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Memorandum

To:	Greg Andrina and John Rork – Puget Sound Energy
From:	Rob Leet and Steve Woodward
Date:	September 5, 2014
File:	0186-914-02-0400
Subject:	Soil and Groundwater Data Summary – Limited Environmental Site Assessment PSE Tacoma LNG Project

INTRODUCTION

This memorandum presents soil and groundwater analytical results obtained as part of a limited environmental site assessment (ESA) conducted for Puget Sound Energy's Tacoma Liquefied Natural Gas (LNG) Project. The soil and groundwater sampling was completed between May 20 and June 2, 2014 in general accordance with the April 24, 2014 sampling and analysis plan (SAP). The SAP provides details about the project background, field methods, and the analytical testing program.

In this document and the SAP, project-specific cardinal directions are used when describing locations of site features and sampling locations. Consistent with past projects conducted on the Blair-Hylebos Peninsula by the Port of Tacoma (Port) and others, "project north" corresponds approximately to true northwest (Figure 1).

DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN

Borings logs for the ESA soil borings are attached. The following deviations from the SAP occurred during the ESA soil and groundwater sampling:

- A sonic drilling rig was used to complete six of the nine borings inside the warehouse (Building 50; borings B-9 and B-12 through B-16) and one boring outside the warehouse (boring B-19). Initial attempts to complete the subject borings in the warehouse with a direct-push rig were unsuccessful due to repeated drilling refusals encountered within the structural fill beneath the building.
- For the borings completed inside the warehouse, "ground surface" was defined as the warehouse floor. In these borings, the soil samples that were originally planned to be collected at depths of 2 feet below ground surface (bgs) and 8 feet bgs were instead collected at depths between 6 and 8 feet bgs and 11 and 13 feet bgs to account for the warehouse floor being elevated approximately 5 feet above the surrounding site grade. The warehouse floor appeared to be constructed on structural fill. A similar adjustment was not made to groundwater sampling depths.
- Four samples of the apparent structural fill pad beneath the warehouse were collected for analytical testing. These samples were not originally scoped in the SAP.
- A groundwater sample was not obtained from 25 feet bgs in boring B-15 (Figure 1) due to low groundwater yield.

- Groundwater was not purged from the temporary well casing and water quality field parameters were not measured prior to collecting the 25-foot bgs groundwater sample in boring B-12 and the 50-foot bgs groundwater sample in boring B-16 due to low groundwater yield at the target depth interval. Consequently, these groundwater samples may not be representative of the targeted intervals.
- Soil and groundwater samples originally planned to be analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethylbenzene, and xylenes (BTEX) by Methods NWTPH-Gx and 8021 (per SAP Table 2) were analyzed for BTEX by Method 8021 only if the samples were not analyzed by Method 8260 (BTEX compounds are included on the Method 8260 target analyte list).

ANALYTICAL RESULTS

The analytical results for the soil and groundwater samples are presented in Tables 1 and 2. The results are compared to potentially applicable risk-based screening levels developed for the Alexander Avenue Petroleum Tank Facilities Site Remedial Investigation/Feasibility Study Work Plan (Port Work Plan; Aspect Consulting, 2014). These screening levels consider protection of marine surface water, Model Toxics Control Act (MTCA) cleanup levels for industrial sites, and MTCA Method C groundwater screening levels published in the Washington Department of Ecology's current vapor intrusion guidance (Ecology Publication no. 09-09-047; October 2009), and reflect current toxicological information provided in Ecology's Cleanup Levels and Risk Calculations (CLARC) database. The soil screening levels for lead and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) published in the Port Work Plan have been adjusted in Table 1, based on discussions with the Port, to account for an empirical demonstration (based on existing groundwater data) that concentrations of these constituents in soil are protective of the soil-to-groundwater-to-surface water pathway. Additionally, the Federal drinking water Maximum Contaminant Level (MCL) for arsenic is included in Table 2 for comparison; the arsenic MCL has been proposed as a potential surface water cleanup level (Ecology, 2014).

Further evaluation of the data may be completed as necessary, including comparison of the soil analytical results to appropriate criteria for determining reuse and/or disposal options for soil that may be excavated during future construction activities.

The quality of the laboratory analytical data was reviewed in accordance with United States Environmental Protection Agency guidelines for Stage 2A data validation. The laboratory data quality review is summarized in the attached data validation report. The results of the data quality review indicate that the analytical data are useable for their intended purpose. However, based on a review of sampling procedures and field observations, some of the analytical data may not be representative of site conditions. These suspect data are identified below in the discussion of analytical results.

Soil Analytical Results

The soil analytical results are presented in Table 1. The following analytes were detected in soil at concentrations exceeding Port screening levels:

- Total petroleum hydrocarbons as diesel (TPH-D)
- Bis(2-ethylhexyl)phthalate (BEHP)

BEHP slightly exceeded the associated screening level in a soil sample obtained from 8 feet bgs in boring B-18, and TPH-D exceeded the associated screening level in a sample obtained from 8 feet bgs in boring B-20 (Table 1, Figure 1). The BEHP detection in boring B-18 was the only detection of BEHP reported in soil. This detection may reflect laboratory contamination of the sample, as BEHP is a common laboratory contaminant.

The estimated southerly extent of soil contamination (screening level exceedances) inferred to be related to the former petroleum bulk storage facility based on the ESA results is shown in Figure 1.

Groundwater Analytical Results

The groundwater analytical results are presented in Table 2. The following analytes were detected in groundwater at concentrations exceeding Port screening levels:

- TPH-D
- Total petroleum hydrocarbons as lube oil (TPH-LO)
- Benzene
- Metals (arsenic, chromium, copper, and lead)
- BEHP
- pH

Concentrations of one or more of these analytes exceeded screening levels in groundwater samples obtained from six borings completed in the warehouse (B-10, B-12, B-13, B-14, B-15, and B-16), two borings completed north of the warehouse (B-21 and B-24), and two borings completed near the Hylebos Waterway embankment (B-17 and B-19) (Table 2, Figure 1). The samples with exceedances were collected at depths ranging from approximately 11 feet to 51 feet bgs. Chlorinated volatile organic compounds, which are the primary constituents of concern in groundwater beneath the Occidental Chemical Corporation (OCC) Site north of Parcel 2, were not detected in the ESA groundwater samples.

The results for constituents detected above screening levels are summarized as follows:

- Metals (arsenic, chromium, copper, and lead) were the most prevalent analytes that exceeded screening levels. The groundwater samples submitted for metals analysis were filtered in the field (using a disposable 0.45-micron filter) to reduce potential high bias of results from suspended particulates. The highest metal concentrations were detected in the samples obtained from approximately 23 feet and 50 feet bgs in boring B-16. However, some of the metals data may not be representative of groundwater conditions, as discussed below.
    - Solids were observed at the bottom of the 23- and 50-foot bgs filtered samples obtained from boring B-16, suggesting that filter breakthrough occurred. Consequently, the metals results for these samples may be biased high.
    - As previously noted, the 25-foot bgs sample from B-12 and the 50-foot bgs sample from B-16 may not be representative of the targeted depth interval because groundwater was not purged from the temporary well casing prior to collecting these samples (due to low groundwater yield).

- Elevated electrical conductivity (greater than 0.750 millisiemens per centimeter [mS/cm]) was observed in all but one of the samples in which metals exceeded screening levels. High conductivity can indicate elevated salinity, which can cause analytical interferences and high bias of metals analyses (Port, personal communication). Four of the samples (B-10 at 50 feet, B-13 at 15 feet, B-15 at 15 feet, and B-17 at 25 feet) exceeded the Port Work Plan criterion of 1.0 mS/cm for triggering laboratory sample preparation using the reductive precipitation procedure, which can reduce salinity-related interferences. Reductive precipitation was not used in this limited ESA. Consequently, based on discussions with the Port, the metals results for the subject samples obtained from borings B-10, B-13, B-15, and B-17 may be biased high due to elevated salinity in these samples.

- BEHP was detected slightly above the screening level in a groundwater sample obtained from boring B-17. Like the single BEHP detection in soil, this single BEHP detection in groundwater may reflect laboratory contamination.
- Groundwater exceedances of TPH-D and/or TPH-LO were detected at borings B-12 (27 feet bgs: TPH-LO only), B-14 (26 feet bgs: TPH-D and TPH-LO), and B-24 (11 feet bgs: TPH-LO only). These detections are not contiguous with previously reported detections of TPH-D or TPH-LO in soil or groundwater beneath the former petroleum bulk storage facility in the northern portion of Parcel 2 (Port, personal communication). TPH-D and TPH-LO are subject to high bias in unfiltered groundwater grab samples. Additionally, due to low groundwater yield at 27 feet bgs in boring B-12, this sample was collected without first purging the temporary well casing. Therefore, the TPH-D and TPH-LO data may not be representative of groundwater conditions.
- Groundwater exceedances of benzene were detected at borings B-12 (27 feet bgs), B-13 (25 feet bgs), B-21 (26 feet bgs), and B-24 (11 feet and 28 feet bgs). These exceedances are consistent with previously reported detections of petroleum constituents in groundwater beneath the former petroleum bulk storage facility in the northern portion of Parcel 2.
- Three pH exceedances (values greater than 8.5) were detected, at borings B-16, B-19, and B-24. These exceedances range between 8.60 and 8.90, which is only slightly higher than the typical pH range of marine waters, and are not contiguous with exceedances of pH in groundwater beneath the OCC Site (Port, personal communication).

The previously estimated (in the SAP) southerly extent of groundwater contamination (screening level exceedances) inferred to be related to the OCC Site and/or the former petroleum bulk storage facility has been revised based on the ESA results; the revised extent is shown in Figure 1.

References

Aspect Consulting, 2014. Work Plan For Remedial Investigation/Feasibility Study, Alexander Avenue Petroleum Tank Facilities Site, Tacoma, Washington, Ecology Facility Site No. 1377/Cleanup Site No. 743. Prepared for Port of Tacoma and Mariana Properties Inc.

Washington Department of Ecology, 2009. Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action (Review Draft). Publication No. 09-09-047. October 2009.

Washington Department of Ecology, 2014. Washington Human Health Criteria Review Documents (Draft). Revised August 8, 2014.

Attachments:

Figure 1 – Site Plan Showing Constituents Exceeding Screening Levels in ESA Samples
Table 1 – Soil Analytical Data Summary
Table 2 – Groundwater Analytical Data Summary
Data Validation Report
Boring Logs

RCL:rcl

P:\01\018691.4\02\CAD\Task 400 Soil GW Evaluation\018691.4-02 Fig 1 Site Plan w_May-June 2014 Sampling Results.dwg\TAB:LANDSCAPE (2) MODIFIED BY THICHAUD ON SEP 04, 2014 - 13:53

Project North

True North

200 0 200

FEET

HYLEBOS WATERWAY

LIMITS OF NAVIGATION CHANNEL

PARCEL 4 EMBANKMENT AREA REMOVAL ACTION (Metals)

PIERHEAD LINE

UST P-25 (Diesel)
(No Detectable Petroleum Impacts in Shallow Soil or Groundwater, 0'-12')

FORMER SEPTIC TANK SITE

GW (26'): Cu*, BEHP***

PIER 60
(Former Fueling Pier)

Soil (8'): BEHP***

GW (27'): TPH-LO, Benz

OCC EMBANKMENT AREA REMOVAL ACTION
(VOCs, SVOCs, Pesticides, Metals)

GW (25'): pH

OLD BOILER HOUSE/ STEAM PLANT

B-17

B-23

FORMER TRANSFORMER PAD

B-18

B-25

FORMER USTs 1, 1x, 2, 3
(Diesel, Heating Oil)

B-19

B-26

PARCEL 4

FORMER TANK CAR UNLOADING PIT

B-20

B-11

B-12

B-24

WAREHOUSE (BUILDING 50)

GW (15'): As, Cu, Pb*
GW (25'): Benz

Soil (8'): TPH-D

B-13

GW (23'): As, Cr, Cu
GW (51'): As, Cr, Cu, Pb*

GW (11'): TPH-LO, Benz
GW (28'): Benz, pH

B-21

FORMER UST 4
(Diesel)

B-5

BOILER HOUSE

GW (26'): Benz

B-14

B-10

B-4

FORMER MAINTENANCE SHOPS

PIPELINE

GW (13'): As
GW (26'): TPH-D, TPH-LO, Cu

B-22

B-15

PARCEL 2

B-3

MUNICIPAL WATER SUPPLY

B-9

B-2

GW (15'): As*

CONCRETE VAULT

B-16

B-8

GW (23'): As, Cr, Cu, Pb**, pH
GW (50'): As, Cr, Cu, Pb**, pH

PARCEL 119

B-1

FORMER UST 5
(Heating Oil)

B-7

B-6

EAST ALEXANDER AVENUE

TRANSFORMER VAULT
(Petroleum Impacts < MTCA-A in Shallow Soil, 3'; No Detectable PCBs)

FORMER SPENT HAZARDOUS MATERIAL STORAGE AREA
(Used Oil, Antifreeze, Flammable Solvents and Debris)

EAST 11TH STREET

TAYLOR WAY

UST P-24 (Gasoline)
(No Detectable Petroleum Impacts in Shallow Soil or Groundwater, 0'-12')

Legend

Previous Sampling Locations

- Previous Soil and/or Groundwater Grab Sample Locations (represents one or more samples collected at locations shown)

May-June 2014 ESA Sampling Locations

- Soil Boring
- Soil Boring with Soil Samples Tested for Full Analytical Suite
- Shallow (11') Groundwater Sample
- Shallow (11') and Deep (25' and/or 50') Groundwater Samples
- Estimated Extent of Soil Contamination Inferred to be Related to Former Petroleum Bulk Storage Facility
- Estimated Extent of Groundwater Contamination Inferred to be Related to OCC Site and/or Former Petroleum Bulk Storage Facility - 10-15 Foot Depth Zone (May-June 2014; Metals and pH Data Not Used in Delineating Extent)
- Estimated Extent of Groundwater Contamination Inferred to be Related to OCC Site and/or Former Petroleum Bulk Storage Facility - 20-30 Foot Depth Zone (May-June 2014; Metals and pH Data Not Used in Delineating Extent)

GW = Groundwater
(28') = 28 Feet Below Ground Surface (example)
UST = Underground Storage Tank
OCC = Occidental Chemical Corporation
VOCs = Volatile Organic Compounds
SVOCs = Semivolatile Organic Compounds
PCBs = Polychlorinated Biphenyls
MTCA-A = Model Toxics Control Act Method A Cleanup Levels
As = Arsenic
Cr = Chromium
Cu = Copper
Pb = Lead
Benz = Benzene
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-LO = Total Petroleum Hydrocarbons as Lube Oil
BEHP = Bis(2-ethylhexyl)phthalate
* = Metals results for this sample may be biased high due to elevated salinity.
** = Metals results for this sample may be biased high due to the presence of solids in the filtered sample.
*** = Possible laboratory contaminant

Notes

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: Preliminary Plot Plan by CH-IV International dated 1/29/14.

Site Plan Showing Constituents Exceeding Screening Levels in ESA Samples

Puget Sound Energy
Tacoma LNG Project
Tacoma, Washington

GeoEngineers

Figure 1

TABLE 1

SOIL ANALYTICAL DATA SUMMARY

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	B-1-2.0 2-3 ft	B-1-8.0 7-8 ft	B-2-2.0 1.5-2.5 ft	B-2-8.0 8-9 ft	B-3-2.0 1.5-2.5 ft	B-3-8.0 7-8.5 ft	B-4-2.0 1.5-2.5 ft	B-4-8.0 7-8 ft	B-5-2.0 2-3 ft	B-5-8.0 7.5-8.5 ft	B-6-2.0 2-3 ft	B-6-8.0 7-8 ft	B-7-2.0 1.5-2.5 ft	B-7-8.0 8-9 ft	B-8-6.0 5.5-6.5 ft	B-8-11.0 10.5-11.5 ft	B-9-7.0 6-7.5 ft	B-9-13.0 13-14 ft	B-10-2.0 1.5-2.5 ft (fill)	B-10-7.0 6.5-7.5 ft	B-10-13.0 12-13.5 ft	B-11-8.0 8-9 ft	B-11-12.0 11.5-13 ft	B-12-2.0 2 ft (fill)	B-12-7.0 7 ft	B-12-13.0 13 ft	B-13-7.0 7-8 ft
BTEX	5035A/8021	Benzene	mg/Kg	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	5035A/8021	Ethylbenzene	mg/Kg	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	5035A/8021	Toluene	mg/Kg	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	5035A/8021	Xylene, m-,p-	mg/Kg	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	5035A/8021	Xylene, o-	mg/Kg	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fuels	NWTPH-Gx	Total petroleum hydrocarbons as gasoline	mg/Kg	30	6.6 U	8.7 U	6.8 U	7.3 U	5.4 U	6.8 U	7.9 U	8.2 U	--	--	--	--	6.7 U	8.2 U	--	--	--	--	5.6 U	5.3 U	6.6 U	--	--	6.7 U	7.3 U	6.9 U	--
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as diesel**	mg/Kg	2000	150 U	35 U	29 U	32 U	27 U	32 U	34 U	37 U	27 U	32 U	27 U	30 U	27 U	32 U	26 U	34 U	27 U	34 U	27 U	26 U	36 U	40 U	35 U	30 U	31 U	31 U	26 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as lube oil**	mg/Kg	2000	**1800**	71 U	59 U	63 U	54 U	65 U	67 U	73 U	55 U	64 U	53 U	59 U	54 U	65 U	53 U	68 U	54 U	67 U	54 U	52 U	72 U	79 U	70 U	61 U	62 U	61 U	52 U
Metals	6010/6020	Arsenic	mg/Kg	20	12 U	14 U	12 U	13 U	11 U	13 U	13 U	15 U	11 U	13 U	11 U	12 U	11 U	13 U	11 U	14 U	11 U	13 U	11 U	10 U	14 U	16 U	14 U	12 U	12 U	12 U	10 U
Metals	6010/6020	Cadmium	mg/Kg	--	0.60 U	0.71 U	0.59 U	0.63 U	0.54 U	0.64 U	0.67 U	0.73 U	0.55 U	0.64 U	0.53 U	0.59 U	0.54 U	0.65 U	0.53 U	0.68 U	0.54 U	0.67 U	0.54 U	0.52 U	0.72 U	0.79 U	0.70 U	0.61 U	0.62 U	0.61 U	0.52 U
Metals	6010/6020	**Chromium**	mg/Kg	1000	**11**	**8.5**	**14**	**11**	**18**	**11**	**7.9**	**20**	**9.5**	**9.5**	**8.2**	**7.5**	**14**	**9.5**	**7.8**	**12**	**8.6**	**13**	**33**	**7.6**	**18**	**16**	**8.1**	**30**	**7.6**	**9.7**	**11**
Metals	6010/6020	**Copper**	mg/Kg	36	**12**	**7.9**	**9.5**	**7.3**	**14**	**11**	**12**	**30**	**12**	**11**	**8.6**	**6.7**	**10**	**9.6**	**8.1**	**20**	**9.4**	**13**	**11**	**9.1**	**33**	**20**	**11**	**11**	**7.7**	**8.4**	**13**
Metals	6010/6020	**Lead**	mg/Kg	1000 (a)	6.0 U	7.1 U	5.9 U	6.3 U	**69**	**7.4**	6.7 U	7.3 U	5.5 U	6.4 U	5.3 U	5.9 U	5.4 U	6.5 U	5.3 U	6.8 U	5.4 U	6.7 U	5.4 U	5.2 U	7.2 U	7.9 U	7.0 U	6.1 U	6.2 U	6.1 U	5.2 U
Metals	7471	Mercury	mg/Kg	--	0.30 U	0.35 U	0.29 U	0.32 U	0.27 U	0.32 U	0.34 U	0.37 U	0.27 U	0.32 U	0.27 U	0.30 U	0.27 U	0.32 U	0.26 U	0.34 U	0.27 U	0.34 U	0.27 U	0.26 U	0.36 U	0.40 U	0.35 U	0.30 U	0.31 U	0.31 U	0.26 U
PCBs	8082	PCB-aroclor 1016	mg/Kg	--	0.0030 U	0.0035 U	0.0029 U	0.0032 U	0.0027 U	0.0032 U	0.0034 U	0.0037 U	--	--	--	--	0.0027 U	0.0032 U	--	--	--	--	0.0025 U	0.0026 U	0.0036 U	--	--	0.0030 U	0.0031 U	0.0031 U	--
PCBs	8082	PCB-aroclor 1221	mg/Kg	--	0.0030 U	0.0035 U	0.0029 U	0.0032 U	0.0027 U	0.0032 U	0.0034 U	0.0037 U	--	--	--	--	0.0027 U	0.0032 U	--	--	--	--	0.0025 U	0.0026 U	0.0036 U	--	--	0.0030 U	0.0031 U	0.0031 U	--
PCBs	8082	PCB-aroclor 1232	mg/Kg	--	0.0030 U	0.0035 U	0.0029 U	0.0032 U	0.0027 U	0.0032 U	0.0034 U	0.0037 U	--	--	--	--	0.0027 U	0.0032 U	--	--	--	--	0.0025 U	0.0026 U	0.0036 U	--	--	0.0030 U	0.0031 U	0.0031 U	--
PCBs	8082	PCB-aroclor 1242	mg/Kg	--	0.0030 U	0.0035 U	0.0029 U	0.0032 U	0.0027 U	0.0032 U	0.0034 U	0.0037 U	--	--	--	--	0.0027 U	0.0032 U	--	--	--	--	0.0025 U	0.0026 U	0.0036 U	--	--	0.0030 U	0.0031 U	0.0031 U	--
PCBs	8082	PCB-aroclor 1248	mg/Kg	--	0.0030 U	0.0035 U	0.0029 U	0.0032 U	0.0027 U	0.0032 U	0.0034 U	0.0037 U	--	--	--	--	0.0027 U	0.0032 U	--	--	--	--	0.0025 U	0.0026 U	0.0036 U	--	--	0.0030 U	0.0031 U	0.0031 U	--
PCBs	8082	PCB-aroclor 1254	mg/Kg	--	0.0030 U	0.0035 U	0.0029 U	0.0032 U	0.0027 U	0.0032 U	0.0034 U	0.0037 U	--	--	--	--	0.0027 U	0.0032 U	--	--	--	--	0.0025 U	0.0026 U	0.0036 U	--	--	0.0030 U	0.0031 U	0.0031 U	--
PCBs	8082	**PCB-aroclor 1260**	mg/Kg	--	0.0030 U	0.0035 U	0.0029 U	0.0032 U	0.0027 U	0.0032 U	0.0034 U	0.0037 U	--	--	--	--	0.0027 U	0.0032 U	--	--	--	--	0.0025 U	0.0026 U	0.0036 U	--	--	0.0030 U	0.0031 U	0.0031 U	--
PAHs	8270	**1-Methylnaphthalene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**2-Methylnaphthalene**	mg/Kg	320	0.040 U	0.0094 U	0.0078 U	0.0084 U	**0.0074**	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Acenaphthene**	mg/Kg	0.5	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Acenaphthylene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Anthracene**	mg/Kg	1	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Benzo(g,h,i)perylene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Fluoranthene**	mg/Kg	2.5	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Fluorene**	mg/Kg	0.6	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Naphthalene**	mg/Kg	2.6	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Phenanthrene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
PAHs	8270	**Pyrene**	mg/Kg	3.3	0.040 U	0.0094 U	0.0078 U	0.0084 U	**0.0089**	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	**Benzo(a)anthracene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	**Benzo(a)pyrene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	**Benzo(b)fluoranthene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	**Benzo(j,k)fluoranthene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	**Chrysene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	Dibenzo(a,h)anthracene	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	**Indeno(1,2,3-cd)pyrene**	mg/Kg	--	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
cPAHs	8270-SIM	**Total cPAHs TEC (ND=0.5MRL)**	mg/Kg	18 (a)	0.030 U	0.0071 U	0.0059 U	0.0063 U	0.0054 U	0.0065 U	0.0068 U	0.0073 U	--	--	--	--	0.0054 U	0.0065 U	--	--	--	--	0.0054 U	0.0052 U	0.0072 U	--	--	0.0061 U	0.0063 U	0.0062 U	--
SVOCs	8270	1,2,4-Trichlorobenzene	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	1,2-Diphenylhydrazine	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	1,3-Dinitrobenzene	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,3,4,6-Tetrachlorophenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,3,5,6-Tetrachlorophenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,3-DICHLOROANILINE	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,4,5-Trichlorophenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,4,6-Trichlorophenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,4-Dichlorophenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,4-Dimethylphenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,4-Dinitrophenol	mg/Kg	--	1.0 U	0.24 U	0.20 U	0.21 U	0.18 U	0.21 U	0.22 U	0.24 U	--	--	--	--	0.18 U	0.22 U	--	--	--	--	0.18 U	0.17 U	0.24 U	--	--	0.20 U	0.21 U	0.20 U	--
SVOCs	8270	2,4-Dinitrotoluene	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2,6-Dinitrotoluene	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2-Chloronaphthalene	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2-Chlorophenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2-Nitroaniline	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	2-Nitrophenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	3,3'-Dichlorobenzidine	mg/Kg	--	1.0 U	0.24 U	0.20 U	0.21 U	0.18 U	0.21 U	0.22 U	0.24 U	--	--	--	--	0.18 U	0.22 U	--	--	--	--	0.18 U	0.17 U	0.24 U	--	--	0.20 U	0.21 U	0.20 U	--
SVOCs	8270	3-Nitroaniline	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	4,6-Dinitro-2-Methylphenol	mg/Kg	--	1.0 U	0.24 U	0.20 U	0.21 U	0.18 U	0.21 U	0.22 U	0.24 U	--	--	--	--	0.18 U	0.22 U	--	--	--	--	0.18 U	0.17 U	0.24 U	--	--	0.20 U	0.21 U	0.20 U	--
SVOCs	8270	4-Bromophenyl phenyl ether	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	4-Chloro-3-Methylphenol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	4-Chloroaniline	mg/Kg	--	1.0 U	0.24 U	0.20 U	0.21 U	0.18 U	0.21 U	0.22 U	0.24 U	--	--	--	--	0.18 U	0.22 U	--	--	--	--	0.18 U	0.17 U	0.24 U	--	--	0.20 U	0.21 U	0.20 U	--
SVOCs	8270	4-Chlorophenyl-Phenylether	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	4-Nitroaniline	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	4-Nitrophenol (p-Nitrophenol)	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Aniline	mg/Kg	--	1.0 U	0.24 U	0.20 U	0.21 U	0.18 U	0.21 U	0.22 U	0.24 U	--	--	--	--	0.18 U	0.22 U	--	--	--	--	0.18 U	0.17 U	0.24 U	--	--	0.20 U	0.21 U	0.20 U	--

TABLE 1

SOIL ANALYTICAL DATA SUMMARY

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	B-1-2.0 2-3 ft	B-1-8.0 7-8 ft	B-2-2.0 1.5-2.5 ft	B-2-8.0 8-9 ft	B-3-2.0 1.5-2.5 ft	B-3-8.0 7-8.5 ft	B-4-2.0 1.5-2.5 ft	B-4-8.0 7-8 ft	B-5-2.0 2-3 ft	B-5-8.0 7.5-8.5 ft	B-6-2.0 2-3 ft	B-6-8.0 7-8 ft	B-7-2.0 1.5-2.5 ft	B-7-8.0 8-9 ft	B-8-6.0 5.5-6.5 ft	B-8-11.0 10.5-11.5 ft	B-9-7.0 6-7.5 ft	B-9-13.0 13-14 ft	B-10-2.0 1.5-2.5 ft (fill)	B-10-7.0 6.5-7.5 ft	B-10-13.0 12-13.5 ft	B-11-8.0 8-9 ft	B-11-12.0 11.5-13 ft	B-12-2.0 2 ft (fill)	B-12-7.0 7 ft	B-12-13.0 13 ft	B-13-7.0 7-8 ft
SVOCs	8270	Benzene, 1,4-Dinitro-	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Benzidine	mg/Kg	--	2.0 U	0.47 U	0.39 U	0.42 U	0.36 U	0.43 U	0.45 U	0.49 U	--	--	--	--	0.36 U	0.43 U	--	--	--	--	0.36 U	0.35 U	0.48 U	--	--	0.40 U	0.41 U	0.41 U	--
SVOCs	8270	Benzyl Alcohol	mg/Kg	--	1.0 U	0.24 U	0.20 U	0.21 U	0.18 U	0.21 U	0.22 U	0.24 U	--	--	--	--	0.18 U	0.22 U	--	--	--	--	0.18 U	0.17 U	0.24 U	--	--	0.20 U	0.21 U	0.20 U	--
SVOCs	8270	Bis(2-chloroethoxy)methane	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Bis(2-chloroethyl)ether	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Bis(2-chloroisopropyl)ether	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	**Bis(2-ethylhexyl)phthalate (BEHP)**	mg/Kg	0.13	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Butyl benzyl phthalate	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Carbazole	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Di-N-Octyl Phthalate	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Dibenzofuran	mg/Kg	160	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Dibutyl phthalate	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Diethyl phthalate	mg/Kg	0.9	1.0 U	0.24 U	0.20 U	0.21 U	0.18 U	0.21 U	0.22 U	0.24 U	--	--	--	--	0.18 U	0.22 U	--	--	--	--	0.18 U	0.17 U	0.24 U	--	--	0.20 U	0.21 U	0.20 U	--
SVOCs	8270	Dimethyl phthalate	mg/Kg	80000	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Hexachlorobenzene	mg/Kg	0.01	0.040 U	0.0094 U	0.0078 U	0.0084 U	0.0072 U	0.0086 U	0.0090 U	0.0097 U	--	--	--	--	0.0072 U	0.0086 U	--	--	--	--	0.0071 U	0.0069 U	0.0096 U	--	--	0.0081 U	0.0083 U	0.0082 U	--
SVOCs	8270	Hexachlorobutadiene	mg/Kg	0.01	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Hexachlorocyclopentadiene	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Hexachloroethane	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Isophorone	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	m,p-Cresol	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	N-Nitrosodi-n-propylamine	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	N-Nitrosodimethylamine	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	N-Nitrosodiphenylamine (as diphenylamine)	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Nitrobenzene	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	o-Cresol (2-methylphenol)	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	O-DINITROBENZENE	mg/Kg	--	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Pentachlorophenol	mg/Kg	0.1	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Phenol	mg/Kg	4.6	0.20 U	0.047 U	0.039 U	0.042 U	0.036 U	0.043 U	0.045 U	0.049 U	--	--	--	--	0.036 U	0.043 U	--	--	--	--	0.036 U	0.035 U	0.048 U	--	--	0.040 U	0.041 U	0.041 U	--
SVOCs	8270	Pyridine	mg/Kg	--	2.0 U	0.47 U	0.39 U	0.42 U	0.36 U	0.43 U	0.45 U	0.49 U	--	--	--	--	0.36 U	0.43 U	--	--	--	--	0.36 U	0.35 U	0.48 U	--	--	0.40 U	0.41 U	0.41 U	--
VOCs	5035A/8260	1,1,1,2-Tetrachloroethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,1,1-Trichloroethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,1,2,2-Tetrachloroethane	mg/Kg	0.005	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,1,2-Trichloroethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,1-Dichloroethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,1-Dichloroethene	mg/Kg	0.005	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,1-Dichloropropene	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,2,3-Trichlorobenzene	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,2,3-Trichloropropane	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,2,4-Trichlorobenzene	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**1,2,4-Trimethylbenzene**	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.027**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,2-Dibromo-3-Chloropropane	mg/Kg	--	0.34 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	1,2-dibromoethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,2-Dichloroethane	mg/Kg	0.012	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,2-Dichloropropane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**1,3,5-Trimethylbenzene**	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0082**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,3-Dichloropropane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	2,2-Dichloropropane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**2-Butanone (MEK)**	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	**0.0088**	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	**0.0093**	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	2-Chloroethyl vinyl ether	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	2-Chlorotoluene	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	2-Hexanone	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	4-Chlorotoluene	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	**Acetone**	mg/Kg	72000	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	**0.038**	0.0079 U	**0.020**	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	**0.036**	--	--	0.0050 U	0.0064 U	**0.015**	--
VOCs	5035A/8260	**Benzene**	mg/Kg	0.02	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Bromobenzene	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Bromochloromethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Bromodichloromethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Bromoform (Tribromomethane)	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Bromomethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**Carbon Disulfide**	mg/Kg	--	0.0016 U	**0.0015**	0.0016 U	**0.0030**	0.0012 U	**0.011**	0.0016 U	**0.0061**	--	--	--	--	0.0012 U	**0.0031**	--	--	--	--	0.00097 U	0.0012 U	**0.0076**	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Carbon Tetrachloride	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Chlorobenzene	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Chloroethane	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	Chloroform	mg/Kg	0.16	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Chloromethane	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	cis-1,2-Dichloroethene	mg/Kg	800	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--

TABLE 1

SOIL ANALYTICAL DATA SUMMARY

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	B-1-2.0 2-3 ft	B-1-8.0 7-8 ft	B-2-2.0 1.5-2.5 ft	B-2-8.0 8-9 ft	B-3-2.0 1.5-2.5 ft	B-3-8.0 7-8.5 ft	B-4-2.0 1.5-2.5 ft	B-4-8.0 7-8 ft	B-5-2.0 2-3 ft	B-5-8.0 7.5-8.5 ft	B-6-2.0 2-3 ft	B-6-8.0 7-8 ft	B-7-2.0 1.5-2.5 ft	B-7-8.0 8-9 ft	B-8-6.0 5.5-6.5 ft	B-8-11.0 10.5-11.5 ft	B-9-7.0 6-7.5 ft	B-9-13.0 13-14 ft	B-10-2.0 1.5-2.5 ft (fill)	B-10-7.0 6.5-7.5 ft	B-10-13.0 12-13.5 ft	B-11-8.0 8-9 ft	B-11-12.0 11.5-13 ft	B-12-2.0 2 ft (fill)	B-12-7.0 7 ft	B-12-13.0 13 ft	B-13-7.0 7-8 ft
VOCs	5035A/8260	Cis-1,3-Dichloropropene	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Dibromochloromethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Dibromomethane	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Dichlorodifluoromethane (CFC-12)	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**Ethylbenzene**	mg/Kg	0.02	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0031**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Hexachlorobutadiene	mg/Kg	0.01	0.34 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	**Isopropylbenzene (Cumene)**	mg/Kg	8000	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0019**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Methyl Iodide (Iodomethane)	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	Methyl t-butyl ether	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**Methylene Chloride**	mg/Kg	0.18	**0.0080**	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	**n-Butylbenzene**	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0085**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**n-Propylbenzene**	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0047**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**Naphthalene**	mg/Kg	2.6	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**p-Isopropyltoluene**	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0036**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**Sec-Butylbenzene**	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0048**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Styrene	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Tert-Butylbenzene	mg/Kg	--	0.067 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**Tetrachloroethene**	mg/Kg	0.005	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Toluene	mg/Kg	6.4	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	Trans-1,2-Dichloroethene	mg/Kg	3.2	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Trans-1,3-Dichloropropene	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Trichloroethene	mg/Kg	0.01	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Trichlorofluoromethane (CFC-11)	mg/Kg	--	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	Vinyl Acetate	mg/Kg	--	0.0079 U	0.0067 U	0.0079 U	0.0082 U	0.0061 U	0.0050 U	0.0079 U	0.0089 U	--	--	--	--	0.0058 U	0.0065 U	--	--	--	--	0.0048 U	0.0058 U	0.0075 U	--	--	0.0050 U	0.0064 U	0.0044 U	--
VOCs	5035A/8260	Vinyl Chloride	mg/Kg	0.005	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	0.00097 U	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--
VOCs	5035A/8260	**Xylene, m-,p-**	mg/Kg	9.0	0.0031 U	0.0027 U	0.0032 U	0.0033 U	0.0025 U	0.0020 U	0.0032 U	0.0036 U	--	--	--	--	0.0023 U	0.0026 U	--	--	--	--	**0.012**	0.0023 U	0.0030 U	--	--	0.0020 U	0.0026 U	0.0018 U	--
VOCs	5035A/8260	**Xylene, o-**	mg/Kg	0.1	0.0016 U	0.0013 U	0.0016 U	0.0016 U	0.0012 U	0.00099 U	0.0016 U	0.0018 U	--	--	--	--	0.0012 U	0.0013 U	--	--	--	--	**0.0054**	0.0012 U	0.0015 U	--	--	0.0010 U	0.0013 U	0.00088 U	--

TABLE 1

SOIL ANALYTICAL DATA SUMMARY

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	B-13-13.0 12.5-13.5 ft	B-14-7.0 7 ft	B-14-13.0 13 ft	B-15-2.0 2-2.5 ft (fill)	B-15-7.0 7-7.5 ft	B-15-13.0 12.5-13 ft	B-16-2.0 2-3 ft (fill)	B-16-7.0 7-8 ft	B-16-13.0 12.5-13.5 ft	B-17-2.0 2 ft	B-17-8.0 8 ft	B-18-2.0 1.5-2.5 ft	B-18-8.0 7.5-8.5 ft	B-19-2.0 1.5-2.5 ft	B-19-8.0 8 ft	B-20-2.0 2-3 ft	B-20-8.0 7-8 ft	B-21-2.0 2 ft	B-21-8.0 8 ft	B-22-2.0 2-3 ft	B-22-8.0 7-8 ft	B-23-2.0 2-3 ft	B-23-8.0 7-8 ft	B-24-2.0 1.5-2.5 ft	B-24-8.0 7.5-8.5 ft	B-26-2.0 2-3 ft	B-26-8.0 8-9 ft
BTEX	5035A/8021	Benzene	mg/Kg	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.020 U	0.020 U
BTEX	5035A/8021	Ethylbenzene	mg/Kg	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.067 U	0.053 U
BTEX	5035A/8021	Toluene	mg/Kg	6.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.067 U	0.053 U
BTEX	5035A/8021	Xylene, m-,p-	mg/Kg	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.067 U	0.053 U
BTEX	5035A/8021	Xylene, o-	mg/Kg	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.067 U	0.053 U
Fuels	NWTPH-Gx	Total petroleum hydrocarbons as gasoline	mg/Kg	30	--	--	--	5.3 U	5.8 U	7.5 U	5.3 U	--	--	5.8 U	6.6 U	5.8 U	5.1 U	4.7 U	6.9 U	5.6 U	12 U	7.1 U	7.9 U	5.9 U	7.5 U	5.8 U	7.6 U	8.5 U	7.0 U	6.7 U	5.3 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as diesel**	mg/Kg	2000	36 U	33 U	32 U	26 U	27 U	36 U	27 U	26 U	33 U	28 U	29 U	27 U	27 U	29 U	31 U	27 U	**5900**	32 U	33 U	**32**	32 U	27 U	33 U	32 U	30 U	30 U	27 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as lube oil**	mg/Kg	2000	72 U	66 U	63 U	53 U	54 U	72 U	54 U	52 U	66 U	57 U	58 U	53 U	54 U	57 U	61 U	53 U	**740 J**	63 U	66 U	**76**	65 U	55 U	66 U	64 U	61 U	59 U	54 U
Metals	6010/6020	Arsenic	mg/Kg	20	14 U	13 U	13 U	11 U	11 U	14 U	11 U	10 U	13 U	11 U	12 U	11 U	11 U	11 U	12 U	11 U	12 U	13 U	13 U	11 U	13 U	11 U	13 U	13 U	12 U	--	--
Metals	6010/6020	Cadmium	mg/Kg	--	0.72 U	0.66 U	0.63 U	0.53 U	0.54 U	0.72 U	0.54 U	0.52 U	0.66 U	0.57 U	0.58 U	0.53 U	0.54 U	0.57 U	0.61 U	0.53 U	0.58 U	0.63 U	0.66 U	0.54 U	0.65 U	0.55 U	0.66 U	0.64 U	0.61 U	--	--
Metals	6010/6020	**Chromium**	mg/Kg	1000	**15**	**12**	**9.7**	**28**	**9.2**	**13**	**36**	**8.6**	**10**	**25**	**9.6**	**22**	**14**	**11**	**12**	**12**	**12**	**11**	**9.9**	**8.5**	**7.6**	**8.5**	**11**	**12**	**11**	--	--
Metals	6010/6020	**Copper**	mg/Kg	36	**25**	**10**	**9.7**	**11**	**9**	**19**	**10**	**8.1**	**11**	**13**	**12**	**12**	**11**	**11**	**11**	**21**	**13**	**10**	**9.2**	**9.1**	**8.4**	**36**	**18**	**11**	**11**	--	--
Metals	6010/6020	**Lead**	mg/Kg	1000 (a)	7.2 U	6.6 U	6.3 U	5.3 U	5.4 U	7.2 U	5.4 U	5.2 U	6.6 U	5.7 U	5.8 U	5.3 U	**35**	5.7 U	6.1 U	**28**	**35**	6.3 U	6.6 U	5.4 U	6.5 U	**160**	**18**	6.4 U	6.1 U	--	--
Metals	7471	Mercury	mg/Kg	--	0.36 U	0.33 U	0.32 U	0.26 U	0.27 U	0.36 U	0.27 U	0.26 U	0.33 U	0.28 U	0.29 U	0.27 U	0.27 U	0.29 U	0.31 U	0.27 U	0.29 U	0.32 U	0.33 U	0.27 U	0.32 U	0.27 U	0.33 U	0.32 U	0.30 U	--	--
PCBs	8082	PCB-aroclor 1016	mg/Kg	--	--	--	--	0.0026 U	0.0027 U	0.0036 U	0.0027 U	--	--	0.0028 U	0.0029 U	0.0027 U	0.0027 U	0.0029 U	0.0031 U	0.0027 U	0.0029 U	0.0032 U	0.0033 U	0.0027 U	0.0032 U	0.0027 U	0.0033 U	--	--	--	--
PCBs	8082	PCB-aroclor 1221	mg/Kg	--	--	--	--	0.0026 U	0.0027 U	0.0036 U	0.0027 U	--	--	0.0028 U	0.0029 U	0.0027 U	0.0027 U	0.0029 U	0.0031 U	0.0027 U	0.0029 U	0.0032 U	0.0033 U	0.0027 U	0.0032 U	0.0027 U	0.0033 U	--	--	--	--
PCBs	8082	PCB-aroclor 1232	mg/Kg	--	--	--	--	0.0026 U	0.0027 U	0.0036 U	0.0027 U	--	--	0.0028 U	0.0029 U	0.0027 U	0.0027 U	0.0029 U	0.0031 U	0.0027 U	0.0029 U	0.0032 U	0.0033 U	0.0027 U	0.0032 U	0.0027 U	0.0033 U	--	--	--	--
PCBs	8082	PCB-aroclor 1242	mg/Kg	--	--	--	--	0.0026 U	0.0027 U	0.0036 U	0.0027 U	--	--	0.0028 U	0.0029 U	0.0027 U	0.0027 U	0.0029 U	0.0031 U	0.0027 U	0.0029 U	0.0032 U	0.0033 U	0.0027 U	0.0032 U	0.0027 U	0.0033 U	--	--	--	--
PCBs	8082	PCB-aroclor 1248	mg/Kg	--	--	--	--	0.0026 U	0.0027 U	0.0036 U	0.0027 U	--	--	0.0028 U	0.0029 U	0.0027 U	0.0027 U	0.0029 U	0.0031 U	0.0027 U	0.0029 U	0.0032 U	0.0033 U	0.0027 U	0.0032 U	0.0027 U	0.0033 U	--	--	--	--
PCBs	8082	PCB-aroclor 1254	mg/Kg	--	--	--	--	0.0026 U	0.0027 U	0.0036 U	0.0027 U	--	--	0.0028 U	0.0029 U	0.0027 U	0.0027 U	0.0029 U	0.0031 U	0.0027 U	0.0029 U	0.0032 U	0.0033 U	0.0027 U	0.0032 U	0.0027 U	0.0033 U	--	--	--	--
PCBs	8082	**PCB-aroclor 1260**	mg/Kg	--	--	--	--	0.0026 U	0.0027 U	0.0036 U	0.0027 U	--	--	0.0028 U	0.0029 U	0.0027 U	0.0027 U	0.0029 U	0.0031 U	**0.017**	**0.0038**	0.0032 U	0.0033 U	0.0027 U	0.0032 U	0.0027 U	0.0033 U	--	--	--	--
PAHs	8270	**1-Methylnaphthalene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.20**	0.0084 U	0.0088 U	**0.0076**	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
PAHs	8270	**2-Methylnaphthalene**	mg/Kg	320	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.19**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
PAHs	8270	**Acenaphthene**	mg/Kg	0.5	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.024**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
PAHs	8270	**Acenaphthylene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.058**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
PAHs	8270	**Anthracene**	mg/Kg	1	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.016**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
PAHs	8270	**Benzo(g,h,i)perylene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.016**	0.0087 U	--	--	--	--
PAHs	8270	**Fluoranthene**	mg/Kg	2.5	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	**0.011**	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.012**	0.0087 U	--	--	--	--
PAHs	8270	**Fluorene**	mg/Kg	0.6	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.033**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
PAHs	8270	**Naphthalene**	mg/Kg	2.6	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.099**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
PAHs	8270	**Phenanthrene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	**0.015**	0.0071 U	--	--	0.0075 U	0.0078 U	**0.0088**	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.015**	0.0084 U	0.0088 U	**0.011**	0.0086 U	**0.0088**	0.0087 U	--	--	--	--
PAHs	8270	**Pyrene**	mg/Kg	3.3	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	**0.015**	0.0072 U	**0.013**	**0.0096**	0.0071 U	**0.034**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.015**	0.0087 U	--	--	--	--
cPAHs	8270-SIM	**Benzo(a)anthracene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	**0.0084**	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.010**	0.0087 U	--	--	--	--
cPAHs	8270-SIM	**Benzo(a)pyrene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	**0.0085**	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.014**	0.0087 U	--	--	--	--
cPAHs	8270-SIM	**Benzo(b)fluoranthene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.013**	**0.0099**	--	--	--	--
cPAHs	8270-SIM	**Benzo(j,k)fluoranthene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.012**	0.0087 U	--	--	--	--
cPAHs	8270-SIM	**Chrysene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	**0.0081**	0.0072 U	0.0076 U	0.0082 U	0.0071 U	**0.022**	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.012**	0.0087 U	--	--	--	--
cPAHs	8270-SIM	Dibenzo(a,h)anthracene	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
cPAHs	8270-SIM	**Indeno(1,2,3-cd)pyrene**	mg/Kg	--	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.015 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	**0.011**	0.0087 U	--	--	--	--
cPAHs	8270-SIM	**Total cPAHs TEC (ND=0.5MRL)**	mg/Kg	18 (a)	--	--	--	0.0053 U	0.0055 U	0.0072 U	0.0054 U	--	--	0.0057 U	0.0059 U	**0.011**	0.0054 U	0.0057 U	0.0062 U	0.0054 U	**0.011**	0.0063 U	0.0066 U	0.0054 U	0.0065 U	**0.019**	**0.0071**	--	--	--	--
SVOCs	8270	1,2,4-Trichlorobenzene	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	1,2-Diphenylhydrazine	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	1,3-Dinitrobenzene	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,3,4,6-Tetrachlorophenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,3,5,6-Tetrachlorophenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,3-DICHLOROANILINE	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,4,5-Trichlorophenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,4,6-Trichlorophenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,4-Dichlorophenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,4-Dimethylphenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,4-Dinitrophenol	mg/Kg	--	--	--	--	0.18 U	0.18 U	0.24 U	0.18 U	--	--	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.18 U	0.96 U	0.21 U	0.22 U	0.18 U	0.22 U	0.18 U	0.22 U	--	--	--	--
SVOCs	8270	2,4-Dinitrotoluene	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2,6-Dinitrotoluene	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2-Chloronaphthalene	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2-Chlorophenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2-Nitroaniline	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	2-Nitrophenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	3,3'-Dichlorobenzidine	mg/Kg	--	--	--	--	0.18 U	0.18 U	0.24 U	0.18 U	--	--	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.18 U	0.96 U	0.21 U	0.22 U	0.18 U	0.22 U	0.18 U	0.22 U	--	--	--	--
SVOCs	8270	3-Nitroaniline	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	4,6-Dinitro-2-Methylphenol	mg/Kg	--	--	--	--	0.18 U	0.18 U	0.24 U	0.18 U	--	--	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.18 U	0.96 U	0.21 U	0.22 U	0.18 U	0.22 U	0.18 U	0.22 U	--	--	--	--
SVOCs	8270	4-Bromophenyl phenyl ether	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	4-Chloro-3-Methylphenol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	4-Chloroaniline	mg/Kg	--	--	--	--	0.18 U	0.18 U	0.24 U	0.18 U	--	--	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.18 U	0.96 U	0.21 U	0.22 U	0.18 U	0.22 U	0.18 U	0.22 U	--	--	--	--
SVOCs	8270	4-Chlorophenyl-Phenylether	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	4-Nitroaniline	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	4-Nitrophenol (p-Nitrophenol)	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Aniline	mg/Kg	--	--	--	--	0.18 U	0.18 U	0.24 U	0.18 U	--	--	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.18 U	0.96 U	0.21 U	0.22 U	0.18 U	0.22 U	0.18 U	0.22 U	--	--	--	--

TABLE 1

SOIL ANALYTICAL DATA SUMMARY

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	B-13-13.0 12.5-13.5 ft	B-14-7.0 7 ft	B-14-13.0 13 ft	B-15-2.0 2-2.5 ft (fill)	B-15-7.0 7-7.5 ft	B-15-13.0 12.5-13 ft	B-16-2.0 2-3 ft (fill)	B-16-7.0 7-8 ft	B-16-13.0 12.5-13.5 ft	B-17-2.0 2 ft	B-17-8.0 8 ft	B-18-2.0 1.5-2.5 ft	B-18-8.0 7.5-8.5 ft	B-19-2.0 1.5-2.5 ft	B-19-8.0 8 ft	B-20-2.0 2-3 ft	B-20-8.0 7-8 ft	B-21-2.0 2 ft	B-21-8.0 8 ft	B-22-2.0 2-3 ft	B-22-8.0 7-8 ft	B-23-2.0 2-3 ft	B-23-8.0 7-8 ft	B-24-2.0 1.5-2.5 ft	B-24-8.0 7.5-8.5 ft	B-26-2.0 2-3 ft	B-26-8.0 8-9 ft
SVOCs	8270	Benzene, 1,4-Dinitro-	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Benzidine	mg/Kg	--	--	--	--	0.35 U	0.36 U	0.48 U	0.36 U	--	--	0.38 U	0.39 U	0.35 U	0.36 U	0.38 U	0.41 U	0.36 U	1.9 U	0.42 U	0.44 U	0.36 U	0.43 U	0.36 U	0.44 U	--	--	--	--
SVOCs	8270	Benzyl Alcohol	mg/Kg	--	--	--	--	0.18 U	0.18 U	0.24 U	0.18 U	--	--	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.18 U	0.96 U	0.21 U	0.22 U	0.18 U	0.22 U	0.18 U	0.22 U	--	--	--	--
SVOCs	8270	Bis(2-chloroethoxy)methane	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Bis(2-chloroethyl)ether	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Bis(2-chloroisopropyl)ether	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	**Bis(2-ethylhexyl)phthalate (BEHP)**	mg/Kg	0.13	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	**0.16***	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Butyl benzyl phthalate	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Carbazole	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Di-N-Octyl Phthalate	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Dibenzofuran	mg/Kg	160	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Dibutyl phthalate	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Diethyl phthalate	mg/Kg	0.9	--	--	--	0.18 U	0.18 U	0.24 U	0.18 U	--	--	0.19 U	0.19 U	0.18 U	0.18 U	0.19 U	0.20 U	0.18 U	0.96 U	0.21 U	0.22 U	0.18 U	0.22 U	0.18 U	0.22 U	--	--	--	--
SVOCs	8270	Dimethyl phthalate	mg/Kg	80000	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Hexachlorobenzene	mg/Kg	0.01	--	--	--	0.0070 U	0.0073 U	0.0096 U	0.0071 U	--	--	0.0075 U	0.0078 U	0.0071 U	0.0072 U	0.0076 U	0.0082 U	0.0071 U	0.039 U	0.0084 U	0.0088 U	0.0072 U	0.0086 U	0.0073 U	0.0087 U	--	--	--	--
SVOCs	8270	Hexachlorobutadiene	mg/Kg	0.01	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Hexachlorocyclopentadiene	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Hexachloroethane	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Isophorone	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	m,p-Cresol	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	N-Nitrosodi-n-propylamine	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	N-Nitrosodimethylamine	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	N-Nitrosodiphenylamine (as diphenylamine)	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Nitrobenzene	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	o-Cresol (2-methylphenol)	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	O-DINITROBENZENE	mg/Kg	--	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Pentachlorophenol	mg/Kg	0.1	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Phenol	mg/Kg	4.6	--	--	--	0.035 U	0.036 U	0.048 U	0.036 U	--	--	0.038 U	0.039 U	0.035 U	0.036 U	0.038 U	0.041 U	0.036 U	0.19 U	0.042 U	0.044 U	0.036 U	0.043 U	0.036 U	0.044 U	--	--	--	--
SVOCs	8270	Pyridine	mg/Kg	--	--	--	--	0.35 U	0.36 U	0.48 U	0.36 U	--	--	0.38 U	0.39 U	0.35 U	0.36 U	0.38 U	0.41 U	0.36 U	1.9 U	0.42 U	0.44 U	0.36 U	0.43 U	0.36 U	0.44 U	--	--	--	--
VOCs	5035A/8260	1,1,1,2-Tetrachloroethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,1,1-Trichloroethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,1,2,2-Tetrachloroethane	mg/Kg	0.005	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,1,2-Trichloroethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,1-Dichloroethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,1-Dichloroethene	mg/Kg	0.005	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,1-Dichloropropene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,2,3-Trichlorobenzene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,2,3-Trichloropropane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,2,4-Trichlorobenzene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**1,2,4-Trimethylbenzene**	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,2-Dibromo-3-Chloropropane	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	1,2-dibromoethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,2-Dichloroethane	mg/Kg	0.012	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,2-Dichloropropane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**1,3,5-Trimethylbenzene**	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,3-Dichloropropane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	2,2-Dichloropropane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**2-Butanone (MEK)**	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	**0.0090**	--	--
VOCs	5035A/8260	2-Chloroethyl vinyl ether	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	2-Chlorotoluene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	2-Hexanone	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	4-Chlorotoluene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	**Acetone**	mg/Kg	72000	--	--	--	0.0050 U	0.0061 U	**0.017**	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	**0.0098**	**0.010**	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	**0.043**	--	--
VOCs	5035A/8260	**Benzene**	mg/Kg	0.02	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	**0.019**	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.014**	--	--
VOCs	5035A/8260	Bromobenzene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Bromochloromethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Bromodichloromethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Bromoform (Tribromomethane)	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Bromomethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**Carbon Disulfide**	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	**0.0040**	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	**0.0040**	0.0012 U	0.065 U	0.0014 U	**0.0040**	0.059 U	**0.0017**	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Carbon Tetrachloride	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Chlorobenzene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Chloroethane	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	Chloroform	mg/Kg	0.16	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Chloromethane	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	cis-1,2-Dichloroethene	mg/Kg	800	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--

TABLE 1

SOIL ANALYTICAL DATA SUMMARY

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	B-13-13.0 12.5-13.5 ft	B-14-7.0 7 ft	B-14-13.0 13 ft	B-15-2.0 2-2.5 ft (fill)	B-15-7.0 7-7.5 ft	B-15-13.0 12.5-13 ft	B-16-2.0 2-3 ft (fill)	B-16-7.0 7-8 ft	B-16-13.0 12.5-13.5 ft	B-17-2.0 2 ft	B-17-8.0 8 ft	B-18-2.0 1.5-2.5 ft	B-18-8.0 7.5-8.5 ft	B-19-2.0 1.5-2.5 ft	B-19-8.0 8 ft	B-20-2.0 2-3 ft	B-20-8.0 7-8 ft	B-21-2.0 2 ft	B-21-8.0 8 ft	B-22-2.0 2-3 ft	B-22-8.0 7-8 ft	B-23-2.0 2-3 ft	B-23-8.0 7-8 ft	B-24-2.0 1.5-2.5 ft	B-24-8.0 7.5-8.5 ft	B-26-2.0 2-3 ft	B-26-8.0 8-9 ft
VOCs	5035A/8260	Cis-1,3-Dichloropropene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Dibromochloromethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Dibromomethane	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Dichlorodifluoromethane (CFC-12)	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**Ethylbenzene**	mg/Kg	0.02	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.0021**	--	--
VOCs	5035A/8260	Hexachlorobutadiene	mg/Kg	0.01	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	**Isopropylbenzene (Cumene)**	mg/Kg	8000	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.043**	--	--
VOCs	5035A/8260	Methyl Iodide (Iodomethane)	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	Methyl t-butyl ether	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**Methylene Chloride**	mg/Kg	0.18	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	**0.0083**	**0.0095**	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	**n-Butylbenzene**	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	**0.38**	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.030**	--	--
VOCs	5035A/8260	**n-Propylbenzene**	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	**0.067**	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.11**	--	--
VOCs	5035A/8260	**Naphthalene**	mg/Kg	2.6	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.0034**	--	--
VOCs	5035A/8260	**p-Isopropyltoluene**	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.0019**	--	--
VOCs	5035A/8260	**Sec-Butylbenzene**	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	**0.071**	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	**0.018**	--	--
VOCs	5035A/8260	Styrene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Tert-Butylbenzene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**Tetrachloroethene**	mg/Kg	0.005	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	**0.0026**	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	**0.0029**	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Toluene	mg/Kg	6.4	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	Trans-1,2-Dichloroethene	mg/Kg	3.2	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Trans-1,3-Dichloropropene	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Trichloroethene	mg/Kg	0.01	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Trichlorofluoromethane (CFC-11)	mg/Kg	--	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	Vinyl Acetate	mg/Kg	--	--	--	--	0.0050 U	0.0061 U	0.0062 U	0.0053 U	--	--	0.0057 U	0.0050 U	0.0061 U	0.0073 U	0.0069 U	0.0060 U	0.0060 U	0.33 U	0.0068 U	0.0066 U	0.29 U	0.0076 U	0.0078 U	0.0066 U	0.0068 U	0.0056 U	--	--
VOCs	5035A/8260	Vinyl Chloride	mg/Kg	0.005	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--
VOCs	5035A/8260	**Xylene, m-,p-**	mg/Kg	9.0	--	--	--	0.0020 U	0.0024 U	0.0025 U	0.0021 U	--	--	0.0023 U	0.0020 U	0.0024 U	0.0029 U	0.0027 U	0.0024 U	0.0024 U	0.13 U	0.0027 U	0.0026 U	0.12 U	0.0030 U	0.0031 U	0.0026 U	0.0027 U	0.0023 U	--	--
VOCs	5035A/8260	**Xylene, o-**	mg/Kg	0.1	--	--	--	0.0010 U	0.0012 U	0.0012 U	0.0011 U	--	--	0.0011 U	0.0010 U	0.0012 U	0.0015 U	0.0014 U	0.0012 U	0.0012 U	0.065 U	0.0014 U	0.0013 U	0.059 U	0.0015 U	0.0016 U	0.0013 U	0.0014 U	0.0011 U	--	--

Notes:

ft = Feet below ground surface
mg/Kg = Milligrams per kilogram
ND = Non-detect result
MRL = Method reporting limit
TEC = Toxic equivalent concentration
U = Not detected above the listed method reporting limit
J = Estimated concentration
BOLD typeface = Analyte/concentration detected above method reporting limit
= Analyte/sample/concentration exceeds screening level
-- = No value available or not analyzed
* Result may reflect laboratory contamination (BEHP is a common laboratory contaminant).
(a) Port screening levels for lead and total cPAHs TEC are based on an empirical demonstration that the soil-to-groundwater-to-surface water pathway is incomplete.

TABLE 2

GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-1-11.0-WATER 6-11 ft	B-2-11.0-WATER 8-13 ft	B-3-11.0-WATER 6-11 ft	B-4-11.0-WATER 7-11 ft	B-7-11.0-WATER 8-13 ft	B-10-11.0-WATER 10-13 ft	B-10-25.0-WATER 21-25 ft	B-10-50.0-WATER 49-53 ft	B-12-11.0-WATER 10-15 ft	B-12-25.0-WATER[2] 26-28 ft	B-13-15.0-WATER 10-15 ft (b)	B-13-25.0-WATER 20-25 ft (b)
BTEX	8021	Benzene	mg/L	0.024	0.024	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Ethylbenzene	mg/L	0.049	6.1	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Toluene	mg/L	15	33	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Xylene, m-,p-	mg/L	15	0.67	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Xylene, o-	mg/L	0.166	0.96	--	--	--	--	--	--	--	--	--	--	--	--
Fuels	NWTPH-Gx	**Total petroleum hydrocarbons as gasoline**	mg/L	0.80	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	--	--	0.1 U	0.1 U	0.1 U	**0.15**
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as diesel**	mg/L	0.50	--	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	--	--	0.26 U	**0.48**	0.24 U	0.24 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as lube oil**	mg/L	0.50	--	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	--	--	0.41 U	**0.88**	0.39 U	0.39 U
Dissolved Metals	200.8	**Arsenic**	mg/L	0.0050	0.010 (c)	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U	**0.0060**	**0.0093***	0.0030 U	0.0030 U	**0.0083***	0.0030 U
Dissolved Metals	200.8	**Cadmium**	mg/L	0.0090	--	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Dissolved Metals	200.8	**Chromium**	mg/L	0.050	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.059**	**0.10***	0.01 U	0.01 U	**0.039***	0.01 U
Dissolved Metals	200.8	**Copper**	mg/L	0.0031	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.045**	**0.052***	0.01 U	0.01 U	**0.054***	0.01 U
Dissolved Metals	200.8	**Lead**	mg/L	0.0081	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	**0.0047**	**0.0091***	0.0010 U	0.0010 U	**0.0085***	0.0010 U
Dissolved Metals	7470	Mercury	mg/L	0.00020	0.0019	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
PCBs	8082	PCB-aroclor 1016	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1221	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1232	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1242	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1248	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1254	mg/L	0.0000017	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1260	mg/L	0.000020	--	--	--	--	--	--	--	--	--	--	--	--	--
PAHs	8270	1-Methylnaphthalene	mg/L	--	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	2-Methylnaphthalene	mg/L	--	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	Acenaphthene	mg/L	0.102	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	Acenaphthylene	mg/L	--	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	Anthracene	mg/L	0.041	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	**Benzo(g,h,i)perylene**	mg/L	--	--	--	0.0000098 U	0.0000098 U	--	**0.000013**	--	--	--	--	--	--	--
PAHs	8270	Fluoranthene	mg/L	0.051	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	Fluorene	mg/L	0.070	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	Naphthalene	mg/L	0.36	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	Phenanthrene	mg/L	--	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
PAHs	8270	Pyrene	mg/L	0.049	--	--	0.000098 U	0.000098 U	--	0.000095 U	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Benzo(a)anthracene**	mg/L	0.00002	--	--	**0.000010**	0.0000098 U	--	**0.000015**	--	--	--	--	--	--	--
cPAHs	8270-SIM	Benzo(a)pyrene	mg/L	0.00002	--	--	0.0000098 U	0.0000098 U	--	0.0000095 U	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Benzo(b)fluoranthene**	mg/L	0.00002	--	--	0.0000098 U	0.0000098 U	--	**0.000010**	--	--	--	--	--	--	--
cPAHs	8270-SIM	Benzo(j,k)fluoranthene	mg/L	0.00002	--	--	0.0000098 U	0.0000098 U	--	0.0000095 U	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Chrysene**	mg/L	0.00002	--	--	0.0000098 U	0.0000098 U	--	**0.000019**	--	--	--	--	--	--	--
cPAHs	8270-SIM	Dibenzo(a,h)anthracene	mg/L	0.00002	--	--	0.0000098 U	0.0000098 U	--	0.0000095 U	--	--	--	--	--	--	--
cPAHs	8270-SIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00002	--	--	0.0000098 U	0.0000098 U	--	0.0000095 U	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Total cPAHs TEC (ND=0.5MRL)**	mg/L	0.00002	--	--	**0.0000079**	0.0000074 U	--	**0.0000089**	--	--	--	--	--	--	--
SVOCs	8270	1,2,4-Trichlorobenzene	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	1,2-Diphenylhydrazine	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	1,3-Dinitrobenzene	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,3,4,6-Tetrachlorophenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,3,5,6-Tetrachlorophenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,3-DICHLOROANILINE	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,4,5-Trichlorophenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,4,6-Trichlorophenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dichlorophenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dimethylphenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dinitrophenol	mg/L	--	--	--	0.0049 U	0.0049 U	--	0.0047 U	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dinitrotoluene	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2,6-Dinitrotoluene	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2-Chloronaphthalene	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2-Chlorophenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2-Nitroaniline	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	2-Nitrophenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	3,3'-Dichlorobenzidine	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	3-Nitroaniline	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	4,6-Dinitro-2-Methylphenol	mg/L	--	--	--	0.0049 U	0.0049 U	--	0.0047 U	--	--	--	--	--	--	--
SVOCs	8270	4-Bromophenyl phenyl ether	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	4-Chloro-3-Methylphenol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	4-Chloroaniline	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	4-Chlorophenyl-Phenylether	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	4-Nitroaniline	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	4-Nitrophenol (p-Nitrophenol)	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--

TABLE 2

GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-1-11.0-WATER 6-11 ft	B-2-11.0-WATER 8-13 ft	B-3-11.0-WATER 6-11 ft	B-4-11.0-WATER 7-11 ft	B-7-11.0-WATER 8-13 ft	B-10-11.0-WATER 10-13 ft	B-10-25.0-WATER 21-25 ft	B-10-50.0-WATER 49-53 ft	B-12-11.0-WATER 10-15 ft	B-12-25.0-WATER[2] 26-28 ft	B-13-15.0-WATER 10-15 ft (b)	B-13-25.0-WATER 20-25 ft (b)
SVOCs	8270	Aniline	mg/L	--	--	--	0.0049 U	0.0049 U	--	0.0047 U	--	--	--	--	--	--	--
SVOCs	8270	Benzene, 1,4-Dinitro-	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Benzidine	mg/L	--	--	--	0.0049 U	0.0049 U	--	0.0047 U	--	--	--	--	--	--	--
SVOCs	8270	Benzyl Alcohol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Bis(2-chloroethoxy)methane	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Bis(2-chloroethyl)ether	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Bis(2-chloroisopropyl)ether	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	**Bis(2-ethylhexyl)phthalate (BEHP)**	mg/L	0.0012	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Butyl benzyl phthalate	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Carbazole	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Di-N-Octyl Phthalate	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Dibenzofuran	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Dibutyl phthalate	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Diethyl phthalate	mg/L	0.903	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Dimethyl phthalate	mg/L	72.016	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Hexachlorobenzene	mg/L	0.0002	--	--	0.00020 U	0.00020 U	--	0.00019 U	--	--	--	--	--	--	--
SVOCs	8270	Hexachlorobutadiene	mg/L	0.0002	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Hexachlorocyclopentadiene	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Hexachloroethane	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	mg/L	--	--	--	0.0049 U	0.0049 U	--	0.0047 U	--	--	--	--	--	--	--
SVOCs	8270	Isophorone	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	m,p-Cresol	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	N-Nitrosodi-n-propylamine	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	N-Nitrosodimethylamine	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	N-Nitrosodiphenylamine (as diphenylamine)	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Nitrobenzene	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	o-Cresol (2-methylphenol)	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	O-DINITROBENZENE	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Pentachlorophenol	mg/L	0.0030	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	**Phenol**	mg/L	5.401	--	--	**0.0034**	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
SVOCs	8270	Pyridine	mg/L	--	--	--	0.00098 U	0.00098 U	--	0.00095 U	--	--	--	--	--	--	--
VOCs	8260	1,1,1,2-Tetrachloroethane	mg/L	--	0.074	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,1,1-Trichloroethane	mg/L	--	25	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,1,2,2-Tetrachloroethane	mg/L	0.0040	0.062	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,1,2-Trichloroethane	mg/L	--	0.079	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,1-Dichloroethane	mg/L	--	5.0	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,1-Dichloroethene	mg/L	0.0032	0.28	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,1-Dichloropropene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,2,3-Trichlorobenzene	mg/L	--	--	0.00031 U	0.00031 U	0.00031 U	0.00031 U	0.00030 U	0.00031 U	0.00031 U	0.00031 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,2,3-Trichloropropane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00025 U	0.0050 U
VOCs	8260	1,2,4-Trichlorobenzene	mg/L	--	8.4	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,2,4-Trimethylbenzene	mg/L	0.061	0.052	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,2-Dibromo-3-Chloropropane	mg/L	--	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	1,2-dibromoethane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	--	4.0	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,2-Dichloroethane	mg/L	0.037	0.042	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,2-Dichloropropane	mg/L	--	0.062	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,3,5-Trimethylbenzene	mg/L	--	0.054	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,3-Dichloropropane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/L	--	17	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	2,2-Dichloropropane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	2-Butanone (MEK)	mg/L	--	760	0.0066 U	0.0066 U	0.0066 U	0.0066 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.1 U
VOCs	8260	2-Chloroethyl vinyl ether	mg/L	--	--	0.0016 U	0.0032 U	0.0032 U	0.0032 U	0.0043 U	0.0013 U	0.0013 U	0.0013 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	2-Chlorotoluene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	**2-Hexanone**	mg/L	--	--	0.0026 U	0.0026 U	0.0026 U	0.0026 U	0.0020 U	0.0026 U	0.0026 U	0.0026 U	0.0020 U	0.0020 U	0.0020 U	0.04 U
VOCs	8260	4-Chlorotoluene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	mg/L	--	24	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.04 U
VOCs	8260	**Acetone**	mg/L	--	--	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.1 U
VOCs	8260	**Benzene**	mg/L	0.024	0.024	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	**0.064**	0.00020 U	**0.51**
VOCs	8260	Bromobenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Bromochloromethane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Bromodichloromethane	mg/L	--	0.0009	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Bromoform (Tribromomethane)	mg/L	--	2.0	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	Bromomethane	mg/L	--	0.028	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	**Carbon Disulfide**	mg/L	--	0.87	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	**0.00028**	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Carbon Tetrachloride	mg/L	--	0.0022	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Chlorobenzene	mg/L	--	0.22	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Chloroethane	mg/L	--	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	Chloroform	mg/L	0.012	0.012	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Chloromethane	mg/L	--	0.052	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	cis-1,2-Dichloroethene	mg/L	--	0.35	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U

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GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-1-11.0-WATER 6-11 ft	B-2-11.0-WATER 8-13 ft	B-3-11.0-WATER 6-11 ft	B-4-11.0-WATER 7-11 ft	B-7-11.0-WATER 8-13 ft	B-10-11.0-WATER 10-13 ft	B-10-25.0-WATER 21-25 ft	B-10-50.0-WATER 49-53 ft	B-12-11.0-WATER 10-15 ft	B-12-25.0-WATER[2] 26-28 ft	B-13-15.0-WATER 10-15 ft (b)	B-13-25.0-WATER 20-25 ft (b)
VOCs	8260	Cis-1,3-Dichloropropene	mg/L	--	0.016	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Dibromochloromethane	mg/L	--	0.0022	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Dibromomethane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Dichlorodifluoromethane (CFC-12)	mg/L	--	0.022	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Ethylbenzene	mg/L	0.049	6.1	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Hexachlorobutadiene	mg/L	0.0002	0.0081	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	**Isopropylbenzene (Cumene)**	mg/L	1.6	1.6	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Methyl Iodide (Iodomethane)	mg/L	--	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	Methyl t-butyl ether	mg/L	--	6.1	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Methylene Chloride	mg/L	0.59	0.94	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	n-Butylbenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	**n-Propylbenzene**	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Naphthalene	mg/L	0.36	0.36	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	p-Isopropyltoluene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Sec-Butylbenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Styrene	mg/L	--	0.78	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Tert-Butylbenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Tetrachloroethene	mg/L	0.0033	0.010	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	**Toluene**	mg/L	15	33	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	**0.0014**	0.0010 U	0.02 U
VOCs	8260	Trans-1,2-Dichloroethene	mg/L	0.25	0.29	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Trans-1,3-Dichloropropene	mg/L	--	0.016	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Trichloroethene	mg/L	0.0084	0.0042	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Trichlorofluoromethane (CFC-11)	mg/L	--	0.26	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Vinyl Acetate	mg/L	--	17	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.02 U
VOCs	8260	Vinyl Chloride	mg/L	0.0024	0.0035	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
VOCs	8260	Xylene, m-,p-	mg/L	15	0.67	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.0080 U
VOCs	8260	Xylene, o-	mg/L	0.166	0.96	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0040 U
pH	FP/4500 HB	pH (lab measurement except as noted)	SU	6-8.5	--	7.20	8.20	7.90	7.90	7.50	8.00	7.68 (d)	8.43 (d)	7.54 (d)	--	8.10	8.30
Salinity	2520B	Salinity (lab measurement)	g/Kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Salinity	(d)	Salinity (field measurement)	g/Kg	--	--	0.3	0.1	0.3	0.5	0.1	0.8	--	1.9	1.5	--	0.7	0.1
Conductivity	(d)	Electrical conductivity	mS/cm	--	--	0.606	0.291	0.580	0.977	0.298	1.57	0.300	3.65	2.96	--	1.09	0.174
Turbidity	(d)	Turbidity (unfiltered sample)	NTU	--	--	387	0 (e)	536	96	287	462	296	690	288	--	>1,000	>1,000

TABLE 2

GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-14-11.0-WATER 10-15 ft	B-14-25.0-WATER 25-27 ft	B-15-11.0-WATER 10-20 ft	B-16-11.0-WATER 15-20 ft	B-16-25.0-WATER 20-25 ft	B-16-50.0-WATER[2] 48-52 ft (b)	B-17-11.0-WATER 10-15 ft (b)	B-17-25.0-WATER 24.5-28.5 ft	B-19-11.0-WATER 5.5-10.5 ft	B-19-25.0-WATER 23-25 ft (b)	B-19-50.0-WATER 47-49 ft	B-21-11.0-WATER 7-12 ft
BTEX	8021	Benzene	mg/L	0.024	0.024	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Ethylbenzene	mg/L	0.049	6.1	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Toluene	mg/L	15	33	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Xylene, m-,p-	mg/L	15	0.67	--	--	--	--	--	--	--	--	--	--	--	--
BTEX	8021	Xylene, o-	mg/L	0.166	0.96	--	--	--	--	--	--	--	--	--	--	--	--
Fuels	NWTPH-Gx	**Total petroleum hydrocarbons as gasoline**	mg/L	0.80	--	0.1 U	0.1 U	0.1 U	0.1 U	--	--	0.1 U	0.1 U	0.1 U	0.1 U	--	0.1 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as diesel**	mg/L	0.50	--	0.26 U	**0.78**	0.26 U	0.27 U	--	--	0.26 U	0.29 U	0.26 U	0.28 U	--	0.26 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as lube oil**	mg/L	0.50	--	0.41 U	**1.3**	0.41 U	0.42 U	--	--	0.42 U	0.47 U	0.41 U	0.45 U	--	0.41 U
Dissolved Metals	200.8	**Arsenic**	mg/L	0.0050	0.010 (c)	**0.0063**	0.0030 U	**0.011***	0.0030 U	**0.022****	**0.27****	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Dissolved Metals	200.8	**Cadmium**	mg/L	0.0090	--	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	**0.0042****	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Dissolved Metals	200.8	**Chromium**	mg/L	0.050	--	0.01 U	0.01 U	0.01 U	0.01 U	**0.11****	**12****	0.01 U	**0.037***	0.01 U	0.01 U	0.01 U	0.01 U
Dissolved Metals	200.8	**Copper**	mg/L	0.0031	--	0.01 U	**0.012**	0.01 U	0.01 U	**0.15****	**2.6****	0.01 U	**0.019***	0.01 U	0.01 U	0.01 U	0.01 U
Dissolved Metals	200.8	**Lead**	mg/L	0.0081	--	0.0010 U	**0.002**	0.0010 U	0.0010 U	**0.018****	**0.27****	0.0010 U	**0.0015***	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Dissolved Metals	7470	Mercury	mg/L	0.00020	0.0019	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	**0.0018****	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
PCBs	8082	PCB-aroclor 1016	mg/L	--	--	--	--	--	--	--	--	0.000047 U	0.000047 U	--	--	--	--
PCBs	8082	PCB-aroclor 1221	mg/L	--	--	--	--	--	--	--	--	0.000047 U	0.000047 U	--	--	--	--
PCBs	8082	PCB-aroclor 1232	mg/L	--	--	--	--	--	--	--	--	0.000047 U	0.000047 U	--	--	--	--
PCBs	8082	PCB-aroclor 1242	mg/L	--	--	--	--	--	--	--	--	0.000047 U	0.000047 U	--	--	--	--
PCBs	8082	PCB-aroclor 1248	mg/L	--	--	--	--	--	--	--	--	0.000047 U	0.000047 U	--	--	--	--
PCBs	8082	PCB-aroclor 1254	mg/L	0.0000017	--	--	--	--	--	--	--	0.000047 U	0.000047 U	--	--	--	--
PCBs	8082	PCB-aroclor 1260	mg/L	0.000020	--	--	--	--	--	--	--	0.000047 U	0.000047 U	--	--	--	--
PAHs	8270	1-Methylnaphthalene	mg/L	--	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	2-Methylnaphthalene	mg/L	--	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	Acenaphthene	mg/L	0.102	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	Acenaphthylene	mg/L	--	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	Anthracene	mg/L	0.041	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	**Benzo(g,h,i)perylene**	mg/L	--	--	0.000010 U	--	--	--	--	--	0.0000094 U	0.0000095 U	0.0000095 U	--	--	--
PAHs	8270	Fluoranthene	mg/L	0.051	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	Fluorene	mg/L	0.070	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	Naphthalene	mg/L	0.36	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	Phenanthrene	mg/L	--	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
PAHs	8270	Pyrene	mg/L	0.049	--	0.00010 U	--	--	--	--	--	0.000094 U	0.000095 U	0.000095 U	--	--	--
cPAHs	8270-SIM	**Benzo(a)anthracene**	mg/L	0.00002	--	**0.000011**	--	--	--	--	--	0.0000094 U	**0.000012**	0.0000095 U	--	--	--
cPAHs	8270-SIM	Benzo(a)pyrene	mg/L	0.00002	--	0.000010 U	--	--	--	--	--	0.0000094 U	0.0000095 U	0.0000095 U	--	--	--
cPAHs	8270-SIM	**Benzo(b)fluoranthene**	mg/L	0.00002	--	0.000010 U	--	--	--	--	--	0.0000094 U	0.0000095 U	0.0000095 U	--	--	--
cPAHs	8270-SIM	Benzo(j,k)fluoranthene	mg/L	0.00002	--	0.000010 U	--	--	--	--	--	0.0000094 U	0.0000095 U	0.0000095 U	--	--	--
cPAHs	8270-SIM	**Chrysene**	mg/L	0.00002	--	0.000010 U	--	--	--	--	--	0.0000094 U	0.0000095 U	0.0000095 U	--	--	--
cPAHs	8270-SIM	Dibenzo(a,h)anthracene	mg/L	0.00002	--	0.000010 U	--	--	--	--	--	0.0000094 U	0.0000095 U	0.0000095 U	--	--	--
cPAHs	8270-SIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00002	--	0.000010 U	--	--	--	--	--	0.0000094 U	0.0000095 U	0.0000095 U	--	--	--
cPAHs	8270-SIM	**Total cPAHs TEC (ND=0.5MRL)**	mg/L	0.00002	--	**0.0000082**	--	--	--	--	--	0.0000071 U	**0.0000079**	0.0000072 U	--	--	--
SVOCs	8270	1,2,4-Trichlorobenzene	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	1,2-Diphenylhydrazine	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	1,3-Dinitrobenzene	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,3,4,6-Tetrachlorophenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,3,5,6-Tetrachlorophenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,3-DICHLOROANILINE	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,4,5-Trichlorophenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,4,6-Trichlorophenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,4-Dichlorophenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,4-Dimethylphenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,4-Dinitrophenol	mg/L	--	--	0.0051 U	--	--	--	--	--	0.0047 U	0.0047 U	0.0047 U	--	--	--
SVOCs	8270	2,4-Dinitrotoluene	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2,6-Dinitrotoluene	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2-Chloronaphthalene	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2-Chlorophenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2-Nitroaniline	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	2-Nitrophenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	3,3'-Dichlorobenzidine	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	3-Nitroaniline	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	4,6-Dinitro-2-Methylphenol	mg/L	--	--	0.0051 U	--	--	--	--	--	0.0047 U	0.0047 U	0.0047 U	--	--	--
SVOCs	8270	4-Bromophenyl phenyl ether	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	4-Chloro-3-Methylphenol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	4-Chloroaniline	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	4-Chlorophenyl-Phenylether	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	4-Nitroaniline	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	4-Nitrophenol (p-Nitrophenol)	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--

TABLE 2

GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-14-11.0-WATER 10-15 ft	B-14-25.0-WATER 25-27 ft	B-15-11.0-WATER 10-20 ft	B-16-11.0-WATER 15-20 ft	B-16-25.0-WATER 20-25 ft	B-16-50.0-WATER[2] 48-52 ft (b)	B-17-11.0-WATER 10-15 ft (b)	B-17-25.0-WATER 24.5-28.5 ft	B-19-11.0-WATER 5.5-10.5 ft	B-19-25.0-WATER 23-25 ft (b)	B-19-50.0-WATER 47-49 ft	B-21-11.0-WATER 7-12 ft
SVOCs	8270	Aniline	mg/L	--	--	0.0051 U	--	--	--	--	--	0.0047 U	0.0047 U	0.0047 U	--	--	--
SVOCs	8270	Benzene, 1,4-Dinitro-	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Benzidine	mg/L	--	--	0.0051 U	--	--	--	--	--	0.0047 U	0.0047 U	0.0047 U	--	--	--
SVOCs	8270	Benzyl Alcohol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Bis(2-chloroethoxy)methane	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Bis(2-chloroethyl)ether	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Bis(2-chloroisopropyl)ether	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	**Bis(2-ethylhexyl)phthalate (BEHP)**	mg/L	0.0012	--	0.0010 U	--	--	--	--	--	0.00094 U	**0.0024*****	0.00095 U	--	--	--
SVOCs	8270	Butyl benzyl phthalate	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Carbazole	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Di-N-Octyl Phthalate	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Dibenzofuran	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Dibutyl phthalate	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Diethyl phthalate	mg/L	0.903	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Dimethyl phthalate	mg/L	72.016	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Hexachlorobenzene	mg/L	0.0002	--	0.00020 U	--	--	--	--	--	0.00019 U	0.00019 U	0.00019 U	--	--	--
SVOCs	8270	Hexachlorobutadiene	mg/L	0.0002	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Hexachlorocyclopentadiene	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Hexachloroethane	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	mg/L	--	--	0.0051 U	--	--	--	--	--	0.0047 U	0.0047 U	0.0047 U	--	--	--
SVOCs	8270	Isophorone	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	m,p-Cresol	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	N-Nitrosodi-n-propylamine	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	N-Nitrosodimethylamine	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	N-Nitrosodiphenylamine (as diphenylamine)	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Nitrobenzene	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	o-Cresol (2-methylphenol)	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	O-DINITROBENZENE	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Pentachlorophenol	mg/L	0.0030	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	**Phenol**	mg/L	5.401	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
SVOCs	8270	Pyridine	mg/L	--	--	0.0010 U	--	--	--	--	--	0.00094 U	0.00095 U	0.00095 U	--	--	--
VOCs	8260	1,1,1,2-Tetrachloroethane	mg/L	--	0.074	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,1,1-Trichloroethane	mg/L	--	25	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,1,2,2-Tetrachloroethane	mg/L	0.0040	0.062	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,1,2-Trichloroethane	mg/L	--	0.079	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,1-Dichloroethane	mg/L	--	5.0	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,1-Dichloroethene	mg/L	0.0032	0.28	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,1-Dichloropropene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,2,3-Trichlorobenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,2,3-Trichloropropane	mg/L	--	--	0.00025 U	0.00025 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00025 U	0.00025 U	0.00020 U	0.00020 U	0.00020 U	0.00025 U
VOCs	8260	1,2,4-Trichlorobenzene	mg/L	--	8.4	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,2,4-Trimethylbenzene	mg/L	0.061	0.052	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,2-Dibromo-3-Chloropropane	mg/L	--	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	1,2-dibromoethane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	--	4.0	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,2-Dichloroethane	mg/L	0.037	0.042	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0010 U	0.0010 U	0.0010 U	0.00020 U
VOCs	8260	1,2-Dichloropropane	mg/L	--	0.062	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,3,5-Trimethylbenzene	mg/L	--	0.054	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,3-Dichloropropane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/L	--	17	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	2,2-Dichloropropane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	2-Butanone (MEK)	mg/L	--	760	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
VOCs	8260	2-Chloroethyl vinyl ether	mg/L	--	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	2-Chlorotoluene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	**2-Hexanone**	mg/L	--	--	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	**0.0026**	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
VOCs	8260	4-Chlorotoluene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	mg/L	--	24	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
VOCs	8260	**Acetone**	mg/L	--	--	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	**0.0050**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
VOCs	8260	**Benzene**	mg/L	0.024	0.024	0.00020 U	**0.015**	0.00020 U	0.00020 U	**0.0064**	**0.00080**	0.00020 U	0.00020 U	**0.0077**	0.00020 U	0.00020 U	**0.010**
VOCs	8260	Bromobenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Bromochloromethane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Bromodichloromethane	mg/L	--	0.0009	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Bromoform (Tribromomethane)	mg/L	--	2.0	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	Bromomethane	mg/L	--	0.028	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	**Carbon Disulfide**	mg/L	--	0.87	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	**0.0012**	0.00020 U	0.00020 U	0.00020 U	0.00020 U	**0.00026**	0.00020 U
VOCs	8260	Carbon Tetrachloride	mg/L	--	0.0022	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Chlorobenzene	mg/L	--	0.22	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Chloroethane	mg/L	--	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	Chloroform	mg/L	0.012	0.012	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Chloromethane	mg/L	--	0.052	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	cis-1,2-Dichloroethene	mg/L	--	0.35	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U

TABLE 2

GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-14-11.0-WATER 10-15 ft	B-14-25.0-WATER 25-27 ft	B-15-11.0-WATER 10-20 ft	B-16-11.0-WATER 15-20 ft	B-16-25.0-WATER 20-25 ft	B-16-50.0-WATER[2] 48-52 ft (b)	B-17-11.0-WATER 10-15 ft (b)	B-17-25.0-WATER 24.5-28.5 ft	B-19-11.0-WATER 5.5-10.5 ft	B-19-25.0-WATER 23-25 ft (b)	B-19-50.0-WATER 47-49 ft	B-21-11.0-WATER 7-12 ft
VOCs	8260	Cis-1,3-Dichloropropene	mg/L	--	0.016	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Dibromochloromethane	mg/L	--	0.0022	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Dibromomethane	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Dichlorodifluoromethane (CFC-12)	mg/L	--	0.022	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Ethylbenzene	mg/L	0.049	6.1	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Hexachlorobutadiene	mg/L	0.0002	0.0081	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	**Isopropylbenzene (Cumene)**	mg/L	1.6	1.6	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	**0.00029**
VOCs	8260	Methyl Iodide (Iodomethane)	mg/L	--	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	Methyl t-butyl ether	mg/L	--	6.1	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Methylene Chloride	mg/L	0.59	0.94	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	n-Butylbenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	**n-Propylbenzene**	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Naphthalene	mg/L	0.36	0.36	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	p-Isopropyltoluene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Sec-Butylbenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Styrene	mg/L	--	0.78	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Tert-Butylbenzene	mg/L	--	--	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Tetrachloroethene	mg/L	0.0033	0.010	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	**Toluene**	mg/L	15	33	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	**0.0025**	0.0010 U
VOCs	8260	Trans-1,2-Dichloroethene	mg/L	0.25	0.29	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Trans-1,3-Dichloropropene	mg/L	--	0.016	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Trichloroethene	mg/L	0.0084	0.0042	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Trichlorofluoromethane (CFC-11)	mg/L	--	0.26	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Vinyl Acetate	mg/L	--	17	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
VOCs	8260	Vinyl Chloride	mg/L	0.0024	0.0035	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
VOCs	8260	Xylene, m-,p-	mg/L	15	0.67	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U
VOCs	8260	Xylene, o-	mg/L	0.166	0.96	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
pH	FP/4500 HB	pH (lab measurement except as noted)	SU	6-8.5	--	8.30	8.40	8.50	7.90	8.60	8.70	7.00	8.50	7.30	8.90	8.20	7.40
Salinity	2520B	Salinity (lab measurement)	g/Kg	--	--	--	--	--	--	--	--	0.09	0.86	0.52	0.77	9.66	--
Salinity	(d)	Salinity (field measurement)	g/Kg	--	--	0.5	0.4	0.6	0.3	0.4	--	0.1	0.9	0.6	0.8	11.3	0.2
Conductivity	(d)	Electrical conductivity	mS/cm	--	--	0.958	0.786	1.20	0.688	0.773	--	0.170	1.74	1.11	1.58	19.1	0.408
Turbidity	(d)	Turbidity (unfiltered sample)	NTU	--	--	278	276	386	1,000	>1,000	--	237	769	>1,000	>1,000	529	164

TABLE 2

GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-21-25.0-WATER 24-28 ft	B-21-50.0-WATER 46-50 ft (b)	B-22-11.0-WATER 6-11 ft	B-24-11.0-WATER 7-11 ft (b)	B-24-25.0-WATER 26-30 ft	B-25-11.0-WATER 8-12 ft	B-26-11.0-WATER 7-12 ft
BTEX	8021	Benzene	mg/L	0.024	0.024	--	--	--	--	--	0.0010 U	0.0010 U
BTEX	8021	Ethylbenzene	mg/L	0.049	6.1	--	--	--	--	--	0.0010 U	0.0010 U
BTEX	8021	Toluene	mg/L	15	33	--	--	--	--	--	0.0010 U	0.0010 U
BTEX	8021	Xylene, m-,p-	mg/L	15	0.67	--	--	--	--	--	0.0010 U	0.0010 U
BTEX	8021	Xylene, o-	mg/L	0.166	0.96	--	--	--	--	--	0.0010 U	0.0010 U
Fuels	NWTPH-Gx	**Total petroleum hydrocarbons as gasoline**	mg/L	0.80	--	0.4 U	--	0.1 U	**0.61**	0.1 U	0.1 U	0.1 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as diesel**	mg/L	0.50	--	0.26 U	--	0.26 U	**0.46 J**	0.26 U	0.27 U	0.26 U
Fuels	NWTPH-Dx	**Total petroleum hydrocarbons as lube oil**	mg/L	0.50	--	0.42 U	--	0.41 U	**0.60**	0.41 U	0.43 U	0.41 U
Dissolved Metals	200.8	**Arsenic**	mg/L	0.0050	0.010 (c)	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U	--	--
Dissolved Metals	200.8	**Cadmium**	mg/L	0.0090	--	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	--	--
Dissolved Metals	200.8	**Chromium**	mg/L	0.050	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--
Dissolved Metals	200.8	**Copper**	mg/L	0.0031	--	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	--	--
Dissolved Metals	200.8	**Lead**	mg/L	0.0081	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	--	--
Dissolved Metals	7470	Mercury	mg/L	0.00020	0.0019	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	--	--
PCBs	8082	PCB-aroclor 1016	mg/L	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1221	mg/L	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1232	mg/L	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1242	mg/L	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1248	mg/L	--	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1254	mg/L	0.0000017	--	--	--	--	--	--	--	--
PCBs	8082	PCB-aroclor 1260	mg/L	0.000020	--	--	--	--	--	--	--	--
PAHs	8270	1-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--
PAHs	8270	2-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--
PAHs	8270	Acenaphthene	mg/L	0.102	--	--	--	--	--	--	--	--
PAHs	8270	Acenaphthylene	mg/L	--	--	--	--	--	--	--	--	--
PAHs	8270	Anthracene	mg/L	0.041	--	--	--	--	--	--	--	--
PAHs	8270	**Benzo(g,h,i)perylene**	mg/L	--	--	--	--	--	--	--	--	--
PAHs	8270	Fluoranthene	mg/L	0.051	--	--	--	--	--	--	--	--
PAHs	8270	Fluorene	mg/L	0.070	--	--	--	--	--	--	--	--
PAHs	8270	Naphthalene	mg/L	0.36	--	--	--	--	--	--	--	--
PAHs	8270	Phenanthrene	mg/L	--	--	--	--	--	--	--	--	--
PAHs	8270	Pyrene	mg/L	0.049	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Benzo(a)anthracene**	mg/L	0.00002	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	Benzo(a)pyrene	mg/L	0.00002	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Benzo(b)fluoranthene**	mg/L	0.00002	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	Benzo(j,k)fluoranthene	mg/L	0.00002	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Chrysene**	mg/L	0.00002	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	Dibenzo(a,h)anthracene	mg/L	0.00002	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	Indeno(1,2,3-cd)pyrene	mg/L	0.00002	--	--	--	--	--	--	--	--
cPAHs	8270-SIM	**Total cPAHs TEC (ND=0.5MRL)**	mg/L	0.00002	--	--	--	--	--	--	--	--
SVOCs	8270	1,2,4-Trichlorobenzene	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	1,2-Diphenylhydrazine	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	1,3-Dinitrobenzene	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,3,4,6-Tetrachlorophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,3,5,6-Tetrachlorophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,3-DICHLOROANILINE	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,4,5-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,4,6-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dichlorophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dimethylphenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dinitrophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,4-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2,6-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2-Chloronaphthalene	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2-Chlorophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	2-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	3,3'-Dichlorobenzidine	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	3-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	4,6-Dinitro-2-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	4-Bromophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	4-Chloro-3-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	4-Chloroaniline	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	4-Chlorophenyl-Phenylether	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	4-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	4-Nitrophenol (p-Nitrophenol)	mg/L	--	--	--	--	--	--	--	--	--

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GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-21-25.0-WATER 24-28 ft	B-21-50.0-WATER 46-50 ft (b)	B-22-11.0-WATER 6-11 ft	B-24-11.0-WATER 7-11 ft (b)	B-24-25.0-WATER 26-30 ft	B-25-11.0-WATER 8-12 ft	B-26-11.0-WATER 7-12 ft
SVOCs	8270	Aniline	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Benzene, 1,4-Dinitro-	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Benzidine	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Benzyl Alcohol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Bis(2-chloroethoxy)methane	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Bis(2-chloroethyl)ether	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Bis(2-chloroisopropyl)ether	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	**Bis(2-ethylhexyl)phthalate (BEHP)**	mg/L	0.0012	--	--	--	--	--	--	--	--
SVOCs	8270	Butyl benzyl phthalate	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Carbazole	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Di-N-Octyl Phthalate	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Dibenzofuran	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Dibutyl phthalate	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Diethyl phthalate	mg/L	0.903	--	--	--	--	--	--	--	--
SVOCs	8270	Dimethyl phthalate	mg/L	72.016	--	--	--	--	--	--	--	--
SVOCs	8270	Hexachlorobenzene	mg/L	0.0002	--	--	--	--	--	--	--	--
SVOCs	8270	Hexachlorobutadiene	mg/L	0.0002	--	--	--	--	--	--	--	--
SVOCs	8270	Hexachlorocyclopentadiene	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Hexachloroethane	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Hexanedioic Acid, Bis(2-Ethylhexyl) Ester	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Isophorone	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	m,p-Cresol	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	N-Nitrosodi-n-propylamine	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	N-Nitrosodimethylamine	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	N-Nitrosodiphenylamine (as diphenylamine)	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Nitrobenzene	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	o-Cresol (2-methylphenol)	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	O-DINITROBENZENE	mg/L	--	--	--	--	--	--	--	--	--
SVOCs	8270	Pentachlorophenol	mg/L	0.0030	--	--	--	--	--	--	--	--
SVOCs	8270	**Phenol**	mg/L	5.401	--	--	--	--	--	--	--	--
SVOCs	8270	Pyridine	mg/L	--	--	--	--	--	--	--	--	--
VOCs	8260	1,1,1,2-Tetrachloroethane	mg/L	--	0.074	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,1,1-Trichloroethane	mg/L	--	25	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,1,2,2-Tetrachloroethane	mg/L	0.0040	0.062	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,1,2-Trichloroethane	mg/L	--	0.079	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,1-Dichloroethane	mg/L	--	5.0	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,1-Dichloroethene	mg/L	0.0032	0.28	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,1-Dichloropropene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,2,3-Trichlorobenzene	mg/L	--	--	0.0020 U	0.00020 U	0.00031 U	0.0030 U	0.00060 U	--	--
VOCs	8260	1,2,3-Trichloropropane	mg/L	--	--	0.0025 U	0.00025 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,2,4-Trichlorobenzene	mg/L	--	8.4	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,2,4-Trimethylbenzene	mg/L	0.061	0.052	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,2-Dibromo-3-Chloropropane	mg/L	--	--	0.01 U	0.0010 U	0.0010 U	0.01 U	0.0020 U	--	--
VOCs	8260	1,2-dibromoethane	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,2-Dichlorobenzene (o-Dichlorobenzene)	mg/L	--	4.0	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,2-Dichloroethane	mg/L	0.037	0.042	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,2-Dichloropropane	mg/L	--	0.062	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,3,5-Trimethylbenzene	mg/L	--	0.054	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,3-Dichlorobenzene (m-Dichlorobenzene)	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,3-Dichloropropane	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	1,4-Dichlorobenzene (p-Dichlorobenzene)	mg/L	--	17	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	2,2-Dichloropropane	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	2-Butanone (MEK)	mg/L	--	760	0.05 U	0.0050 U	0.0066 U	0.05 U	0.01 U	--	--
VOCs	8260	2-Chloroethyl vinyl ether	mg/L	--	--	0.01 U	0.0010 U	0.0016 U	0.043 U	0.0086 U	--	--
VOCs	8260	2-Chlorotoluene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	**2-Hexanone**	mg/L	--	--	0.02 U	0.0020 U	0.0026 U	0.02 U	0.0040 U	--	--
VOCs	8260	4-Chlorotoluene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	4-Methyl-2-Pentanone (Methyl isobutyl ketone)	mg/L	--	24	0.02 U	0.0020 U	0.0025 U	0.02 U	0.0040 U	--	--
VOCs	8260	**Acetone**	mg/L	--	--	0.05 U	0.0050 U	0.0077 U	0.05 U	0.01 U	--	--
VOCs	8260	**Benzene**	mg/L	0.024	0.024	**0.39**	**0.0014**	0.00020 U	**0.27**	**0.078**	--	--
VOCs	8260	Bromobenzene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Bromochloromethane	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Bromodichloromethane	mg/L	--	0.0009	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Bromoform (Tribromomethane)	mg/L	--	2.0	0.01 U	0.0010 U	0.0010 U	0.01 U	0.0020 U	--	--
VOCs	8260	Bromomethane	mg/L	--	0.028	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	**Carbon Disulfide**	mg/L	--	0.87	0.0020 U	**0.00045**	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Carbon Tetrachloride	mg/L	--	0.0022	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Chlorobenzene	mg/L	--	0.22	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Chloroethane	mg/L	--	--	0.01 U	0.0010 U	0.0010 U	0.01 U	0.0020 U	--	--
VOCs	8260	Chloroform	mg/L	0.012	0.012	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Chloromethane	mg/L	--	0.052	0.01 U	0.0010 U	0.0010 U	0.01 U	0.0020 U	--	--
VOCs	8260	cis-1,2-Dichloroethene	mg/L	--	0.35	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--

TABLE 2

GROUNDWATER ANALYTICAL DATA SUMMARY[1]

May-June 2014

Puget Sound Energy LNG Project

Tacoma, WA

Group	Analytical Method	Analyte	Units	Port Screening Level	Other Potentially Applicable Screening Levels (a)	B-21-25.0-WATER 24-28 ft	B-21-50.0-WATER 46-50 ft (b)	B-22-11.0-WATER 6-11 ft	B-24-11.0-WATER 7-11 ft (b)	B-24-25.0-WATER 26-30 ft	B-25-11.0-WATER 8-12 ft	B-26-11.0-WATER 7-12 ft
VOCs	8260	Cis-1,3-Dichloropropene	mg/L	--	0.016	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Dibromochloromethane	mg/L	--	0.0022	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Dibromomethane	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Dichlorodifluoromethane (CFC-12)	mg/L	--	0.022	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Ethylbenzene	mg/L	0.049	6.1	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Hexachlorobutadiene	mg/L	0.0002	0.0081	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	**Isopropylbenzene (Cumene)**	mg/L	1.6	1.6	0.0020 U	0.00020 U	0.00020 U	**0.010**	0.00040 U	--	--
VOCs	8260	Methyl Iodide (Iodomethane)	mg/L	--	--	0.01 U	0.0010 U	0.0010 U	0.01 U	0.0020 U	--	--
VOCs	8260	Methyl t-butyl ether	mg/L	--	6.1	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Methylene Chloride	mg/L	0.59	0.94	0.01 U	0.0010 U	0.0010 U	0.01 U	0.0020 U	--	--
VOCs	8260	n-Butylbenzene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	**n-Propylbenzene**	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	**0.011**	0.00040 U	--	--
VOCs	8260	Naphthalene	mg/L	0.36	0.36	0.01 U	0.0010 U	0.0016 U	0.016 U	0.0032 U	--	--
VOCs	8260	p-Isopropyltoluene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Sec-Butylbenzene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Styrene	mg/L	--	0.78	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Tert-Butylbenzene	mg/L	--	--	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Tetrachloroethene	mg/L	0.0033	0.010	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	**Toluene**	mg/L	15	33	0.01 U	0.0010 U	0.0010 U	0.01 U	**0.0025**	--	--
VOCs	8260	Trans-1,2-Dichloroethene	mg/L	0.25	0.29	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Trans-1,3-Dichloropropene	mg/L	--	0.016	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Trichloroethene	mg/L	0.0084	0.0042	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Trichlorofluoromethane (CFC-11)	mg/L	--	0.26	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Vinyl Acetate	mg/L	--	17	0.01 U	0.0010 U	0.0010 U	0.01 U	0.0020 U	--	--
VOCs	8260	Vinyl Chloride	mg/L	0.0024	0.0035	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
VOCs	8260	Xylene, m-,p-	mg/L	15	0.67	0.0040 U	0.00040 U	0.00040 U	0.0040 U	0.00080 U	--	--
VOCs	8260	Xylene, o-	mg/L	0.166	0.96	0.0020 U	0.00020 U	0.00020 U	0.0020 U	0.00040 U	--	--
pH	FP/4500 HB	pH (lab measurement except as noted)	SU	6-8.5	--	8.20	8.00	7.60	7.00	8.60	6.90	6.70
Salinity	2520B	Salinity (lab measurement)	g/Kg	--	--	--	--	--	--	--	0.15	0.14
Salinity	(d)	Salinity (field measurement)	g/Kg	--	--	1.0	6.9	0.2	0.3	0.6	0.2	0.1
Conductivity	(d)	Electrical conductivity	mS/cm	--	--	2.04	11.8	0.326	0.586	1.17	0.317	0.278
Turbidity	(d)	Turbidity (unfiltered sample)	NTU	--	--	>1,000	>1,000	530	172	152	789	305

[1] The groundwater grab samples analyzed for this investigation were obtained using direct-push and sonic drilling methods; consequently, the tabulated data are considered screening-level data rather than definitive data.

[2] Temporary well casing was not purged prior to collecting sample due to low groundwater yield; sample may not be representative of the targeted depth interval.

ft = Feet below ground surface

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

g/Kg = Grams per kilogram (parts per thousand)

mS/cm = Millisiemens per centimeter

SU = pH standard units

NTU = Nephelometric turbidity units

VI = Vapor intrusion

ND = Non-detect result

MRL = Method reporting limit

TEC = Toxic equivalent concentration

U = Not detected above the listed method reporting limit

J = Estimated concentration

BOLD typeface = Analyte/concentration detected above method reporting limit

= Analyte/sample/concentration exceeds screening level

-- = No value available or not analyzed

* Per discussion with the Port of Tacoma, result may be biased high due to analytical interference from elevated salinity in the sample (as indicated by conductivity values >1 mS/cm).

** Result may be biased high based on the observed presence of solids at bottom of field-filtered sample (filtering did not remove all suspended particulates).

*** Result may reflect laboratory contamination (BEHP is a common laboratory contaminant).

(a) Listed values are Ecology Method C vapor intrusion screening levels (Ecology, 2009) unless otherwise indicated.

(b) A single depth was recorded on the field sampling form; the listed depth range (temporary well casing screened interval) was estimated based on the depth range of other samples collected on the same date and/or in the same vicinity.

(c) Federal Drinking Water Maximum Contaminant Level (MCL) (proposed surface water protection standard; Ecology, 2014)

(d) Field measurement

(e) Measurement is suspect based on measured turbidities of other samples and the fact that the sample was visibly cloudy.

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Data Validation Report

Project: PSE Tacoma LNG – Environmental Site Assessment
GEI File No: 00186-914-02

Date: July 12, 2014

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of samples collected as part of the Environmental Site Assessment conducted in May and June 2014, and the associated laboratory and field quality control (QC) samples. The samples were collected at the Puget Sound Energy (PSE) Tacoma LNG Property of Interest located on the Blair-Hylebos Peninsula in Tacoma, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (National Functional Guidelines; USEPA, 2008) and USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review (National Functional Guidelines; USEPA, 2010) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining whether:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following quality control (QC) elements, as applicable:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Field Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated (Bold typeface indicates one or more analytical results associated with the sample were qualified)
1405-178	(Soil Samples) B-2-2.0, B-2-8.0, B-3-2.0, B-3-8.0, B-4-2.0, B-4-8.0, B-23-2.0, B-23-8.0, B-26-2.0, and B-26-8.0
	(Water Samples) B-2-11.0-WATER, B-3-11.0-WATER, B-4-11.0-WATER, and B-26-11.0-WATER
1405-184	(Soil Samples) B-1-2.0, B-1-8.0, B-5-2.0, B-5-8.0, B-6-2.0, B-6-8.0, B-8-6.0, B-8-11.0, B-11-8.0, B-11-12.0, B-20-2.0, **B-20-8.0**, B-22-2.0, and B-22-8.0
	(Water Samples) B-1-11.0-WATER, and B-22-11.0-WATER
1405-193	(Soil Samples) B-10-2.0, B-10-7.0, and B-10-13.0
	(Water Samples) B-10-11.0-WATER, B-10-25.0-WATER, and B-10-50.0-WATER
1405-209	(Soil Samples) B-7-2.0, B-7-8.0, B-18-2.0, B-18-8.0, B-24-2.0, and B-24-8.0
	(Water Samples) B-7-11.0-WATER, **B-24-11.0-WATER**, and B-24-25.0-WATER
1405-229	(Soil Samples) B-17-2.0, B-17-8.0, B-21-2.0, and B-21-8.0
	(Water Samples) B-17-11.0-WATER, B-17-25.0-WATER, B-21-11.0-WATER, B-21-25.0-WATER, B-21-50.0-WATER, and B-25-11.0-WATER
1405-249	(Soil Samples) B-9-7.0, B-9-13.0, B-19-2.0, and B-19-8.0,
	(Water Samples) B-19-11.0-WATER, B-19-25.0-WATER, and B-19-50.0-WATER
1405-253	(Soil Samples) B-13-7.0, B-13-13.0, B-14-7.0, and B-14-13.0,

1405-253	(Water Samples) B-13-15.0-WATER, B-13-25.0-WATER, B-14-11.0-WATER, B-14-25.0-WATER
1405-255	(Soil Samples) B-12-2.0, B-12-7.0, and B-12-13.0
	(Water Samples) B-12-11.0-WATER and B-12-25.0-WATER
1406-007	(Soil Samples) B-15-2.0, B-15-7.0, B-15-13.0, B-16-2.0, B-16-7.0, and B-16-13.0
	(Water Samples) B-15-11.0-WATER, B-16-11.0-WATER, B-16-25.0-WATER, and B-16-50.0-WATER

CHEMICAL ANALYSIS PERFORMED

Onsite Environmental, Inc. in Redmond, Washington (OnSite), performed laboratory analysis on the soil and water samples using the following methods:

- Gasoline-Range Hydrocarbons by Method NWTPH-Gx
- Diesel- and Lube Oil-Range Hydrocarbons by Method NWTPH-Dx (with sulfuric acid and silica gel clean-up)
- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by USEPA Method SW8021B
- Volatile Organic Compounds (VOCs) by USEPA Method SW8260B
- Semi-Volatile Organic Compounds (SVOCs) by USEPA Methods SW8270C/SW8270-SIM
- Polychlorinated Biphenyls (PCBs) by USEPA Method SW8082A
- Total and Dissolved Metals by USEPA Methods SW6010C/200.8 and SW7470A/7471B
- pH by SM 4500 HB

AmTest Inc. in Kirkland, Washington (AmTest), performed laboratory analysis on the water samples using the following methods:

- Salinity by SM 2520B

DATA VALIDATION SUMMARY

Data Package Completeness

Onsite was the primary laboratory that analyzed the soil and water samples. OnSite subcontracted the salinity analyses to AmTest. Both laboratories provided all required deliverables for this assessment. The laboratories followed adequate corrective action procedures and all identified anomalies were discussed in the case narratives.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COC forms were accurate and complete when submitted to and received from the laboratory.

Sample Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for all analyses.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recovery (%R) values are calculated following analysis. All surrogate %R values for the field samples were within the laboratory control limits, with the exceptions listed below.

SDG 1405-178: (SVOCs) The %R value for 2,4,6-tribromophenol was less than the control limit in Sample B-3-8.0. Also, the %R value for phenol-d6 was greater than the control limit is Sample B-4-2.0. These samples were spiked with three acidic fraction surrogates, and in all cases at least two of these surrogates exhibited recoveries that were within the required control limits. No action was required for these surrogate outliers.

The %R value for terphenyl-d14 was greater than the control limit in Sample B-3-11.0-WATER. This sample was spiked with three base-neutral fraction surrogates, and in this case at least two of these surrogates exhibited recoveries that were within the required control limits. No action was required for this surrogate outlier.

SDG 1405-184: (SVOCs) The %R values for 2-fluorobiphenyl were greater than the control limits in Samples B-1-2.0 and B-20-8.0. These samples were spiked with three base-neutral fraction surrogates, and in all cases at least two of these surrogates exhibited recoveries that were within the required control limits. No action was required for these surrogate outliers.

SDG 1405-193: (VOCs) The %R value for dibromofluoromethane was greater than the control limit in Sample B-10-11.0-WATER. There were no positive results for any target analytes in this sample. No action was required for this surrogate outlier.

(SVOCs) The %R values for phenol-d6 were greater than the control limits in Samples B-10-2.0 and B-10-13.0. These samples were spiked with three acidic fraction surrogates, and in all cases at least two of these surrogates exhibited recoveries that were within the required control limits. No action was required for these surrogate outliers.

SDG 1405-209: (VOCs) The %R value for dibromofluoromethane was greater than the control limit in Sample B-24-11.0-WATER. There were no positive results for any target analytes in this sample. No action was required for this surrogate outlier.

SDG 1406-007: (SVOCs) The %R value for 2,4,6-tribromophenol was less than the control limits in Sample B-15-13.0. This sample was spiked with three acidic fraction surrogates, and in all cases at least two of these surrogates exhibited recoveries that were within the required control limits. No action was required for this surrogate outlier.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of field samples, at a frequency of 1 per 20 samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in any of the method blanks.

Matrix Spikes/Matrix Spike Duplicates

Because the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a %R value is calculated. In the event that a %R value for a particular analyte is outside the associated control limits in the MS sample, the laboratory is required to analyze a "post-spiked" sample in to further isolate any potential QC issues with the given analyte.

MS analyses should be performed once per analytical batch or every 20 field samples, whichever is more frequent. The control limits for MS samples are 75% to 125% for all of the analytes of interest for this study.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample is a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is treated much like an MS sample, without the possibility of matrix interference. As there is no actual sample matrix (such as soil or groundwater) in the analysis, the analytical expectations for accuracy and precision are usually more rigorous, and qualification would apply to all samples in the batch.

Laboratory control sample analyses should be performed once per analytical batch or every 20 field samples, whichever is more frequent. The control limits for laboratory control samples are specified in the laboratory documents as are the relative percent difference (RPD) values. The frequency requirements were met for all analyses, and the %R/RPD values were within the control limits.

Field Duplicates

No field duplicates were collected during this sampling event.

Reporting Limits and Miscellaneous

The contract required quantitation limits (CRQL) were met by the laboratory for all target analytes, with the exceptions listed below.

SDG 1405-184: (NWTPH-Dx) The contract-required reporting limits were not met for Diesel-Range Hydrocarbons in Sample B-1-2.0. The reporting limits were elevated because of the high concentration of Lube Oil-Range Hydrocarbons in the sample. Consequently, no action was taken.

Also, the laboratory recognized that the chromatogram for Lube Oil-Range Hydrocarbons in Sample B-20-8.0 did not match that of the calibration standard. For this reason, the positive result for Lube Oil-Range Hydrocarbons was qualified as estimated (J) in this sample.

SDG 1405-209: The laboratory recognized that the chromatogram for Diesel-Range Hydrocarbons in Sample B-24-11.0-WATER did not match that of the calibration standard. For this reason, the positive result for Diesel-Range Hydrocarbons was qualified as estimated (J) in this sample.

OVERALL ASSESSMENT

The laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was also acceptable, as demonstrated by the laboratory duplicate, LCS/LCSD, and MS/MSD RPD or absolute difference values.

Selected data were qualified as estimated (J) because chromatograms did not match those of the calibration standards.

All data, as qualified, are considered acceptable for their intended use.

REFERENCES

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review," EPA 540-R-10-011. January 2010.

GeoEngineers, Inc., "Sampling and Analysis Plan", prepared for Puget Sound Energy, April 24, 2014.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/ Quarry Spalls
	TS	Topsoil/ Forest Duff/Sod

Groundwater Contact

Measured groundwater level in exploration, well, or piezometer

Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Material Description Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
PPM	Parts per million
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS

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FIGURE A-1

Drilled Start 5/21/2014 End 5/21/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27523 Longitude -122.4004		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet) / Depth (feet)	FIELD DATA: Interval / Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
0	24					AC	2 inches asphalt concrete			
						SP-SM	Brown fine to coarse sand with silt and gravel (medium dense, moist) (fill)			
			E1							
						SP	Gray fine to medium sand with trace silt (loose, moist) (fill)			
	48									
5										
						SP-SM	Gray fine to medium sand with silt (loose, wet) (Till)			Groundwater observed at approximately 6 feet at the time of drilling
			E2							
	48									
10						SM	Gray silty fine to medium sanbd with occasional organics (shells and wood)			
	36									
			G3			ML	Gray silt with occasional fine sand			
15										

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-1

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-2
Sheet 1 of 1

Drilled Start 5/20/2014 End 5/20/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27506 Longitude -122.39887		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
0		36						AC	2 inches asphalt concrete			
					E1			SP-SM	Brown fine to coarse sand with silt and gravel (medium dense, moist) (fill)			
					E2			SP-SM	Gray fine to medium sand with silt (medium dense, moist) (fill)			
5		48										
					G3			ML	Gray silt with occasional fine sand and organics (wood) (soft, wet)			Groundwater observed at approximately 7 feet at the time of drilling
		48			E4			SP	Gray fine to medium sand with trace silt and occasional organics (shells) (loose, moist to wet)			
10												
		36										
15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-2

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-3
Sheet 1 of 1

Drilled Start 5/20/2014 End 5/20/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27574 Longitude -122.39941		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet) / Depth (feet)	FIELD DATA: Interval / Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
0	42		E1			SM	Brown silty fine to coarse sand with gravel (medium dense, moist) (fill)			
	48		G2			SP-SM	Gray fine to medium sand with silt (loose, moist) (fill)			
5			G3			ML	Gray silt (soft, wet) (fill)			
						SM	Gray silty fine sand (loose, wet) (fill)			Groundwater observed at approximately 7 feet at the time of drilling
	48		E4			ML	Gray silt with occasional fine sand (very soft, wet)			
10			G5							
	36					SM	Gray silty fine sand with occasional organics (shells) (loose, wet)			
						ML	Gray silt with occasional fine sand (very soft, wet)			
			G6							
15										

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-3

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-4
Sheet 1 of 1

Drilled	Start 5/20/2014	End 5/20/2014	Total Depth (ft)	15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data			Drilling Equipment	Power Probe 9500D	
Latitude Longitude	47.27579 -122.39894		System Datum	Geographic WGS84		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:						See Remarks		

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		42						SM	Brown fine to coarse sand with silt and gravel (medium dense, moist) (fill)			
						E1			SP-SM	Gray fine to medium sand with silt (loose, moist) (fill)			
			48										
	5								ML/SM	Interbedded gray silt and gray silty fine sand (loose/soft, wet) (fill)			Groundwater observed at approximately 5.5 feet at the time of drilling
			48			E2							
									ML	Gray silt with occasional fine sand (loose, wet)			
	10					G3							
			36						SM	Gray silty fine sand (loose, wet)			
									ML	Gray silt with occasional fine sand (soft, wet)			
						G4							
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-4

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-5
Sheet 1 of 1

Drilled Start 5/21/2014 End 5/21/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push	
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D	
Latitude 47.27632 Longitude -122.39938		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft)	See Remarks
Notes:					

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		24						AC	3 inches asphalt concrete			
									SP-SM	Brown fine to coarse sand with silt and gravel (medium dense, moist) (fill)			
						E1							
			12										
	5								SP-SM	Gray fine to medium sand with silt (loose, moist) (fill)			
			48			E2							
										Grades to wet at 9 feet			Groundwater observed at approximately 9 feet at the time of drilling
	10								ML	Gray silt with occasional fine sand (very soft, wet)			
						G3							
			36										
	15								SM	Gray silty fine sand (loose, wet)			

Note: See Figure A-1 for explanation of symbols.

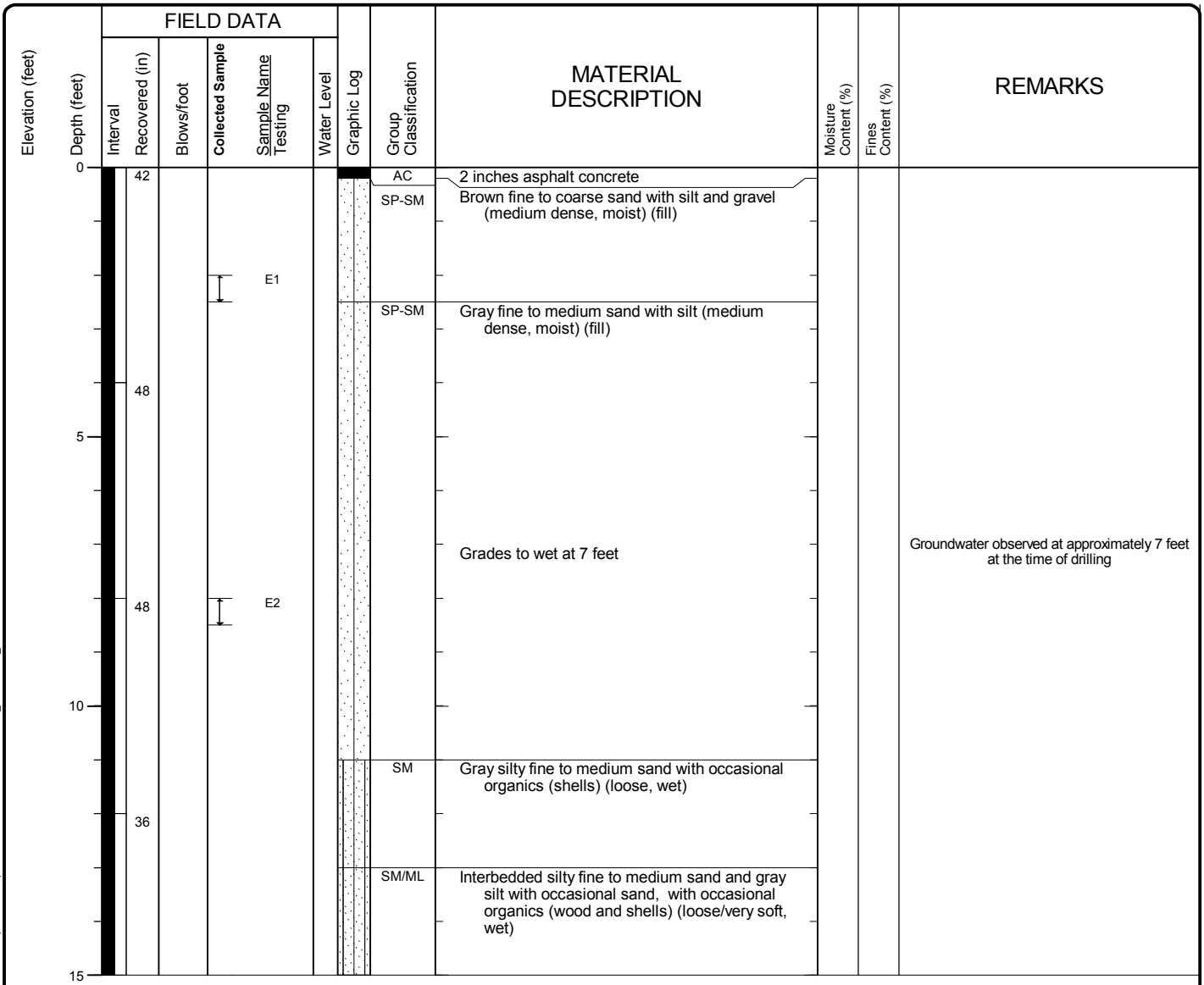
Log of Boring B-5

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-6
Sheet 1 of 1

Drilled	Start 5/21/2014	End 5/21/2014	Total Depth (ft)	15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data			Drilling Equipment	Power Probe 9500D	
Latitude Longitude	47.27545 -122.40109		System Datum	Geographic WGS84		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:						See Remarks		



Note: See Figure A-1 for explanation of symbols.

Log of Boring B-6

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-7
Sheet 1 of 1

Drilled Start 5/27/2014 End 5/27/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27578 Longitude -122.40161		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		48						AC	2 inches asphalt concrete			
									SM	Brown silty fine to medium sand with gravel (loose, moist) (fill)			
									SP-SM	Gray fine to medium sand with silt (medium dense, moist)			
			48										
	5									Becomes dark gray			
			48							Becomes wet at 8 feet			Groundwater observed at approximately 8 feet at the time of drilling
	10												
			36										
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-7

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-8
Sheet 1 of 1

Drilled Start 5/21/2014 End 5/21/2014	Total Depth (ft) 20	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27578 Longitude -122.40064		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		48						AC	6 inches asphalt concrete			
									SP-SM	Brown fine to coarse sand with silt and gravel (medium dense, moist) (fill)			
						E1							
			48						SM	Gray silty fine to medium sand (loose to medium dense, moist)			
	5					E2							
			48							Grades to wet			
	10								ML	Gray silt with fine sand (very stiff, wet)			Groundwater observed at approximately 10 feet at the time of drilling
						E3			SM	Gray silty fine to medium sand (loose, moist)			
			48										
									SP-SM	Gray fine to medium sand with silt and occasional organics (shells) (loose, wet)			
	15								SM	Gray silty fine to medium sand (loose, wet)			
			48						ML/SM	Gray silt with occasional fine sand with interbedded silty fine to medium sand lenses (very stiff/loose, wet)			
						G4							
	20												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-8

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-9
Sheet 1 of 1

Drilled Start 5/29/2014 End 5/29/2014	Total Depth (ft) 20	Logged By BL/GH Checked By MM	Driller Cascade Drilling, Inc.	Drilling Method Sonic	
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Geoprobe 8/40LS	
Latitude 47.27613 Longitude -122.40039		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft)	See Remarks
Notes:					

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		60						CC	4 inches concrete			
									SM	Brown silty fine to medium sand with occasional gravel (medium dense, moist) (fill)			
						E1				Grades to with gravel			
	5		36						SP-SM	Gray fine to medium sand with silt (loose, moist) (fill)			
						E2							
									ML	Gray silt with occasional sand and organics (wood) (soft, wet)			
	10		60						SM	Gray silty fine to medium sand (loose, wet) (fill)			Groundwater observed at approximately 10 feet at the time of drilling
						E3							
	15		60						ML	Gray silt with occasional fine sand (very soft, wet)			
									SM	Gray silty fine to medium sand (loose, wet)			
	20												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-9

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-10
Sheet 1 of 1

Drilled Start 5/22/2014 End 5/22/2014	Total Depth (ft) 20	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27651 Longitude -122.39978		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		48						AC	4 inches asphalt concrete			
									SP-SM	Brown fine to coarse sand with silt and gravel (medium dense, moist) (fill)			
						E1							
			48										
	5								SP-SM	Gray fine to medium sand with silt (loose, moist) (fill)			
						E2							
			48										
									ML	Gray silt (very soft, wet) (fill)			
						G3							Groundwater observed at approximately 9.5 feet at the time of drilling
	10								SM	Gray silt fine to medium sand with occasional organics (wood) (loose, wet)			
			48						ML	Gray silt with occasional fine sand (very stiff, wet)			
						E4							
									SM	Gray silty fine to medium sand (loose, wet)			
	15												
			48						ML	Gray silt with occasional fine sand (very stiff, wet)			
						G5							
									SM/ML	Interbedded gray silty fine sand and gray silt (loose/very stiff, wet)			
	20												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-10

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-11
Sheet 1 of 1

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
5/21/2014	5/21/2014	20	BL/GH / MM	Holocene Drilling, Inc.	Direct Push

Surface Elevation (ft) / Vertical Datum	Hammer Data	Drilling Equipment
Undetermined		Power Probe 9500D

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
47.27708 / -122.39877	Geographic WGS84	See Remarks		

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		24						CC	6 inches concrete			
									SP-SM	Brown fine to coarse sand with silt and gravel (dense, moist) (fill)			
						E1							
			36										
	5												
									ML	Brown silt with occasional fine sand (soft, moist) (fill)			
									SP-SM	Gray fine to medium sand with silt (loose, moist) (fill)			
			48			E2							
	10								SP	Gray fine to medium sand with trace silt (loose, moist) (fill)			Groundwater observed at approximately 11 feet at the time of drilling
			48			E3							
	15												
			48										
									ML	Gray silt with occasional fine sand (very soft, wet)			
	20								SP-SM	Gray fine to medium sand with silt (loose, wet)			

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-11

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-12
Sheet 1 of 1

Tacoma: Date:9/5/14 Path:\\TAC\PROJECTS\0018691402\GINT\0186914402 GEOTECH SAMPLES.GPJ DBTemplate/LibTemplate:GEOENGINEERS8.GDT/GEI8_GEOTECH_STANDARD

Drilled Start 5/30/2014 End 5/30/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Cascade Drilling, Inc.	Drilling Method Sonic
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Geoprobe 8/40LS
Latitude 47.27737 Longitude -122.39937		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		60			E1			SM	Brown silty fine to coarse sand with gravel (medium dense, moist)			
	5		60			E2			SP-SM	Gray silty fine to medium sand (loose, moist)			
	10		60			E3				Becomes wet			
									ML	Gray sandy silt (soft, wet)			
	15								SM	Gray silty fine to medium sand with organics (shells) (soft, wet)			

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-12

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-13
Sheet 1 of 1

Drilled Start 5/30/2014 End 5/30/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Cascade Drilling, Inc.	Drilling Method Sonic	
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Geoprobe 8/40LS	
Latitude 47.27702 Longitude -122.39966		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft)	See Remarks
Notes:					

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		60						CC	4 inches concrete			
									SM	Brown silty fine to coarse sand with gravel (medium dense, moist) (fill)			
						E1							
									SP-SM	Gray fine to medium sand with silt (loose, moist) (fill)			
	5		60										
						E2							
									SM	Gray silty fine to medium sand with occasional organics (shells) (loose, moist) (fill)			
	10		60							Grades to wet at 11 feet			Groundwater observed at approximately 10 feet at the time of drilling
						E3							
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-13

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-14
Sheet 1 of 1

Drilled	Start 5/30/2014	End 5/30/2014	Total Depth (ft)	15	Logged By BL/GH Checked By MM	Driller Cascade Drilling, Inc.	Drilling Method Sonic
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data			Drilling Equipment	Geoprobe 8/40LS
Latitude Longitude	47.27686 -122.40009		System Datum	Geographic WGS84		Groundwater Date Measured	Depth to Water (ft) / Elevation (ft) See Remarks
Notes:							

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0	60							AC	7 inches asphalt concrete			
									SM	Brown silty fine to coarse sand with gravel (medium dense, moist)			
						E1							
	5	60											
									SP-SM	Gray fine to medium sand with silt (loose, moist)			
						E2							
	10	60							SM	Gray silty sand (soft, wet)			
						E3							
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-14

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-15
Sheet 1 of 1

Drilled	Start 6/2/2014	End 6/2/2014	Total Depth (ft) 20	Logged By BL/GH Checked By MM	Driller Cascade Drilling, Inc.	Drilling Method Sonic
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	Geoprobe 8/40LS
Latitude 47.27651 Longitude -122.40055			System Datum	Geographic WGS84	Groundwater Date Measured	Depth to Water (ft) / Elevation (ft): See Remarks
Notes:						

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		60					CC	6 inches concrete			
								SM	Brown silty fine to coarse sand with occasional gravel (medium dense, moist)			
					E1				With gravel			
	5		60					SP-SM	Gray fine to medium sand with silt (loose, moist)			
					E2							
	10		60					SM	Gray silty fine to coarse sand with gravel (loose, wet)			
					E3			ML	Gray silt with sand (soft, wet)			
								SM	Gray silty fine to coarse sand with gravel (loose, wet)			
	15		60									
	20											

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-15

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-16
Sheet 1 of 1

Drilled	Start 6/2/2014	End 6/2/2014	Total Depth (ft) 20	Logged By BL/GH Checked By MM	Driller Cascade Drilling, Inc.	Drilling Method Sonic
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data		Drilling Equipment	Geoprobe 8/40LS
Latitude 47.2762 Longitude -122.40105			System Datum	Geographic WGS84	Groundwater Date Measured	Depth to Water (ft) / Elevation (ft): See Remarks
Notes:						

Elevation (feet) / Depth (feet)	FIELD DATA: Interval / Recovered (in)	Blows/foot	Collected Sample / Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
0	36					CC	4 inches concrete			
						SM	Brown silty fine to coarse sand with gravel (medium dense, moist) (fill)			
			E1							
5	60									
						SP-SM	Gray fine to medium sand with silt and occasional gravel and organics (shells) (loose, moist) (fill)			
			E2							
10	60						Grades to wet at 12 feet			Groundwater observed at approximately 12 feet at the time of drilling
			E3							
15	60					SM	Gray silty fine to medium sand with occasional organics (shells, grass) (loose, wet)			
20										

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-16

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-17
Sheet 1 of 1

Drilled Start 5/28/2014 End 5/28/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push	
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D	
Latitude 47.27745 Longitude -122.39808		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft)	
Notes:				See Remarks	

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		28						AC	3 inches asphalt concrete			
									SM	Brown silty sand with gravel (medium dense, moist)			
						E2			SP-SM	Gray fine to medium sand with silt (loose, moist)			
			42										
	5					E1				Becomes wet at 7 feet			Groundwater observed at approximately 6.6 feet at the time of drilling
			48										
	10												
			36										
									ML	Gray silt with sand (soft, wet0			
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-17

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-18
Sheet 1 of 1

Drilled Start 5/27/2014 End 5/27/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27761 Longitude -122.3987		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		48						AC	5 inches asphalt concrete			
									SM	Brown silty fine to coarse sand with gravel			
						E1			SP-SM	Gray fine to medium sand with silt (loose, moist)			
			42										
	5									Grades to brown			
			42			E2							
										Becomes wet at 9 feet			
	10								SP-SM	Black sand with silt and trace gravel (gravel subangular up to 2 inches in diamter) (loose, wet)			
			36										
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-18

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-19
Sheet 1 of 1

Drilled Start 5/29/2014 End 5/29/2014	Total Depth (ft) 20	Logged By BL/GH Checked By MM	Driller Cascade Drilling, Inc.	Drilling Method Sonic
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Geoprobe 8/40LS
Latitude 47.27651 Longitude -122.39978		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet) / Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample / Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
0		48					AC	5 inches asphalt concrete			
							SM	Brown silty fine to coarse sand with gravel (medium dense, moist) (fill)			
				E1							
							SP-SM	Gray fine to medium sand with silt and occasional organics (shells) (loose, moist) (fill)			
5		60									
				E2				Grades to wet at 8 feet			
10		96									
15							SM	Gray silty fine to medium sand with occasional organics (shells and wood) (loose, wet)			
							SP-SM	Gray fine to medium sand with silt (loose, wet)			
20											

Note: See Figure A-1 for explanation of symbols.

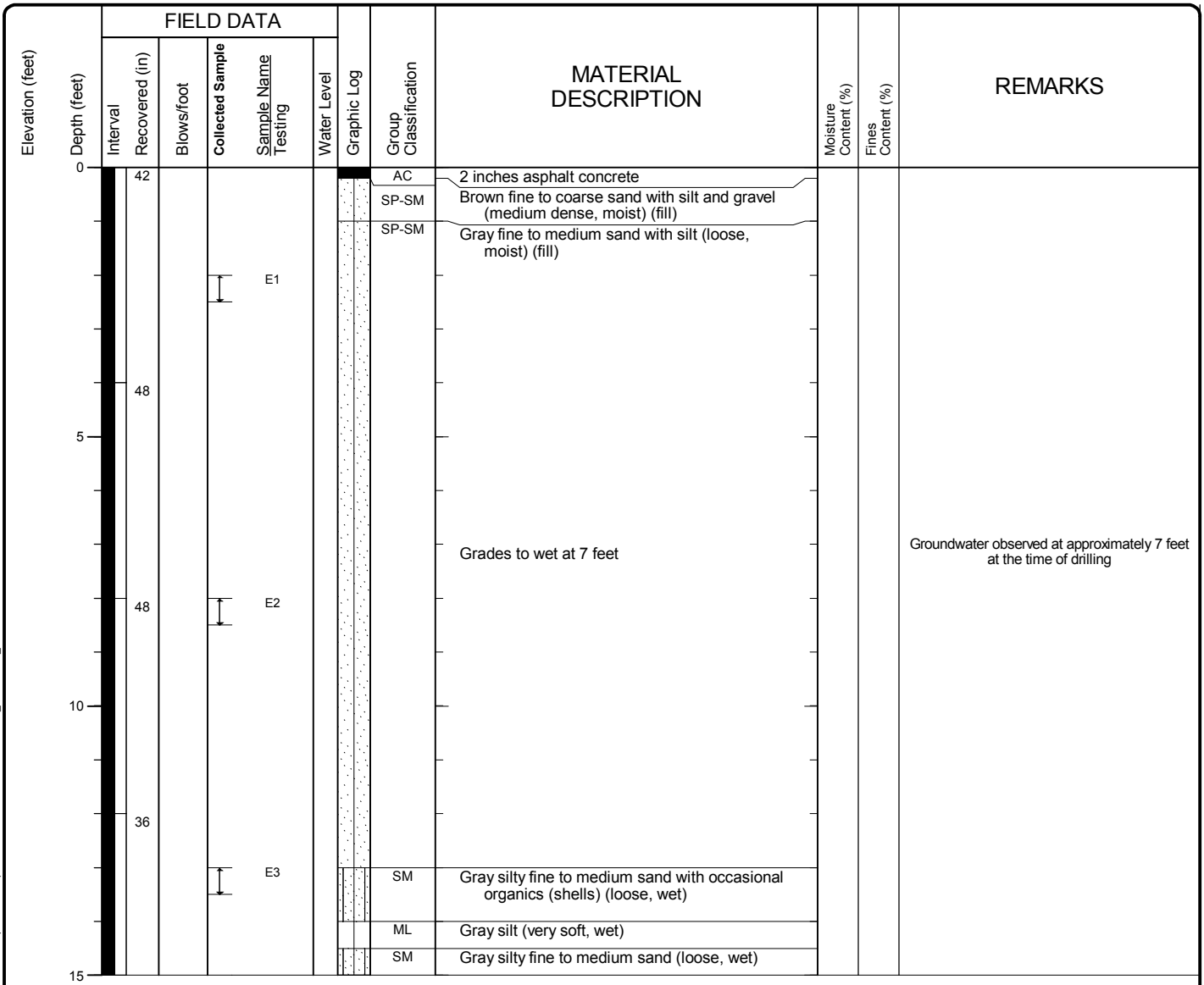
Log of Boring B-19

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-20
Sheet 1 of 1

Drilled	Start 5/21/2014	End 5/21/2014	Total Depth (ft)	15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data			Drilling Equipment	Power Probe 9500D	
Latitude Longitude	47.27792 -122.40019		System Datum	Geographic WGS84		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:						See Remarks		



Note: See Figure A-1 for explanation of symbols.

Log of Boring B-20

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-21
Sheet 1 of 1

Drilled	Start 5/28/2014	End 5/28/2014	Total Depth (ft)	15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data			Drilling Equipment	Power Probe 9500D	
Latitude Longitude	47.27726 -122.40038		System Datum	Geographic WGS84		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:						See Remarks		

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		42						AC	2 inches asphalt concrete			
									SM	Brown silty sand with gravel			
						E1			SP-SM	Gray fine to medium sand with silt (medium dense, moist)			
			48										
	5								ML	Gray silt with sand (soft, moist to wet)			
									SP-SM	Dark gray to black fine to medium sand with silt (loose, wet)			Groundwater observed at approximately 6.5 feet at the time of drilling
			48			E2							
	10												
			36										
	15								ML/SM	Interbedded gray silt and gray silty sand (loose/soft, wet)			

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-21

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-22
Sheet 1 of 1

Drilled	Start 5/21/2014	End 5/21/2014	Total Depth (ft)	15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data			Drilling Equipment	Power Probe 9500D	
Latitude Longitude	47.27682 -122.40075		System Datum	Geographic WGS84		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:						See Remarks		

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		42						AC	2 inches asphalt concrete			
									SP-SM	Brown fine to coarse sand with silt and gravel (medium dense, moist) (fill)			
						E1			SP-SM	Brown fine to medium sand with silt (loose, moist) (fill)			
			48			E2							
	5								SM	Gray silty fine to medium sand (loose, moist)			
									ML	Gray silt (very soft, wet) (fill)			
									SM	Gray silty fine to medium sand (loose, wet) (fill)			
			48			E3							
	10								ML	Gray silt (very soft, wet)			
									SP-SM	Gray fine to medium sand with silt (loose, wet)			
			36										
										Grades to with occasional organics (shells)			
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-22

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-23
Sheet 1 of 1

Drilled Start 5/20/2014 End 5/20/2014	Total Depth (ft) 15	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method Direct Push
Surface Elevation (ft) Vertical Datum Undetermined		Hammer Data		Drilling Equipment Power Probe 9500D
Latitude 47.27721 Longitude -122.39767		System Datum Geographic WGS84		Groundwater Date Measured / Depth to Water (ft) / Elevation (ft): See Remarks
Notes:				

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		30						GP-GM	Brown gravel with sand and silt (dense, moist) (fill)			
									SP-SM	Gray fine to medium sand with silt (medium dense, moist) (fill)			
						E1							
			42										
	5									Grades to wet at 6.5 feet			
			48			E2							
									SM	Gray silty fine to medium sand (medium dense, wet) (fill)			
	10												
			36						ML	Gray sandy silt (medium stiff, wet)			
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-23

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-24
Sheet 1 of 1

Drilled Start	End	Total Depth (ft)	Logged By / Checked By	Driller	Drilling Method
5/27/2014	5/27/2014	15	BL/GH / MM	Holocene Drilling, Inc.	Direct Push

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined		Power Probe 9500D

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
47.27761 / -122.39989	Geographic WGS84	See Remarks		

Notes:

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		48						AC	2 inches asphalt concrete			
									SM	Brown silty fine to medium sand (very loose, moist)			
						E1			SP-SM	Gray fine to medium sand with silt (loose, moist)			
			48										
	5									Becomes wet at 6.5 feet			
			48			E2			SP-SM	Black fine to medium sand with silt (loose, wet)			Petroleum odor
	10												
			36										Petroleum odor
	15												

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-24

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-25
Sheet 1 of 1

Drilled	Start 5/20/2014	End 5/20/2014	Total Depth (ft)	12	Logged By BL/GH Checked By MM	Driller Holocene Drilling, Inc.	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum	Undetermined		Hammer Data			Drilling Equipment	Power Probe 9500D	
Latitude Longitude	47.27695 -122.39822		System Datum	Geographic WGS84		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Notes:						See Remarks		

Elevation (feet)	Depth (feet)	FIELD DATA: Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	REMARKS
	0		36						GP-GM	Brown gravel with silt and sand (medium dense, moist) (fill)			
						E1			SP	Gray fine to medium sand with trace silt (medium dense, moist) (fill)			
			48										
	5								SP-SM	Gray fine to medium sand with silt (medium dense, moist) (fill)			
			48			E2							
	10					E3							4 feet of heave at 12 feet

Note: See Figure A-1 for explanation of symbols.

Log of Boring B-26

GeoEngineers

Project: PSE Tacoma LNG
Project Location: Tacoma, Washington
Project Number: 0186-914-02

Figure A-26
Sheet 1 of 1