/15 12:10	03/23/15 16:56	
Date Sampled	03/18/15 10:10	TPH-E (ORO), Silica Gel	ND	0.50 mg/L	03/23/15 12:10	03/23/15 16:56	
		Surr: Nonane, Silica Gel	87	(53-145) %REC	03/23/15 12:10	03/23/15 16:56	
		TPH-P (GRO)	ND	0.25 mg/L	03/29/15	03/29/15	
		Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC	03/29/15	03/29/15	
		Surr: Toluene-d8	86	(70-130) %REC	03/29/15	03/29/15	
		Surr: 4-Bromofluorobenzene	82	(70-130) %REC	03/29/15	03/29/15	
Client ID :	<b>MW-23</b>						
Lab ID :	ARC15031921-10A	TPH-P (GRO)	2.1	0.25 mg/L	03/29/15	03/29/15	
Date Sampled	03/18/15 14:45	Surr: 1,2-Dichloroethane-d4	141	S55 (70-130) %REC	03/29/15	03/29/15	
		Surr: Toluene-d8	83	(70-130) %REC	03/29/15	03/29/15	
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	03/29/15	03/29/15	
Client ID :	<b>MW-24</b>						
Lab ID :	ARC15031921-11A	TPH-P (GRO)	28	2.0 mg/L	03/31/15	03/31/15	
Date Sampled	03/18/15 13:45	Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	03/31/15	03/31/15	
		Surr: Toluene-d8	100	(70-130) %REC	03/31/15	03/31/15	
		Surr: 4-Bromofluorobenzene	108	(70-130) %REC	03/31/15	03/31/15	
Client ID :	<b>BD031815</b>						
Lab ID :	ARC15031921-12A	TPH-P (GRO)	1.4	0.25 mg/L	03/31/15	03/31/15	
Date Sampled	03/18/15 00:00	Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC	03/31/15	03/31/15	
		Surr: Toluene-d8	99	(70-130) %REC	03/31/15	03/31/15	
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	03/31/15	03/31/15	
Client ID :	<b>TMW-3</b>						
Lab ID :	ARC15031921-13A	TPH-P (GRO)	0.62	0.25 mg/L	03/29/15	03/29/15	
Date Sampled	03/18/15 15:20	Surr: 1,2-Dichloroethane-d4	128	(70-130) %REC	03/29/15	03/29/15	
		Surr: Toluene-d8	87	(70-130) %REC	03/29/15	03/29/15	
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	03/29/15	03/29/15	
Client ID :	<b>TMW-4</b>						
Lab ID :	ARC15031921-14A	TPH-P (GRO)	7.5	0.50 mg/L	03/29/15	03/29/15	
Date Sampled	03/18/15 14:30	Surr: 1,2-Dichloroethane-d4	129	(70-130) %REC	03/29/15	03/29/15	
		Surr: Toluene-d8	88	(70-130) %REC	03/29/15	03/29/15	
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/29/15	03/29/15	
Client ID :	<b>TMW-5</b>						
Lab ID :	ARC15031921-15A	TPH-P (GRO)	3.0	0.25 mg/L	03/29/15	03/29/15	
Date Sampled	03/18/15 16:45	Surr: 1,2-Dichloroethane-d4	145	S55 (70-130) %REC	03/29/15	03/29/15	
		Surr: Toluene-d8	84	(70-130) %REC	03/29/15	03/29/15	
		Surr: 4-Bromofluorobenzene	88	(70-130) %REC	03/29/15	03/29/15	
Client ID :	<b>TMW-6</b>						
Lab ID :	ARC15031921-16A	TPH-P (GRO)	5.0	0.30 mg/L	03/31/15	03/31/15	
Date Sampled	03/18/15 11:45	Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	03/31/15	03/31/15	
		Surr: Toluene-d8	98	(70-130) %REC	03/31/15	03/31/15	
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	03/31/15	03/31/15	
Client ID :	<b>Drum-1</b>						
Lab ID :	ARC15031921-17A	TPH-P (GRO)	1.8	0.25 mg/L	03/29/15	03/29/15	
Date Sampled	03/18/15 17:15	Surr: 1,2-Dichloroethane-d4	133	S55 (70-130) %REC	03/29/15	03/29/15	
		Surr: Toluene-d8	87	(70-130) %REC	03/29/15	03/29/15	
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/29/15	03/29/15	





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Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

Oil Range Organics (ORO) C22-C40+

S55 = Surrogate recovery was above laboratory acceptance limits.

ND = Not Detected



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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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.



*RS*

4/1/15

**Report Date**



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## ANALYTICAL REPORT

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

Attn: Kyle Haslam  
Phone: (206) 726-4753  
Fax:  
Date Received : 03/19/15

Job: WA000804.2015/KMLT-Harbor Island

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

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID :	A-5					
Lab ID :	ARC15031921-01A	Benzene	4.5	0.50 µg/L	03/29/15	03/29/15
Date Sampled	03/18/15 12:20	Toluene	1.3	0.50 µg/L	03/29/15	03/29/15
		Ethylbenzene	ND	0.50 µg/L	03/29/15	03/29/15
		Xylenes, Total	1.2	0.50 µg/L	03/29/15	03/29/15
		Surr: 1,2-Dichloroethane-d4	128	(70-130) %REC	03/29/15	03/29/15
		Surr: Toluene-d8	86	(70-130) %REC	03/29/15	03/29/15
		Surr: 4-Bromofluorobenzene	91	(70-130) %REC	03/29/15	03/29/15
Client ID :	A-21					
Lab ID :	ARC15031921-02A	Benzene	ND	0.50 µg/L	03/29/15	03/29/15
Date Sampled	03/18/15 15:30	Toluene	ND	0.50 µg/L	03/29/15	03/29/15
		Ethylbenzene	ND	0.50 µg/L	03/29/15	03/29/15
		Xylenes, Total	ND	0.50 µg/L	03/29/15	03/29/15
		Surr: 1,2-Dichloroethane-d4	128	(70-130) %REC	03/29/15	03/29/15
		Surr: Toluene-d8	84	(70-130) %REC	03/29/15	03/29/15
		Surr: 4-Bromofluorobenzene	82	(70-130) %REC	03/29/15	03/29/15
Client ID :	A-27					
Lab ID :	ARC15031921-03A	Benzene	72	0.50 µg/L	03/29/15	03/29/15
Date Sampled	03/18/15 11:45	Toluene	1.9	0.50 µg/L	03/29/15	03/29/15
		Ethylbenzene	72	0.50 µg/L	03/29/15	03/29/15
		Xylenes, Total	10	0.50 µg/L	03/29/15	03/29/15
		Surr: 1,2-Dichloroethane-d4	139	S55 (70-130) %REC	03/29/15	03/29/15
		Surr: Toluene-d8	87	(70-130) %REC	03/29/15	03/29/15
		Surr: 4-Bromofluorobenzene	93	(70-130) %REC	03/29/15	03/29/15
Client ID :	A-28R					
Lab ID :	ARC15031921-04A	Benzene	42	0.50 µg/L	03/29/15	03/29/15
Date Sampled	03/18/15 10:45	Toluene	3.5	0.50 µg/L	03/29/15	03/29/15
		Ethylbenzene	16	0.50 µg/L	03/29/15	03/29/15
		Xylenes, Total	5.5	0.50 µg/L	03/29/15	03/29/15
		Surr: 1,2-Dichloroethane-d4	142	S55 (70-130) %REC	03/29/15	03/29/15
		Surr: Toluene-d8	83	(70-130) %REC	03/29/15	03/29/15
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	03/29/15	03/29/15
Client ID :	11					
Lab ID :	ARC15031921-05A	Benzene	ND	0.50 µg/L	03/29/15	03/29/15
Date Sampled	03/18/15 13:35	Toluene	ND	0.50 µg/L	03/29/15	03/29/15
		Ethylbenzene	ND	0.50 µg/L	03/29/15	03/29/15
		Xylenes, Total	ND	0.50 µg/L	03/29/15	03/29/15
		Surr: 1,2-Dichloroethane-d4	122	(70-130) %REC	03/29/15	03/29/15
		Surr: Toluene-d8	76	(70-130) %REC	03/29/15	03/29/15
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/29/15	03/29/15



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Client ID :	12				
Lab ID :	ARC15031921-06A	Benzene	5.9	0.50 µg/L	03/31/15 03/31/15
Date Sampled	03/18/15 15:55	Toluene	1.2	0.50 µg/L	03/31/15 03/31/15
		Ethylbenzene	3.0	0.50 µg/L	03/31/15 03/31/15
		Xylenes, Total	24	0.50 µg/L	03/31/15 03/31/15
		Surr: 1,2-Dichloroethane-d4	105	(70-130) %REC	03/31/15 03/31/15
		Surr: Toluene-d8	100	(70-130) %REC	03/31/15 03/31/15
		Surr: 4-Bromofluorobenzene	116	(70-130) %REC	03/31/15 03/31/15

Client ID :	MW-9				
Lab ID :	ARC15031921-07A	Benzene	ND	0.50 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 11:10	Toluene	ND	0.50 µg/L	03/29/15 03/29/15
		Ethylbenzene	ND	0.50 µg/L	03/29/15 03/29/15
		Xylenes, Total	ND	0.50 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	122	(70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	84	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	86	(70-130) %REC	03/29/15 03/29/15

Client ID :	MW-18				
Lab ID :	ARC15031921-08A	Benzene	ND	0.50 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 10:15	Toluene	ND	0.50 µg/L	03/29/15 03/29/15
		Ethylbenzene	ND	0.50 µg/L	03/29/15 03/29/15
		Xylenes, Total	ND	0.50 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	126	(70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	85	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	03/29/15 03/29/15

Client ID :	MW-21				
Lab ID :	ARC15031921-09A	Benzene	ND	0.50 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 10:10	Toluene	ND	0.50 µg/L	03/29/15 03/29/15
		Ethylbenzene	ND	0.50 µg/L	03/29/15 03/29/15
		Xylenes, Total	ND	0.50 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	123	(70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	86	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	82	(70-130) %REC	03/29/15 03/29/15

Client ID :	MW-23				
Lab ID :	ARC15031921-10A	Benzene	56	0.50 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 14:45	Toluene	1.3	0.50 µg/L	03/29/15 03/29/15
		Ethylbenzene	28	0.50 µg/L	03/29/15 03/29/15
		Xylenes, Total	3.9	0.50 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	141	S55 (70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	83	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	92	(70-130) %REC	03/29/15 03/29/15

Client ID :	MW-24				
Lab ID :	ARC15031921-11A	Benzene	1,400	10 µg/L	03/31/15 03/31/15
Date Sampled	03/18/15 13:45	Toluene	66	10 µg/L	03/31/15 03/31/15
		Ethylbenzene	1,800	10 µg/L	03/31/15 03/31/15
		Xylenes, Total	2,600	10 µg/L	03/31/15 03/31/15
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	03/31/15 03/31/15
		Surr: Toluene-d8	100	(70-130) %REC	03/31/15 03/31/15
		Surr: 4-Bromofluorobenzene	108	(70-130) %REC	03/31/15 03/31/15



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Client ID :	<b>BD031815</b>				
Lab ID :	ARC15031921-12A	Benzene	45	1.0 µg/L	03/31/15 03/31/15
Date Sampled	03/18/15 00:00	Toluene	1.1	1.0 µg/L	03/31/15 03/31/15
		Ethylbenzene	24	1.0 µg/L	03/31/15 03/31/15
		Xylenes, Total	2.9	1.0 µg/L	03/31/15 03/31/15
		Surr: 1,2-Dichloroethane-d4	113	(70-130) %REC	03/31/15 03/31/15
		Surr: Toluene-d8	99	(70-130) %REC	03/31/15 03/31/15
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	03/31/15 03/31/15

Client ID :	<b>TMW-3</b>				
Lab ID :	ARC15031921-13A	Benzene	ND	0.50 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 15:20	Toluene	ND	0.50 µg/L	03/29/15 03/29/15
		Ethylbenzene	ND	0.50 µg/L	03/29/15 03/29/15
		Xylenes, Total	ND	0.50 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	128	(70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	87	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	97	(70-130) %REC	03/29/15 03/29/15

Client ID :	<b>TMW-4</b>				
Lab ID :	ARC15031921-14A	Benzene	210	2.5 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 14:30	Toluene	19	2.5 µg/L	03/29/15 03/29/15
		Ethylbenzene	530	2.5 µg/L	03/29/15 03/29/15
		Xylenes, Total	380	2.5 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	129	(70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	88	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/29/15 03/29/15

Client ID :	<b>TMW-5</b>				
Lab ID :	ARC15031921-15A	Benzene	46	1.0 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 16:45	Toluene	6.9	1.0 µg/L	03/29/15 03/29/15
		Ethylbenzene	16	1.0 µg/L	03/29/15 03/29/15
		Xylenes, Total	16	1.0 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	145	S55 (70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	84	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	88	(70-130) %REC	03/29/15 03/29/15

Client ID :	<b>TMW-6</b>				
Lab ID :	ARC15031921-16A	Benzene	3.0	1.5 µg/L	03/31/15 03/31/15
Date Sampled	03/18/15 11:45	Toluene	2.8	1.5 µg/L	03/31/15 03/31/15
		Ethylbenzene	150	1.5 µg/L	03/31/15 03/31/15
		Xylenes, Total	120	1.5 µg/L	03/31/15 03/31/15
		Surr: 1,2-Dichloroethane-d4	110	(70-130) %REC	03/31/15 03/31/15
		Surr: Toluene-d8	98	(70-130) %REC	03/31/15 03/31/15
		Surr: 4-Bromofluorobenzene	109	(70-130) %REC	03/31/15 03/31/15

Client ID :	<b>Drum-1</b>				
Lab ID :	ARC15031921-17A	Benzene	33	1.0 µg/L	03/29/15 03/29/15
Date Sampled	03/18/15 17:15	Toluene	3.3	1.0 µg/L	03/29/15 03/29/15
		Ethylbenzene	79	1.0 µg/L	03/29/15 03/29/15
		Xylenes, Total	76	1.0 µg/L	03/29/15 03/29/15
		Surr: 1,2-Dichloroethane-d4	133	S55 (70-130) %REC	03/29/15 03/29/15
		Surr: Toluene-d8	87	(70-130) %REC	03/29/15 03/29/15
		Surr: 4-Bromofluorobenzene	89	(70-130) %REC	03/29/15 03/29/15



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S55 = Surrogate recovery was above laboratory acceptance limits.

ND = Not Detected



*Roger Scholl*

*Randy Gardner*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager

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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.



*AS*

4/1/15

**Report Date**



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## VOC Sample Preservation Report

Work Order: ARC15031921

Job: WA000804.2015/KMLT-Harbor Island

Alpha's Sample ID	Client's Sample ID	Matrix	pH
15031921-01A	A-5	Aqueous	2
15031921-02A	A-21	Aqueous	2
15031921-03A	A-27	Aqueous	2
15031921-04A	A-28R	Aqueous	2
15031921-05A	11	Aqueous	2
15031921-06A	12	Aqueous	2
15031921-07A	MW-9	Aqueous	2
15031921-08A	MW-18	Aqueous	2
15031921-09A	MW-21	Aqueous	2
15031921-10A	MW-23	Aqueous	2
15031921-11A	MW-24	Aqueous	2
15031921-12A	BD031815	Aqueous	2
15031921-13A	TMW-3	Aqueous	2
15031921-14A	TMW-4	Aqueous	2
15031921-15A	TMW-5	Aqueous	2
15031921-16A	TMW-6	Aqueous	2
15031921-17A	Drum-1	Aqueous	2

4/1/15

Report Date



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Date:  
25-Mar-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

Method Blank		Type	Test Code: EPA Method 300.0							
File ID: 1		MBLK	Batch ID: 34460					Analysis Date: 03/19/2015 12:52		
Sample ID: MBLK-34460	Units: mg/L		Run ID: MANUAL_150319E					Prep Date: 03/19/2015 11:50		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	ND	0.25								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Laboratory Fortified Blank		Type	Test Code: EPA Method 300.0							
File ID: 2		LFB	Batch ID: 34460					Analysis Date: 03/19/2015 13:10		
Sample ID: LFB-34460	Units: mg/L		Run ID: MANUAL_150319E					Prep Date: 03/19/2015 11:50		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	4.72	0.25	5		94	90	110			
Sulfate (SO4)	48.4	0.5	50		97	90	110			

### Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method 300.0							
File ID: 5		LFM	Batch ID: 34460					Analysis Date: 03/19/2015 15:15		
Sample ID: 15031921-02ALFM	Units: mg/L		Run ID: MANUAL_150319E					Prep Date: 03/19/2015 11:50		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	239	12.5	250		0	96	80	120		
Sulfate (SO4)	3620	25	2500		1722	76	80	120		M2

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method 300.0							
File ID: 6		LFMD	Batch ID: 34460					Analysis Date: 03/19/2015 15:34		
Sample ID: 15031921-02ALFMD	Units: mg/L		Run ID: MANUAL_150319E					Prep Date: 03/19/2015 11:50		
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrate (NO3) - N	239	12.5	250		0	96	80	120	238.9	0.1(15)
Sulfate (SO4)	3620	25	2500		1722	76	80	120	3624	0.1(15) M2

#### Comments:

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

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



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Date:  
24-Mar-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

File ID:	Type	Test Code:								Analysis Date:
2	MBLK	SM3500-Fe B								03/20/2015 00:00
Sample ID: W0320FR	Units : mg/L	Run ID: MANUAL_150320A								Prep Date: 03/20/2015 00:00
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	ND	0.05								

### Laboratory Control Spike

File ID:	Type	Test Code:								Analysis Date:
1	LCS	SM3500-Fe B								03/20/2015 00:00
Sample ID: WC150320-01	Units : mg/L	Run ID: MANUAL_150320A								Prep Date: 03/20/2015 00:00
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.38	0.05	1.5		92	70	130			

### Sample Matrix Spike

File ID:	Type	Test Code:								Analysis Date:
7	MS	SM3500-Fe B								03/20/2015 00:00
Sample ID: 15031921-05AMS	Units : mg/L	Run ID: MANUAL_150320A								Prep Date: 03/20/2015 00:00
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.33	0.05	1.5	0	88	66	130			

### Sample Matrix Spike Duplicate

File ID:	Type	Test Code:								Analysis Date:
9	MSD	SM3500-Fe B								03/20/2015 00:00
Sample ID: 15031921-05AMSD	Units : mg/L	Run ID: MANUAL_150320A								Prep Date: 03/20/2015 00:00
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Iron, Ferrous (+2)	1.14	0.05	1.5	0	76	66	130	1.327	15.5(20)	

### Comments:

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

Ferrous iron samples were color developed promptly after laboratory login.





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Date:  
25-Mar-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

Type **MBLK** Test Code: EPA Method SW6020 / SW6020A

File ID: 15			Batch ID: 34747	Analysis Date: 03/24/2015 14:18						
Sample ID: MB-34474	Units : mg/L	Run ID: MANUAL_150324D	Prep Date: 03/23/2015 09:29							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	ND	0.002								
Vanadium (V)	ND	0.01								
Chromium (Cr)	ND	0.01								
Cobalt (Co)	ND	0.005								
Nickel (Ni)	ND	0.01								
Copper (Cu)	ND	0.02								
Zinc (Zn)	ND	0.1								
Arsenic (As)	ND	0.005								
Selenium (Se)	ND	0.005								
Molybdenum (Mo)	ND	0.005								
Silver (Ag)	ND	0.005								
Cadmium (Cd)	ND	0.002								
Antimony (Sb)	ND	0.003								
Barium (Ba)	ND	0.005								
Mercury (Hg)	ND	0.001								
Thallium (Tl)	ND	0.001								
Lead (Pb)	ND	0.005								

### Laboratory Control Spike

Type **LCS** Test Code: EPA Method SW6020 / SW6020A

File ID: 18			Batch ID: 34747	Analysis Date: 03/24/2015 14:40						
Sample ID: LCS-34474	Units : mg/L	Run ID: MANUAL_150324D	Prep Date: 03/23/2015 09:29							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	0.281	0.002	0.25		112	80	120			
Vanadium (V)	0.264	0.01	0.25		106	80	120			
Chromium (Cr)	0.275	0.01	0.25		110	80	120			
Cobalt (Co)	0.277	0.005	0.25		111	80	120			
Nickel (Ni)	0.274	0.01	0.25		110	80	120			
Copper (Cu)	0.277	0.02	0.25		111	80	120			
Zinc (Zn)	0.288	0.1	0.25		115	80	120			
Arsenic (As)	0.27	0.005	0.25		108	80	120			
Selenium (Se)	0.278	0.005	0.25		111	80	120			
Molybdenum (Mo)	0.264	0.005	0.25		105	80	120			
Silver (Ag)	0.286	0.005	0.25		115	80	120			
Cadmium (Cd)	0.281	0.002	0.25		112	80	120			
Antimony (Sb)	0.27	0.003	0.25		108	80	120			
Barium (Ba)	2.68	0.005	2.5		107	80	120			
Mercury (Hg)	0.00455	0.001	0.005		91	80	120			
Thallium (Tl)	0.279	0.001	0.25		112	80	120			
Lead (Pb)	0.278	0.005	0.25		111	80	120			

### Sample Matrix Spike

Type **MS** Test Code: EPA Method SW6020 / SW6020A

File ID: 19			Batch ID: 34747	Analysis Date: 03/24/2015 14:42						
Sample ID: 15031744-02AMS	Units : mg/L	Run ID: MANUAL_150324D	Prep Date: 03/23/2015 09:29							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	0.264	0.002	0.25	0	106	75	125			
Vanadium (V)	0.254	0.01	0.25	0	101	75	125			
Chromium (Cr)	0.32	0.01	0.25	0.05854	105	75	125			
Cobalt (Co)	0.261	0.005	0.25	0	104	75	125			
Nickel (Ni)	0.505	0.01	0.25	0.2585	99	75	125			
Copper (Cu)	0.267	0.02	0.25	0	107	75	125			
Zinc (Zn)	0.303	0.1	0.25	0	121	75	125			
Arsenic (As)	0.272	0.005	0.25	0.008557	105	75	125			
Selenium (Se)	0.281	0.005	0.25	0.0163	106	75	125			
Molybdenum (Mo)	0.288	0.005	0.25	0.03335	102	75	125			
Silver (Ag)	0.27	0.005	0.25	0	108	75	125			
Cadmium (Cd)	0.259	0.002	0.25	0	104	75	125			
Antimony (Sb)	0.276	0.003	0.25	0.01085	106	75	125			
Barium (Ba)	2.59	0.005	2.5	0.03559	102	75	125			
Mercury (Hg)	0.00449	0.001	0.005	0	90	75	125			
Thallium (Tl)	0.262	0.001	0.25	0	105	75	125			
Lead (Pb)	0.261	0.005	0.25	0	104	75	125			



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## QC Summary Report

Date:  
25-Mar-15

Work Order:  
15031921

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW6020 / SW6020A

File ID: 20

Batch ID: 34747

Analysis Date: 03/24/2015 14:45

Sample ID: 15031744-02AMSD

Units : mg/L

Run ID: MANUAL\_150324D

Prep Date: 03/23/2015 09:29

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Beryllium (Be)	0.256	0.002	0.25	0	102	75	125	0.2645	3.2(20)	
Vanadium (V)	0.251	0.01	0.25	0	100	75	125	0.2537	1.1(20)	
Chromium (Cr)	0.311	0.01	0.25	0.05854	101	75	125	0.3198	2.7(20)	
Cobalt (Co)	0.256	0.005	0.25	0	102	75	125	0.2608	2.0(20)	
Nickel (Ni)	0.486	0.01	0.25	0.2585	91	75	125	0.5048	3.7(20)	
Copper (Cu)	0.261	0.02	0.25	0	105	75	125	0.2669	2.1(20)	
Zinc (Zn)	0.297	0.1	0.25	0	119	75	125	0.303	2.2(20)	
Arsenic (As)	0.269	0.005	0.25	0.008557	104	75	125	0.2723	1.2(20)	
Selenium (Se)	0.268	0.005	0.25	0.0163	101	75	125	0.2813	4.9(20)	
Molybdenum (Mo)	0.282	0.005	0.25	0.03335	99.6	75	125	0.2883	2.1(20)	
Silver (Ag)	0.269	0.005	0.25	0	108	75	125	0.2701	0.5(20)	
Cadmium (Cd)	0.258	0.002	0.25	0	103	75	125	0.2592	0.3(20)	
Antimony (Sb)	0.271	0.003	0.25	0.01085	104	75	125	0.276	1.8(20)	
Barium (Ba)	2.56	0.005	2.5	0.03559	101	75	125	2.587	0.9(20)	
Mercury (Hg)	0.00472	0.001	0.005	0	94	75	125	0.004495	5.0(20)	
Thallium (Tl)	0.261	0.001	0.25	0	105	75	125	0.262	0.2(20)	
Lead (Pb)	0.257	0.005	0.25	0	103	75	125	0.2611	1.5(20)	

### Comments:

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



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Date:  
31-Mar-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

File ID: 1	Type MBLK	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 14:50						
Sample ID: MBLK-34478	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	ND	0.01								

### Laboratory Control Spike

File ID: 2	Type LCS	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 15:11						
Sample ID: LCS-34478	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	0.354	0.01	0.452		78	54	138			

### Sample Matrix Spike

File ID: 4	Type MS	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 15:53						
Sample ID: 15031820-01AMS	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	4.85	0.01	1.81	3.317	85	43	138			

### Sample Matrix Spike Duplicate

File ID: 5	Type MSD	Test Code: Modified Method RSK-175 GC/FID	Batch ID: 34478	Analysis Date: 03/23/2015 16:14						
Sample ID: 15031820-01AMSD	Units : mg/L	Run ID: MANUAL_150323G	Prep Date: 03/23/2015 12:49							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methane	4.75	0.01	1.81	3.317	79	43	138	4.854	2.1(27)	

### Comments:

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Date:  
24-Mar-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

File ID: 2	Type MBLK	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: W0210SU	Units : mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 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: 1	Type LCS	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: WC150217-02	Units : mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.431	0.1	0.5		86	60	140			

### Sample Matrix Spike

File ID: 4	Type MS	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: 15031820-01AMS	Units : mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.64	0.1	0.5	0.1649	95	51	144			

### Sample Matrix Spike Duplicate

File ID: 5	Type MSD	Test Code: SM4500-S D	Batch ID: W0323SU	Analysis Date: 03/23/2015 00:00						
Sample ID: 15031820-01AMSD	Units : mg/L	Run ID: MANUAL_150323H	Prep Date: 03/23/2015 00:00							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Sulfide	0.59	0.1	0.5	0.1649	85	51	144	0.6398	8.1(20)	

### Comments:

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Date:  
01-Apr-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	ND	0.25								
TPH-E (ORO), Silica Gel	ND	0.5								
Surr: Nonane, Silica Gel	0.137		0.15		91	53	145			

### Laboratory Control Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.37	0.05	2.5		95	70	130			
Surr: Nonane, Silica Gel	0.173		0.15		115	53	145			

### Sample Matrix Spike

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.56	0.1	2.5	0.266	92	51	151			
Surr: Nonane, Silica Gel	0.183		0.15		122	53	145			

### Sample Matrix Spike Duplicate

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2.47	0.1	2.5	0.266	88	51	151	2.56	3.5(40)	
Surr: Nonane, Silica Gel	0.115		0.15		77	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.

Oil Range Organics (ORO) C22-C40+

Jet Fuel Range Organics (JFRO) C9-C22. JFRO determination is based on its chromatographic fingerprint.

Diesel Range Organics (DRO) C13-C22



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Date:  
01-Apr-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

Type MBLK Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150329\15032904.D

Batch ID: MS06W0329B

Analysis Date: 03/29/2015 09:42

Sample ID: MBLK MS06W0329B

Units : mg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 09:42

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	0.0117		0.01		117	70	130			
Surr: Toluene-d8	0.00853		0.01		85	70	130			
Surr: 4-Bromofluorobenzene	0.00886		0.01		89	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150329\15032905.D

Batch ID: MS06W0329B

Analysis Date: 03/29/2015 10:04

Sample ID: GLCS MS06W0329B

Units : mg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 10:04

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	0.454	0.05	0.4		114	70	130			
Surr: 1,2-Dichloroethane-d4	0.0132		0.01		132	70	130			S55
Surr: Toluene-d8	0.00838		0.01		84	70	130			
Surr: 4-Bromofluorobenzene	0.00909		0.01		91	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150329\15032930.D

Batch ID: MS06W0329B

Analysis Date: 03/29/2015 19:42

Sample ID: 15031903-02AGS

Units : mg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 19:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.62	0.25	2	0.0539	129	54	143			
Surr: 1,2-Dichloroethane-d4	0.0666		0.05		133	70	130			S55
Surr: Toluene-d8	0.0419		0.05		84	70	130			
Surr: 4-Bromofluorobenzene	0.0445		0.05		89	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW8015B/C / SW8260B

File ID: C:\HPCHEM\MS06\DATA\150329\15032931.D

Batch ID: MS06W0329B

Analysis Date: 03/29/2015 20:05

Sample ID: 15031903-02AGSD

Units : mg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 20:05

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	2.79	0.25	2	0.0539	137	54	143	2.624	6.3(23)	
Surr: 1,2-Dichloroethane-d4	0.0667		0.05		133	70	130			S55
Surr: Toluene-d8	0.0424		0.05		85	70	130			
Surr: 4-Bromofluorobenzene	0.0451		0.05		90	70	130			

### Comments:

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

S55 = Surrogate recovery was above laboratory acceptance limits.



# Alpha Analytical, Inc.

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Date:  
01-Apr-15

## QC Summary Report

Work Order:  
15031921

### Method Blank

Type MBLK Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS06\DATA\150329\15032904.D

Batch ID: MS06W0329A

Analysis Date: 03/29/2015 09:42

Sample ID: MBLK MS06W0329A

Units : µg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 09:42

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
Xylenes, Total	ND	0.5								
Surr: 1,2-Dichloroethane-d4	11.7		10		117	70	130			
Surr: Toluene-d8	8.53		10		85	70	130			
Surr: 4-Bromofluorobenzene	8.86		10		89	70	130			

### Laboratory Control Spike

Type LCS Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS06\DATA\150329\15032902.D

Batch ID: MS06W0329A

Analysis Date: 03/29/2015 08:56

Sample ID: LCS MS06W0329A

Units : µg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 08:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	10.1	0.5	10		101	70	130			
Toluene	9.51	0.5	10		95	80	120			
Ethylbenzene	10.2	0.5	10		102	80	120			
Xylenes, Total	20.6	0.5	20		103	70	130			
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.33		10		93	70	130			
Surr: 4-Bromofluorobenzene	9.66		10		97	70	130			

### Sample Matrix Spike

Type MS Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS06\DATA\150329\15032928.D

Batch ID: MS06W0329A

Analysis Date: 03/29/2015 18:56

Sample ID: 15031903-02AMS

Units : µg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 18:56

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	55.6	1.3	50	0	111	67	134			
Toluene	49.5	1.3	50	0	99	38	130			
Ethylbenzene	54.9	1.3	50	0	110	70	130			
Xylenes, Total	109	1.3	100	0	109	70	130			
Surr: 1,2-Dichloroethane-d4	68		50		136	70	130			S55
Surr: Toluene-d8	44.8		50		90	70	130			
Surr: 4-Bromofluorobenzene	44.3		50		89	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method 624/8260

File ID: C:\HPCHEM\MS06\DATA\150329\15032929.D

Batch ID: MS06W0329A

Analysis Date: 03/29/2015 19:19

Sample ID: 15031903-02AMSD

Units : µg/L

Run ID: MSD\_06\_150329A

Prep Date: 03/29/2015 19:19

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Benzene	53.8	1.3	50	0	108	67	134	55.64	3.3(21)	
Toluene	48.2	1.3	50	0	96	38	130	49.46	2.6(20)	
Ethylbenzene	53.4	1.3	50	0	107	70	130	54.94	2.9(20)	
Xylenes, Total	107	1.3	100	0	107	70	130	109.2	2.4(22)	
Surr: 1,2-Dichloroethane-d4	64.2		50		128	70	130			
Surr: Toluene-d8	44.9		50		90	70	130			
Surr: 4-Bromofluorobenzene	45.1		50		90	70	130			

### Comments:

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S55 = Surrogate recovery was above laboratory acceptance limits.





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 : ARCW15031921**  
**Report Due By : 5:00 PM On : 02-Apr-15**

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

Report Attention: Kyle Haslam (206) 726-4753 x  
 Matt Annis (206) 726-4716 x

Phone Number: kyle.haslam@arcadis-us.com  
 Email Address: matt.annis@arcadis-us.com

EDD Required : Yes

Sampled by : Kyle Haslam, Scott Wenning, Mark

Cooler Temp Samples Received Date Printed

0 °C 19-Mar-15 19-Mar-15

Client's COC # : 12170, 12169 Job : WAA000804.2015/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	3500FE_20_S_W	METALS_A_Q	METHANE_W	SULFIDE_W	TPHE_SG_W	TPHP_W	VOC_W	NO3_SO4	FE+2		CH4
ARC15031921-10A	MMW-23	AQ 03/18/15 14:45	9 0 10	NO3_SO4	FE+2	CH4	Sulfide	NWTPH-GK	BTXE_C						
ARC15031921-11A	MMW-24	AQ 03/18/15 13:45	9 0 10	NO3_SO4	FE+2	CH4	Sulfide	NWTPH-GK	BTXE_C						
ARC15031921-12A	BD031815	AQ 03/18/15 00:00	3 0 10												
ARC15031921-13A	TMW-3	AQ 03/18/15 15:20	9 0 10	NO3_SO4	FE+2	CH4	Sulfide	NWTPH-GK	BTXE_C						
ARC15031921-14A	TMW-4	AQ 03/18/15 14:30	9 0 10	NO3_SO4	FE+2	CH4	Sulfide	NWTPH-GK	BTXE_C						
ARC15031921-15A	TMW-5	AQ 03/18/15 16:45	9 0 10	NO3_SO4	FE+2	CH4	Sulfide	NWTPH-GK	BTXE_C						
ARC15031921-16A	TMW-6	AQ 03/18/15 11:45	9 0 10	NO3_SO4	FE+2	CH4	Sulfide	NWTPH-GK	BTXE_C						
ARC15031921-17A	Drum-1	AQ 03/18/15 17:15	4 0 10			CAM_17_TT_IC		NWTPH-GK	BTXE_C						

Comments: Security seals intact. Frozen ice. CA limits for VOCs. Total Xylenes. Client provided temperature blanks received at 0°C. Analyses for 01A, 08A, 12A through 16A corrected on chain by lab. per email from Kyle.

Logged in by: K. Annis Signature: [Signature] Print Name: K. Annis Company: Alpha Analytical, Inc. Date/Time: 3/19/15 1030

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: Alpha Analytical, Inc.  
 Attn: Roderic Merges Energy Partners  
 Address: 10501 Meridian Parkway  
 City, State, Zip: Las Vegas, NV 89120  
 Phone Number: 775-355-1044  
 Fax: 775-355-0406



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
 Northern CA: 9891 Hom Road, Suite C, Rancho Cordova, CA 95827  
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120  
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746

Phone: 775-355-1044  
 Fax: 775-355-0406  
 Phone: 916-386-9089  
 Phone: 702-281-4848  
 Phone: 714-386-2901

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 Page # 1 of 2

Company: ARCADIS  
 Address: 1100 Olive Way, Suite 800  
 City, State, Zip: Seattle, WA 98101  
 Job #: W/A000504 JAS  
 Job Name: WWT - Harbor Island  
 P.O. #: 706-719-6771

Job and Purchase Order Info:  
 Name: Roderic Merges  
 Email Address: Roderic.Merges@arcadis-us.com  
 Phone #: 706-719-6771

Report Attention/Project Manager:  
 Name: Roderic Merges  
 Email Address: Roderic.Merges@arcadis-us.com  
 Phone #: 706-719-6771  
 EDD Required?  Yes  No  
 EDF Required?  Yes  No  
 Global ID: III  
 Data Validation Level: III or IV

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
12:00	3/16/15	AQ	ARC15031921-01	A-5	Day	N	3	GLO (NWTPH-Gx) DRO/HO w/SGC (NWTPH-Dx) BTX (8260B) Nitrate (300.0) Sulfide (300.0) Sulfide (4500-S-D) Ferrous Iron (SM1500-Fe-B) Methane (CSIC 175)	
15:30				A-21			9	X	
11:45				A-27			9	X	
10:45				A-28R			9	X	
13:35				65			9	X	
15:55				66			9	X	
11:10				67			9	X	
10:15				68			3	X	
10:10				69			12	X	
11:45				10			9	X	
12:45				11			9	X	
				12			3	X	

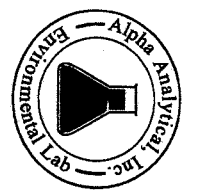
ADDITIONAL INSTRUCTIONS: cc Next Annis, silica gel cleanup on MW-21 only; DRO/HO on MW-21 only

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 445.0536 (c) (2).

Sampled by: Roderic Merges, Scott Wanning, Nick Wiley  
 Requisitioned by: Roderic Merges  
 Date: 3-16-2015 Time: 18:00  
 Received by: COOLERS NHT  
 Requisitioned by: Signature/Affiliation  
 Date: 3/19/15 Time: 09:50

\* Key: AQ - Aqueous WA - Waste OT - Other \*\* L - Litter V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other  
 NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. This 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:  
 Kyle Heston Energy Retors  
 Kyle Heston Energy Retors  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_  
 Fax: \_\_\_\_\_



Alpha Analytical, Inc.  
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431  
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 Northern CA: 9911 Horn Road, Suite C, Rancho Cordova, CA 95827  
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 Phone: 702-281-4948  
 Phone: 714-386-2901

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Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_

Job and Purchase Order Info:  
 Job #: \_\_\_\_\_  
 Job Name: \_\_\_\_\_  
 P.O. #: \_\_\_\_\_

Report Attorney/Project Manager:  
 Name: \_\_\_\_\_  
 Email Address: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Cell #: \_\_\_\_\_

QC Deliverable Info:  
 EDD Required?  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)	6-RO (NUTPH-6x)	BTEX (8260 B)	Nitrate (300.0)	Sulfate (300.0)	Sulfide (4502 SD)	Ferrous Iron (SM 2500-Fe-13)	Methane (MSK-195)	CAM 17 Metals	Remarks
15:20	1/15	AQ	ARCIS031921	TW-3	0-4	N	9	X	X	X	X	X	X	X	X	
16:45	1/15			TW-4			9	X	X	X	X	X	X	X	X	
16:45	1/15			TW-5			9	X	X	X	X	X	X	X	X	
17:15	1/15			TW-6			9	X	X	X	X	X	X	X	X	
				Drum-1			4	X	X	X	X	X	X	X	X	

ADDITIONAL INSTRUCTIONS: CC Next Annis

(Field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 446.0636 (c) (2).

Sampled By: Kyle Heston, Scott Manning, Mark Ullery  
 Date: 3-18-2015  
 Time: 18:00

Relinquished By: Kyle Heston  
 Date: 3-18-2015  
 Time: 18:00

Relinquished By: (Signature/Affiliation):  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

\* Key: AQ - Aqueous WA - Waste OT - Other  
 L - Lifer V - VOA S - Soil Jar O - Orho T - Teflar B - Brass P - Plastic  
 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.