Stantec Consulting Services Inc.
1687 114th Avenue SE Suite 100, Bellevue WA 98004-6964

August 10, 2021

File: 185703896.1100.0500

Attention: Ms. Glynis Carrosino

Washington State Department of Ecology
Northwest Regional Office – Toxics Cleanup Program
3190 160th Avenue Southeast
Bellevue, WA 98008-5452

Dear Ms. Carrosino,

Reference: 7-Eleven Store 22866 2019 and 2020 Annual Groundwater Monitoring and Sampling Report

- Site Name: 7-Eleven Store No. 22866
- Site Address: 14207 Pacific Highway South, Tukwila, Washington
- Facility/Site ID: 23544274
- Cleanup Site ID: 8070
- VCP Site ID: 2802

Dear Ms. Carrosino,

On behalf of 7-Eleven, Inc. (7-Eleven), this letter report presents the results of the third quarter groundwater monitoring event conducted in 2019 and the first and third quarter groundwater monitoring events conducted in 2020 at 7-Eleven store number 22866 (the Site), by Stantec Consulting Services Inc. (Stantec).

The Site is located at 14207 Pacific Highway South, Tukwila, Washington (the Property). The Property is currently leased by 7-Eleven. The Property is located in a mixed commercial and residential neighborhood in Tukwila, Washington (***Figures 1 and 2***).

This section contains a short and concise summary of pertinent environmental actions, investigations, and remedial actions completed at the Site to date and tabulated below:

Date	Summary of Property History and Environmental Activities
Pre–1939	Property developed with a single-family residence.

Date	Summary of Property History and Environmental Activities
1955–1980	The Property was redeveloped in 1955 with a gasoline service station; operated by Fletcher Oil Company until 1966 and Go-N-Joy gas station until 1980. The service station consisted of a 760-square foot building with three dispenser islands located in the central-eastern portion of the Property. Underground storage tanks (USTs) (presumably containing gasoline, diesel, and oil) were likely present on the Property, but the location and number of USTs could not be determined. Additionally, a fueling dock may have been present in the southern portion of the Property.
1981	The Southland Corporation (now 7 Eleven, Inc.) (Southland) purchased the property in 1981. Southland demolished the 760-square foot building, decommissioned the former Fletcher Oil Company unknown number of USTs and three dispenser islands, and built a new 2,400-square foot convenience store building. Three 12,000-gallon, single-wall metal USTs and a new dispenser island were installed in the northern portion of the Property.
1995	A release was discovered and reported to Washington Department of Ecology (Ecology) during a 1995 Stage II upgrade of the product piping and dispensers. Total petroleum hydrocarbons characterized as gasoline (TPH-G) was present in soil exceeding Ecology's Model Toxics Control Act (MTCA) Method A Cleanup Level. The Site was issued Leaking Underground Storage Tank (LUST) identification number 4006. Approximately 29 tons of petroleum-contaminated soil were excavated and removed from the Site during the 1995 Stage II upgrade and removed from the Site.
1996	In March 1996, Fluor Daniel GTI (Fluor Daniel) installed monitoring wells MW-1A through MW-3A (deep wells) and MW-1B through MW-3B (shallow wells) to assess the extent and concentration of petroleum hydrocarbons in the subsurface. Benzene, toluene, ethyl benzene, and total xylenes (collectively BTEX) and TPH-G were not detected above Ecology's MTCA Method A Cleanup Levels (CULs) in the soil samples collected during the well installations. Benzene concentrations were detected above the MTCA Method A CUL in groundwater samples collected from monitoring wells MW-2B, MW-3A, and MW-3B. TPH-G concentrations were detected above the MTCA Method A CUL in the groundwater samples collected from monitoring wells MW-3A and MW-3B. Total lead was not detected in any of the groundwater samples. In October 1996, monitoring wells MW-4A/B and MW-5A/B were installed.
1997–2002	A Dual-Phase Soil Vapor Extraction (SVE) remediation system was installed and was operated through 2002.

Date	Summary of Property History and Environmental Activities
1999	In November 1999, IT Corporation personnel advanced 12 exploratory soil borings at the Site. Benzene was reported above the MTCA Method A CUL in three soil samples from borings located south of the USTs and dispenser islands. TPH-G concentrations were also reported above the MTCA Method A CUL in two of these soil samples.
2000	In August 2000, IT Corporation advanced one additional soil boring, B-1-5', and collected a soil sample at 5-feet below ground surface (bgs) south of the USTs. Benzene and TPH-G concentrations were above the MTCA Method A CULs in this sample.
2004	In December 2004, SECOR International Incorporated (SECOR, now Stantec) supervised the advancement of eight soil borings (BH-1 through BH-8) to 12-feet bgs. Fourteen soil samples and three groundwater samples collected from BH-1 through BH-8 were submitted for laboratory analysis. Petroleum hydrocarbon constituents were detected above the MTCA Method A CULs in the soil samples collected from BH-2, BH-3, BH-5, and BH-7 and in the groundwater samples collected from borings BH-1 and BH-2. Based on the analytical results, petroleum-impacted soil and groundwater were identified east and southeast of the convenience store building.
2010	In October and November 2010, the three 12,000-gallon single-wall metal USTs, one dispenser island, and associated equipment were decommissioned and removed from the Property in 2010. Upon exposure and visual inspection, all three USTs appeared to be in overall good condition, and no apparent failures were observed. Analytical laboratory results of the soil samples collected following UST removal activities confirmed that petroleum-impacted soil exceeding MTCA Method A CULs was present at the Site in the former UST system. Approximately 329 tons of petroleum-contaminated soil were excavated and removed from the Site during the 2010 UST removal activities. The Property currently operates as a 7-Eleven convenience store.
2012	On December 13 and 14, 2012, Stantec supervised the advancement of four soil borings identified as SB-6 through SB-9, with soil borings SB-7 and SB-9 completed as groundwater monitoring wells MW-7 and MW-9. Soil samples collected were all reported below respective MTCA Method A CULs, with the exception of TPH-G detected in sample MW-8@12.5'.

Date	Summary of Property History and Environmental Activities
2015	On November 5, 2015, Stantec supervised the advancement of seven soil borings identified as SB-10 through SB-15, with the seventh soil boring completed as groundwater monitoring well MW-10. Several soil samples collected were reported above MTCA Method A CULs.
2016	In May 2016, Stantec supervised the advancement of two additional soil borings identified as DPE-9 and DPE-10 and both were completed as extraction wells. Soil samples collected from the two soil borings were reported above MTCA Method A CULs for benzene and TPH-G. A multi-phase extraction event was conducted at the Property. Soil vapor and groundwater were extracted from monitoring well MW-5B, and extraction wells DPE-2 through DPE-5, DPE-9, and DPE-10 during the event. A total of 43,540 gallons of groundwater was extracted and treated during the 48-day event. An estimated 1.1 pounds of gasoline (TPH-G) was removed via groundwater extraction and an estimated 762 pounds of gasoline were removed from the subsurface during the interim action.
2016–2020	Groundwater monitoring and sampling was conducted through the present to evaluate petroleum contaminant concentration trends including groundwater gradient and groundwater flow direction trends.

A detailed and complete history of environmental activities conducted at the Site is summarized in the following Stantec document:

- *Groundwater Technology, Inc. 1996. Site Assessment Report, Southland Facility #22866, 14207 Pacific Highway South, Tukwila, WA. Prepared for 7-Eleven, Inc. May 30.*
- *Fluor Daniel GTI. 1998. Remediation System Installation and Fourth Quarter 1997, Monitoring and Sampling Report, Southland Store No. 22866, 14207 Pacific Highway South, Seattle, WA. March 20.*
- *Stantec Consulting Services, Inc. 2011. UST System Removal Report, 7-Eleven Store No. 22866 14207 Pacific Highway South, Seattle, WA. January 21.*
- *Stantec Consulting Services, Inc. 2017. Remedial Investigation and Interim Action Report, 7-Eleven Store 22866, 14207 International Boulevard South, Tukwila, WA. November 7.*

Groundwater Monitoring and Sampling Procedures and Results

Figures 3 through ***5*** illustrate groundwater elevations across the Site for each quarterly groundwater monitoring event conducted in third quarter of 2019 and first and third quarters of 2020. ***Figure 6*** presents laboratory analytical results for the 2019 and 2020 events posted near each respective well, respectively. ***Graphs 1*** through ***6*** graph contaminant concentrations in select wells including groundwater elevations versus time. ***Graph 7*** shows the cumulative groundwater flow direction for the Site over time. ***Table 1*** summarizes historical and current analytical results and groundwater elevation data. Copies of the laboratory analytical report and the chain-of-custody document are provided in ***Attachment A***. Copies of the site visitation report/field notes are included in ***Attachment B***. For each sampling event, all indicated wells were purged and sampled in accordance with the procedures detailed in ***Attachment C***.

During the monitoring events, groundwater samples were collected from select wells. Groundwater samples were analyzed for TPH-G by Method NWTPH-Gx; TPH characterized by diesel (TPH-D) and TPH characterized by oil (TPH-O) by United States Environmental Protection Agency (EPA) Method TPH-Dx; BTEX, 1,2-dichloroethane (EDC), and methyl tert-butyl ether (MTBE) by EPA Method 8260B; ethylene dibromide (EDB) by EPA Method 8011; naphthalene, 2-methylnaphthalene, and 1-methylnaphthalene by EPA Method 8270D SIM; and dissolved lead and total lead by EPA Method 200.8. The table shown below identifies sampled wells and general monitoring and sampling results:

Date	Depth to Water Range (feet below TOC)	Groundwater Flow Direction	Average Hydraulic Gradient (feet/foot)	Wells Sampled for the Identified Contaminants of Potential Concern (COPCs)	Wells with Analytical Results Exceeding MTCA Method A CULs for the COPCs
3rd 2019 7/31-8/1/2019	1.56 to 11.61	East-Northeast	0.0098	MW-5B, MW-10, DPE-3, DPE-4, DPE-5, DPE-7, DPE-8, DPE-10	MW-5B, DPE-3, DPE-4, DPE-5, DPE-7, DPE-8, DPE-10
1st 2020 2/3-2/4/2020	1.13 to 6.25	East-Northeast	0.090	MW-5B, MW-10, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, DPE-8, DPE-10	MW-5B, DPE-3, DPE-4, DPE-5, DPE-7, DPE-8
3rd 2020 8/4-8/5/2020	1.66 to 10.51	East-Northeast	0.012	MW-5B, MW-10, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, DPE-8, DPE-10	MW-5B, DPE-3, DPE-4, DPE-5, DPE-8, DPE-10

Notes:
TOC = Top of Casing

Discussion

Dissolved petroleum hydrocarbons were below MTCA Method A CULs in three events in 2019 and 2020 in the following well: MW-10.

Dissolved petroleum hydrocarbons in the following wells exceeded MTCA Method A CULs during the reporting period:

- MW-5B: exceeded the MTCA Method A CUL for TPH-D;
- DPE-3: exceeded the MTCA Method A CUL for TPH-D, TPH-O, and total lead;
- DPE-4: exceeded the MTCA Method A CUL for benzene, TPH-G, TPH-D, TPH-O, EDB, and total lead;
- DPE-5: exceeded the MTCA Method A CUL for benzene, toluene, ethylbenzene, total xylenes, TPH-G, TPH-D, TPH-O, EDB, and total naphthalenes;
- DPE-7: exceeded the MTCA Method A CUL for TPH-D and TPH-O;
- DPE-8: exceeded the MTCA Method A CUL for TPH-D and TPH-O; and
- DPE-10: exceeded the MTCA Method A CUL for benzene and TPH-O.

Next Steps

Based on these results, Stantec recommends continued groundwater monitoring, sampling, and reporting of selected wells to further evaluate dissolved contaminant concentration trends and seasonal water level fluctuations. Next steps will include the following:

- Stantec will complete additional on-site subsurface investigation to resolve data gaps and attain higher resolution of the source area required to thoroughly evaluate remedial alternatives. Stantec will present the findings and selected remedial alternative in a Feasibility/Cleanup Action Plan.

Limitations and Certification

This document entitled 7-Eleven Store 22866 2019 and 2020 Annual Groundwater Monitoring and Sampling Report was prepared by Stantec Consulting Services Inc. (“Stantec”) for the account of 7-Eleven Inc. (the “Client”). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec’s professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such

Reference: 7-Eleven Store 22866 2019 and 2020 Annual Groundwater Monitoring and Sampling Report

third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by _____
(signature)

Deitrie Hanson, GIT
Geologic Project Specialist

Reviewed by _____
(signature)

Greg McCormick, LG
Senior Geologist

State of Washington 674 Licensed Geologist
GREGORY A. McCORMICK
Exp. 2/6/22

If you have any questions or require additional information, please contact Paul Fairbairn at (206) 369-8383.

Regards,

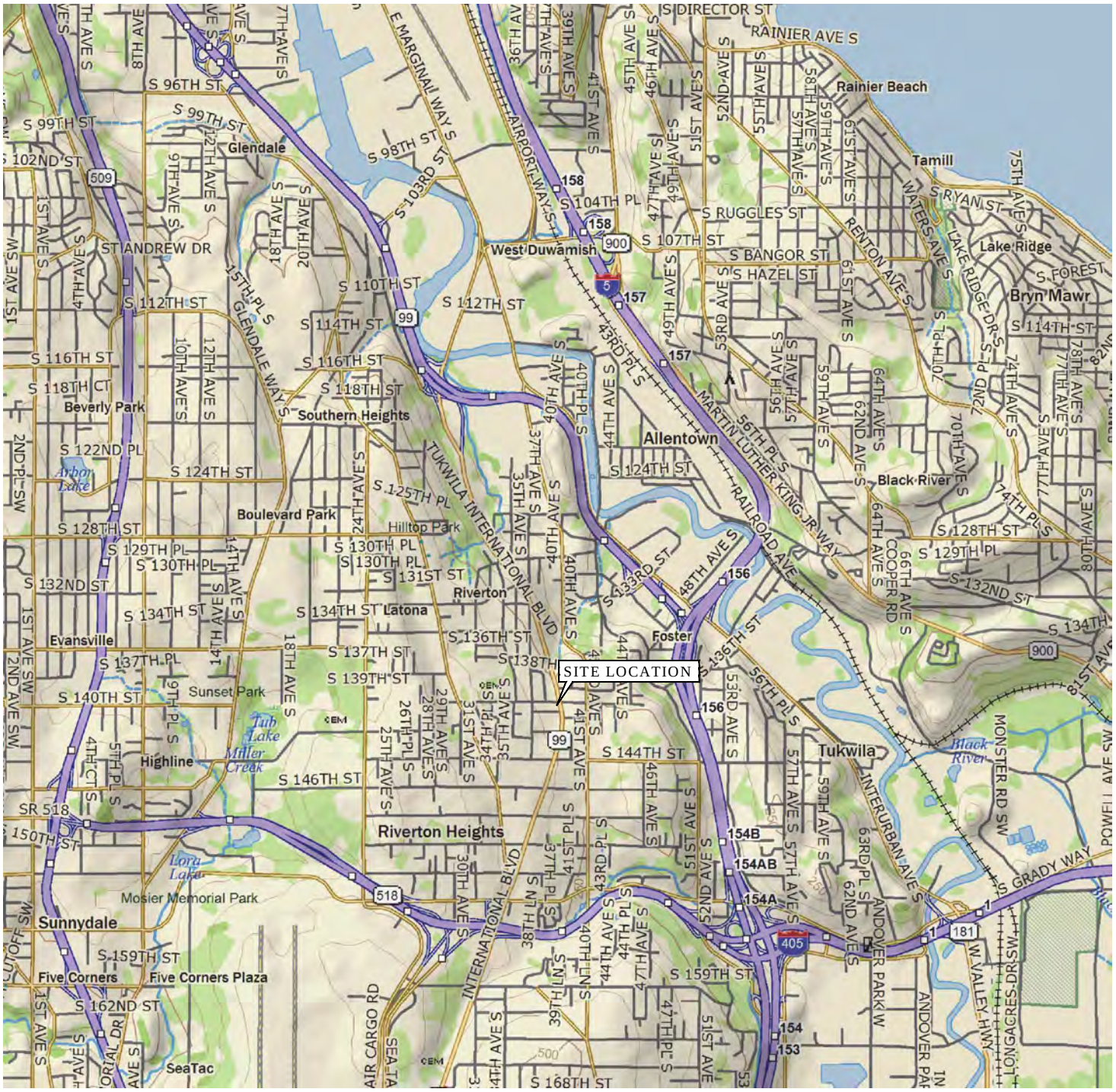
Stantec Consulting Services Inc.

Paul Fairbairn
Project Manager
Phone: 206 369 8383
Paul.Fairbairn@stantec.com

List of Attachments

Figure 1	Site Location Map
Figure 2	Site Vicinity Map
Figure 3	Groundwater Elevation Contour Map – July 31-August 1, 2019
Figure 4	Groundwater Elevation Contour Map – February 3-4, 2020
Figure 5	Groundwater Elevation Contour Map – August 4-5, 2020
Figure 6	Groundwater Analytical Results
Table 1	Groundwater Monitoring and Analytical Results
Graph 1	MW-5B Dissolved Benzene Concentration vs. Time
Graph 2	MW-5B Dissolved TPH-G Concentration vs. Time
Graph 3	DPE-4 Dissolved Benzene Concentration vs. Time
Graph 4	DPE-4 Dissolved TPH-G Concentration vs. Time
Graph 5	DPE-5 Dissolved Benzene Concentration vs. Time
Graph 6	DPE-5 Dissolved TPH-G Concentration vs. Time
Graph 7	Groundwater Flow Direction Rose Diagram
Attachment A	Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment B	Site Visitation Report / Field Notes
Attachment C	Stantec Monitoring Well Purging and Sampling Procedures

FIGURES



North

1 1/2 0 1

SCALE (MILES)

1000 0 1000 2000 3000 4000 5000 6000 7000

SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, DES MOINES, WASHINGTON

Stantec

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FOR: 7-ELEVEN

STORE NO. 22866
14207 INTERNATIONAL BLVD/STATE RT 99
TUKWILA, WASHINGTON

SITE LOCATION MAP

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185703896	MDR/STA	AS	PF	MAY 2018

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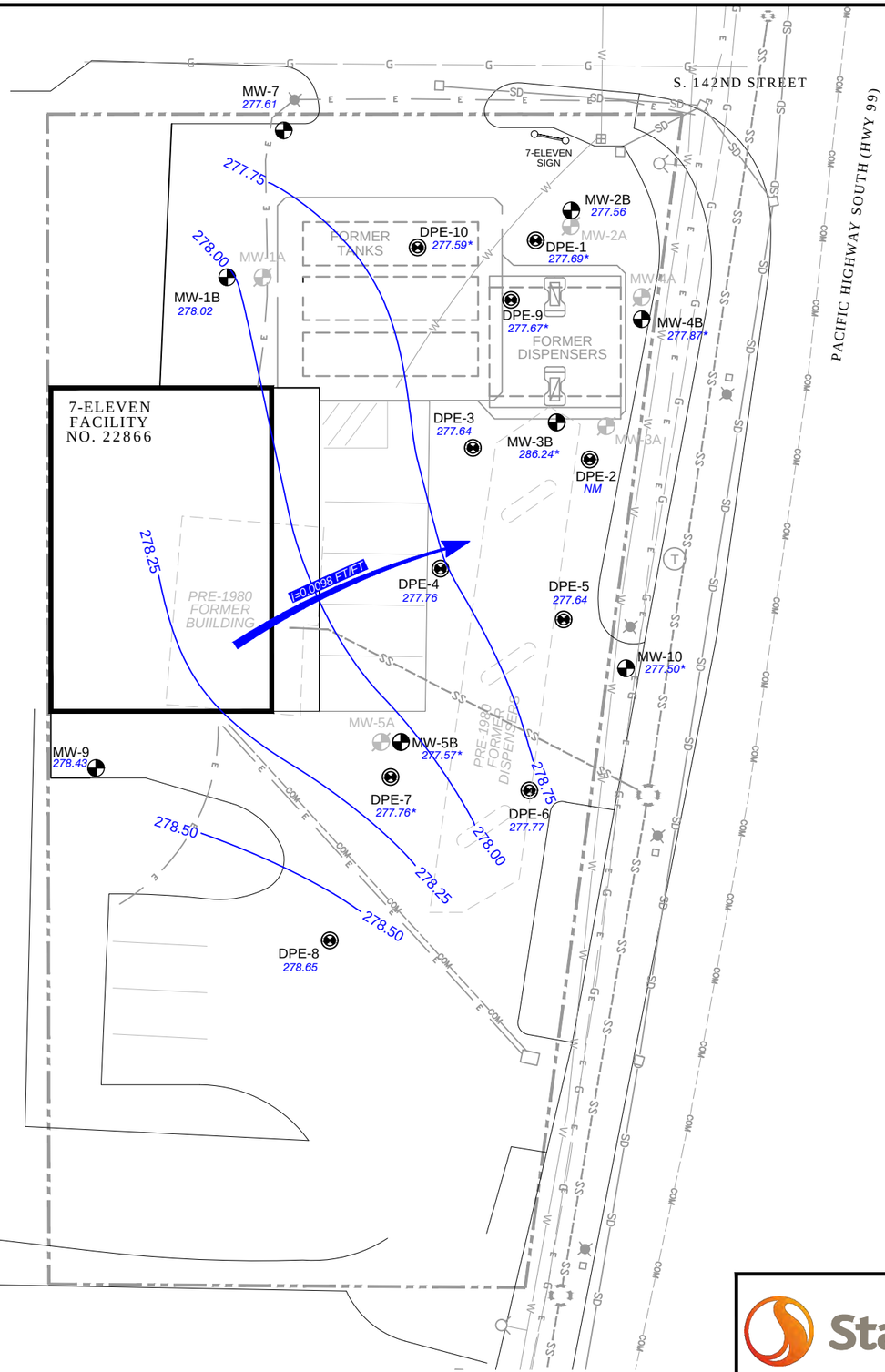
TUKWILA, WASHINGTON

SITE VICINITY MAP

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185703896	MDR/STA	AS	PF	MAY 2018



LEGEND:

- MW-1A — ABANDONED GROUNDWATER MONITORING WELL LOCATION (AS OF MAY 9, 2016)
- MW-4B — GROUNDWATER MONITORING WELL LOCATION
- DPE-8 — DUAL PHASE EXTRACTION WELL
- PARCEL LINE
- E — ELECTRIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- W — WATER LINE
- WATER METER
- FIRE HYDRANT
- COM — COMMUNICATIONS LINE
- SD — STORM DRAIN
- CATCH BASIN
- SS — SANITARY SEWER
- MANHOLE
- G — GAS
- T — TELEPHONE MANHOLE
- LIGHT POLE
- 280.47 — RELATIVE GROUNDWATER ELEVATION (FEET)
- * — GROUNDWATER ELEVATION DATA NOT INCLUDED IN CONTOUR GENERATION
- NM — NOT MEASURED
- 281 — GROUNDWATER ELEVATION CONTOUR (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION
- CONTOUR INTERVAL = 0.25 FEET

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14207 INTERNATIONAL BLVD / STATE RT 99
TUKWILA, WASHINGTON

GROUNDWATER ELEVATION CONTOUR MAP JULY 31-AUGUST 1, 2019

FIGURE: 3

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185703896	LRP	DH	PF	JAN 2021

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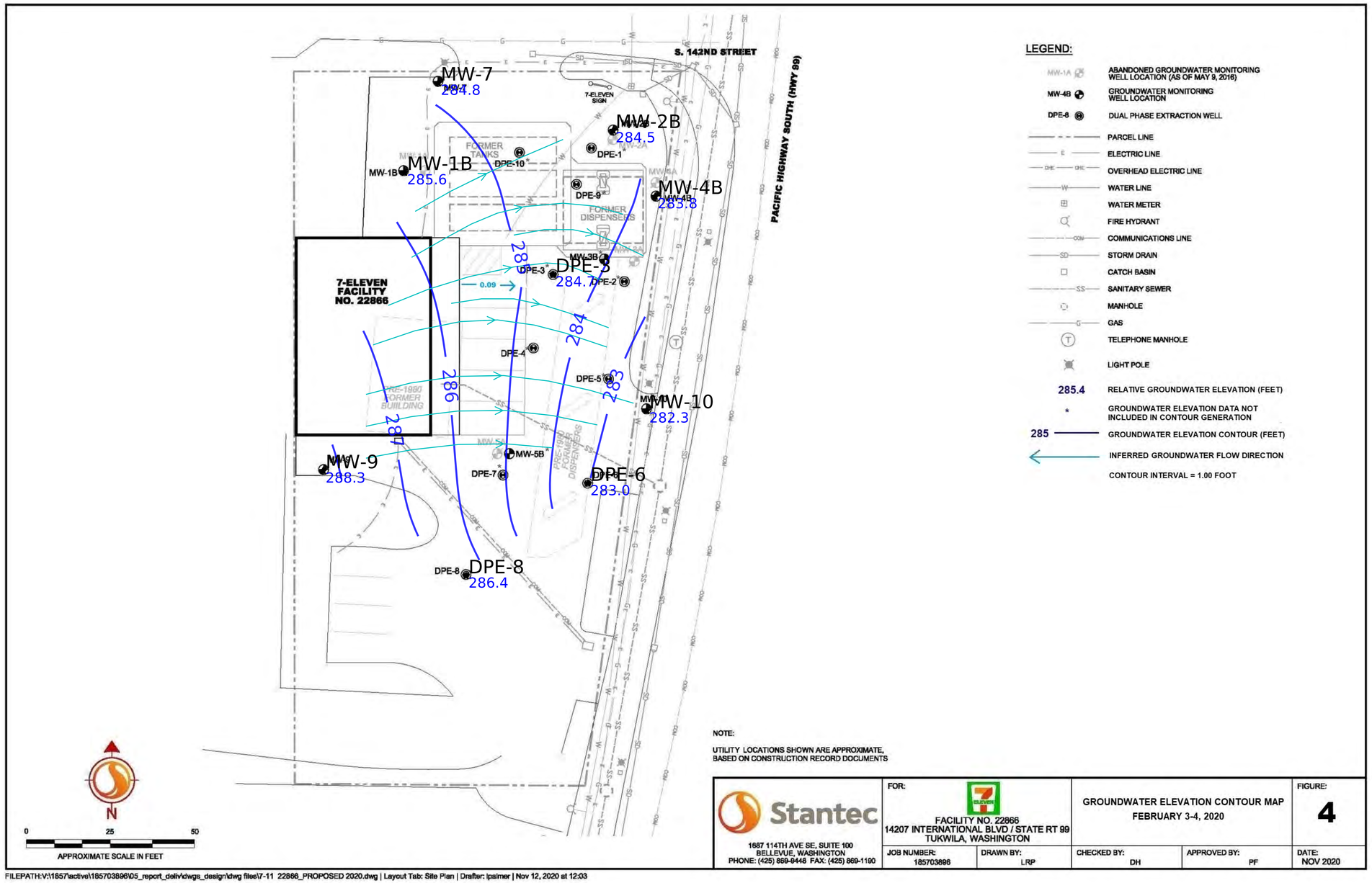
22866 Tukwila, 02/03/2020, Groundwater Elevation and Flow Direction



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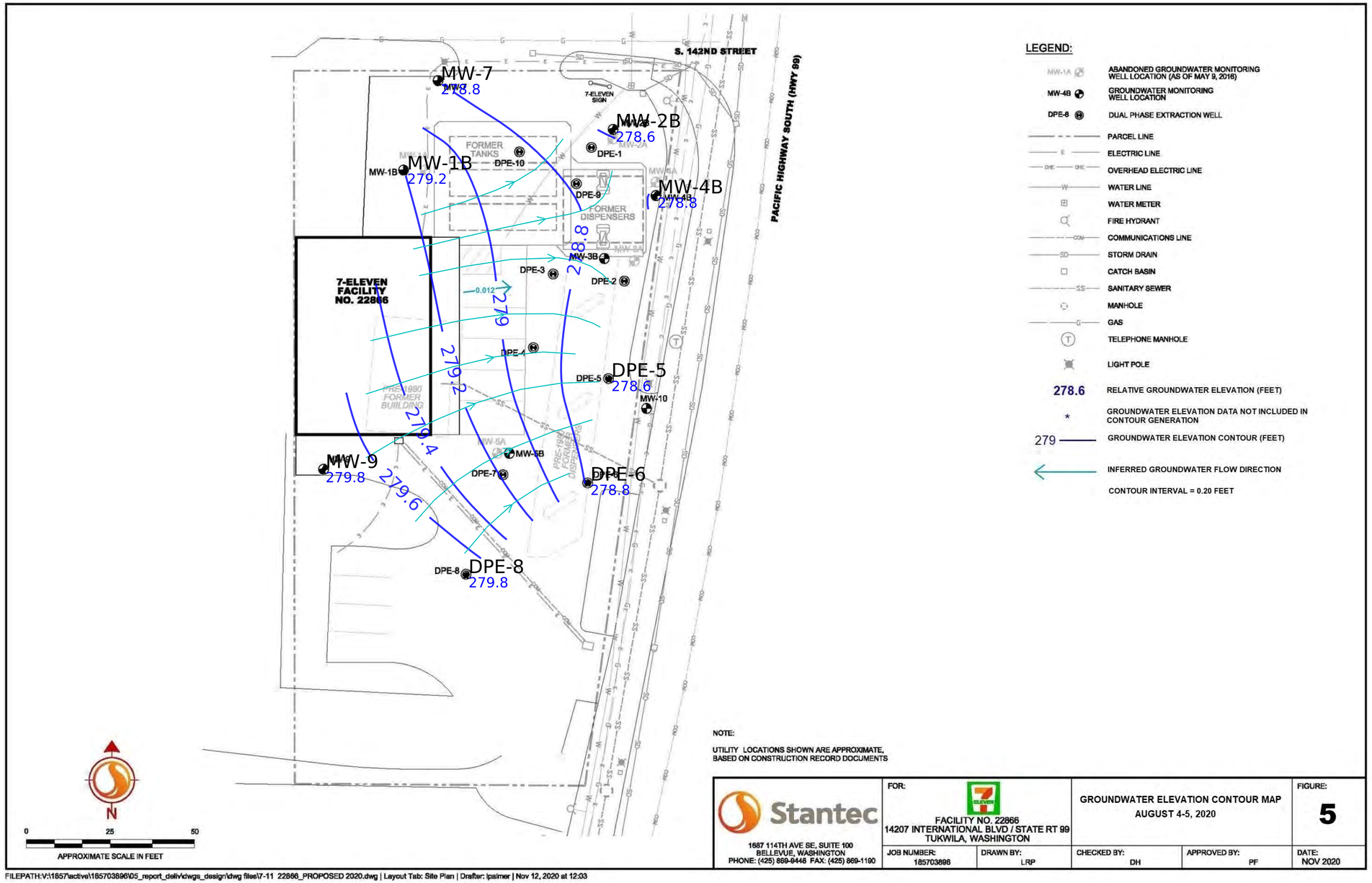
22866 Tukwila, 08/04/2020, Groundwater Elevation and Flow Direction



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- MW-4B — GROUNDWATER MONITORING WELL LOCATION
- DPE-8 — DUAL PHASE EXTRACTION WELL
- PARCEL LINE
- E — ELECTRIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- W — WATER LINE
- WATER METER
- FIRE HYDRANT
- COM — COMMUNICATIONS LINE
- SD — STORM DRAIN
- CATCH BASIN
- SS — SANITARY SEWER
- MANHOLE
- G — GAS
- TELEPHONE MANHOLE
- LIGHT POLE
- 278.6 — RELATIVE GROUNDWATER ELEVATION (FEET)
- * — GROUNDWATER ELEVATION DATA NOT INCLUDED IN CONTOUR GENERATION
- 279 — GROUNDWATER ELEVATION CONTOUR (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION
- CONTOUR INTERVAL = 0.20 FEET

NOTE:

UTILITY LOCATIONS SHOWN ARE APPROXIMATE, BASED ON CONSTRUCTION RECORD DOCUMENTS

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GROUNDWATER ELEVATION CONTOUR MAP
AUGUST 4-5, 2020

FIGURE: 5

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185703896	LRP	DH	PF	NOV 2020

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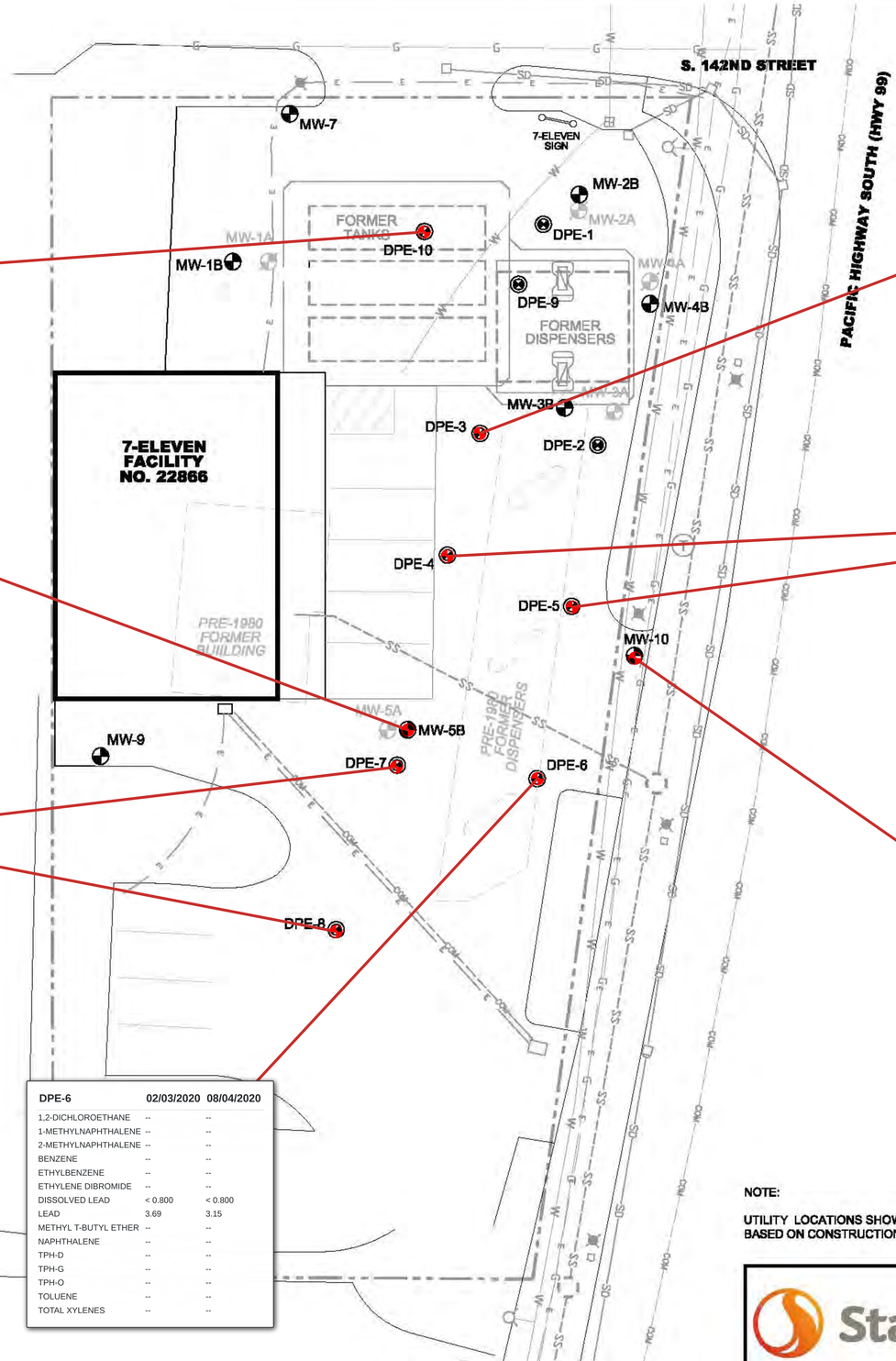

DPE-10	08/01/2019	02/04/2020	08/05/2020
1,2-DICHLOROETHANE	--	--	--
1-METHYLNAPHTHALENE	--	--	--
2-METHYLNAPHTHALENE	--	--	--
BENZENE	< 0.400	< 3.00	5.80
ETHYLBENZENE	< 1.00	< 3.00	4.06
ETHYLENE DIBROMIDE	--	--	--
DISSOLVED LEAD	--	< 0.800	< 0.800
LEAD	--	< 0.800	< 0.800
METHYL T-BUTYL ETHER	--	--	--
NAPHTHALENE	--	--	--
TPH-D	246	--	--
TPH-G	< 150	--	--
TPH-O	1,110	--	--
TOLUENE	< 1.00	< 2.00	< 2.00
TOTAL XYLENES	0.475	< 3.00	< 3.00

MW-5B	08/01/2019	02/03/2020	08/04/2020
1,2-DICHLOROETHANE	--	--	--
1-METHYLNAPHTHALENE	--	--	--
2-METHYLNAPHTHALENE	--	--	--
BENZENE	0.221	< 3.00	< 3.00
ETHYLBENZENE	0.510	< 3.00	< 3.00
ETHYLENE DIBROMIDE	--	--	--
DISSOLVED LEAD	--	--	--
LEAD	--	--	--
METHYL T-BUTYL ETHER	--	--	--
NAPHTHALENE	--	--	--
TPH-D	596	1,120	1,350
TPH-G	482	744	648
TPH-O	153	374	430
TOLUENE	0.931	< 2.00	< 2.00
TOTAL XYLENES	0.888	< 3.00	< 3.00

DPE-7	08/01/2019	02/03/2020	08/04/2020
1,2-DICHLOROETHANE	--	--	--
1-METHYLNAPHTHALENE	--	--	--
2-METHYLNAPHTHALENE	--	--	--
BENZENE	< 0.400	--	--
ETHYLBENZENE	< 1.00	--	--
ETHYLENE DIBROMIDE	--	--	--
DISSOLVED LEAD	--	--	--
LEAD	--	--	--
METHYL T-BUTYL ETHER	--	--	--
NAPHTHALENE	--	--	--
TPH-D	427	--	--
TPH-G	<150	< 2,720	253
TPH-O	954	10,700	432
TOLUENE	0.677	--	--
TOTAL XYLENES	< 3.00	--	--

DPE-8	08/01/2019	02/04/2020	08/05/2020
1,2-DICHLOROETHANE	--	--	--
1-METHYLNAPHTHALENE	< 0.0953	--	--
2-METHYLNAPHTHALENE	< 0.0953	--	--
BENZENE	< 0.400	--	--
ETHYLBENZENE	< 1.00	--	--
ETHYLENE DIBROMIDE	--	--	--
DISSOLVED LEAD	--	--	--
LEAD	< 14.0	--	--
METHYL T-BUTYL ETHER	--	--	--
NAPHTHALENE	0.0641	--	--
TPH-D	1,090	1,790	965
TPH-G	< 150	--	--
TPH-O	299	401	562
TOLUENE	< 1.00	--	--
TOTAL XYLENES	< 3.00	--	--

DPE-6	02/03/2020	08/04/2020
1,2-DICHLOROETHANE	--	--
1-METHYLNAPHTHALENE	--	--
2-METHYLNAPHTHALENE	--	--
BENZENE	--	--
ETHYLBENZENE	--	--
ETHYLENE DIBROMIDE	--	--
DISSOLVED LEAD	< 0.800	< 0.800
LEAD	3.69	3.15
METHYL T-BUTYL ETHER	--	--
NAPHTHALENE	--	--
TPH-D	--	--
TPH-G	--	--
TPH-O	--	--
TOLUENE	--	--
TOTAL XYLENES	--	--

DPE-3	08/01/2019	02/04/2020	08/04/2020
1,2-DICHLOROETHANE	--	--	--
1-METHYLNAPHTHALENE	--	--	--
2-METHYLNAPHTHALENE	--	--	--
BENZENE	0.131	< 3.00	< 3.00
ETHYLBENZENE	< 1.00	< 3.00	< 3.00
ETHYLENE DIBROMIDE	--	--	--
DISSOLVED LEAD	--	< 0.800	2.48
LEAD	--	194	16.5
METHYL T-BUTYL ETHER	--	--	--
NAPHTHALENE	--	--	--
TPH-D	308	12,100	<1,050
TPH-G	< 150	< 250	< 250
TPH-O	936	71,800	< 3,340
TOLUENE	<1.00	< 2.00	< 2.00
TOTAL XYLENES	0.501	< 3.00	< 3.00

DPE-4	08/01/2019	02/04/2020	08/05/2020
1,2-DICHLOROETHANE	--	< 2.00	< 2.00
1-METHYLNAPHTHALENE	--	3.14	5.76
2-METHYLNAPHTHALENE	--	2.26	4.54
BENZENE	77.0	78.2	228
ETHYLBENZENE	43.3	49.1	32.3
ETHYLENE DIBROMIDE	--	< 0.0228	< 0.00802
DISSOLVED LEAD	--	1.20	< 0.800
LEAD	--	20.0	3.98
METHYL T-BUTYL ETHER	--	< 2.00	< 2.00
NAPHTHALENE	--	2.36	4.09
TPH-D	1,210	2,230	2,440
TPH-G	1,100	709	1,900
TPH-O	473	4,690	< 1,660
TOLUENE	4.27	4.26	7.28
TOTAL XYLENES	23.2	41.2	15.8

DPE-5	08/01/2019	02/04/2020	08/05/2020
1,2-DICHLOROETHANE	--	< 2.00	< 2.00
1-METHYLNAPHTHALENE	20.5	23.1	30.5
2-METHYLNAPHTHALENE	34.9	25.1	45.0
BENZENE	462	262	197
ETHYLBENZENE	2,710	1,620	1,500
ETHYLENE DIBROMIDE	--	< 0.0229	< 0.00795
DISSOLVED LEAD	--	5.19	5.04
LEAD	< 14.0	5.94	8.63
METHYL T-BUTYL ETHER	--	< 2.00	< 2.00
NAPHTHALENE	130	3.79	196
TPH-D	10,000	8,640	4,570
TPH-G	39,300	48,800	22,400
TPH-O	375	488	< 1,670
TOLUENE	26.5	23.4	8.61
TOTAL XYLENES	10,300	1,550	1,420

MW-10	08/01/2019	02/04/2020	08/05/2020
1,2-DICHLOROETHANE	--	--	--
1-METHYLNAPHTHALENE	--	--	--
2-METHYLNAPHTHALENE	--	--	--
BENZENE	< 0.400	< 3.00	< 3.00
ETHYLBENZENE	0.625	< 3.00	< 3.00
ETHYLENE DIBROMIDE	--	--	--
LEAD	--	--	--
LEAD	--	--	--
METHYL T-BUTYL ETHER	--	--	--
NAPHTHALENE	--	--	--
TPH-D	77.7	107	<106
TPH-G	< 150	< 250	< 250
TPH-O	44.3	< 339	< 338
TOLUENE	< 1.00	< 2.00	< 2.00
TOTAL XYLENES	< 3.00	< 3.00	< 3.00

LEGEND:

- MW-1A — ABANDONED GROUNDWATER MONITORING WELL LOCATION (AS OF MAY 9, 2016)
- MW-4B — GROUNDWATER MONITORING WELL LOCATION
- DPE-8 — DUAL PHASE EXTRACTION WELL
- PARCEL LINE
- E — ELECTRIC LINE
- OHE — OVERHEAD ELECTRIC LINE
- W — WATER LINE
- WATER METER
- FIRE HYDRANT
- COM — COMMUNICATIONS LINE
- SD — STORM DRAIN
- CATCH BASIN
- SS — SANITARY SEWER
- MANHOLE
- G — GAS
- T — TELEPHONE MANHOLE
- LIGHT POLE

NOTE:

UTILITY LOCATIONS SHOWN ARE APPROXIMATE, BASED ON CONSTRUCTION RECORD DOCUMENTS

22866 TUKWILA

22866 Site Plan Figure 1

Tukwila, Washington

SITE DATA COMPARED TO "MTCA METHOD A"

ND NOT DETECTED
-- NOT SAMPLED
FP FREE PRODUCT

1,2-DICHLOROETHANE	5.0
1-METHYLNAPHTHALENE	160
2-METHYLNAPHTHALENE	160
BENZENE	5.0
ETHYLBENZENE	700
ETHYLENE DIBROMIDE	0.01
LEAD	15.0
LEAD	15.0
METHYL T-BUTYL ETHER	20.0
NAPHTHALENE	160
TPH-D	
TPH-G	800
TPH-O	500
TOLUENE	1,000
TOTAL XYLENES	1,000

Stantec
1687 114TH AVE SE, SUITE 100
BELLEVUE, WASHINGTON
PHONE: (425) 869-9448 FAX: (425) 869-1190

FOR: FACILITY NO. 22866
14207 INTERNATIONAL BLVD / STATE RT 99
TUKWILA, WASHINGTON

GROUNDWATER ANALYTICAL RESULTS

FIGURE: 6

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
185703896	LRP	DH	PF	NOV 2020

FILEPATH:V:\1857\active\185703896\05_report_deliv\dwgs_design\dwg files\7-11 22866_PROPOSED 2020.dwg | Layout Tab: Site Plan | Drafter: lpalmer | Nov 12, 2020 at 12:03

TABLES

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-1A	04/10/96	<0.5	<0.5	<0.5	<0.1	<50	--	--	--	--	--	--	<2.0	--	--	--
299.50	05/09/96	--	--	--	--	--	--	--	--	--	--	--	--	--	7.70	291.80
	11/07/96	0.869	2.05	<0.5	<0.1	<50	--	--	--	--	--	--	6.31	--	9.91	289.59
	03/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	6.99	292.51
	06/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	7.90	291.60
	09/11/97	--	--	--	--	--	--	--	--	--	--	--	--	--	9.99	289.51
	12/04/97	--	--	--	--	--	--	--	--	--	--	--	--	--	8.80	290.70
	03/17/98	--	--	--	--	--	--	--	--	--	--	--	--	--	7.79	291.71
	06/03/98	--	--	--	--	--	--	--	--	--	--	--	--	--	9.20	290.30
	09/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	11.06	288.44
	12/08/98	--	--	--	--	--	--	--	--	--	--	--	--	--	8.22	291.28
	03/16/99	--	--	--	--	--	--	--	--	--	--	--	--	--	7.32	292.18
	06/08/99	--	--	--	--	--	--	--	--	--	--	--	--	--	8.45	291.05
	09/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	10.21	289.29
	12/13/99	--	--	--	--	--	--	--	--	--	--	--	--	--	8.80	290.70
	03/01/00	--	--	--	--	--	--	--	--	--	--	--	--	--	8.10	291.40
	06/06/00	--	--	--	--	--	--	--	--	--	--	--	--	--	8.89	290.61
	08/17/00	--	--	--	--	--	--	--	--	--	--	--	--	--	10.03	289.47
	10/12/00	--	--	--	--	--	--	--	--	--	--	--	--	--	10.76	288.74
	01/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.79	289.71
	02/09/01	--	--	--	--	--	--	--	--	--	--	--	<5[a]	--	--	--
	04/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	8.91	290.59
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	10.07	289.43
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	10.94	288.56
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.69	289.81
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.98	292.52
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	10.85	288.65
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	10.77	288.73
	03/13/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.87	291.63
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	9.59	289.91
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	13.16	286.34
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	9.62	289.88
	03/22/04	**5.3**	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.48	290.02
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	10.70	288.80
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	11.40	288.10
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	10.21	289.29
299.02	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	10.10	288.92
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.84	289.18
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.69	290.33
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.35	290.67
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.46	291.56
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	6.11	292.91
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	8.82	290.20
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.46	291.56
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	9.70	289.32
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	11.43	287.59
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.84	291.18
	07/08/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.05	289.97
288.98	10/29/10	--	--	--	--	--	--	--	--	--	--	--	--	--	9.26	279.72
	Well Decommissioned in May 2016															
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-1B	04/10/96	<0.5	<0.5	<0.5	<0.1	<50	--	--	--	--	--	--	<2.0	--	--	--
299.74	05/09/96	--	--	--	--	--	--	--	--	--	--	--	--	--	6.87	292.87
	11/07/96	1.42	3.28	<0.5	1.73	<50	--	--	--	--	--	--	3.01	--	9.97	289.77
	03/18/97	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	5.81	293.93
	06/10/97	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	7.37	292.37
	09/11/97	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	9.97	289.77
	12/04/97	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	7.70	292.04
	03/17/98	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	7.05	292.69
	06/02/98	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	8.90	290.84
	09/22/98	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	11.21	288.53
	12/08/98	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	7.55	292.19
	03/16/99	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	5.72	294.02
	06/08/99	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	8.30	291.44
	09/30/99	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	10.54	289.20
	12/13/99	0.32	1.24	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	7.45	292.29
	03/01/00	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	6.85	292.89
	06/06/00	<0.5	0.85	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	8.41	291.33
	08/17/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	10.16	289.58
	10/12/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	11.29	288.45
	01/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.18	290.56
	04/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	8.05	291.69
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	10.98	288.76
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	11.40	288.34
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.67	293.07
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	8.32	291.42
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	10.67	289.07
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	10.45	289.29
	03/13/03	**48**	2.3	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.32	292.42
	06/05/03	**48**	2.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.15	290.59
	09/16/03	**94**	1.0	<1.0	<2.0	<100[d]	--	--	--	--	--	--	--	--	13.22	286.52
	12/05/03	**140**	2.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.29	290.45
	03/22/04	**68**	2.9	1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.69	291.05
	06/03/04	**58**	1.8	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	10.59	289.15
	09/22/04	**88**	1.3	3.4	3.2	100	--	--	--	--	--	--	--	--	11.58	288.16
	01/04/05	**58**	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.75	289.99
299.19	03/31/05	**25**	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.70	289.49
	06/24/05	2.9	<1.0	<1.0	<2.0	130	--	--	--	--	--	--	--	--	8.64	290.55
	09/12/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.61	291.58
	03/14/06	**5.5**	4.9	4.3	<2.6	<100	--	--	--	--	--	--	--	--	7.60	291.59
	06/15/06	**68**	2.7	3.5	11.1	140	--	--	--	--	--	--	--	--	8.10	291.09
	09/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.94	291.25
	12/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.69	291.50
	03/30/07	4.8	<4.0	<4.0	<4.0	<400	--	--	--	--	--	--	--	--	6.35	292.84
	06/04/07	4.7	<1.0	1.2	<4.0	<400	--	--	--	--	--	--	--	--	9.10	290.09
	09/13/07	**12**	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	11.43	287.76
	12/26/07	**40**	2.3	4.1	2.3	<100	--	--	--	--	--	--	--	--	7.84	291.35
	03/28/08	**33**	<1.0	1.3	<2.0	<100	--	--	--	--	--	--	--	--	6.41	292.78
	06/25/08	**39**	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	9.23	289.96
	09/25/08	**34**	<4.0	4.5	7.5	<400	--	--	--	--	--	--	--	--	11.05	288.14
	01/02/09	**64**	2.0	2.9	1.8	<100	--	--	--	--	--	--	--	--	7.76	291.43
	03/24/09	**44**	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	7.28	291.91
	06/24/09	**27**	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	9.02	290.17
	09/30/09	**46**	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	9.88	289.31
	12/28/09	**20**	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	5.97	293.22
	07/08/10	**16**	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.18	291.01
	10/29/10	**15**	2.6	<1.0	<3.0	190	--	--	--	--	--	--	<1	<1	7.93	291.26
	02/08/11	**23**	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	6.46	292.73
	08/04/11	3.5	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	9.30	289.89
	02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	6.96	292.23
	08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	10.52	288.67
289.18	01/09/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	6.72	282.46
	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	8.15	281.03
	08/15/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	<5	--	10.76	278.42
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	8.59	280.59
	02/03/14	--	--	--	--	--	--	--	--	--	--	--	--	--	7.53	281.65
	07/29/14	--	--	--	--	--	--	--	--	--	--	--	--	--	9.79	279.39
	03/03/15	<1.00	<1.00	<1.00	<2.00	<100	137	117	--	--	--	--	--	--	6.53	282.65
289.20	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	12.30	276.90
	06/01/16	--	--	--	--	--	--	--	--	--	--	--	--	--	9.22	279.98
	12/14/16	--	--	--	--	--	--	--	--	--	--	--	--	--	6.28	282.92
	03/23/17	<1.00	<1.00	<1.00	<3.00	<100	--	--	<1.00	<0.00612[g]	<1.00	<0.324	<2.00	--	4.03	285.17
	06/22/17	<1.00	<1.00	<1.00	<3.00	<100	<96.2	<96.2	<1.00	<0.00610[g]	<1.00	<0.294	<2.00	--	8.24	280.96
	09/18/17	<1.00	<1.00	<1.00	<3.00	<100	<94.3	<94.3	<1.00	<0.00634[g]	<1.00	<0.0943	<2.00	--	11.99	277.21
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	9.86	279.34
	03/07/18	<1.00	<1.00	<1.00	<3.00	<100	107	105	<1.00	<0.00607[g]	<1.00	<1.155	<2.00	--	7.20	282.00
	04/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--	5.16	284.04
	07/16/18	--	--	--	--	--	--	--	--	--	--	--	--	--	10.81	278.39
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	12.72	276.48
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	11.18	278.02
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	--	--	3.58	285.62
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	--	--	10.00	279.20
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-2A	04/10/96	0.96	<0.5	<0.5	<0.1	<50	--	--	--	--	--	--	<2.0	--	--	--
297.73	05/09/96	--	--	--	--	--	--	--	--	--	--	--	--	--	6.01	291.72
	11/07/96	1.09	1.94	0.533	1.91	<50	--	--	--	--	--	--	3.98	--	7.95	289.78
	03/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	5.24	292.49
	06/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	6.30	291.43
	09/11/97	--	--	--	--	--	--	--	--	--	--	--	--	--	8.36	289.37
	12/04/97	--	--	--	--	--	--	--	--	--	--	--	--	--	6.92	290.81
	03/17/98	--	--	--	--	--	--	--	--	--	--	--	--	--	6.11	291.62
	06/03/98	--	--	--	--	--	--	--	--	--	--	--	--	--	7.28	290.45
	09/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	9.57	288.16
	12/08/98	--	--	--	--	--	--	--	--	--	--	--	--	--	6.47	291.26
	03/16/99	--	--	--	--	--	--	--	--	--	--	--	--	--	5.15	292.58
	06/08/99	--	--	--	--	--	--	--	--	--	--	--	--	--	6.95	290.78
	09/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	8.13	289.60
	12/13/99	--	--	--	--	--	--	--	--	--	--	--	--	--	5.84	291.89
	03/01/00	--	--	--	--	--	--	--	--	--	--	--	--	--	6.10	291.63
	06/06/00	--	--	--	--	--	--	--	--	--	--	--	--	--	7.04	290.69
	08/17/00	--	--	--	--	--	--	--	--	--	--	--	--	--	8.39	289.34
	10/12/00	--	--	--	--	--	--	--	--	--	--	--	--	--	9.03	288.70
	01/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	8.05	289.68
	04/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.95	290.78
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	8.97	288.76
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.47	288.26
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.85	290.88
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	5.96	291.77
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	9.18	288.55
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.83	288.90
	03/13/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	5.94	291.79
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.65	290.08
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	11.42	286.31
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.86	289.87
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.77	289.96
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	8.90	288.83
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.68	288.05
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.29	289.44
297.21	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.16	289.05
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.10	289.11
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.68	289.53
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.03	289.18
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.55	290.66
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.98	289.23
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	6.31	290.90
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.13	290.08
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.90	291.31
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.95	289.26
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	9.70	287.51
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.08	290.13
	07/08/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.29	289.92
287.20	10/29/10	--	--	--	--	--	--	--	--	--	--	--	--	--	7.64	279.56
	Well Decommissioned in May 2016															
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-2B	04/10/96	**8.1**	<0.5	<0.5	1.5	<50	--	--	--	--	--	--	<2.0	--	--	--
297.73	05/09/96	--	--	--	--	--	--	--	--	--	--	--	--	--	5.72	292.01
	11/07/96	1.92	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	<2.0	--	7.83	289.90
	03/18/97	2.14	<0.5	<0.5	2.4	152	--	--	--	--	--	--	--	--	4.78	292.95
	06/10/97	**5.3**	0.756	<0.5	1.09	116	--	--	--	--	--	--	--	--	5.64	292.09
	09/11/97	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	8.08	289.65
	12/04/97	<0.5	<0.5	<0.5	<1.0	55.5	--	--	--	--	--	--	--	--	6.00	291.73
	03/17/98	2.14	<0.5	<0.5	2.4	152	--	--	--	--	--	--	--	--	6.59	291.14
	06/02/98	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	7.15	290.58
	09/22/98	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	9.14	288.59
	12/08/98	<0.3	<0.3	<0.5	0.67	<100	--	--	--	--	--	--	--	--	5.97	291.76
	03/16/99	**7.61**	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	5.03	292.70
	06/08/99	**65.6**	<0.3	<0.5	<0.6	161	--	--	--	--	--	--	--	--	6.60	291.13
	09/30/99	<0.3	0.47	<0.5	0.79	<100	--	--	--	--	--	--	--	--	8.55	289.18
	12/13/99	<0.3	0.47	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	5.90	291.83
	03/01/00	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	5.85	291.88
	06/06/00	<0.5	0.94	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	6.65	291.08
	08/17/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	8.26	289.47
	10/12/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	9.22	288.51
	01/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	7.23	290.50
	04/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.30	291.43
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.01	288.72
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.02	288.71
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	5.44	292.29
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	5.65	292.08
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.92	288.81
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	7.84	289.89
	03/13/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	5.98	291.75
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.56	290.17
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	11.10	286.63
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.33	290.40
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.32	290.41
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	8.40	289.33
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	8.64	289.09
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.43	290.30
297.22	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.99	290.23
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	5.87	291.35
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	4.68	292.54
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.48	290.74
	03/14/06	**350**	110	2.9	114	780	--	--	--	--	--	--	--	--	6.28	290.94
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.21	290.01
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	4.68	292.54
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	4.26	292.96
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.30	291.92
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.30	289.92
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	9.50	287.72
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.12	290.10
	03/28/08	**61**	3.8	2.6	1.0	<100	--	--	--	--	--	--	--	--	5.91	291.31
	06/25/08	**220**	8.4	6.2	4.8	<400	--	--	--	--	--	--	--	--	7.43	289.79
	09/25/08	**130**	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	8.58	288.64
	01/02/09	**130**	<4.0	6.1	<8.0	<400	--	--	--	--	--	--	--	--	6.98	290.24
	03/25/09	**150**	2.9	8.8	4.3	120	--	--	--	--	--	--	--	--	5.58	291.64
	09/30/09	**370**	55	11	8.9	<400	--	--	--	--	--	--	--	--	9.81	287.41
	12/28/09	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.62	290.60
	07/08/10	**700**	55	29	60	640	--	--	--	--	--	--	--	--	6.47	290.75
	10/29/10	**720**	29	17	43	**2,500**	--	--	--	--	--	--	<1	<1	6.98	290.24
	02/08/11	**1,300**	25	33	64	**5,000**	--	--	--	--	--	--	--	--	4.94	292.28
	08/04/11	**190**	1.3	8.4	14	**1,000**	--	--	--	--	--	--	--	--	7.30	289.92
	02/06/12	1.3	<0.5	<0.5	2.2	<250	--	--	--	--	--	--	--	--	5.58	291.64
	08/27/12	1.1	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	8.81	288.41
287.20	01/09/13	0.72	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	5.05	282.15
	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	6.36	280.84
	08/15/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	<5	--	8.90	278.30
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	6.56	280.64
	02/03/14	<1.00	<1.00	<1.00	<2.00	<50.0	<50.0	<100	--	--	--	--	--	--	6.33	280.87
	07/29/14	<1.00	<1.00	<1.00	<2.00	<50.0	--	--	--	--	--	--	--	--	7.92	279.28
	03/03/15	<1.00	<1.00	<1.00	<2.00	<100	<96.2	<96.2	--	--	--	--	--	--	5.07	282.13
287.21	09/24/15	<1.00	<1.00	<1.00	<3.00	<100	<100	<100	--	--	--	--	<2.00	--	10.23	276.98
	06/01/16	--	--	--	--	--	--	--	--	--	--	--	--	--	7.46	279.75
	12/14/16	--	--	--	--	--	--	--	--	--	--	--	--	--	5.55	281.66
	03/23/17	<1.00	<1.00	<1.00	<3.00	<100	<108	<108	<1.00	<0.00605[g]	<1.00	<0.315	<2.00	--	3.55	283.66
	06/22/17	<1.00	<1.00	<1.00	<3.00	<100	<93.0	<93.0	<1.00	<0.00603[g]	<1.00	<0.2805	<2.00	--	6.68	280.53
	09/19/17	<1.00	<1.00	<1.00	<3.00	<100	<95.7	<95.7	<1.00	<0.00614[g]	<1.00	<0.100	<2.00	--	10.40	276.81
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	9.16	278.05
	03/07/18	<1.00	<1.00	<1.00	<3.00	<100	<100	<100	<1.00	<0.00605[g]	<1.00	<1.155	<2.00	--	5.72	281.49
	04/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--	4.83	282.38
	07/16/18	--	--	--	--	--	--	--	--	--	--	--	--	--	9.21	278.00
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	10.81	276.40
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	9.65	277.56
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	--	--	2.73	284.48
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	--	--	8.65	278.56
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-3A	04/10/96	**54**	3.1	59	120	**3,000**	--	--	--	--	--	--	<2.0	--	--	--
298.42	05/09/96	--	--	--	--	--	--	--	--	--	--	--	--	--	6.60	291.82
	11/07/96	**102**	2.71	4.12	10.8	171	--	--	--	--	--	--	2.74	--	8.67	289.75
	03/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	5.67	292.75
	06/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	6.36	292.06
	09/11/97	--	--	--	--	--	--	--	--	--	--	--	--	--	8.69	289.73
	12/04/97	--	--	--	--	--	--	--	--	--	--	--	--	--	7.70	290.72
	03/17/98	--	--	--	--	--	--	--	--	--	--	--	--	--	6.91	291.51
	06/03/98	--	--	--	--	--	--	--	--	--	--	--	--	--	7.83	290.59
	09/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	9.77	288.65
	12/08/98	--	--	--	--	--	--	--	--	--	--	--	--	--	7.25	291.17
	03/16/99	--	--	--	--	--	--	--	--	--	--	--	--	--	6.24	292.18
	06/08/99	--	--	--	--	--	--	--	--	--	--	--	--	--	7.30	291.12
	09/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	9.13	289.29
	12/13/99	--	--	--	--	--	--	--	--	--	--	--	--	--	5.76	292.66
	03/01/00	--	--	--	--	--	--	--	--	--	--	--	--	--	5.43	292.99
	06/06/00	--	--	--	--	--	--	--	--	--	--	--	--	--	8.16	290.26
	08/17/00	--	--	--	--	--	--	--	--	--	--	--	--	--	8.63	289.79
	10/12/00	--	--	--	--	--	--	--	--	--	--	--	--	--	9.12	289.30
	01/17/01	<0.5	<0.5	0.61[c]	<1.5	<100	--	--	--	--	--	--	--	--	8.63	289.79
	04/17/01	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	7.89	290.53
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.14	289.28
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.56	288.86
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	8.49	289.93
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.55	291.87
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.37	290.05
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.96	289.46
	03/13/03	3.0	<1.0	2.7	1.1	140	--	--	--	--	--	--	--	--	8.12	290.30
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.82	290.60
	09/16/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	11.72	286.70
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	8.41	290.01
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.30	290.12
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.36	289.06
	09/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.87	288.55
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.16	289.26
297.91	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.46	289.45
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.48	290.43
	09/12/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.69	291.22
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.00	288.91
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.85	291.06
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.46	290.45
	09/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.19	291.72
	03/30/07	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.60	291.31
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.80	290.11
	09/13/07	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.70	288.21
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.42	291.49
	07/08/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.70	290.21
	10/29/10	<1.0	<1.0	<1.0	<3.0	<100	--	--	--	--	--	--	--	--	8.44	289.47
	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--		11.44	286.47
	Well Decommissioned in May 2016															
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-3B	01/10/00	**190**	3.1	41	190	**1,500**	--	--	--	--	--	--	<2.0	--	--	--
298.36	05/09/96	--	--	--	--	--	--	--	--	--	--	--	--	--	6.06	292.30
	11/07/96	**169**	4.5	279	185	**3,440**	--	--	--	--	--	--	<2.0	--	8.53	289.83
	03/18/97	**385**	16	**710**	772	**12,200**	--	--	--	--	--	--	--	--	5.27	293.09
	06/10/97	**291**	<12.5	546	568	**10,200**	--	--	--	--	--	--	--	--	6.54	291.82
	09/11/97	**98.9**	4.56	117	102	**2,190**	--	--	--	--	--	--	--	--	8.62	289.74
	12/04/97	**352**	18.4	647	645	**7,180**	--	--	--	--	--	--	--	--	6.55	291.81
	03/17/98	**385**	16	**710**	772	**12,200**	--	--	--	--	--	--	--	--	7.87	290.49
	06/02/98	**300**	31	200	190	**2,900**	--	--	--	--	--	--	--	--	8.98	289.38
	09/22/98	**146**	5.04	83.3	22.3	**973**	--	--	--	--	--	--	--	--	10.65	287.71
	12/08/98	0.453	<0.3	<0.50	56.8	152	--	--	--	--	--	--	--	--	8.39	289.97
	03/16/99	<0.3	1.28	0.97	20.4	109	--	--	--	--	--	--	--	--	4.86	293.50
	06/08/99	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	7.05	291.31
	09/30/99	<0.3	0.48	<0.5	0.95	<100	--	--	--	--	--	--	--	--	9.08	289.28
	12/13/99	<0.3	0.76	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	6.10	292.26
	03/01/00	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	5.63	292.73
	06/06/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	7.14	291.22
	08/17/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	8.74	289.62
	10/12/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	9.76	288.60
	01/17/01	<0.5	<0.5	0.57[c]	<1.5	<100	--	--	--	--	--	--	--	--	7.84	290.52
	04/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.77	291.59
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.61	288.75
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.82	288.54
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	5.73	292.63
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.08	292.28
	08/23/02	0.516	<1.0	<1.0	2.19	<100	--	--	--	--	--	--	--	--	9.35	289.01
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.74	289.62
	03/13/03	<1.0	<1.0	<1.0	<2.0	100	--	--	--	--	--	--	--	--	6.13	292.23
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.93	290.43
	09/16/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	11.62	286.74
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.71	290.65
	03/22/04	<1.0	<1.0	5.6	2.0	260	--	--	--	--	--	--	--	--	7.77	290.59
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.12	289.24
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.83	288.53
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.45	289.91
297.84	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.13	289.71
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.10	290.74
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.00	290.84
	12/06/05	--	--	N	--	--	--	--	--	--	--	--	--	--	7.42	290.42
	03/14/06	<1.0	<1.0	<1.0	<2.0	160	--	--	--	--	--	--	--	--	6.59	291.25
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	5.42	292.42
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	5.43	292.41
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	5.86	291.98
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.62	292.22
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.80	290.04
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	10.15	287.69
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.13	291.71
	07/08/10	<1.0	<1.0	<1.0	<2.0	150	--	--	--	--	--	--	--	--	7.20	290.64
	10/29/10	1.3	1.7	1	<3.0	260	--	--	--	--	--	--	--	--	7.56	290.28
	03/03/15	<1.00	7.76	<1.00	<2.00	<100	**3,320**	**16,800**	--	--	--	--	--	--	6.32	291.52
287.80	09/30/15	Well Damaged												--	--	--
	06/01/16	Well Damaged												--	--	--
	03/23/17	Well Damaged												--	--	--
	09/20/17	Well Damaged												--	--	--
	11/20/17	Well Damaged												--	--	--
	03/07/18	**38.2**	15.3	8.51	35.4	**802**	**1,630**	**1,210**	<1.00	<0.00621[g]	<1.00	<1.155	0.147[h]	--	1.39	286.41
	04/19/18	Well Damaged												--	1.46	286.34
	07/16/18	Well Damaged												--	1.44	286.36
	10/18/18	Well Damaged												--	1.49	286.31
	07/31/19	Well Damaged												--	1.56	286.24
	02/03/20	Well Damaged												--	1.67	286.13
	08/04/20	Well Damaged												--	1.66	286.14
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-4A	11/07/96	0.846	1.32	0.866	2.49	<50	--	--	--	--	--	--	2.33	--	8.35	289.48
297.83	03/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	5.21	292.62
	06/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	6.33	291.50
	09/11/97	--	--	--	--	--	--	--	--	--	--	--	--	--	8.52	289.31
	12/04/97	--	--	--	--	--	--	--	--	--	--	--	--	--	6.45	291.38
	03/17/98	--	--	--	--	--	--	--	--	--	--	--	--	--	6.23	291.60
	06/03/98	--	--	--	--	--	--	--	--	--	--	--	--	--	7.52	290.31
	09/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	9.60	288.23
	12/08/98	--	--	--	--	--	--	--	--	--	--	--	--	--	6.37	291.46
	03/16/99	--	--	--	--	--	--	--	--	--	--	--	--	--	5.03	292.80
	06/08/99	--	--	--	--	--	--	--	--	--	--	--	--	--	7.05	290.78
	09/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	8.79	289.04
	12/13/99	--	--	--	--	--	--	--	--	--	--	--	--	--	5.73	292.10
	03/01/00	--	--	--	--	--	--	--	--	--	--	--	--	--	5.86	291.97
	06/06/00	--	--	--	--	--	--	--	--	--	--	--	--	--	6.75	291.08
	08/17/00	--	--	--	--	--	--	--	--	--	--	--	--	--	8.67	289.16
	10/12/00	--	--	--	--	--	--	--	--	--	--	--	--	--	9.48	288.35
	01/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	7.55	290.28
	04/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.90	290.93
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.33	288.50
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.58	288.25
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.48	291.35
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	5.91	291.92
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	9.15	288.68
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.33	289.50
	03/13/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.37	291.46
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	8.02	289.81
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	11.46	286.37
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.22	290.61
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	8.00	289.83
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.78	288.05
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.35	289.48
297.33	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.86	289.47
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.93	290.40
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.24	291.09
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.32	290.01
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.65	290.68
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.71	289.62
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	4.18	293.15
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	4.94	292.39
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.70	291.63
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	8.00	289.33
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	10.05	287.28
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.06	292.27
	06/24/09	3.2	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.13	289.20
	07/08/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.30	290.03
287.28	10/29/10	--	--	--	--	--	--	--	--	--	--	--	--	--	7.45	279.83
	Well Decommissioned in May 2016															
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-4B	11/07/96	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	<2.0	--	8.01	289.69
297.70	03/18/97	**28.5**	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	4.96	292.74
	06/10/97	**40.5**	<0.5	<0.5	<1.0	66.8	--	--	--	--	--	--	--	--	6.10	291.60
	09/11/97	<0.5	<0.5	<0.5	<1.0	51.9	--	--	--	--	--	--	--	--	7.30	290.40
	12/04/97	1.54	<0.5	<0.5	2.59	<50	--	--	--	--	--	--	--	--	6.20	291.50
	03/17/98	**28.5**	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	6.17	291.53
	06/02/98	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	7.37	290.33
	09/22/98	<0.5	<0.5	<0.5	<1.0	<50	--	--	--	--	--	--	--	--	9.46	288.24
	12/08/98	0.533	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	6.20	291.50
	03/16/99	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	4.83	292.87
	06/08/99	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	6.82	290.88
	09/30/99	<0.3	<0.3	<0.5	1.11	<100	--	--	--	--	--	--	--	--	8.75	288.95
	12/13/99	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	5.90	291.80
	03/01/00	<0.3	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	5.61	292.09
	06/06/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	6.89	290.81
	08/17/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	8.51	289.19
	10/12/00	<0.5	<0.5	<0.5	<1.0	<100	--	--	--	--	--	--	--	--	9.41	288.29
	01/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	7.41	290.29
	04/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	6.46	291.24
	09/21/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.29	288.41
	10/23/01	--	--	--	--	--	--	--	--	--	--	--	--	--	9.39	288.31
	12/17/01	--	--	--	--	--	--	--	--	--	--	--	--	--	5.70	292.00
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.00	291.70
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	9.10	288.60
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.11	289.59
	03/13/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	5.67	292.03
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.76	289.94
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	11.29	286.41
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.49	290.21
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.54	290.16
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	8.69	289.01
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.30	288.40
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.97	289.73
297.19	04/05/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.61	289.58
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.92	290.27
	09/22/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.10	291.09
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.75	290.44
	03/14/06	1.0	<1.0	1.3	<2.0	<100	--	--	--	--	--	--	--	--	6.40	290.79
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	9.84	287.35
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	5.68	291.51
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.00	290.19
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.45	291.74
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.70	289.49
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	9.90	287.29
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.82	290.37
	06/24/09	**5.0**	2.4	<1.0	7.0	<100	--	--	--	--	--	--	--	--	7.82	289.37
	07/08/10	<1.0	1.3	1.7	<2.0	<100	--	--	--	--	--	--	--	--	6.94	290.25
	10/29/10	1.9	13	<1.0	20	120	--	--	--	--	--	--	--	--	7.15	290.04
	02/08/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	5.55	291.64
	08/05/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	7.84	289.35
	02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	5.87	291.32
	08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	9.10	288.09
287.16	01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	5.72	281.44
	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	6.89	280.27
	02/03/14	--	--	--	--	--	--	--	--	--	--	--	--	--	6.76	280.40
	07/29/14	--	--	--	--	--	--	--	--	--	--	--	--	--	8.62	278.54
	03/03/15	--	--	--	--	--	--	--	--	--	--	--	--	--	5.83	281.33
287.78	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	10.74	277.04
	06/01/16	--	--	--	--	--	--	--	--	--	--	--	--	--	8.07	279.71
	12/14/16	--	--	--	--	--	--	--	--	--	--	--	--	--	5.94	281.84
	03/23/17	--	--	--	--	--	--	--	--	--	--	--	--	--	4.66	283.12
	06/22/17	--	--	--	--	--	--	--	--	--	--	--	--	--	7.29	280.49
	09/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	10.52	277.26
	03/06/18	--	--	--	--	--	--	--	--	--	--	--	--	--	6.95	280.83
	04/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--	5.41	282.37
	07/16/18	--	--	--	--	--	--	--	--	--	--	--	--	--	9.59	278.19
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	11.00	276.78
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	9.91	277.87
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	--	--	4.01	283.77
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	--	--	8.96	278.82
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-5A	11/07/96	**1,580**	**3,340**	**1,820**	**12,300**	**70,300**	--	--	--	--	--	--	10.2	--	9.46	289.69
299.15	03/18/97	--	--	--	--	--	--	--	--	--	--	--	--	--	6.81	292.34
	06/10/97	--	--	--	--	--	--	--	--	--	--	--	--	--	7.12	292.03
	09/11/97	--	--	--	--	--	--	--	--	--	--	--	--	--	9.68	289.47
	03/17/98	--	--	--	--	--	--	--	--	--	--	--	--	--	7.57	291.58
	06/03/98	--	--	--	--	--	--	--	--	--	--	--	--	--	8.90	290.25
	09/22/98	--	--	--	--	--	--	--	--	--	--	--	--	--	10.84	288.31
	12/08/98	--	--	--	--	--	--	--	--	--	--	--	--	--	9.24	289.91
	03/16/99	--	--	--	--	--	--	--	--	--	--	--	--	--	6.93	292.22
	09/30/99	--	--	--	--	--	--	--	--	--	--	--	--	--	9.63	289.52
	12/13/99	--	--	--	--	--	--	--	--	--	--	--	--	--	6.89	292.26
	03/01/00	--	--	--	--	--	--	--	--	--	--	--	--	--	9.13	290.02
	01/17/01	**370**	58	**1,100**[c]	**5,200**	**34,000**	--	--	--	--	--	--	--	--	9.65	289.50
	02/09/01	--	--	--	--	--	--	--	--	--	--	--	<5[a]	--	--	--
	04/17/01	**110**	36	**1,100**	**3,900**	**4,000**	--	--	--	--	--	--	--	--	8.36	290.79
	09/21/01	**180**	230	**950**	**5,200**	**26,000**	--	--	--	--	--	--	--	--	9.63	289.52
	10/23/01	**150**	**1,100**	75	**5,100**	**28,000**	--	--	--	--	--	--	--	--	10.98	288.17
	12/17/01	**<50**	<50	430	**4,100**	**25,000**	--	--	--	--	--	--	--	--	7.93	291.22
	03/14/02	**<5**	<100	<100	**2,040**	**14,800**	--	--	--	--	--	--	--	--	7.22	291.93
	08/23/02	**28.1**	6.34	118	707.4	**4,420**	--	--	--	--	--	--	--	--	10.46	288.69
	12/26/02	**36.1**	8.56	144	819.6	**4,700**	--	--	--	--	--	--	--	--	9.48	289.67
	03/14/03	**130**	24	320	**1,534**	**9,900**	--	--	--	--	--	--	--	--	8.34	290.81
	06/05/03	**290**	39	420	**1,639**	**8,900**	--	--	--	--	--	--	--	--	8.16	290.99
	09/16/03	**380**	64	**790**	**3,063**	**17,000**	--	--	--	--	--	--	--	--	12.66	286.49
	12/05/03	**200**	32	480	**1,436**	**9,700**	--	--	--	--	--	--	--	--	10.80	288.35
	03/22/04	**160**	28	420	**1,232**	**7,900**	--	--	--	--	--	--	--	--	9.76	289.39
	06/03/04	**190**	34	530	**1,645**	**11,000**	--	--	--	--	--	--	--	--	9.34	289.81
	09/22/04	**170**	32	480	**1,341**	**12,000**	--	--	--	--	--	--	--	--	10.34	288.81
	01/04/05	**180**	56	580	**1,681**	**8,500**	--	--	--	--	--	--	--	--	9.57	289.58
298.64	03/31/05	**180**	47	640	**1,685**	**12,000**	--	--	--	--	--	--	--	--	7.93	290.71
	06/24/05	**92**	<1.0	190	96	**6,100**	--	--	--	--	--	--	--	--	6.23	292.41
	09/12/05	**190**	55	**770**	**2,986**	**14,000**	--	--	--	--	--	--	--	--	5.87	292.77
	12/06/05	**160**	30	**700**	**1,532**	**11,000**	--	--	--	--	--	--	--	--	9.30	289.34
	03/14/06	**110**	100	**1,800**	**6,880**	**33,000**	--	--	--	--	--	--	--	--	8.49	290.15
	06/15/06	**21**	78	47	320	**1,600**	--	--	--	--	--	--	--	--	7.72	290.92
	09/13/06	**62**	32	630	**1,943**	**11,000**	--	--	--	--	--	--	--	--	4.19	294.45
	03/30/07	**78**	38	**1,100**	**2,955**	**16,000**	--	--	--	--	--	--	--	--	6.41	292.23
	06/04/07	**91**	<50	**1,100**	**2,600**	**11,000**	--	--	--	--	--	--	--	--	8.75	289.89
	09/13/07	**83**	<50	**1,100**	**2,400**	**14,000**	--	--	--	--	--	--	--	--	10.55	288.09
	12/26/07	**82**	10	**1,100**	**1,217**	**9,300**	--	--	--	--	--	--	--	--	7.42	291.22
	03/28/08	**71**	<10	**1,400**	**1,800**	**11,000**	--	--	--	--	--	--	--	--	5.42	293.22
	06/25/08	**78**	<50	**1,300**	**2,700**	**15,000**	--	--	--	--	--	--	--	--	8.89	289.75
	09/25/08	**73**	26	**1,600**	**2,847**	**18,000**	--	--	--	--	--	--	--	--	8.91	289.73
	01/02/09	**59**	6.5	**1,200**	**1,307.2**	**11,000**	--	--	--	--	--	--	--	--	7.31	291.33
	03/24/09	**55**	5.1	**1,100**	901.6	**8,900**	--	--	--	--	--	--	--	--	7.82	290.82
	06/24/09	**71**	<50	**1,300**	670	**9,600**	--	--	--	--	--	--	--	--	6.11	292.53
	09/30/09	**36**	38	**1,700**	**3,630**	**23,000**	--	--	--	--	--	--	--	--	8.27	290.37
	12/28/09	**41**	4.3	**1,100**	370	**9,100**	--	--	--	--	--	--	--	--	8.65	289.99
	07/09/10	**31**	2.6	**810**	122.4	**5,000**	--	--	--	--	--	--	--	--	8.76	289.88
	10/29/10	--	--	--	--	--	--	--	--	--	--	--	--	--	8.15	290.49
	02/08/11	**13**	1.3	520	53	**4,800**	--	--	--	--	--	--	--	--	7.84	290.80
	08/04/11	**10**	0.6	620	19	**5,400**	--	--	--	--	--	--	--	--	8.40	290.24
	02/06/12	**6.5**	0.53	280	8.6	**3,800**	--	--	--	--	--	--	--	--	7.84	290.80
288.63	08/27/12	4.8	<0.50	160	3.5	**2,900**	<250	<500	--	--	--	--	--	--	7.98	280.65
	03/03/15	**8.25**	3.26	747	15	**9,660**	**1,450**	<94.8	--	--	--	--	--	--	--	--
	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--		12.03	276.60
	Well Decommissioned in May 2016															
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000**[b]	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-5B	11/07/96	**3,770**	**1,020**	**846**	**4,310**	**25,000**	--	--	--	--	--	--	3.03	--	9.43	289.71
299.14	03/18/97	**2,660**	**2,810**	**815**	**2,690**	**27,700**	--	--	--	--	--	--	--	--	6.14	293.00
	06/10/97	**8,900**	**25,100**	**2,770**	**21,100**	**151,000**	--	--	--	--	--	--	--	--	7.29	291.85
	09/11/97	**7,660**	**15,440**	**2,320**	**16,900**	**101,000**	--	--	--	--	--	--	--	--	9.53	289.61
	12/04/97	**8,100**	**16,400**	**2,970**	**20,800**	**110,000**	--	--	--	--	--	--	--	--	7.45	291.69
	03/17/98	**2,660**	**2,810**	**815**	**2,690**	**27,700**	--	--	--	--	--	--	--	--	8.70	290.44
	06/02/98	**98**	11	54	110	**940**	--	--	--	--	--	--	--	--	9.74	289.40
	09/22/98	**256**	3.62	91.9	57.1	**802**	--	--	--	--	--	--	--	--	10.95	288.19
	12/08/98	**202**	2.26	53.2	62.3	**984**	--	--	--	--	--	--	--	--	8.01	291.13
	03/16/99	1.61	<0.3	<0.5	<0.6	<100	--	--	--	--	--	--	--	--	4.78	294.36
	06/08/99	**330**	<1.5	<2.5	<3.0	442	--	--	--	--	--	--	--	--	7.97	291.17
	09/30/99	**685**	591	137	**1,430**	**6,080**	--	--	--	--	--	--	--	--	10.00	289.14
	12/13/99	**527**	417	236	**1,170**	**4,720**	--	--	--	--	--	--	--	--	7.18	291.96
	03/01/00	**95.2**	<0.3	19.4	20.7	434	--	--	--	--	--	--	--	--	7.50	291.64
	06/06/00	**250**	89	180	190	<100	--	--	--	--	--	--	--	--	9.17	289.97
	08/17/00	**100**	<5.0	83	30	630	--	--	--	--	--	--	--	--	10.00	289.14
	10/12/00	**10**	<5.0	21	<10	**<1000**	--	--	--	--	--	--	--	--	10.81	288.33
	01/17/01	**59**	2.1	32[c]	<1.5	250	--	--	--	--	--	--	--	--	9.14	290.00
	04/17/01	**27**	0.74	8.0	<1.0	220	--	--	--	--	--	--	--	--	8.28	290.86
	09/21/01	**150**	15	71.0	100	**1,100**	--	--	--	--	--	--	--	--	11.57	287.57
	10/23/01	3.2	1.6	2.3	4.4	170	--	--	--	--	--	--	--	--	10.81	288.33
	12/17/01	**33**	<0.5	1.4	<1.5	<100	--	--	--	--	--	--	--	--	7.74	291.40
	03/14/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.92	292.22
	08/23/02	**186**	4.70	115.0	177.70	**1,580**	--	--	--	--	--	--	--	--	10.26	288.88
	12/26/02	**114**	2.77	70.4	57.17	**853**	--	--	--	--	--	--	--	--	9.53	289.61
	03/14/03	**270**	8.9	300	487	**4,300**	--	--	--	--	--	--	--	--	7.00	292.14
	06/05/03	**430**	18	**780**	**1,411**	**10,000**	--	--	--	--	--	--	--	--	8.95	290.19
	09/16/03	**360**	<10	280	360	**3,700**	--	--	--	--	--	--	--	--	12.55	286.59
	12/05/03	**340**	10	500	340	**4,900**	--	--	--	--	--	--	--	--	8.84	290.30
	03/22/04	**180**	7.0	480	463.9	**4,600**	--	--	--	--	--	--	--	--	8.75	290.39
	06/03/04	**360**	14.0	**890**	698.3	**8,800**	--	--	--	--	--	--	--	--	10.03	289.11
	09/22/04	**330**	9.2	**700**	246	**7,100**	--	--	--	--	--	--	--	--	10.87	288.27
	01/04/05	**110**	<5.0	210	71	**2,000**	--	--	--	--	--	--	--	--	9.28	289.86
298.63	03/31/05	**38**	<1.0	95	35	<100	--	--	--	--	--	--	--	--	9.23	289.40
	06/24/05	3.2	<1.0	<1.0	<2.0	100	--	--	--	--	--	--	--	--	8.41	290.22
	09/12/05	**270**	<1.0	410	130	**4,700**	--	--	--	--	--	--	--	--	7.61	291.02
	12/06/05	**59**	<1.0	95	29	**1,600**	--	--	--	--	--	--	--	--	9.51	289.12
	03/14/06	**93**	<4.0	130	<8.0	**1,500**	--	--	--	--	--	--	--	--	7.55	291.08
	06/15/06	<4.0	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	8.18	290.45
	09/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.68	290.95
	12/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.00	291.63
	03/30/07	4.7	<1.0	5	<2.0	290	--	--	--	--	--	--	--	--	6.31	292.32
	06/04/07	**210**	2.9	55	9.5	**2,800**	--	--	--	--	--	--	--	--	8.70	289.93
	09/13/07	**130**	<10	33	<20	**1,900**	--	--	--	--	--	--	--	--	11.05	287.58
	12/26/07	**84**	10	**1,100**	**1,116**	**9,700**	--	--	--	--	--	--	--	--	7.32	291.31
	03/28/08	**210**	<10	51	<20	**2,600**	--	--	--	--	--	--	--	--	6.96	291.67
	06/25/08	**160**	<4.0	42	8.4	**2,700**	--	--	--	--	--	--	--	--	8.85	289.78
	09/25/08	**56**	<4.0	22	7.8	**2,000**	--	--	--	--	--	--	--	--	10.52	288.11
	01/02/09	**23**	<1.0	9.7	3.2	**870**	--	--	--	--	--	--	--	--	7.16	291.47
	03/24/09	**76**	2.7	28	4.7	**1,500**	--	--	--	--	--	--	--	--	7.20	291.43
	06/24/09	**120**	<4.0	31	4.1	**2,300**	--	--	--	--	--	--	--	--	4.96	293.67
	09/30/09	3.7	<1.0	2.8	<2.0	180	--	--	--	--	--	--	--	--	10.97	287.66
	12/28/09	**33**	3.4	9.9	4.8	770	--	--	--	--	--	--	--	--	7.35	291.28
	07/09/10	**27**	2	4.9	1.3	460	--	--	--	--	--	--	--	--	8.12	290.51
	11/01/10	2010 UST Removal							--	--	--	--	--	--		
	02/08/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	6.10	292.53
	08/04/11	3.9	0.95	2.8	0.69	680	--	--	--	--	--	--	--	--	8.94	289.69
	02/06/12	<0.50	<0.50	0.92	<0.50	340	--	--	--	--	--	--	--	--	7.08	291.55
	08/27/12	1.1	1.4	1.9	2.6	660	<250	<500	--	--	--	--	--	--	10.21	288.42
288.61	01/09/13	0.98	<0.50	1.7	0.69	550	**610**	**680**	--	--	--	--	--	--	6.67	281.94
	06/06/13	2.5	0.62	1.0	0.75	600	<250	<500	--	--	--	--	--	--	7.98	280.63
	08/15/13	1.4	1.0	1.2	2.8	**1,200**	<250	<500	--	--	--	--	<5	--	10.44	278.17
	11/19/13	**5.73**	2.23	8.02	6.22	**3,080**	<50.0	380	--	--	--	--	6.95	--		
	02/03/14	3.70	1.20	3.34	4.22	**1,730**	479[f]	180	--	--	--	--	--	--	8.03	280.58
	07/29/14	1.34	<1.00	<1.00	2.09	324	--	--	--	--	--	--	--	--	9.67	278.94
	03/03/15	<1.00	<1.00	<1.00	<2.00	642	<93.9	<93.9	--	--	--	--	--	--		
288.61	09/24/15	<1.00	1.04	1.86	<3.00	**1,960**	490	<100	--	--	--	--	<2.00	--	11.95	276.66
	06/01/16	--	--	--	--	--	--	--	--	--	--	--	--	--	9.08	279.53
	10/03/16	MPE EVENT (CAL CLEAN)												--		
	12/15/16	<1.00	<1.00	<1.00	<3.00	<100	--	--	<1.00	<0.00605[g]	<1.00	<0.300	--	--	7.14	281.47
	03/23/17	<1.00	<1.00	<1.00	<3.00	<100	<105	169	<1.00	<0.00603[g]	<1.00	<0.300	<2.00	--	4.54	284.07
	06/23/17	<1.00	<1.00	<1.00	<3.00	<100	**526**	<96.2	<1.00	<0.00616[g]	<1.00	<0.294	<2.00	--	8.20	280.41
	09/20/17	<1.00	<1.00	<1.00	<3.00	<100	**880**	402	<1.00	<0.00616[g]	<1.00	<0.0962	<2.00	--	11.62	276.99
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	9.41	279.20
	03/07/18	0.468[h]	0.346[h]	7.72	1.06[h]	458	**1,360**	310	<1.00	<0.00621[g]	<1.00	<1.155	1.12[h]	--	7.48	281.13
	04/20/18	<1.00	<1.00	0.627[h]	<3.00	366	151	59.3[h]	<1.00	<0.00602[g]	<1.00	<0.333	0.938[h,k]	--	6.10	282.51
	07/17/18	<1.00	0.233[h]	0.944[h]	<3.00	267	**582**	127	<1.00	<0.00616[g]	0.262[h]	0.2291[h]	10.5	--	10.77	277.84
	10/19/18	<1.00	0.502[h]	<1.00	<3.00	146	354	278	--	--	--	0.2259[h]	0.879[h]	--	12.21	276.40
	08/01/19	0.221[h]	0.931[h]	0.510[h]	0.888[h]	482	**596**	153	--	--	--	--	--	--	11.04	277.57
	02/03/20	<3.00	<2.00	<3.00	<3.00	744	**1,120**	374	--	--	--	--	--	--	6.20	282.41
	08/04/20	<3.00	<2.00	<3.00	<3.00	648	**1,350**	430	--	--	--	--	--	--	9.96	278.65
MW-7	01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	6.86	282.11
288.97	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	8.23	280.74
	08/15/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	<5	--	10.85	278.12
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	9.21	279.76
	02/03/14	--	--	--	--	--	--	--	--	--	--	--	--	--	8.03	280.94
	03/03/15	--	--	--	--	--	--	--	--	--	--	--	--	--	6.75	282.22
288.9714	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	12.42	276.55
	06/01/16	--	--	--	--	--	--	--	--	--	--	--	--	--	9.33	279.64
	12/14/16	--	--	--	--	--	--	--	--	--	--	--	--	--	6.81	282.16
	03/23/17	--	--	--	--	--	--	--	--	--	--	--	--	--	4.57	284.40
	06/22/17	--	--	--	--	--	--	--	--	--	--	--	--	--	8.42	280.55
	09/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	12.07	276.90
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	9.98	278.99
	03/06/18	--	--	--	--	--	--	--	--	--	--	--	--	--	7.31	281.66
	04/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--	5.86	283.11
	07/16/18	--	--	--	--	--	--	--	--	--	--	--	--	--	10.92	278.05
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	12.74	276.23
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	11.36	277.61
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	--	--	4.14	284.83
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	--	--	10.17	278.80
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-9	01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	6.63	283.21
289.84	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	7.93	281.91
	08/15/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	<5	--	10.74	279.10
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	4.81	285.03
	02/03/14	--	--	--	--	--	--	--	--	--	--	--	--	--	7.05	282.79
	07/29/14	--	--	--	--	--	--	--	--	--	--	--	--	--	9.81	280.03
	03/03/15	--	--	--	--	--	--	--	--	--	--	--	--	--	6.20	283.64
NS	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	12.54	277.30
	06/01/16	--	--	--	--	--	--	--	--	--	--	--	--	--	9.07	280.77
	12/14/16	--	--	--	--	--	--	--	--	--	--	--	--	--	6.00	283.84
	03/23/17	--	--	--	--	--	--	--	--	--	--	--	--	--	1.90	287.94
	06/22/17	--	--	--	--	--	--	--	--	--	--	--	--	--	7.80	282.04
	09/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	12.06	277.78
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	9.43	280.41
	03/06/18	--	--	--	--	--	--	--	--	--	--	--	--	--	6.85	282.99
	04/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--	2.42	287.42
	07/16/18	--	--	--	--	--	--	--	--	--	--	--	--	--	10.78	279.06
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	13.06	276.78
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	11.41	278.43
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	--	--	1.58	288.26
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	--	--	10.09	279.75
MW-10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.18	279.32
288.5033	03/23/17	<1.00	<1.00	40.6	49.8	665	313	<94.8	<1.00	<0.00603[g]	<1.00	3.544	<2.00	--	6.17	282.33
	06/23/17	4.64	<1.00	295	329	**6,850**	**1,380**	<100	<1.00	0.00720[h]	<1.00	100.6	2.23	--	8.40	280.10
	09/20/17	<1.00	<1.00	17.5	6.69	201	<94.8	<94.8	<1.00	<0.00609[g]	<1.00	1.233	<2.00	--	11.57	276.93
	11/20/17	<1.00[J]	<1.00[J]	6.82[J]	15.2[J]	271	<100	<100	<1.00[J]	<0.00618[g,J]	<1.00[J]	1.065	<2.00	--	9.58	278.92
	03/07/18	**13.9**	0.525[h]	585	471	**5,690**	**2,010**	88.0[h]	<1.00	<0.00618[g]	<1.00	68.16	2.03	--	7.60	280.90
	04/20/18	0.389[h]	<1.00	49.6	46.6	**877**	262	84.1[h]	<1.00	<0.00602[g]	<1.00	8.79	0.672[h,k]	--	6.62	281.88
	07/17/18	<1.00	<1.00	16.8	4.35	199	70.8[h]	63.0[h]	<1.00	<0.00600[g]	<1.00	0.9007[h]	0.167[h]	--	10.64	277.86
	10/19/18	0.639[h]	<1.00	8.87	<3.00	230	175	69.2[h]	--	--	--	0.8798[h]	0.179[h]	--	12.13	276.37
	08/01/19	<0.400	<1.00	0.625[h]	<3.00	<150	77.7	44.3[h]	--	--	--	--	--	--	11.00	277.50
	02/03/20	<3.00	<2.00	<3.00	<3.00	<250	107	<339	--	--	--	--	--	--	6.25	282.25
	08/05/20	<3.00	<2.00	<3.00	<3.00	<250	<106	<338	--	--	--	--	--	--	7.90	280.60
DPE-1	12/04/97	**7.97**	7.48	64	23.1	**1,090**	--	--	--	--	--	--	--	--	--	--
NS	03/15/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	5.67	--
	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.98	--
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	8.18	--
	03/14/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	5.85	--
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.62	--
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	11.29	--
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.51	--
	03/22/04	<1.0	<1.0	1.9	<2.0	<100	--	--	--	--	--	--	--	--	7.44	--
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	8.67	--
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.13	--
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.80	--
297.36	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.36	290.00
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.10	290.26
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.98	290.38
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.31	291.05
	03/14/06	**1,200**	77	3.5	42	480	--	--	--	--	--	--	--	--	6.39	290.97
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.41	289.95
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	6.94	290.42
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	5.87	291.49
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.36	292.00
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.50	289.86
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	9.65	287.71
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.72	290.64
	06/24/09	**200**	12	<4.0	4.4	<400	--	--	--	--	--	--	--	--	7.56	289.80
	07/08/10	**960**	24	20	20.7	410	--	--	--	--	--	--	--	--	6.75	290.61
	02/08/11	**22**	1.0	5.2	7.7	**860**	--	--	--	--	--	--	--	--	4.85	292.51
	08/05/11	1.6	<0.50	0.93	0.77	<250	--	--	--	--	--	--	--	--	9.86	287.50
	02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	5.64	291.72
287.02	08/27/12	<0.50	0.72	<0.50	<0.50	<250	290	<500	--	--	--	--	--	--	9.04	277.98
	08/15/13	<0.50	1.7	<0.50	<0.50	<250	400[e]	**560**	--	--	--	--	--	--	9.18	277.84
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	6.94	280.08
	03/03/15	<1.00	<1.00	<1.00	<2.00	<100	206	**553**	--	--	--	--	--	--	5.34	292.02
287.34	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	10.85	276.49
	12/14/16	**27.1**	<1.00	<1.00	<3.00	<100	<95.2	**510**	<1.00	--	<1.00	--	--	--	6.62	280.72
	03/23/17	--	--	--	--	--	--	--	--	--	--	--	--	--	3.04	284.30
	06/22/17	<1.00	<1.00	<1.00	<2.00	<100	<100	<100	<1.00	<0.00602[g]	<1.00	<0.294	<2.00	--	6.47	280.87
	09/20/17	<1.00	<1.00	<1.00	<3.00	<100	<94.3	326	<1.00	<0.00614[g]	<1.00	<0.0952	5.56	--	10.40	276.94
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	8.21	279.13
	03/06/18	--	--	--	--	--	--	--	--	--	--	--	--	--	5.69	281.65
	04/20/18	<1.00	<1.00	<1.00	<3.00	<100	56.7[h]	199	<1.00	<0.00598[g]	<1.00	<0.300	2.49[k]	--	4.67	282.67
	07/17/18	<1.00	<1.00	<1.00	<3.00	<100	65.2[h]	261	<1.00	<0.00609[g]	<1.00	<0.318	<3.00	--	9.23	278.11
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	10.87	276.47
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	9.65	277.69
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	--	--	2.33	285.01
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	--	--	8.67	278.67
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-2	03/15/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.05	--
NS	08/22/02	--	--	--	--	--	--	--	--	--	--	--	--	--	9.40	--
	03/13/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	5.92	--
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	1.69	--
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	2.71	--
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	7.41	--
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.88	--
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.05	--
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.66	--
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.45	--
297.79	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.64	290.15
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.23	290.56
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	4.21	293.58
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.33	290.46
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.70	291.09
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	9.61	288.18
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	5.21	292.58
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	6.03	291.76
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	5.82	291.97
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.90	289.89
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	10.20	287.59
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.76	291.03
	07/08/10	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	6.19	291.60
	08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	9.59	288.20
287.89	01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	6.54	281.35
	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	7.68	280.21
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	7.91	279.98
287.78	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	11.22	276.56
	12/14/16	<1.00	<1.00	<1.00	<3.00	<100	<95.2	<95.2	<1.00	<0.00607 [g]	<1.00	<0.2886	--	--	6.02	281.76
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-3	03/15/02	3.15	<1.0	3.89	<1.0	60.1	--	--	--	--	--	--	--	--	6.34	--
NS	08/23/02	2.6	<1.0	0.614	2.27	<100	--	--	--	--	--	--	--	--	9.81	--
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	9.23	--
	03/13/03	2.7	<1.0	2.5	<2.0	130	--	--	--	--	--	--	--	--	6.63	--
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	8.45	--
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	12.15	--
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	8.42	--
	03/22/04	3.5	<1.0	6.6	19.5	210	--	--	--	--	--	--	--	--	8.23	--
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	9.60	--
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	10.40	--
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.92	--
298.26	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.57	289.69
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.10	290.16
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.26	289.00
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.98	290.28
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.10	291.16
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	8.00	290.26
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.10	291.16
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	7.13	291.13
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.09	292.17
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.90	290.36
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	10.60	287.66
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.08	291.18
	07/08/10	<1.0	1.1	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.66	290.60
288.17	10/29/10	<1.0	<1.0	<1.0	<3.0	<100	--	--	--	--	--	--	--	--	7.89	280.28
	08/15/13	--	--	--	--	--	--	--	--	--	--	--	--	--	8.40	279.77
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	2.53	285.64
	03/03/15	--	--	--	--	--	--	--	--	--	--	--	--	--	6.92	281.25
288.14	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	11.38	276.76
	12/14/16	--	--	--	--	--	--	--	--	--	--	--	--	--	6.52	281.62
	03/23/17	--	--	--	--	--	--	--	--	--	--	--	--	--	4.28	283.86
	06/23/17	<1.00	<1.00	1.65	31.2	382	184	217	<1.00	<0.00610[g]	<1.00	<0.300	2.97	--	7.70	280.44
	09/18/17	<1.00	<1.00	1.60	29.5	272	**734**	407	<1.00	<0.00616[g]	<1.00	<0.0962	4.71	--	11.05	277.09
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	6.10	282.04
	03/06/18	--	--	--	--	--	--	--	--	--	--	--	--	--	6.85	281.29
	04/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--	5.75	282.39
	07/17/18	<1.00	2.51	<1.00	1.05[h]	<100	483	664	<1.00	0.00605[h]	<1.00	0.0842[h]	**79.3**	--	10.07	278.07
	10/19/18	<1.00	0.341[h]	<1.00	<3.00	<100	**1,390**	**5,410**	--	--	--	0.3443[h]	**683**	--	11.72	276.42
	08/01/19	0.131[h]	<1.00	<1.00	0.501[h]	<150	308	**936**	--	--	--	--	--	--	10.50	277.64
	02/03/20	<3.00	<2.00	<3.00	<3.00	<250	**12,100**	**71,800**	--	--	--	--	**194**	<0.800	3.41	284.73
	08/04/20	<3.00	<2.00	<3.00	<3.00	<250	**<1,050**	**<3,340**	--	--	--	--	**16.5**	2.48	9.46	278.68
DPE-4	03/15/02	**468**	718	183	**1,914**	**9,600**	--	--	--	--	--	--	--	--	7.10	--
NS	08/23/02	**411**	131	202	901	**4,910**	--	--	--	--	--	--	--	--	10.20	--
	12/26/02	**1,470**	**1,550**	545	**2,220**	**12,400**	--	--	--	--	--	--	--	--	9.47	--
	03/14/03	**1,300**	130	570	850	**9,100**	--	--	--	--	--	--	--	--	6.99	--
	06/05/03	**2,800**	450	**1,200**	**3,040**	**21,000**	--	--	--	--	--	--	--	--	8.87	--
	09/16/03	**3,500**	240	**1,600**	**3,730**	**23,000**	--	--	--	--	--	--	--	--	12.48	--
	12/05/03	**1,200**	140	**720**	**2,210**	**14,000**	--	--	--	--	--	--	--	--	8.82	--
	03/22/04	**1,700**	37	670	**1,065**	**9,100**	--	--	--	--	--	--	--	--	8.70	--
	06/03/04	**3,100**	69	**1,500**	**2,760**	**21,000**	--	--	--	--	--	--	--	--	10.00	--
	09/22/04	**2,700**	72	**1,300**	**2,100**	**21,000**	--	--	--	--	--	--	--	--	10.59	--
	01/04/05	**570**	11	600	580	**6,500**	--	--	--	--	--	--	--	--	9.27	--
298.52	03/31/05	**720**	150	450	570	**6,400**	--	--	--	--	--	--	--	--	8.87	289.65
	06/24/05	**110**	<1.0	220	100	**7,700**	--	--	--	--	--	--	--	--	8.23	290.29
	09/12/05	**170**	49	**730**	**2,584**	**13,000**	--	--	--	--	--	--	--	--	7.68	290.84
	12/06/05	**230**	<1.0	64	28	**1,700**	--	--	--	--	--	--	--	--	8.70	289.82
	03/14/06	**420**	7.9	120	15.0	**1,700**	--	--	--	--	--	--	--	--	7.52	291.00
	06/15/06	**2,300**	230	230	680	**6,500**	--	--	--	--	--	--	--	--	6.94	291.58
	09/13/06	**2,600**	83	360	973	**8,500**	--	--	--	--	--	--	--	--	6.11	292.41
	12/13/06	2.6	<1.0	<1.0	8.0	170	--	--	--	--	--	--	--	--	6.98	291.54
	03/30/07	**380**	7.4	64	81	**2,400**	--	--	--	--	--	--	--	--	6.57	291.95
	06/04/07	**870**	8.4	30	58.1	**1,900**	--	--	--	--	--	--	--	--	8.40	290.12
	09/13/07	**1,700**	12	53	45	**2,300**	--	--	--	--	--	--	--	--	10.90	287.62
	12/26/07	**2,000**	18	23	44	**1,600**	--	--	--	--	--	--	--	--	7.71	290.81
	03/28/08	**640**	<10	16	19	**1,400**	--	--	--	--	--	--	--	--	6.38	292.14
	06/25/08	**980**	5.0	9.3	11	**1,200**	--	--	--	--	--	--	--	--	8.53	289.99
	09/25/08	**1,300**	720	260	**1,030**	**7,700**	--	--	--	--	--	--	--	--	10.48	288.04
	01/02/09	**520**	13	34	116	**1,400**	--	--	--	--	--	--	--	--	7.58	290.94
	03/25/09	**46**	<1.0	1.2	9.2	250	--	--	--	--	--	--	--	--	7.18	291.34
	06/24/09	**810**	<4.0	<4.0	6.9	630	--	--	--	--	--	--	--	--	8.94	289.58
	09/30/09	**240**	18	21	108	**1,100**	--	--	--	--	--	--	--	--	10.88	287.64
	12/28/09	**85**	<4.0	9.6	14.8	500	--	--	--	--	--	--	--	--	7.32	291.20
	07/09/10	**1,100**	9.0	5.1	48.5	710	--	--	--	--	--	--	--	--	8.07	290.45
	11/01/10	2010 UST Removal														
	02/08/11	**35**	1.6	3.6	5.0	270	--	--	--	--	--	--	--	--	6.70	291.82
	08/04/11	**220**	6.5	2.8	19	**860**	--	--	--	--	--	--	--	--	8.98	289.54
	02/06/12	**16**	0.74	1.4	1.1	<250	--	--	--	--	--	--	--	--	7.27	291.25
	08/27/12	**260**	6.4	12	18	**860**	<250	<500	--	--	--	--	--	--	10.19	288.33
288.50	01/09/13	**120**	44	76	120	**1,400**	<250	<500	--	--	--	--	--	--	6.89	281.61
	06/06/13	**55**	3.9	12	21	**890**	<250	<500	--	--	--	--	--	--	8.03	280.47
	08/15/13	**200**	5.1	9.8	22	**1,500**	<250	<500	--	--	--	--	<5	--	10.38	278.12
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	8.80	279.70
	02/03/14	**18**	3.11	4.13	6.22	**1,170**	398[f]	171	--	--	--	--	--	--	8.07	280.43
	07/29/14	**20.2**	10.1	29.2	26.34	655	--	--	--	--	--	--	--	--	9.88	278.62
	03/03/15	<1.00	<1.00	<1.00	<2.00	<100	98.9	327	--	--	--	--	--	--	6.91	281.59
288.51	09/24/15	**28.3**	9.55	10.3	24.3	786	193	139	--	--	--	--	<2.00	--	11.85	276.66
	10/03/16	MPE EVENT (CAL CLEAN)														
	12/15/16	**624**	62.1	194	937	**6,570**	--	--	<10	<0.00598[g]	**<10**	12.95	--	--	7.08	281.43
	03/23/17	**109**	9.06	180	675	**5,980**	**1,730**	<100	<5.00	<0.00602[g]	<5.00	9.62	2.73	--	5.55	282.96
	06/23/17	**272**	25.2	391	884	**14,100**	**5,690**	<95.2	<1.00	<0.00616[g]	<1.00	67.72	3.12	--	8.20	280.31
	09/20/17	**190**	11.0	257	474	**9,490**	**4,660**	346	<1.00	<0.00609[g]	<1.00	62.76	2.75	--	11.35	277.16
	11/20/17	**172**	10.8	259	624	**5,770**	**3,320**	**2110**	<5.00	<0.0282[g]	<5.00	26.82	**82.3**	--	9.63	278.88
	03/07/18	**149**	1.94	135	138	**4,350**	**3,390**	**1,030**	<1.00	<0.00623[g]	<1.00	14.04	**18.8**	--	7.40	281.11
	04/19/18	**217**	3.28	163	106	**4,750**	**3,110**	**561**	<1.00	<0.00609[g]	<1.00	17.4	**19.3**[k]	--	6.36	282.15
	07/17/18	**352**	6.08	240	94.2	**5,660**	**3,190**	**2,310**	<1.00	**0.0207**[f]	<1.00	34.59	**156**	--	10.38	278.13
	10/19/18	**271**	20.0	380	332	**4,730**	**2,090**	**561**	--	--	--	26.07	**29.8**	--	11.87	276.64
	08/01/19	**77.0**	4.27	43.3	23.2	**1,100**	**1,210**	473	--	--	--	--	--	--	10.75	277.76
	02/03/20	**78.2**	4.26	49.1	41.2	709	**2,230**	**4,690**	<2.00	**<0.0228**	<2.00	7.76	**20.0**	1.20	5.66	282.85
	08/05/20	**228**	7.28	32.3	15.8	**1,900**	**2,440**	**<1,660**	<2.00	<0.00802[n]	<2.00	14.39	3.98	<0.800	9.78	278.73
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000**[b]	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-5	03/15/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.72	--
NS	08/23/02	**856**	469	225	**1,216**	**7,170**	--	--	--	--	--	--	--	--	9.83	--
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	9.17	--
	03/14/03	**1,100**	**3,400**	**1,500**	**11,400**	**76,000**	--	--	--	--	--	--	--	--	6.78	--
	06/05/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.89	--
	09/16/03	**2,700**	**7,000**	**1,800**	**10,800**	**77,000**	--	--	--	--	--	--	--	--	12.19	--
	12/05/03	**41**	39	100	**4,300**	**25,000**	--	--	--	--	--	--	--	--	8.34	--
	03/22/04	**330**	73	75	**1,900**	**19,000**	--	--	--	--	--	--	--	--	8.50	--
	06/03/04	**1900**	**1,600**	650	**7,100**	**54,000**	--	--	--	--	--	--	--	--	9.75	--
	09/22/04	**1,700**	**2,200**	280	**1,290**	**14,000**	--	--	--	--	--	--	--	--	10.53	--
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.08	--
298.29	03/31/05	**3000**	**2,300**	**1,400**	**8,600**	**63,000**	--	--	--	--	--	--	--	--	8.62	289.67
	06/24/05	**3000**	110	**1,200**	470	**12,000**	--	--	--	--	--	--	--	--	7.96	290.33
	09/12/05	**4,200**	**3,300**	**1,800**	**12,000**	**82,000**	--	--	--	--	--	--	--	--	6.20	292.09
	12/06/05	**2,500**	**1,800**	**1,400**	**8,400**	**57,000**	--	--	--	--	--	--	--	--	9.20	289.09
	03/14/06	**1,100**	450	**910**	**6,800**	**45,000**	--	--	--	--	--	--	--	--	7.37	290.92
	06/15/06	**1,800**	120	130	420	**3,900**	--	--	--	--	--	--	--	--	5.23	293.06
	09/13/06	**3,300**	**2,400**	**1,500**	**7,200**	**43,000**	--	--	--	--	--	--	--	--	4.98	293.31
	12/13/06	**37**	2.8	23	90.1	**1,200**	--	--	--	--	--	--	--	--	6.43	291.86
	03/30/07	**1,200**	820	**2,300**	**14,600**	**87,000**	--	--	--	--	--	--	--	--	6.41	291.88
	06/04/07	**1,700**	**1,400**	**1,700**	**10,800**	**40,000**	--	--	--	--	--	--	--	--	8.70	289.59
	09/13/07	**2,200**	**2,000**	**1,700**	**9,900**	**62,000**	--	--	--	--	--	--	--	--	10.71	287.58
	12/26/07	**930**	**1,600**	**1,600**	**9,700**	**55,000**	--	--	--	--	--	--	--	--	7.37	290.92
	03/28/08	**790**	610	**1,900**	**11,200**	**51,000**	--	--	--	--	--	--	--	--	6.47	291.82
	06/25/08	**860**	450	**1,300**	**7,700**	**47,000**	--	--	--	--	--	--	--	--	8.85	289.44
	09/25/08	**2,200**	**1,300**	**1,600**	**8,800**	**59,000**	--	--	--	--	--	--	--	--	10.03	288.26
	01/02/09	**380**	**170**	**1,100**	**5,500**	**39,000**	--	--	--	--	--	--	--	--	7.22	291.07
	03/25/09	**44**	14	190	**1,820**	**14,000**	--	--	--	--	--	--	--	--	7.03	291.26
	06/24/09	**440**	<100	200	**1,460**	**20,000**	--	--	--	--	--	--	--	--	8.79	289.50
	09/30/09	**2,100**	**3,100**	**1,300**	**12,400**	**65,000**	--	--	--	--	--	--	--	--	10.71	287.58
	12/28/09	**11**	<10	16	330	**6,000**	--	--	--	--	--	--	--	--	7.25	291.04
	07/09/10	**150**	36	43	340	**3,400**	--	--	--	--	--	--	--	--	7.96	290.33
	11/01/10	UST Removal														
	02/08/11	**57**	14	25	360	**2,300**	--	--	--	--	--	--	--	--	6.60	291.69
	08/04/11	**110**	55	85	820	**2,800**	--	--	--	--	--	--	--	--	9.12	289.17
	02/06/12	0.81	<0.50	2.2	28	<250	--	--	--	--	--	--	--	--	7.12	291.17
	08/27/12	**160**	11	30	160	**850**	<250	<500	--	--	--	--	--	--	10.04	288.25
288.27	01/09/13	<0.50	<0.50	1.4	27	<250	380	<500	--	--	--	--	--	--	5.52	282.75
	06/06/13	**8.8**	1.2	1.9	11	290	**720**	**740**	--	--	--	--	--	--	7.84	280.43
	08/15/13	**230**	6.9	33	98	**860**	<250	<500	--	--	--	--	<5	--	10.20	278.07
	11/19/13	**7.66**	<1.00	4.19	35.87	533	<50.0	456	--	--	--	--	11.8	--	8.48	279.79
	02/03/14	1.55	<1.00	4.32	19.52	475	126.9[f]	**580**	--	--	--	--	--	--	7.78	280.49
	07/29/14	**397**	13.6	29.8	121.2	**1,500**	--	--	--	--	--	--	--	--	9.53	278.74
	03/03/15	<1.00	<1.00	1.3	5.4	148	235	**841**	--	--	--	--	--	--	6.77	281.50
288.28	09/24/15	**169**	11.2	50.6	121	**1,520**	**574**	438	--	--	--	--	6.20	--	11.69	276.59
	10/03/16	MPE EVENT (CAL CLEAN)														
	12/15/16	**250**	**2,880**	398	**7,270**	**35,200**	**1,360**	**702**	<1.00	**0.475**	<1.00	62.80	--	--	6.92	281.36
	03/24/17	**252**	**1,180**	**958**	**7,140**	**36,900**	**9,600**	<111	<5.00	**0.0280**[i]	**<5.00**	90.90	12.5	--	5.69	282.59
	06/23/17	**221**	**2,110**	**1,460**	**7,260**	**54,300**	**6,820**	107	<1.00	**0.0157**[h]	<1.00	**203.08**	10.1	--	8.07	280.21
	09/20/17	**158**	223	**1,210**	**6,370**	**37,700**	**14,900**	337	<1.00	<0.00614[g]	<1.00	**188.90**	8.74	--	11.22	277.06
	11/20/17	**217**	329	**1,380**	**10,900**	**33,500**	**10,300**	**626**	**<25.0**	<0.0292[g]	**<25.0**	113.40	**114**	--	9.33	278.95
	03/07/18	**460**	211	**2,210**	**13,800**	**53,600**	**10,900**	**746**	<4.25[g]	<0.00621[g]	<5.00[g]	**213.6**	**19.8**	--	7.28	281.00
	04/20/18	**371**	86.1[h]	**2,010**	**12,400**	**60,300**	**9,980**	**587**	<17.0[g]	<0.00602[g]	<20.0	**225.4**	8.88[k]	--	6.26	282.02
	07/17/18	**370**	88.2[h]	**1,910**	**9,210**	**45,700**	**10,100**	302	<100	**0.0203**[i]	<100	**276.6**	9.82	--	10.28	278.00
	10/19/18	**352**	134	**2,460**	**9,620**	**37,700**	**8,620**	**1,060**	--	--	--	**278.2**	**31.1**[k]	--	11.80	276.48
	08/01/19	**462**	26.5	**2,710**	**10,300**	**39,300**	**10,000**	375	--	--	--	**185.4**	<0.0140	--	10.64	277.64
	02/03/20	**262**	23.4	**1,620**	**1,550**	**48,800**	**8,640**	488	<2.00	**<0.0229**	<2.00	51.99	5.94	5.19	5.86	282.42
	08/05/20	**197**	8.61	**1,500**	**1,420**	**22,400**	**4,570**	**<1,670**	<2.00	<0.00795[n]	<2.00	**271.5**	8.63	5.04	9.67	278.61
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000**[b]	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-6	03/15/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	--	--	--	--	6.85	--
NS	08/23/02	<0.5	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	10.24	--
	12/23/02	--	--	--	--	--	--	--	--	--	--	--	--	--	9.53	--
	03/13/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	6.85	--
	06/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	8.94	--
	09/16/03	--	--	--	--	--	--	--	--	--	--	--	--	--	12.55	--
	12/05/03	--	--	--	--	--	--	--	--	--	--	--	--	--	8.71	--
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.80	--
	06/03/04	--	--	--	--	--	--	--	--	--	--	--	--	--	10.05	--
	09/22/04	--	--	--	--	--	--	--	--	--	--	--	--	--	10.95	--
	01/04/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.38	--
298.81	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.91	289.90
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	7.43	291.38
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	6.81	292.00
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.52	289.29
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.55	291.26
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	6.27	292.54
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	6.19	292.62
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	6.97	291.84
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.53	292.28
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	8.90	289.91
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	11.15	287.66
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	7.03	291.78
	06/24/09	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.04	289.77
	09/30/09	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	11.05	287.76
288.80	07/09/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.17	280.63
	08/15/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	6.5	--	12.50	276.30
	11/19/13	--	--	--	--	--	--	--	--	--	--	--	--	--	8.69	280.11
	02/03/14	--	--	--	--	--	--	--	--	--	--	--	--	--	8.10	280.70
	07/29/14	--	--	--	--	--	--	--	--	--	--	--	--	--	9.85	278.95
	03/03/15	--	--	--	--	--	--	--	--	--	--	--	--	--	6.89	291.92
288.81	09/24/15	<1.0	<1.0	<1.0	<3.0	<100	<100	166	--	--	--	--	**21.3**	--	12.10	276.71
	12/15/16	--	--	--	--	--	--	--	--	--	--	--	8.69	--	6.84	281.97
	03/23/17	<1.00	<1.00	<1.00	<3.00	<100	<101	<101	<1.00	<0.00605[g]	<1.00	<0.297	<10.0	--	5.65	283.16
	06/22/17	--	--	--	--	--	--	--	--	--	--	--	--	--	8.22	280.59
	09/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	11.64	277.17
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	9.55	279.26
	03/07/18	<1.00	<1.00	<1.00	<3.00	<100	98.8[h]	468	<1.00	<0.00612[g]	<1.00	<1.155	**75.0**	--	7.37	281.44
	04/20/18	<1.00	<1.00	<1.00	<3.00	<100	<100	69.9[h]	<1.00	<0.00602[g]	<1.00	<0.2886	1.97[h,k]	--	6.25	282.56
	07/17/18	<1.00	<1.00	<1.00	<3.00	<100	<105	71.7[h]	<1.00	<0.00610[g]	<1.00	0.0415[h]	2.76	--	10.66	278.15
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	12.25	276.56
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	11.04	277.77
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	3.69	<0.800	5.80	283.01
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	3.15	<0.800	10.04	278.77
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

TABLE 1
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-7	03/15/02	**8.33**	<2	68.6	215.5	**1,120**	--	--	--	--	--	--	--	--	7.19	--
NS	08/23/02	**5.4**	0.83	100	57.27	**1,330**	--	--	--	--	--	--	--	--	9.62	--
	12/26/02	0.41	<1.0	<1.0	<3.0	68.1	--	--	--	--	--	--	--	--	9.87	--
	03/14/03	1.8	<1.0	14	5.3	310	--	--	--	--	--	--	--	--	7.30	--
	06/05/03	**8.1**	1.2	100	26.1	**1,400**	--	--	--	--	--	--	--	--	9.28	--
	09/16/03	**11**	<1.0	32	3.8	530	--	--	--	--	--	--	--	--	12.76	--
	12/05/03	**5.0**	<1.0	45	10.3	**840**	--	--	--	--	--	--	--	--	9.23	--
	03/22/04	**13**	<5.0	140	30	**1,400**	--	--	--	--	--	--	--	--	9.08	--
	06/03/04	**10**	2.4	180	92	**3,000**	--	--	--	--	--	--	--	--	10.40	--
	09/22/04	**7.0**	2.0	84	11.7	**1,700**	--	--	--	--	--	--	--	--	11.24	--
	01/04/05	**71**	21	**900**	**2,880**	**15,000**	--	--	--	--	--	--	--	--	9.70	--
298.97	03/31/05	**47**	8.9	**750**	**1,520**	**14,000**	--	--	--	--	--	--	--	--	9.21	289.76
	06/24/05	**330**	6.7	140	15	**1,700**	--	--	--	--	--	--	--	--	8.48	290.49
	09/12/05	**19**	7.6	150	91	**4,200**	--	--	--	--	--	--	--	--	7.64	291.33
	12/06/05	**6.2**	<1.0	29	<1.0	**1,200**	--	--	--	--	--	--	--	--	9.88	289.09
	03/14/06	**8.0**	<4.0	110	20	**1,900**	--	--	--	--	--	--	--	--	7.85	291.12
	06/15/06	**790**	46	350	191	**5,000**	--	--	--	--	--	--	--	--	10.11	288.86
	12/13/06	2.6	<1.0	<1.0	8.0	160	--	--	--	--	--	--	--	--	7.11	291.86
	03/30/07	3.3	<1.0	4.6	2.3	720	--	--	--	--	--	--	--	--	6.90	292.07
	06/04/07	2.5	<1.0	2.6	1.3	560	--	--	--	--	--	--	--	--	9.20	289.77
	09/13/07	<4.0	<4.0	<4.0	<8.0	450	--	--	--	--	--	--	--	--	11.35	287.62
	12/26/07	2.8	<1.0	1.4	1.7	460	--	--	--	--	--	--	--	--	7.35	291.62
	03/28/08	2.1	<1.0	<1.0	<2.0	440	--	--	--	--	--	--	--	--	6.98	291.99
	06/25/08	<4.0	<4.0	<4.0	<8.0	<400	--	--	--	--	--	--	--	--	9.33	289.64
	09/25/08	**20**	3.9	280	978	**5,400**	--	--	--	--	--	--	--	--	10.90	288.07
	01/02/09	**8.3**	<1.0	68	192	**2,600**	--	--	--	--	--	--	--	--	7.18	291.79
	03/24/09	3.5	<1.0	5.6	2.7	**870**	--	--	--	--	--	--	--	--	8.02	290.95
	06/24/09	<4.0	<4.0	<4.0	<8.0	790	--	--	--	--	--	--	--	--	9.36	289.61
	12/28/09	<4.0	<4.0	10	7.1	**1,100**	--	--	--	--	--	--	--	--	7.76	291.21
	07/09/10	1.5	<1.0	1.1	<2	**560**	--	--	--	--	--	--	--	--	8.52	290.45
	02/08/11	0.75	<0.50	3.7	0.57	490	--	--	--	--	--	--	--	--	7.03	291.94
	08/05/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	9.41	289.56
	02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	--	--	--	--	7.38	291.59
	08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	--	--	--	--	9.60	289.37
288.97	01/08/13	<0.50	5.80	1.20	<0.50	360	<250	<500	--	--	--	--	--	--	7.25	281.72
	06/06/13	<0.50	0.88	5.6	<0.50	520	<250	<500	--	--	--	--	--	--	8.41	280.56
	02/03/14	--	--	--	--	--	--	--	--	--	--	--	--	--	8.35	280.62
288.98	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	12.29	276.69
	06/23/17	<1.00	1.42	<1.00	<3.00	<100	332	224	<1.00	<0.00612[g]	<1.00	<0.2805	<2.00	--	8.54	280.44
	09/19/17	<1.00	1.32	<1.00	<3.00	<100	**3,080**	**3,170**	<1.00	<0.00616[g]	<1.00	<0.0962	13.1	--	11.39	277.59
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	7.73	281.25
	03/07/18	--	--	--	--	--	--	--	--	--	--	--	--	--	7.67	281.31
	04/20/18	<1.00	<1.00	<1.00	<3.00	<100	133	267	<1.00	<0.00598[g]	<1.00	<0.327	2.61[k]	--	6.27	282.71
	07/17/18	<1.00	10.8	<1.00	<3.00	<100	**728**	**864**	<1.00	<0.00616[g]	<1.00	<0.0391[h]	0.938[h]	--	10.87	278.11
	10/19/18	<1.00	0.240[h]	<1.00	<3.00	<100	369	**1,170**	--	--	--	0.1562[h]	<2.00	--	12.40	276.58
	08/01/19	<0.400	0.677[h]	<1.00	<3.00	<150	427	**954**	--	--	--	--	--	--	11.22	277.76
	02/03/20	--	--	--	--	--	**<2,720**	**10,700**	--	--	--	--	--	--	5.20	283.78
	08/04/20	--	--	--	--	--	253	432	--	--	--	--	--	--	10.21	278.77
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

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GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard, Tukwila, Washington
All results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	MTBE	EDB	EDC	Total Naphthalenes	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-8	03/15/02	<0.5	<1.0	<1.0	<1.0	71.5	--	--	--	--	--	--	--	--	7.25	--
NS	08/23/02	0.926	<1.0	1.69	<2.0	273	--	--	--	--	--	--	--	--	11.27	--
	12/26/02	<0.5	<1.0	<1.0	<3.0	122	--	--	--	--	--	--	--	--	10.98	--
	03/13/03	<1.0	<1.0	<1.0	<2.0	260	--	--	--	--	--	--	--	--	7.92	--
	06/05/03	<1.0	<1.0	<1.0	<2.0	180	--	--	--	--	--	--	--	--	9.68	--
	09/16/03	<1.0	<1.0	<1.0	<2.0	110	--	--	--	--	--	--	--	--	13.86	--
	12/05/03	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	10.02	--
	03/22/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	9.12	--
	06/03/04	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	11.20	--
	09/22/04	<1.0	<1.0	<1.0	<2.0	170	--	--	--	--	--	--	--	--	12.36	--
	01/04/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	10.59	--
300.25	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	10.14	290.11
	06/24/05	--	--	--	--	--	--	--	--	--	--	--	--	--	9.10	291.15
	09/12/05	--	--	--	--	--	--	--	--	--	--	--	--	--	8.10	292.15
	12/06/05	--	--	--	--	--	--	--	--	--	--	--	--	--	11.00	289.25
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.83	292.42
	06/15/06	--	--	--	--	--	--	--	--	--	--	--	--	--	8.14	292.11
	09/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	8.16	292.09
	12/13/06	--	--	--	--	--	--	--	--	--	--	--	--	--	8.68	291.57
	03/30/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.51	293.74
	06/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	9.60	290.65
	09/13/07	--	--	--	--	--	--	--	--	--	--	--	--	--	12.15	288.10
	12/26/07	--	--	--	--	--	--	--	--	--	--	--	--	--	6.97	293.28
	03/24/09	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	7.70	292.55
290.25	07/09/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	--	--	--	8.78	281.47
	02/03/14	--	--	--	--	--	--	--	--	--	--	--	--	--	8.93	281.32
	07/29/14	--	--	--	--	--	--	--	--	--	--	--	--	--	10.58	279.67
	07/29/14	--	--	--	--	--	--	--	--	--	--	--	--	--	10.58	289.67
290.26	09/30/15	--	--	--	--	--	--	--	--	--	--	--	--	--	13.14	277.12
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	10.90	279.36
	10/19/18	<1.00	<1.00	0.254[h]	2.44[h]	<100	**1,870**	**711**	--	--	--	0.4753[h]	0.454[h,k]	--	13.12	277.14
	08/01/19	<0.400	<1.00	<1.00	<3.00	<150	**1,090**	299	--	--	--	0.0641[h]	<0.0140	--	11.61	278.65
	02/03/20	--	--	--	--	--	**1,790**	401	--	--	--	--	--	--	3.83	286.43
	08/05/20	--	--	--	--	--	**965**	**562**	--	--	--	--	--	--	10.51	279.75
DPE-9	06/01/16	<1.00	<1.00	<1.00	<3.00	534	140	<94.3	--	--	--	0.349	<2.00	--	7.66	279.81
287.47	12/14/16	<1.00	<1.00	<1.00	<3.00	<100	125	<100	<1.00	<0.00605[g]	<1.00	<0.312	--	--	5.87	281.60
	03/23/17	<1.00	<1.00	<1.00	<3.00	<100	<102	<102	<1.00	<0.00602[g]	<1.00	<0.303	<2.00	--	1.96	285.51
	06/22/17	<1.00	<1.00	<1.00	<3.00	<100	<100	<100	<1.00	<0.00605[g]	<1.00	<0.300	<2.00	--	6.95	280.52
	09/19/17	<1.00	<1.00	<1.00	<3.00	<100	<96.6	<96.6	<1.00	<0.00612[g]	<1.00	<0.0962	<2.00	--	10.56	276.91
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	8.59	278.88
	03/07/18	<1.00	<1.00	<1.00	<3.00	75.7[h]	31.8[h]	61.7[h]	<1.00	<0.00616[g]	<1.00	<1.155	<2.00	--	6.12	281.35
	04/19/18	--	--	--	--	--	--	--	--	--	--	--	--	--	4.73	282.74
	07/16/18	--	--	--	--	--	--	--	--	--	--	--	--	--	9.41	278.06
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	11.01	276.46
	07/31/19	--	--	--	--	--	--	--	--	--	--	--	--	--	9.80	277.67
	02/03/20	--	--	--	--	--	--	--	--	--	--	--	--	--	1.13	286.34
	08/04/20	--	--	--	--	--	--	--	--	--	--	--	--	--	8.80	278.67
DPE-10	6/1/16	4.20	12.8	9.60	74.4	572	120	<95.2	--	--	--	0.104	<2.00	--	6.24	281.55
287.79	12/14/16	**7.01**	1.24	1.21	26.3	318	<98.0	<98.0	<1.00	<0.00602[g]	<1.00	0.213	--	--	6.04	281.75
	03/23/17	<1.00	<1.00	<1.00	<3.00	<100	<102	<102	<1.00	<0.0603[g]	<1.00	<0.309	<2.00	--	2.12	285.67
	06/22/17	<1.00	<1.00	<1.00	<3.00	<100	<96.2	<96.2	<1.00	<0.00607[g]	<1.00	<0.294	<2.00	--	5.83	281.96
	09/20/17	4.15	<1.00	<1.00	<3.00	<100	112	<95.7	<1.00	<0.00609[g]	<1.00	<0.0962	<2.00	--	10.88	276.91
	11/20/17	--	--	--	--	--	--	--	--	--	--	--	--	--	6.50	281.29
	03/07/18	<1.00	<1.00	<1.00	<3.00	<100	<105	58.1[h]	<1.00	<0.00600[g]	<1.00	<1.155	<2.00	--	5.13	282.66
	04/20/18	<1.00	<1.00	<1.00	<3.00	<100	<101	79.6[h]	<1.00	<0.00595[g]	<1.00	<0.2886	0.176[h,k]	--	4.61	283.18
	07/17/18	**8.76**	0.191[h]	0.558[h]	0.582[h]	84.6[h]	<109	73.4[h]	<1.00	<0.00609[g]	<1.00	<0.1313[h]	**42.2**	--	9.64	278.15
	10/18/18	--	--	--	--	--	--	--	--	--	--	--	--	--	11.32	276.47
	08/01/19	<0.400	<1.00	<1.00	0.475[h]	<150	246	**1,110**	--	--	--	--	--	--	10.20	277.59
	02/03/20	<3.00	<2.00	<3.00	<3.00	--	--	--	--	--	--	--	<0.800	<0.800	1.35	286.44
	08/05/20	**5.80**	<2.00	4.06	<3.00	--	--	--	--	--	--	--	<0.800	<0.800	7.90	279.89
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**500**	**500**	**20**	**0.01**	**5**	**160**	**15**			

Explanation of Abbreviations:

TOC	= Top of casing
TPH-G	= total petroleum hydrocarbons as gasoline
MTCA	= Model Toxics Control Act
MTBE	= Methyl tert-butyl ether
EDB	= Ethylene dibromide
EDC	=1,2-dichloroethane
Total Naphthalenes	= Includes naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene
<	= less than the laboratory practical quantitation limit
--	= not sampled, not measured or not analyzed
NS	= not surveyed

Notes:

Bold values exceed the MTCA Method A Cleanup Level

[a] dissolved lead

[b] The TPH-G cleanup level is reduced from 1,000 µg/L to 800 µg/L if benzene is present in the sample

[c] Method blank contamination (1-17-01)

[d] Light-end hydrocarbons outside the defined gasoline range are present in sample (MW-1B on 9-16-03)

[e] Higher boiling hydrocarbons present, atypical for Diesel Range Organics

[ve] Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

[f] Indicates the presence of unresolved compounds eluting from dodecane through tetracosane (C12-C24). Combined DPE/SVE remediation system operations commenced on February 25, 1998.

[g] Indicates the Method Detection Limit is reported since the laboratory reporting limit exceeded the MTCA Method A screening level. The anlayte was not detected above the Method Detection Limit.

[h] Result is less than the reporting limit but greater than or equal to the method detection limit. The reported concentration is an approximate value.

[i] The relative percent difference between the primarary and confirmation detector is greater than 40 percent. The lower value has been reported.

[j] Sample was prepped or analyzed beyond the specified holding time.

[k] Compound was found in the blank and sample.

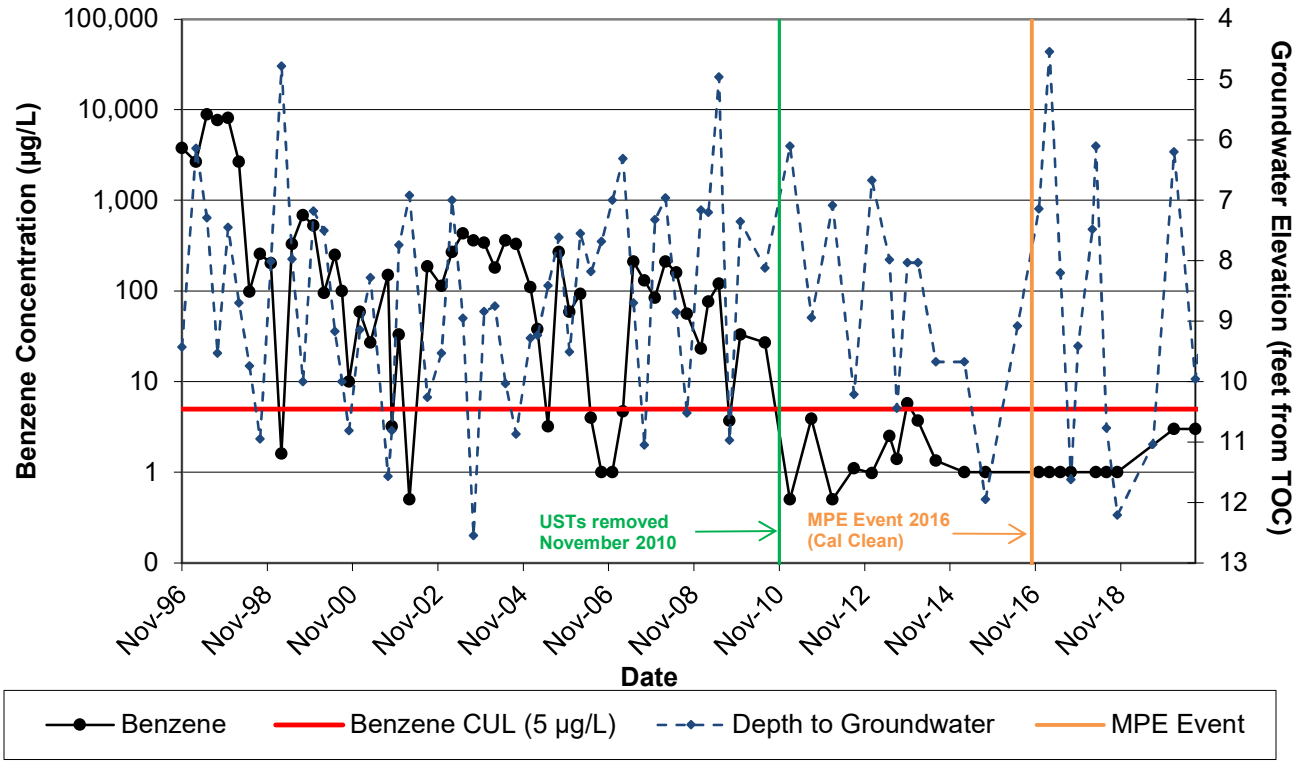
[l] The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

[m] RPD of the LCS and LCSD exceeds the control limits.

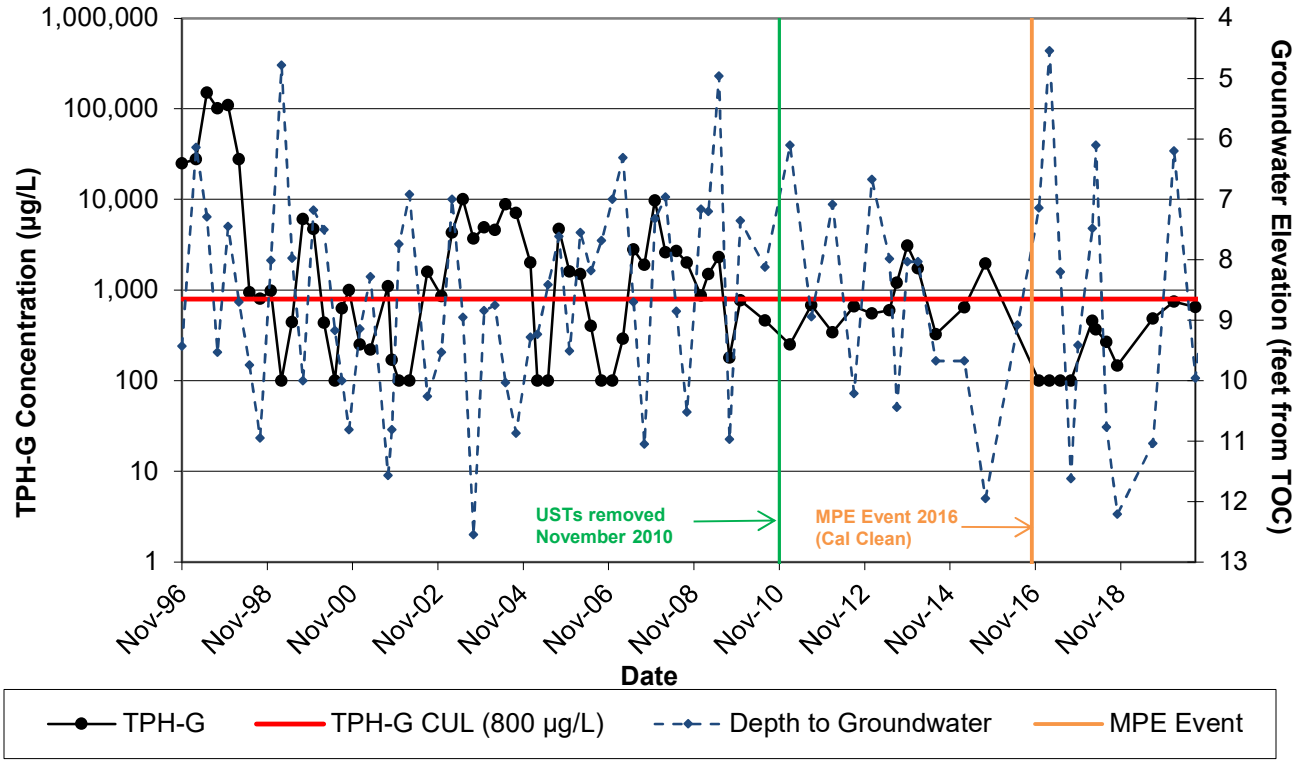
[n] LCS or LCSD is outside acceptance limits.

GRAPHS

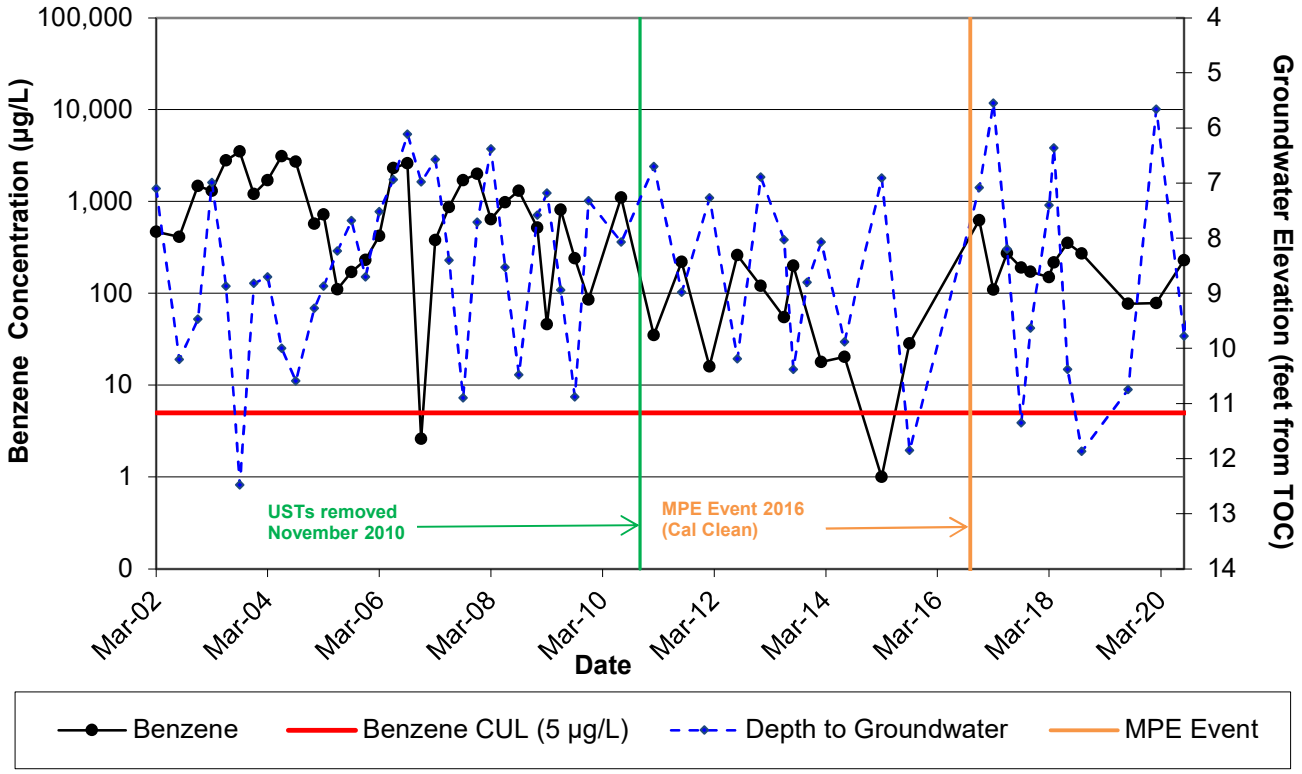
Graph 1
MW-5B Dissolved Benzene Concentration vs. Time
7-Eleven Store No. 22866



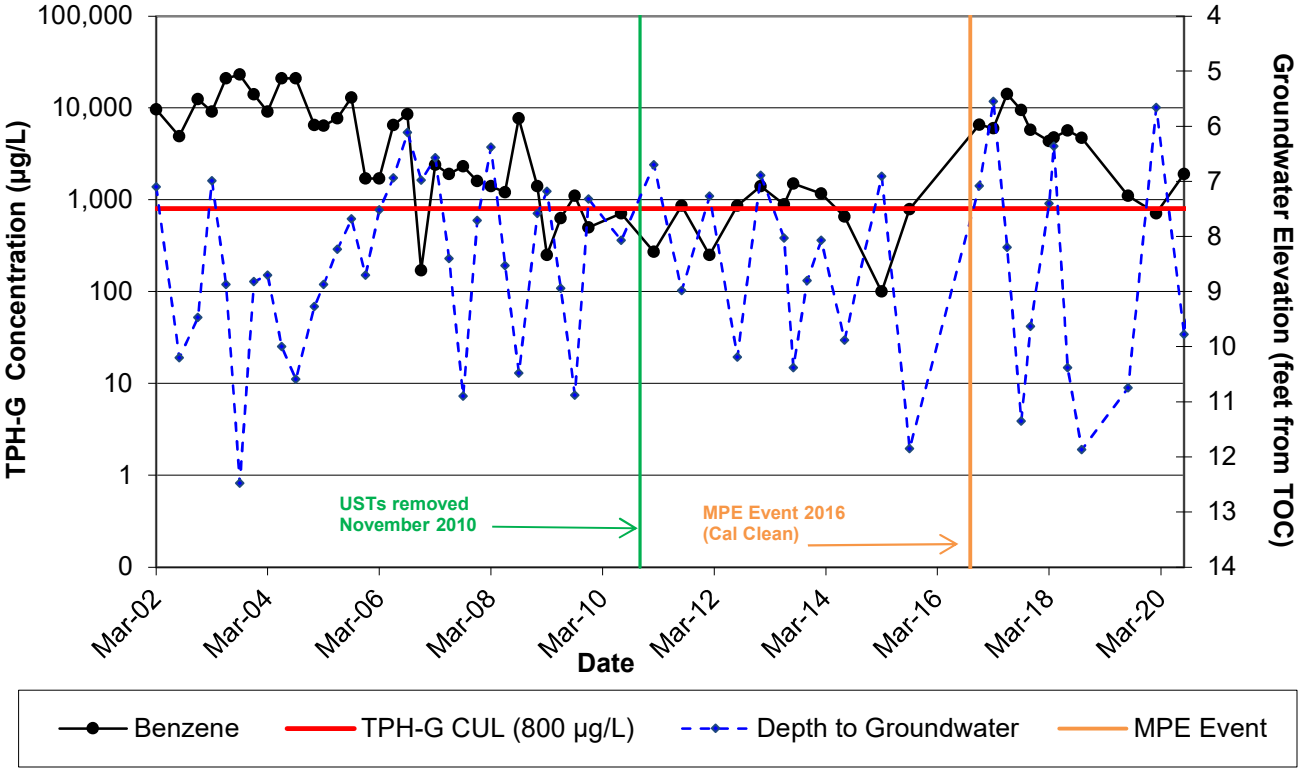
Graph 2
MW-5B Dissolved TPH-G Concentration vs. Time
7-Eleven Store No. 22866



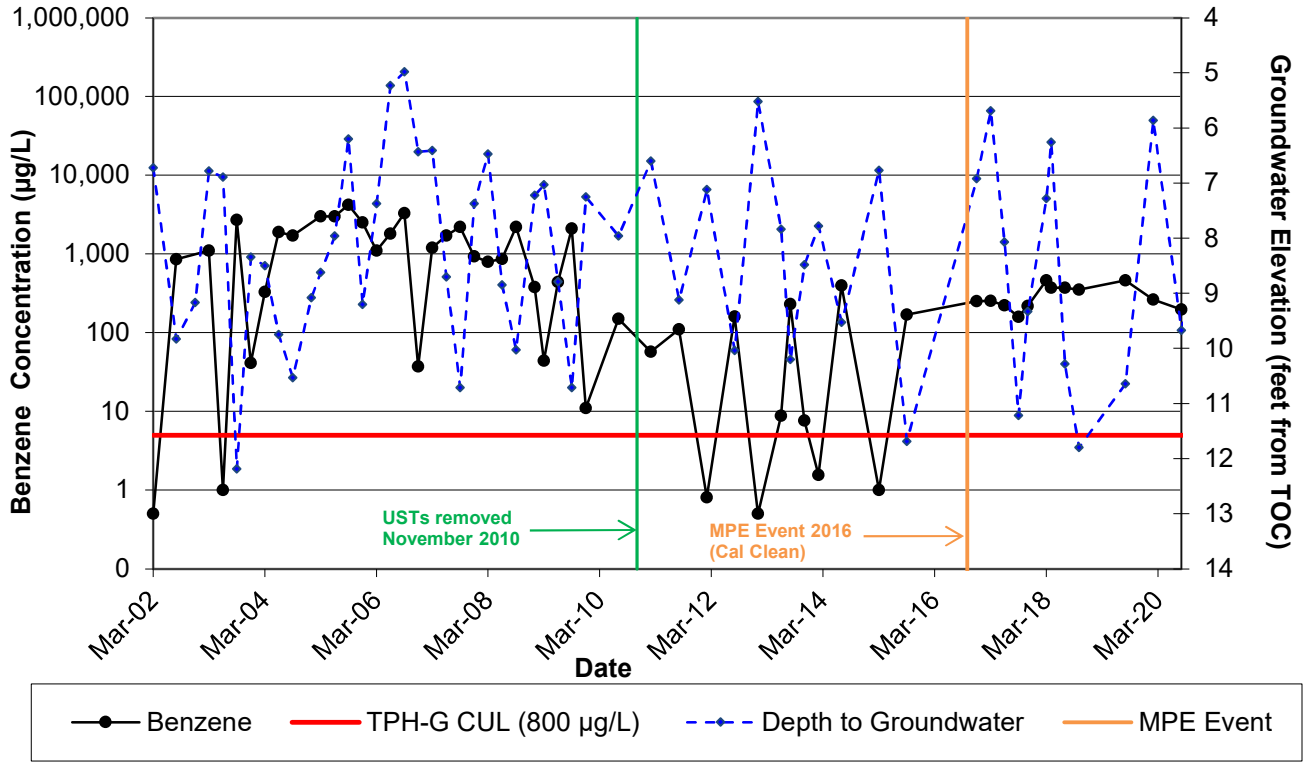
Graph 3
DPE-4 Dissolved Benzene Concentration vs. Time
7-Eleven Store No. 22866



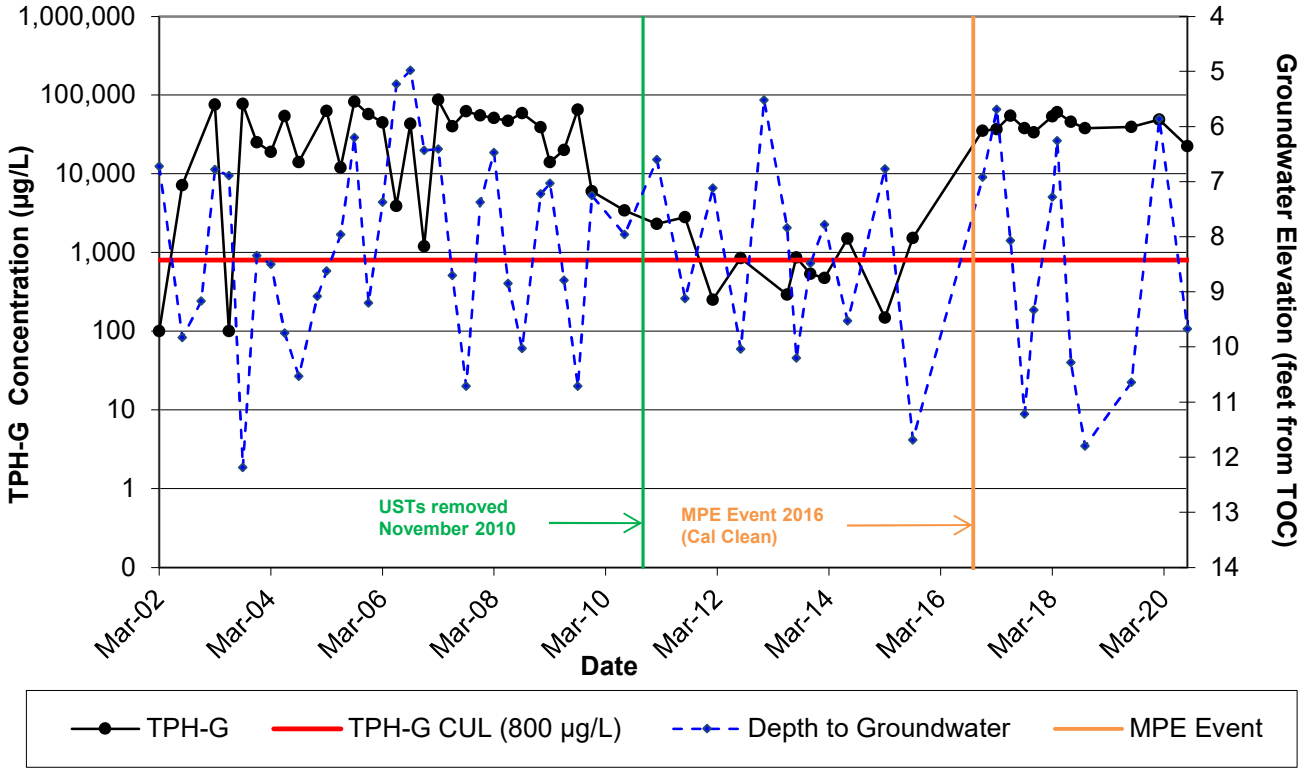
Graph 4
DPE-4 Dissolved TPH-G Concentration vs. Time
7-Eleven Store No. 22866



Graph 5
DPE-5 Dissolved Benzene Concentration vs. Time
7-Eleven Store No. 22866

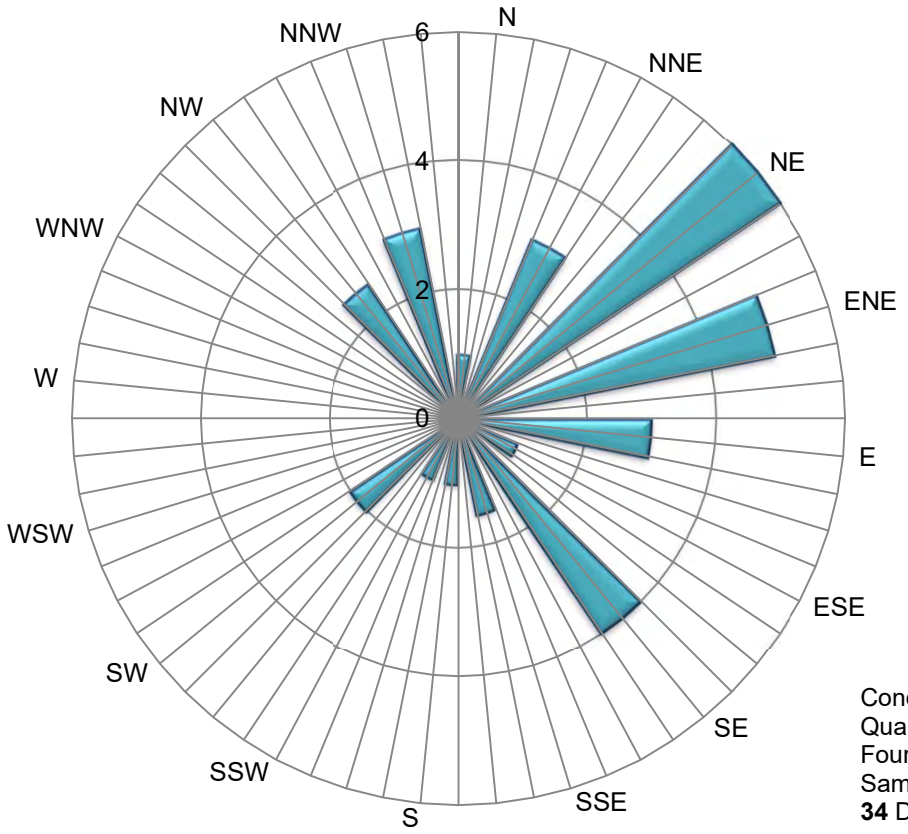


Graph 6
DPE-5 Dissolved TPH-G Concentration vs. Time
7-Eleven Store No. 22866



Graph 7
Groundwater Flow Direction Rose Diagram

7-Eleven Store No. 22866
Tukwila, Washington



Concentric Circles represent
Quarterly Montoring Events
Fourth Quarter 2002 through Current
Sampling Event
34 Data Points Shown

Groundwater Flow Direction

ATTACHMENT A

Laboratory Analytical Reports and Chain-of-Custody Documentation

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-11529-1
Client Project/Site: 3Q19 GWM 22866

For:
Stantec Consulting Corp.
11130 NE 33rd Place
Suite 200
Bellevue, Washington 98004-1465

Attn: Paul Fairbairn

Authorized for release by:
8/16/2019 6:11:39 PM

Jimmy Huckaba, Project Manager I
(615)301-5746
jimmy.huckaba@testamericainc.com

Table of Contents

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Job ID: 590-11529-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Job Narrative
590-11529-1

Comments
No additional comments.

Receipt
The samples were received on 8/2/2019 11:14 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.5º C, 4.1º C and 5.0º C.

GC/MS VOA
Method(s) NWTPH-Gx: The continuing calibration verification (CCV) associated with batch 590-23422 recovered above the upper control limit for Gasoline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCV 590-23422/15).

Method(s) NWTPH-Gx: The continuing calibration verification (CCV) associated with batch 590-23474 recovered above the upper control limit for Gasoline. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DPE-7 (590-11529-6), DPE-8 (590-11529-7) and DPE-10 (590-11529-8).

Method(s) NWTPH-Gx: The following samples exceeded the calibration: DPE-5 (590-11529-5) and (590-11529-F-5 DU). Results are flagged as estimates.

Method(s) 8260C: The following samples exceeded the calibration: (590-11529-F-5 DU). Results are flagged as estimates.

Method(s) 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 590-23492 recovered outside control limits for the following analytes: Benzene. Data will be flagged and reported as the recoveries were within acceptance limits.

Method(s) 8260C: The sample duplicate precision for the following sample associated with analytical batch 590-23475 was outside control limits: (590-11529-C-4 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to diesel as well as gasoline overlap. MW-5B (590-11529-1), DPE-4 (590-11529-4) and DPE-5 (590-11529-5)

Method(s) NWTPH-Dx: Detected hydrocarbons appear to be due to biogenic interference. MW-10 (590-11529-2)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to oil overlap. DPE-3 (590-11529-3) and DPE-10 (590-11529-8)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel as well as oil overlap. DPE-7 (590-11529-6)

Method(s) NWTPH-Dx: Detected hydrocarbons in the diesel range appear to be due to heavily weathered diesel. DPE-8 (590-11529-7)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 590-11529-1 (Continued)

Laboratory: Eurofins TestAmerica, Spokane (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-11529-1	MW-5B	Water	08/01/19 08:51	08/02/19 11:14	
590-11529-2	MW-10	Water	08/01/19 09:28	08/02/19 11:14	
590-11529-3	DPE-3	Water	08/01/19 12:59	08/02/19 11:14	
590-11529-4	DPE-4	Water	08/01/19 12:20	08/02/19 11:14	
590-11529-5	DPE-5	Water	08/01/19 10:53	08/02/19 11:14	
590-11529-6	DPE-7	Water	08/01/19 11:41	08/02/19 11:14	
590-11529-7	DPE-8	Water	08/01/19 10:16	08/02/19 11:14	
590-11529-8	DPE-10	Water	08/01/19 08:00	08/02/19 11:14	

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
E	Result exceeded calibration range.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: MW-5B

Date Collected: 08/01/19 08:51
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.221	J	0.400	0.0930	ug/L			08/06/19 20:38	1
Ethylbenzene	0.510	J	1.00	0.198	ug/L			08/06/19 20:38	1
Toluene	0.931	J	1.00	0.312	ug/L			08/06/19 20:38	1
Xylenes, Total	0.888	J	3.00	0.442	ug/L			08/06/19 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*08/06/19 20:38*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/06/19 20:38*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/06/19 20:38*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/06/19 20:38*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	482		150	70.4	ug/L			08/06/19 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*68.7 - 141*		*08/06/19 20:38*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	596		60.7	27.8	ug/L		08/06/19 08:47	08/06/19 15:10	1
Residual Range Organics (RRO) (C25-C36)	0.153		0.101	0.0303	mg/L		08/06/19 08:47	08/06/19 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*101*		*50 - 150*	*08/06/19 08:47*	*08/06/19 15:10*	*1*
n-Triacontane-d62	*97*		*50 - 150*	*08/06/19 08:47*	*08/06/19 15:10*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: MW-10

Date Collected: 08/01/19 09:28
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/06/19 21:00	1
Ethylbenzene	**0.625**	**J**	1.00	0.198	ug/L			08/06/19 21:00	1
Toluene	ND		1.00	0.312	ug/L			08/06/19 21:00	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/06/19 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*08/06/19 21:00*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*08/06/19 21:00*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/06/19 21:00*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/06/19 21:00*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/06/19 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*		*08/06/19 21:00*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**77.7**		60.2	27.6	ug/L		08/06/19 08:47	08/06/19 15:31	1
Residual Range Organics (RRO) (C25-C36)	**0.0443**	**J**	0.100	0.0301	mg/L		08/06/19 08:47	08/06/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*94*		*50 - 150*	*08/06/19 08:47*	*08/06/19 15:31*	*1*
n-Triacontane-d62	*88*		*50 - 150*	*08/06/19 08:47*	*08/06/19 15:31*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: DPE-3

Date Collected: 08/01/19 12:59
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.131**	**J**	0.400	0.0930	ug/L			08/06/19 21:22	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/06/19 21:22	1
Toluene	ND		1.00	0.312	ug/L			08/06/19 21:22	1
Xylenes, Total	**0.501**	**J**	3.00	0.442	ug/L			08/06/19 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/06/19 21:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/06/19 21:22*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/06/19 21:22*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/06/19 21:22*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/06/19 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*08/06/19 21:22*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**308**		60.4	27.7	ug/L		08/06/19 08:47	08/06/19 15:52	1
Residual Range Organics (RRO) (C25-C36)	**0.936**		0.101	0.0302	mg/L		08/06/19 08:47	08/06/19 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*99*		*50 - 150*	*08/06/19 08:47*	*08/06/19 15:52*	*1*
n-Triacontane-d62	*105*		*50 - 150*	*08/06/19 08:47*	*08/06/19 15:52*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: DPE-4
Date Collected: 08/01/19 12:20
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	77.0		0.400	0.0930	ug/L			08/08/19 16:19	1
Ethylbenzene	43.3		1.00	0.198	ug/L			08/08/19 16:19	1
Toluene	4.27		1.00	0.312	ug/L			08/08/19 16:19	1
Xylenes, Total	23.2		3.00	0.442	ug/L			08/08/19 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/08/19 16:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/08/19 16:19*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*08/08/19 16:19*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/08/19 16:19*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1100		150	70.4	ug/L			08/13/19 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*68.7 - 141*		*08/13/19 13:45*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	1210		60.1	27.6	ug/L		08/06/19 08:47	08/06/19 16:13	1
Residual Range Organics (RRO) (C25-C36)	0.473		0.100	0.0301	mg/L		08/06/19 08:47	08/06/19 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*50 - 150*	*08/06/19 08:47*	*08/06/19 16:13*	*1*
n-Triacontane-d62	*99*		*50 - 150*	*08/06/19 08:47*	*08/06/19 16:13*	*1*

Client Sample ID: DPE-5

Date Collected: 08/01/19 10:53
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	462	*	40.0	9.30	ug/L			08/09/19 16:53	100
Ethylbenzene	2710		100	19.8	ug/L			08/09/19 16:53	100
Toluene	26.5		1.00	0.312	ug/L			08/08/19 17:03	1
Xylenes, Total	10300		300	44.2	ug/L			08/09/19 16:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*08/08/19 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*08/09/19 16:53*	*100*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*08/08/19 17:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/09/19 16:53*	*100*
Dibromofluoromethane (Surr)	*87*		*80 - 120*		*08/08/19 17:03*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/09/19 16:53*	*100*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/08/19 17:03*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/09/19 16:53*	*100*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	39300		15000	7040	ug/L			08/09/19 16:53	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*68.7 - 141*		*08/09/19 16:53*	*100*
4-Bromofluorobenzene (Surr)	*97*		*68.7 - 141*		*08/13/19 14:30*	*100*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	130		0.856	0.504	ug/L		08/02/19 16:43	08/03/19 21:50	10
2-Methylnaphthalene	34.9		0.856	0.419	ug/L		08/02/19 16:43	08/03/19 21:50	10
1-Methylnaphthalene	20.5		0.856	0.219	ug/L		08/02/19 16:43	08/03/19 21:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*44*		*36 - 126*	*08/02/19 16:43*	*08/03/19 21:50*	*10*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	10000		60.8	27.9	ug/L		08/06/19 08:47	08/06/19 16:33	1
Residual Range Organics (RRO) (C25-C36)	0.375		0.101	0.0304	mg/L		08/06/19 08:47	08/06/19 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*50 - 150*	*08/06/19 08:47*	*08/06/19 16:33*	*1*
n-Triacontane-d62	*105*		*50 - 150*	*08/06/19 08:47*	*08/06/19 16:33*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0140	0.00510	mg/L		08/05/19 08:42	08/13/19 13:39	1

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: DPE-7

Date Collected: 08/01/19 11:41
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/12/19 14:31	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/12/19 14:31	1
Toluene	**0.677**	**J**	1.00	0.312	ug/L			08/12/19 14:31	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/12/19 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*08/12/19 14:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/12/19 14:31*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*08/12/19 14:31*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*08/12/19 14:31*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/08/19 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*68.7 - 141*		*08/08/19 17:48*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**427**		60.9	27.9	ug/L		08/06/19 08:47	08/06/19 16:54	1
Residual Range Organics (RRO) (C25-C36)	**0.954**		0.101	0.0304	mg/L		08/06/19 08:47	08/06/19 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*103*		*50 - 150*	*08/06/19 08:47*	*08/06/19 16:54*	*1*
n-Triacontane-d62	*112*		*50 - 150*	*08/06/19 08:47*	*08/06/19 16:54*	*1*

Client Sample ID: DPE-8

Date Collected: 08/01/19 10:16
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/08/19 18:55	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/08/19 18:55	1
Toluene	ND		1.00	0.312	ug/L			08/08/19 18:55	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/08/19 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*08/08/19 18:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*08/08/19 18:55*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*08/08/19 18:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/08/19 18:55*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/08/19 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*68.7 - 141*		*08/08/19 18:55*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.0641**	**J**	0.0953	0.0561	ug/L		08/02/19 16:43	08/03/19 14:44	1
2-Methylnaphthalene	ND		0.0953	0.0466	ug/L		08/02/19 16:43	08/03/19 14:44	1
1-Methylnaphthalene	ND		0.0953	0.0244	ug/L		08/02/19 16:43	08/03/19 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*75*		*36 - 126*	*08/02/19 16:43*	*08/03/19 14:44*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**1090**		60.1	27.6	ug/L		08/06/19 08:47	08/06/19 17:15	1
Residual Range Organics (RRO) (C25-C36)	**0.299**		0.100	0.0301	mg/L		08/06/19 08:47	08/06/19 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*122*		*50 - 150*	*08/06/19 08:47*	*08/06/19 17:15*	*1*
n-Triacontane-d62	*108*		*50 - 150*	*08/06/19 08:47*	*08/06/19 17:15*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0140	0.00510	mg/L		08/05/19 08:42	08/13/19 13:43	1

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: DPE-10

Date Collected: 08/01/19 08:00
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/08/19 19:18	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/08/19 19:18	1
Toluene	ND		1.00	0.312	ug/L			08/08/19 19:18	1
Xylenes, Total	**0.475**	**J**	3.00	0.442	ug/L			08/08/19 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*08/08/19 19:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/08/19 19:18*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/08/19 19:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/08/19 19:18*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/08/19 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*68.7 - 141*		*08/08/19 19:18*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	**246**		60.5	27.7	ug/L		08/06/19 08:47	08/06/19 17:55	1
Residual Range Organics (RRO) (C25-C36)	**1.11**		0.101	0.0302	mg/L		08/06/19 08:47	08/06/19 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*96*		*50 - 150*	*08/06/19 08:47*	*08/06/19 17:55*	*1*
n-Triacontane-d62	*102*		*50 - 150*	*08/06/19 08:47*	*08/06/19 17:55*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-23423/5
Matrix: Water
Analysis Batch: 23423

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/06/19 11:13	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/06/19 11:13	1
Toluene	ND		1.00	0.312	ug/L			08/06/19 11:13	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/06/19 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*08/06/19 11:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*08/06/19 11:13*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/06/19 11:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/06/19 11:13*	*1*

Lab Sample ID: LCS 590-23423/1003
Matrix: Water
Analysis Batch: 23423

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	10.50		ug/L		105	80 - 126		
Ethylbenzene			10.0	10.33		ug/L		103	80 - 120		
Toluene			10.0	10.29		ug/L		103	80 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 590-23423/6
Matrix: Water
Analysis Batch: 23423

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	10.20		ug/L		102	80 - 126	3	25
Ethylbenzene			10.0	9.994		ug/L		100	80 - 120	3	25
Toluene			10.0	10.11		ug/L		101	80 - 123	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 590-23475/5
Matrix: Water
Analysis Batch: 23475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/08/19 11:33	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/08/19 11:33	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 590-23475/5
Matrix: Water
Analysis Batch: 23475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.00	0.312	ug/L			08/08/19 11:33	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/08/19 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*08/08/19 11:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/08/19 11:33*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*08/08/19 11:33*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*08/08/19 11:33*	*1*

Lab Sample ID: LCS 590-23475/1003
Matrix: Water
Analysis Batch: 23475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	10.16		ug/L		102	80 - 126		
Ethylbenzene			10.0	9.886		ug/L		99	80 - 120		
Toluene			10.0	9.961		ug/L		100	80 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 590-23475/6
Matrix: Water
Analysis Batch: 23475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	9.179		ug/L		92	80 - 126	10	25
Ethylbenzene			10.0	9.152		ug/L		92	80 - 120	8	25
Toluene			10.0	9.050		ug/L		91	80 - 123	10	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 590-11529-C-6 MS
Matrix: Water
Analysis Batch: 23475

Client Sample ID: 590-11529-C-6 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.131	J	10.0	11.17		ug/L		110	80 - 126		
Ethylbenzene	0.702	J	10.0	9.974		ug/L		93	80 - 120		
Toluene	0.760	J	10.0	10.49		ug/L		97	80 - 123		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-11529-C-6 MS
Matrix: Water
Analysis Batch: 23475

Client Sample ID: 590-11529-C-6 MS
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 590-11529-C-6 MSD
Matrix: Water
Analysis Batch: 23475

Client Sample ID: 590-11529-C-6 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.131	J	10.0	10.81		ug/L		107	80 - 126	3	25
Ethylbenzene	0.702	J	10.0	10.23		ug/L		95	80 - 120	3	25
Toluene	0.760	J	10.0	10.43		ug/L		97	80 - 123	1	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*92*		*80 - 120*

Lab Sample ID: 590-11529-4 DU
Matrix: Water
Analysis Batch: 23475

Client Sample ID: DPE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	77.0			57.09	F3	ug/L				30	20
Ethylbenzene	43.3			31.85	F3	ug/L				30	20
Toluene	4.27			3.046	F3	ug/L				34	20
Xylenes, Total	23.2			16.65	F3	ug/L				33	20

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 590-11529-5 DU
Matrix: Water
Analysis Batch: 23475

Client Sample ID: DPE-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	343	E		306.7	E	ug/L				11	20
Ethylbenzene	1900	E		1608	E	ug/L				16	20
Toluene	26.5			23.78		ug/L				11	20
Xylenes, Total	4840			4153		ug/L				15	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 590-11529-5 DU
Matrix: Water
Analysis Batch: 23475

Client Sample ID: DPE-5
Prep Type: Total/NA

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*
4-Bromofluorobenzene (Surr)	*118*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 590-23492/22
Matrix: Water
Analysis Batch: 23492

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/09/19 15:03	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/09/19 15:03	1
Toluene	ND		1.00	0.312	ug/L			08/09/19 15:03	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/09/19 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*08/09/19 15:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*08/09/19 15:03*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/09/19 15:03*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/09/19 15:03*	*1*

Lab Sample ID: LCS 590-23492/1003
Matrix: Water
Analysis Batch: 23492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.456		ug/L		95	80 - 126
Ethylbenzene	10.0	9.640		ug/L		96	80 - 120
Toluene	10.0	9.470		ug/L		95	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 590-23492/6
Matrix: Water
Analysis Batch: 23492

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	10.0	12.25	*	ug/L		123	80 - 126	26	25
Ethylbenzene	10.0	12.05		ug/L		120	80 - 120	22	25
Toluene	10.0	11.80		ug/L		118	80 - 123	22	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 590-23492/6
Matrix: Water
Analysis Batch: 23492

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	97		80 - 120
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: 590-11529-5 DU
Matrix: Water
Analysis Batch: 23492

Client Sample ID: DPE-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	462	*		444.6	*	ug/L				4	20
Ethylbenzene	2710			2319		ug/L				16	20
Toluene	44.3	J		31.85	J F5	ug/L				33	20
Xylenes, Total	10300			9276		ug/L				11	20

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	93		80 - 120

Lab Sample ID: MB 590-23521/5
Matrix: Water
Analysis Batch: 23521

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/12/19 13:01	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/12/19 13:01	1
Toluene	ND		1.00	0.312	ug/L			08/12/19 13:01	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/12/19 13:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		08/12/19 13:01	1
4-Bromofluorobenzene (Surr)	98		80 - 120		08/12/19 13:01	1
Dibromofluoromethane (Surr)	97		80 - 120		08/12/19 13:01	1
Toluene-d8 (Surr)	99		80 - 120		08/12/19 13:01	1

Lab Sample ID: LCS 590-23521/1003
Matrix: Water
Analysis Batch: 23521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	10.63		ug/L		106	80 - 126		
Ethylbenzene			10.0	9.891		ug/L		99	80 - 120		
Toluene			10.0	10.13		ug/L		101	80 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-23521/1003
Matrix: Water
Analysis Batch: 23521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 590-23521/6
Matrix: Water
Analysis Batch: 23521

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	10.45		ug/L		104	80 - 126	2	25
Ethylbenzene			10.0	10.30		ug/L		103	80 - 120	4	25
Toluene			10.0	10.22		ug/L		102	80 - 123	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 590-23535/5
Matrix: Water
Analysis Batch: 23535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.400	0.0930	ug/L			08/13/19 11:08	1
Ethylbenzene	ND		1.00	0.198	ug/L			08/13/19 11:08	1
Toluene	ND		1.00	0.312	ug/L			08/13/19 11:08	1
Xylenes, Total	ND		3.00	0.442	ug/L			08/13/19 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*08/13/19 11:08*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*08/13/19 11:08*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*08/13/19 11:08*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*08/13/19 11:08*	*1*

Lab Sample ID: LCS 590-23535/1003
Matrix: Water
Analysis Batch: 23535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene			10.0	11.20		ug/L		112	80 - 126
Ethylbenzene			10.0	10.51		ug/L		105	80 - 120
Toluene			10.0	10.62		ug/L		106	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 590-23535/1003
Matrix: Water
Analysis Batch: 23535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 590-23535/6
Matrix: Water
Analysis Batch: 23535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	10.04		ug/L		100	80 - 126	11	25
Ethylbenzene			10.0	9.902		ug/L		99	80 - 120	6	25
Toluene			10.0	9.564		ug/L		96	80 - 123	10	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 590-11529-4 DU
Matrix: Water
Analysis Batch: 23535

Client Sample ID: DPE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Benzene	53.6			55.12		ug/L				3	20
Ethylbenzene	30.0			28.66		ug/L				4	20
Toluene	2.79			2.742		ug/L				2	20
Xylenes, Total	15.7			14.76		ug/L				6	20

Surrogate	DU %Recovery	DU Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-23422/5
Matrix: Water
Analysis Batch: 23422

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/06/19 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*102*		*68.7 - 141*		*08/06/19 11:13*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-23422/1004
Matrix: Water
Analysis Batch: 23422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	1196		ug/L		120	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*68.7 - 141*

Lab Sample ID: MB 590-23474/5
Matrix: Water
Analysis Batch: 23474

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/08/19 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*		*08/08/19 11:33*	*1*

Lab Sample ID: LCS 590-23474/1004
Matrix: Water
Analysis Batch: 23474

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	912.1		ug/L		91	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*68.7 - 141*

Lab Sample ID: LCSD 590-23474/1015
Matrix: Water
Analysis Batch: 23474

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			1000	1052		ug/L		105	80 - 120	14	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*68.7 - 141*

Lab Sample ID: 590-11529-F-5 DU
Matrix: Water
Analysis Batch: 23474

Client Sample ID: 590-11529-F-5 DU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline	27100	E		22080	E	ug/L				20	35

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*68.7 - 141*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: MB 590-23491/22
Matrix: Water
Analysis Batch: 23491

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/09/19 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*68.7 - 141*		*08/09/19 15:03*	*1*

Lab Sample ID: LCS 590-23491/1023
Matrix: Water
Analysis Batch: 23491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	923.8		ug/L		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*68.7 - 141*

Lab Sample ID: LCSD 590-23491/1018
Matrix: Water
Analysis Batch: 23491

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline			1000	826.5		ug/L		83	80 - 120	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*68.7 - 141*

Lab Sample ID: 590-11529-5 DU
Matrix: Water
Analysis Batch: 23491

Client Sample ID: DPE-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline	39300			36000		ug/L				9	35

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*68.7 - 141*

Lab Sample ID: MB 590-23534/38
Matrix: Water
Analysis Batch: 23534

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		150	70.4	ug/L			08/13/19 17:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*68.7 - 141*		*08/13/19 17:55*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) (Continued)

Lab Sample ID: LCS 590-23534/1033
Matrix: Water
Analysis Batch: 23534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline			1000	981.7		ug/L		98	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*68.7 - 141*

Lab Sample ID: 590-11529-4 DU
Matrix: Water
Analysis Batch: 23534

Client Sample ID: DPE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Gasoline	1100			1033		ug/L				7	35

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*68.7 - 141*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-23362/1-A
Matrix: Water
Analysis Batch: 23383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.0900	0.0530	ug/L		08/02/19 13:00	08/03/19 11:38	1
2-Methylnaphthalene	ND		0.0900	0.0440	ug/L		08/02/19 13:00	08/03/19 11:38	1
1-Methylnaphthalene	ND		0.0900	0.0230	ug/L		08/02/19 13:00	08/03/19 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*84*		*36 - 126*	*08/02/19 13:00*	*08/03/19 11:38*	*1*

Lab Sample ID: LCS 590-23362/2-A
Matrix: Water
Analysis Batch: 23383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23362

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			1.60	1.134		ug/L		71	52 - 120		
2-Methylnaphthalene			1.60	1.103		ug/L		69	44 - 120		
1-Methylnaphthalene			1.60	1.107		ug/L		69	49 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*91*		*36 - 126*

Lab Sample ID: LCSD 590-23362/3-A
Matrix: Water
Analysis Batch: 23383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23362

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Naphthalene			1.60	1.126		ug/L		70	52 - 120	1	30
2-Methylnaphthalene			1.60	1.100		ug/L		69	44 - 120	0	35

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 590-23362/3-A
Matrix: Water
Analysis Batch: 23383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23362

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene			1.60	1.112		ug/L		70	49 - 120	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*91*		*36 - 126*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-23420/1-A
Matrix: Water
Analysis Batch: 23421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		60.0	27.5	ug/L		08/06/19 08:47	08/06/19 10:23	1
Residual Range Organics (RRO) (C25-C36)	ND		0.100	0.0300	mg/L		08/06/19 08:47	08/06/19 10:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*93*		*50 - 150*	*08/06/19 08:47*	*08/06/19 10:23*	*1*
n-Triacontane-d62	*82*		*50 - 150*	*08/06/19 08:47*	*08/06/19 10:23*	*1*

Lab Sample ID: LCS 590-23420/2-A
Matrix: Water
Analysis Batch: 23421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23420

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (DRO) (C10-C25)			400	355.0		ug/L		89	50 - 150
Residual Range Organics (RRO) (C25-C36)			0.400	0.4281		mg/L		107	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*101*		*50 - 150*
n-Triacontane-d62	*104*		*50 - 150*

Lab Sample ID: LCSD 590-23420/3-A
Matrix: Water
Analysis Batch: 23421

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 23420

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (DRO) (C10-C25)			400	329.6		ug/L		82	50 - 150	7	25
Residual Range Organics (RRO) (C25-C36)			0.400	0.4082		mg/L		102	50 - 150	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*96*		*50 - 150*
n-Triacontane-d62	*103*		*50 - 150*

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 590-23390/2-A
Matrix: Water
Analysis Batch: 23455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 23390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0140	0.00510	mg/L		08/05/19 08:39	08/06/19 19:28	1

Lab Sample ID: LCS 590-23390/1-A
Matrix: Water
Analysis Batch: 23455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 23390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.079		mg/L		108	85 - 115

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: MW-5B
Date Collected: 08/01/19 08:51
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23423	08/06/19 20:38	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	23422	08/06/19 20:38	MRS	TAL SPK
Total/NA	Prep	3510C			989.2 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 15:10	NMI	TAL SPK

Client Sample ID: MW-10
Date Collected: 08/01/19 09:28
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23423	08/06/19 21:00	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	23422	08/06/19 21:00	MRS	TAL SPK
Total/NA	Prep	3510C			996.7 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 15:31	NMI	TAL SPK

Client Sample ID: DPE-3
Date Collected: 08/01/19 12:59
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23423	08/06/19 21:22	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	23422	08/06/19 21:22	MRS	TAL SPK
Total/NA	Prep	3510C			994.1 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 15:52	NMI	TAL SPK

Client Sample ID: DPE-4
Date Collected: 08/01/19 12:20
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23475	08/08/19 16:19	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	23534	08/13/19 13:45	JSP	TAL SPK
Total/NA	Prep	3510C			997.8 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 16:13	NMI	TAL SPK

Client Sample ID: DPE-5
Date Collected: 08/01/19 10:53
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23475	08/08/19 17:03	MRS	TAL SPK
Total/NA	Analysis	8260C		100	43 mL	43 mL	23492	08/09/19 16:53	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		100	43 mL	43 mL	23491	08/09/19 16:53	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		100	43 mL	43 mL	23534	08/13/19 14:30	JSP	TAL SPK

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Client Sample ID: DPE-5
Date Collected: 08/01/19 10:53
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			262.8 mL	2 mL	23362	08/02/19 16:43	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		10			23383	08/03/19 21:50	NMI	TAL SPK
Total/NA	Prep	3510C			986.9 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 16:33	NMI	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	23390	08/05/19 08:42	SJK	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			23549	08/13/19 13:39	SJK	TAL SPK

Client Sample ID: DPE-7
Date Collected: 08/01/19 11:41
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23521	08/12/19 14:31	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	23474	08/08/19 17:48	MRS	TAL SPK
Total/NA	Prep	3510C			985.5 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 16:54	NMI	TAL SPK

Client Sample ID: DPE-8
Date Collected: 08/01/19 10:16
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23475	08/08/19 18:55	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	23474	08/08/19 18:55	MRS	TAL SPK
Total/NA	Prep	3510C			236 mL	2 mL	23362	08/02/19 16:43	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1			23383	08/03/19 14:44	NMI	TAL SPK
Total/NA	Prep	3510C			997.8 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 17:15	NMI	TAL SPK
Total/NA	Prep	200.7			50 mL	50 mL	23390	08/05/19 08:42	SJK	TAL SPK
Total/NA	Analysis	200.7 Rev 4.4		1			23549	08/13/19 13:43	SJK	TAL SPK

Client Sample ID: DPE-10
Date Collected: 08/01/19 08:00
Date Received: 08/02/19 11:14

Lab Sample ID: 590-11529-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	43 mL	43 mL	23475	08/08/19 19:18	MRS	TAL SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	23474	08/08/19 19:18	MRS	TAL SPK
Total/NA	Prep	3510C			991.8 mL	2 mL	23420	08/06/19 08:47	CWD	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			23421	08/06/19 17:55	NMI	TAL SPK

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Laboratory: Eurofins TestAmerica, Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State		17-025	12-07-19
Alaska (UST)	State Program	10	17-025	12-07-19
Oregon	NELAP	10	4137	12-07-19
Oregon	NELAP		4137	12-07-19
Washington	State		C569	01-06-20
Washington	State Program	10	C569	01-06-20

Laboratory: Eurofins TestAmerica, Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Washington	State Program	10	C789	07-19-20

Method Summary

Client: Stantec Consulting Corp.
Project/Site: 3Q19 GWM 22866

Job ID: 590-11529-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	TAL SPK
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
200.7 Rev 4.4	Metals (ICP)	EPA	TAL SPK
200.7	Preparation, Total Metals	EPA	TAL SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SPK
5030C	Purge and Trap	SW846	TAL SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

TestAmerica ~~Nashville~~ Spokane
~~Nashville, TN 37204~~ Spokane, WA
Phone (~~615) 726-0177~~ Fax (~~615) 726-3404~~

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/16/2019

Client Information	Sampler: Brian Schoenneman	Lab PM: Leah Klingensmith	Carrier Tracking No(s):	COC No:
Client Contact: Paul Fairbairn	Phone: 916-213-3205	E-Mail: Leah.Klingensmith@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Corp.				Job #: Store No. 22866

Address: 11130 NE 33rd Place Suite 200	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Bellevue	TAT Requested (days): Standard		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: WA, 98004-1465			
Phone: 425-298-1000(Tel)	PO #: Purchase Order Requested		
Email: paul.fairbairn@stantec.com	WO #: 794191		
Project Name: 3Q19 GWM 22866	Project #: 185703896		
Site: 22866 Tukwila	SSOW#:		Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH-Gx	NWTPH-Dx	BTEX (8260)	Total Lead (200.8)	Naphthalene, 1-Methyl Naphthalene, 2-Methyl Naphthalene (8270)	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-5B	8-1-19	0851	G	W			X	X	X				
MW-10	8-1-19	0928	G	W			X	X	X				
DPE-3	8-1-19	1259	G	W			X	X	X				
DPE-4	8-1-19	1220	G	W			X	X	X				
DPE-5	8-1-19	1053	G	W			X	X	X	X	X		
DPE-7	8-1-19	1141	G	W			X	X	X				
DPE-8	8-1-19	1016	G	W			X	X	X	X	X		
DPE-10	8-1-19	0800	G	W			X	X	X				

590-11529 Chain of Custody

Page 31 of 32

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brian Schoenneman	8/1/19 1900	Stantec	Maria Goode	8/2/19 11:14	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 590-11529-1

Login Number: 11529
List Number: 1
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	995084 997596 997597
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-92637-1
Laboratory Sample Delivery Group: 185703896
Client Project/Site: 1Q20 GWM 22866

For:
Stantec Consulting Corp.
11130 NE 33rd Place
Suite 200
Bellevue, Washington 98004-1465

Attn: Paul Fairbairn

Authorized for release by:
2/21/2020 7:00:03 PM
Lauren Evans, Project Management Assistant I
(615)301-5034
lauren.evans@testamericainc.com

Designee for

Andy Johnson, Manager of Project Management
(615)301-5045
andy.johnson@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 580-92637-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-92637-1

Comments
No additional comments.

Receipt
The samples were received on 2/4/2020 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 580-322387 recovered outside acceptance criteria, low biased, for Methyl tert-butyl ether and 1,2,4-Trichlorobenzene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: DPE-5 (580-92637-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D SIM: Surrogate recovery for the following sample was outside control limits: DPE-4 (580-92637-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D SIM: The following sample was diluted due to the nature of the sample matrix: DPE-4 (580-92637-4).

Method 8270D SIM: The following sample was diluted to bring the concentration of target analytes within the calibration range: DPE-5 (580-92637-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-5B (580-92637-1), MW-10 (580-92637-2), DPE-3 (580-92637-3), DPE-4 (580-92637-4), DPE-5 (580-92637-5), DPE-7 (580-92637-7) and DPE-8 (580-92637-8).

Method NWTPH-Dx: The following samples were diluted to bring the concentration of target analytes within the calibration range: DPE-3 (580-92637-3) and DPE-7 (580-92637-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: The following samples formed emulsions during the extraction procedure: DPE-3 (580-92637-3), DPE-4 (580-92637-4) and DPE-7 (580-92637-7). The emulsions were broken up using sodium sulfate and rinsed with DCM.

Method 8011: The following sample formed emulsions during the extraction procedure: DPE-4 (580-92637-4). The emulsions were broken up using the centrifuge.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 580-92637-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: MW-5B

Date Collected: 02/03/20 14:58
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			02/10/20 20:31	1
Toluene	ND		2.00		ug/L			02/10/20 20:31	1
Ethylbenzene	ND		3.00		ug/L			02/10/20 20:31	1
Xylenes, Total	ND		3.00		ug/L			02/10/20 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 126*		*02/10/20 20:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*02/10/20 20:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/10/20 20:31*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/10/20 20:31*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/10/20 20:31*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	**744**		250		ug/L			02/11/20 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*		*50 - 150*		*02/11/20 23:46*	*1*
Trifluorotoluene (Surr)	*94*		*50 - 150*		*02/11/20 23:46*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**1120**		108		ug/L		02/17/20 16:16	02/18/20 16:21	1
Motor Oil (>C24-C36)	**374**		343		ug/L		02/17/20 16:16	02/18/20 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*50 - 150*	*02/17/20 16:16*	*02/18/20 16:21*	*1*

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: MW-10

Date Collected: 02/04/20 12:12
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			02/10/20 20:56	1
Toluene	ND		2.00		ug/L			02/10/20 20:56	1
Ethylbenzene	ND		3.00		ug/L			02/10/20 20:56	1
Xylenes, Total	ND		3.00		ug/L			02/10/20 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*		*02/10/20 20:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/10/20 20:56*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/10/20 20:56*	*1*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/10/20 20:56*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*02/10/20 20:56*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		250		ug/L			02/12/20 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*50 - 150*		*02/12/20 00:10*	*1*
Trifluorotoluene (Surr)	*92*		*50 - 150*		*02/12/20 00:10*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**107**		106		ug/L		02/17/20 16:16	02/18/20 16:41	1
Motor Oil (>C24-C36)	ND		339		ug/L		02/17/20 16:16	02/18/20 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*02/17/20 16:16*	*02/18/20 16:41*	*1*

Client Sample ID: DPE-3

Date Collected: 02/04/20 09:12
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			02/10/20 21:20	1
Toluene	ND		2.00		ug/L			02/10/20 21:20	1
Ethylbenzene	ND		3.00		ug/L			02/10/20 21:20	1
Xylenes, Total	ND		3.00		ug/L			02/10/20 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*		*02/10/20 21:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/10/20 21:20*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/10/20 21:20*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/10/20 21:20*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*02/10/20 21:20*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		250		ug/L			02/12/20 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*50 - 150*		*02/12/20 00:34*	*1*
Trifluorotoluene (Surr)	*85*		*50 - 150*		*02/12/20 00:34*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**12100**		5350		ug/L		02/17/20 16:16	02/18/20 17:01	50
Motor Oil (>C24-C36)	**71800**		17000		ug/L		02/17/20 16:16	02/18/20 17:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*113*		*50 - 150*	*02/17/20 16:16*	*02/18/20 17:01*	*50*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**194**		0.800		ug/L		02/10/20 08:13	02/10/20 23:49	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.800		ug/L		02/11/20 08:07	02/12/20 14:08	1

Client Sample ID: DPE-4

Date Collected: 02/04/20 10:15
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**78.2**		3.00		ug/L			02/10/20 21:45	1
Toluene	**4.26**		2.00		ug/L			02/10/20 21:45	1
Ethylbenzene	**49.1**		3.00		ug/L			02/10/20 21:45	1
Xylenes, Total	**41.2**		3.00		ug/L			02/10/20 21:45	1
Methyl tert-butyl ether	ND		2.00		ug/L			02/10/20 21:45	1
EDC	ND		2.00		ug/L			02/10/20 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 126*		*02/10/20 21:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/10/20 21:45*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/10/20 21:45*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*02/10/20 21:45*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/10/20 21:45*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2.26**		1.98		ug/L		02/10/20 12:10	02/11/20 15:33	10
Naphthalene	**2.36**		0.990		ug/L		02/10/20 12:10	02/11/20 15:33	10
1-Methylnaphthalene	**3.14**		0.990		ug/L		02/10/20 12:10	02/11/20 15:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*43*	*X*	*53 - 120*	*02/10/20 12:10*	*02/11/20 15:33*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	**709**		250		ug/L			02/12/20 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*50 - 150*		*02/12/20 02:35*	*1*
Trifluorotoluene (Surr)	*66*		*50 - 150*		*02/12/20 02:35*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0228		ug/L		02/18/20 10:37	02/20/20 19:01	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**2230**		107		ug/L		02/17/20 16:16	02/18/20 17:21	1
Motor Oil (>C24-C36)	**4690**		342		ug/L		02/17/20 16:16	02/18/20 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*76*		*50 - 150*	*02/17/20 16:16*	*02/18/20 17:21*	*1*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**20.0**		0.800		ug/L		02/10/20 07:54	02/11/20 00:50	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.20**		0.800		ug/L		02/11/20 08:07	02/12/20 14:11	1

Client Sample ID: DPE-5

Date Collected: 02/04/20 11:11
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**23.4**		2.00		ug/L			02/10/20 22:10	1
Xylenes, Total	**1550**		3.00		ug/L			02/10/20 22:10	1
Methyl tert-butyl ether	ND		2.00		ug/L			02/10/20 22:10	1
EDC	ND		2.00		ug/L			02/10/20 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 126*		*02/10/20 22:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*02/10/20 22:10*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/10/20 22:10*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/10/20 22:10*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/10/20 22:10*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**262**		150		ug/L			02/13/20 18:27	50
Ethylbenzene	**1620**		150		ug/L			02/13/20 18:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 126*		*02/13/20 18:27*	*50*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*02/13/20 18:27*	*50*
Toluene-d8 (Surr)	*99*		*80 - 120*		*02/13/20 18:27*	*50*
Trifluorotoluene (Surr)	*101*		*80 - 120*		*02/13/20 18:27*	*50*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*02/13/20 18:27*	*50*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**25.1**		0.190		ug/L		02/10/20 12:10	02/11/20 15:58	1
1-Methylnaphthalene	**23.1**		0.0951		ug/L		02/10/20 12:10	02/11/20 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*76*		*53 - 120*	*02/10/20 12:10*	*02/11/20 15:58*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3.79**		0.951		ug/L		02/10/20 12:10	02/12/20 15:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*82*		*53 - 120*	*02/10/20 12:10*	*02/12/20 15:02*	*10*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	**48800**		2500		ug/L			02/14/20 13:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*50 - 150*		*02/14/20 13:17*	*10*
Trifluorotoluene (Surr)	*111*		*50 - 150*		*02/14/20 13:17*	*10*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0229		ug/L		02/18/20 10:37	02/20/20 19:17	1

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: DPE-5

Date Collected: 02/04/20 11:11
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-5

Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	8640		111		ug/L		02/17/20 16:16	02/18/20 17:41	1
Motor Oil (>C24-C36)	488		354		ug/L		02/17/20 16:16	02/18/20 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*78*		*50 - 150*	*02/17/20 16:16*	*02/18/20 17:41*	*1*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.94		0.800		ug/L		02/10/20 08:13	02/10/20 23:51	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.19		0.800		ug/L		02/11/20 08:07	02/12/20 14:14	1

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: DPE-6

Date Collected: 02/03/20 13:05
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-6

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.69**		0.800		ug/L		02/10/20 08:13	02/10/20 23:54	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.800		ug/L		02/11/20 08:07	02/12/20 14:17	1

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: DPE-7
Date Collected: 02/03/20 14:14
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-7
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		2720		ug/L		02/17/20 16:16	02/18/20 18:01	25
Motor Oil (>C24-C36)	**10700**		8660		ug/L		02/17/20 16:16	02/18/20 18:01	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*121*		*50 - 150*	*02/17/20 16:16*	*02/18/20 18:01*	*25*

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: DPE-8
Date Collected: 02/04/20 12:58
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-8
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1790		110		ug/L		02/17/20 16:16	02/18/20 18:22	1
Motor Oil (>C24-C36)	401		350		ug/L		02/17/20 16:16	02/18/20 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*50 - 150*	*02/17/20 16:16*	*02/18/20 18:22*	*1*

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: DPE-10

Date Collected: 02/04/20 08:30
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			02/10/20 22:35	1
Toluene	ND		2.00		ug/L			02/10/20 22:35	1
Ethylbenzene	ND		3.00		ug/L			02/10/20 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 126*		*02/10/20 22:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/10/20 22:35*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/10/20 22:35*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 120*		*02/10/20 22:35*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/10/20 22:35*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		3.00		ug/L			02/13/20 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 126*		*02/13/20 18:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*02/13/20 18:00*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*02/13/20 18:00*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*02/13/20 18:00*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/13/20 18:00*	*1*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.800		ug/L		02/10/20 08:13	02/10/20 23:57	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.800		ug/L		02/11/20 08:07	02/12/20 14:19	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-322387/9
Matrix: Water
Analysis Batch: 322387

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			02/10/20 17:16	1
Toluene	ND		2.00		ug/L			02/10/20 17:16	1
Ethylbenzene	ND		3.00		ug/L			02/10/20 17:16	1
Methyl tert-butyl ether	ND		2.00		ug/L			02/10/20 17:16	1
Xylenes, Total	ND		3.00		ug/L			02/10/20 17:16	1
EDC	ND		2.00		ug/L			02/10/20 17:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 126*		*02/10/20 17:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*02/10/20 17:16*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/10/20 17:16*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 120*		*02/10/20 17:16*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/10/20 17:16*	*1*

Lab Sample ID: LCS 580-322387/4
Matrix: Water
Analysis Batch: 322387

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	10.54		ug/L		105	75 - 121		
Toluene			10.0	10.71		ug/L		107	80 - 120		
Ethylbenzene			10.0	10.59		ug/L		106	80 - 120		
Methyl tert-butyl ether			10.0	9.291		ug/L		93	72 - 130		
Xylenes, Total			20.0	20.84		ug/L		104	80 - 120		
EDC			10.0	9.885		ug/L		99	76 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 126*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-322387/5
Matrix: Water
Analysis Batch: 322387

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	9.619		ug/L		96	75 - 121	9	14
Toluene			10.0	9.709		ug/L		97	80 - 120	10	19
Ethylbenzene			10.0	9.746		ug/L		97	80 - 120	8	14
Methyl tert-butyl ether			10.0	8.274		ug/L		83	72 - 130	12	18
Xylenes, Total			20.0	19.25		ug/L		96	80 - 120	8	16
EDC			10.0	9.156		ug/L		92	76 - 131	8	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 126*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-322387/5
Matrix: Water
Analysis Batch: 322387

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*
Trifluorotoluene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 580-322660/7
Matrix: Water
Analysis Batch: 322660

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			02/13/20 16:39	1
Toluene	ND		2.00		ug/L			02/13/20 16:39	1
Ethylbenzene	ND		3.00		ug/L			02/13/20 16:39	1
Methyl tert-butyl ether	ND		2.00		ug/L			02/13/20 16:39	1
Xylenes, Total	ND		3.00		ug/L			02/13/20 16:39	1
EDC	ND		2.00		ug/L			02/13/20 16:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 126*		*02/13/20 16:39*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/13/20 16:39*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/13/20 16:39*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 120*		*02/13/20 16:39*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/13/20 16:39*	*1*

Lab Sample ID: LCS 580-322660/4
Matrix: Water
Analysis Batch: 322660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	9.588		ug/L		96	75 - 121
Toluene	10.0	9.877		ug/L		99	80 - 120
Ethylbenzene	10.0	10.02		ug/L		100	80 - 120
Methyl tert-butyl ether	10.0	9.428		ug/L		94	72 - 130
Xylenes, Total	20.0	20.14		ug/L		101	80 - 120
EDC	10.0	9.347		ug/L		93	76 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 126*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
Trifluorotoluene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-322660/5
Matrix: Water
Analysis Batch: 322660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	9.198		ug/L		92	75 - 121	4	14
Toluene			10.0	9.577		ug/L		96	80 - 120	3	19
Ethylbenzene			10.0	9.843		ug/L		98	80 - 120	2	14
Methyl tert-butyl ether			10.0	8.920		ug/L		89	72 - 130	6	18
Xylenes, Total			20.0	19.51		ug/L		98	80 - 120	3	16
EDC			10.0	9.062		ug/L		91	76 - 131	3	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*
Trifluorotoluene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-322366/1-A
Matrix: Water
Analysis Batch: 322443

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.200		ug/L		02/10/20 12:10	02/11/20 11:53	1
Naphthalene	ND		0.100		ug/L		02/10/20 12:10	02/11/20 11:53	1
1-Methylnaphthalene	ND		0.100		ug/L		02/10/20 12:10	02/11/20 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*87*		*53 - 120*	*02/10/20 12:10*	*02/11/20 11:53*	*1*

Lab Sample ID: LCS 580-322366/2-A
Matrix: Water
Analysis Batch: 322443

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322366

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene			4.00	3.567		ug/L		89	33 - 120
Naphthalene			4.00	3.530		ug/L		88	36 - 120
1-Methylnaphthalene			4.00	3.508		ug/L		88	35 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*94*		*53 - 120*

Lab Sample ID: LCSD 580-322366/3-A
Matrix: Water
Analysis Batch: 322443

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322366

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene			4.00	3.580		ug/L		89	33 - 120	0	30
Naphthalene			4.00	3.522		ug/L		88	36 - 120	0	27
1-Methylnaphthalene			4.00	3.573		ug/L		89	35 - 120	2	34

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14	*96*		*53 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-322505/15
Matrix: Water
Analysis Batch: 322505

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		250		ug/L			02/11/20 18:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*111*		*50 - 150*		*02/11/20 18:09*	*1*
Trifluorotoluene (Surr)	*101*		*50 - 150*		*02/11/20 18:09*	*1*

Lab Sample ID: LCS 580-322505/16
Matrix: Water
Analysis Batch: 322505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics - NWTPH-G			1000	954.6		ug/L		95	79 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*109*		*50 - 150*
Trifluorotoluene (Surr)	*93*		*50 - 150*

Lab Sample ID: LCSD 580-322505/17
Matrix: Water
Analysis Batch: 322505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics - NWTPH-G			1000	1026		ug/L		103	79 - 120	7	10

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*115*		*50 - 150*
Trifluorotoluene (Surr)	*106*		*50 - 150*

Lab Sample ID: MB 580-322821/5
Matrix: Water
Analysis Batch: 322821

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		250		ug/L			02/14/20 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*02/14/20 11:40*	*1*
Trifluorotoluene (Surr)	*105*		*50 - 150*		*02/14/20 11:40*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-322821/6
Matrix: Water
Analysis Batch: 322821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics - NWTPH-G			1000	979.6		ug/L		98	79 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*50 - 150*
Trifluorotoluene (Surr)	*97*		*50 - 150*

Lab Sample ID: LCSD 580-322821/7
Matrix: Water
Analysis Batch: 322821

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics - NWTPH-G			1000	962.6		ug/L		96	79 - 120	2	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*50 - 150*
Trifluorotoluene (Surr)	*108*		*50 - 150*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 590-26454/3-A
Matrix: Water
Analysis Batch: 26455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.0229		ug/L		02/18/20 10:37	02/20/20 16:50	1

Lab Sample ID: LCS 590-26454/4-A
Matrix: Water
Analysis Batch: 26455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26454

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			0.0571	0.05466		ug/L		96	60 - 140		

Lab Sample ID: LCSD 590-26454/5-A
Matrix: Water
Analysis Batch: 26455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.0571	0.05147		ug/L		90	60 - 140	6	20

Lab Sample ID: LLCS 590-26454/6-A
Matrix: Water
Analysis Batch: 26455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 26454

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			0.0114	0.01566	J	ug/L		137	60 - 150		

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-322981/1-A
Matrix: Water
Analysis Batch: 323090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		110		ug/L		02/17/20 16:15	02/18/20 12:19	1
Motor Oil (>C24-C36)	ND		350		ug/L		02/17/20 16:15	02/18/20 12:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*92*		*50 - 150*	*02/17/20 16:15*	*02/18/20 12:19*	*1*

Lab Sample ID: LCS 580-322981/2-A
Matrix: Water
Analysis Batch: 323090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (C10-C24)	2000	1628		ug/L		81	50 - 120
Motor Oil (>C24-C36)	2000	1796		ug/L		90	64 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*84*		*50 - 150*

Lab Sample ID: LCSD 580-322981/3-A
Matrix: Water
Analysis Batch: 323090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)	2000	1667		ug/L		83	50 - 120	2	26
Motor Oil (>C24-C36)	2000	1835		ug/L		92	64 - 120	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*77*		*50 - 150*

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-322321/14-A
Matrix: Water
Analysis Batch: 322415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.800		ug/L		02/10/20 07:54	02/11/20 00:15	1

Lab Sample ID: LCS 580-322321/15-A
Matrix: Water
Analysis Batch: 322415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1000	979.8		ug/L		98	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 580-322321/16-A
Matrix: Water
Analysis Batch: 322415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322321

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	973.0		ug/L		97	85 - 115	1	20

Lab Sample ID: MB 580-322323/14-A
Matrix: Water
Analysis Batch: 322415

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.800		ug/L		02/10/20 08:13	02/10/20 23:08	1

Lab Sample ID: LCS 580-322323/15-A
Matrix: Water
Analysis Batch: 322415

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322323

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1000	963.6		ug/L		96	85 - 115		

Lab Sample ID: LCSD 580-322323/16-A
Matrix: Water
Analysis Batch: 322415

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322323

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	963.8		ug/L		96	85 - 115	0	20

Lab Sample ID: MB 580-322417/13-A
Matrix: Water
Analysis Batch: 322640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 322417

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.800		ug/L		02/11/20 08:07	02/12/20 13:25	1

Lab Sample ID: LCS 580-322417/14-A
Matrix: Water
Analysis Batch: 322640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 322417

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1000	1043		ug/L		104	85 - 115		

Lab Sample ID: LCSD 580-322417/15-A
Matrix: Water
Analysis Batch: 322640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 322417

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1000	1007		ug/L		101	85 - 115	3	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: MW-5B
Date Collected: 02/03/20 14:58
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322387	02/10/20 20:31	CJ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	322505	02/11/20 23:46	PRO	TAL SEA
Total/NA	Prep	3510C			322981	02/17/20 16:16	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	323090	02/18/20 16:21	CJ	TAL SEA

Client Sample ID: MW-10
Date Collected: 02/04/20 12:12
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322387	02/10/20 20:56	CJ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	322505	02/12/20 00:10	PRO	TAL SEA
Total/NA	Prep	3510C			322981	02/17/20 16:16	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	323090	02/18/20 16:41	CJ	TAL SEA

Client Sample ID: DPE-3
Date Collected: 02/04/20 09:12
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322387	02/10/20 21:20	CJ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	322505	02/12/20 00:34	PRO	TAL SEA
Total/NA	Prep	3510C			322981	02/17/20 16:16	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		50	323090	02/18/20 17:01	CJ	TAL SEA
Dissolved	Prep	200.8			322417	02/11/20 08:07	A1B	TAL SEA
Dissolved	Analysis	200.8		1	322640	02/12/20 14:08	FCW	TAL SEA
Total/NA	Prep	200.8			322323	02/10/20 08:13	A1B	TAL SEA
Total/NA	Analysis	200.8		1	322415	02/10/20 23:49	FCW	TAL SEA

Client Sample ID: DPE-4
Date Collected: 02/04/20 10:15
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322387	02/10/20 21:45	CJ	TAL SEA
Total/NA	Prep	3510C			322366	02/10/20 12:10	T1L	TAL SEA
Total/NA	Analysis	8270D SIM		10	322443	02/11/20 15:33	CJ	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	322505	02/12/20 02:35	PRO	TAL SEA
Total/NA	Prep	8011			26454	02/18/20 10:37	NMI	TAL SPK
Total/NA	Analysis	8011		1	26455	02/20/20 19:01	NMI	TAL SPK
Total/NA	Prep	3510C			322981	02/17/20 16:16	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	323090	02/18/20 17:21	CJ	TAL SEA
Dissolved	Prep	200.8			322417	02/11/20 08:07	A1B	TAL SEA
Dissolved	Analysis	200.8		1	322640	02/12/20 14:11	FCW	TAL SEA

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: DPE-4
Date Collected: 02/04/20 10:15
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			322321	02/10/20 07:54	A1B	TAL SEA
Total/NA	Analysis	200.8		1	322415	02/11/20 00:50	FCW	TAL SEA

Client Sample ID: DPE-5
Date Collected: 02/04/20 11:11
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322387	02/10/20 22:10	CJ	TAL SEA
Total/NA	Analysis	8260C	DL	50	322660	02/13/20 18:27	W1T	TAL SEA
Total/NA	Prep	3510C			322366	02/10/20 12:10	T1L	TAL SEA
Total/NA	Analysis	8270D SIM		1	322443	02/11/20 15:58	CJ	TAL SEA
Total/NA	Prep	3510C	DL		322366	02/10/20 12:10	T1L	TAL SEA
Total/NA	Analysis	8270D SIM	DL	10	322538	02/12/20 15:02	E1L	TAL SEA
Total/NA	Analysis	NWTPH-Gx		10	322821	02/14/20 13:17	PRO	TAL SEA
Total/NA	Prep	8011			26454	02/18/20 10:37	NMI	TAL SPK
Total/NA	Analysis	8011		1	26455	02/20/20 19:17	NMI	TAL SPK
Total/NA	Prep	3510C			322981	02/17/20 16:16	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	323090	02/18/20 17:41	CJ	TAL SEA
Dissolved	Prep	200.8			322417	02/11/20 08:07	A1B	TAL SEA
Dissolved	Analysis	200.8		1	322640	02/12/20 14:14	FCW	TAL SEA
Total/NA	Prep	200.8			322323	02/10/20 08:13	A1B	TAL SEA
Total/NA	Analysis	200.8		1	322415	02/10/20 23:51	FCW	TAL SEA

Client Sample ID: DPE-6
Date Collected: 02/03/20 13:05
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			322417	02/11/20 08:07	A1B	TAL SEA
Dissolved	Analysis	200.8		1	322640	02/12/20 14:17	FCW	TAL SEA
Total/NA	Prep	200.8			322323	02/10/20 08:13	A1B	TAL SEA
Total/NA	Analysis	200.8		1	322415	02/10/20 23:54	FCW	TAL SEA

Client Sample ID: DPE-7
Date Collected: 02/03/20 14:14
Date Received: 02/04/20 16:30

Lab Sample ID: 580-92637-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			322981	02/17/20 16:16	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		25	323090	02/18/20 18:01	CJ	TAL SEA

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Client Sample ID: DPE-8

Lab Sample ID: 580-92637-8

Date Collected: 02/04/20 12:58
Date Received: 02/04/20 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			322981	02/17/20 16:16	T1L	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	323090	02/18/20 18:22	CJ	TAL SEA

Client Sample ID: DPE-10

Lab Sample ID: 580-92637-9

Date Collected: 02/04/20 08:30
Date Received: 02/04/20 16:30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	322387	02/10/20 22:35	CJ	TAL SEA
Total/NA	Analysis	8260C	RA	1	322660	02/13/20 18:00	W1T	TAL SEA
Dissolved	Prep	200.8			322417	02/11/20 08:07	A1B	TAL SEA
Dissolved	Analysis	200.8		1	322640	02/12/20 14:19	FCW	TAL SEA
Total/NA	Prep	200.8			322323	02/10/20 08:13	A1B	TAL SEA
Total/NA	Analysis	200.8		1	322415	02/10/20 23:57	FCW	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21 *

Laboratory: Eurofins TestAmerica, Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 1Q20 GWM 22866

Job ID: 580-92637-1
SDG: 185703896

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-92637-1	MW-5B	Water	02/03/20 14:58	02/04/20 16:30	
580-92637-2	MW-10	Water	02/04/20 12:12	02/04/20 16:30	
580-92637-3	DPE-3	Water	02/04/20 09:12	02/04/20 16:30	
580-92637-4	DPE-4	Water	02/04/20 10:15	02/04/20 16:30	
580-92637-5	DPE-5	Water	02/04/20 11:11	02/04/20 16:30	
580-92637-6	DPE-6	Water	02/03/20 13:05	02/04/20 16:30	
580-92637-7	DPE-7	Water	02/03/20 14:14	02/04/20 16:30	
580-92637-8	DPE-8	Water	02/04/20 12:58	02/04/20 16:30	
580-92637-9	DPE-10	Water	02/04/20 08:30	02/04/20 16:30	

TestAmerica Nashville

Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brian Schoenneman	Lab PM: Andy Johnson	Carrier Tracking No(s):	COC No:
Client Contact: Paul Fairbairn	Phone: 916-213-3205	E-Mail: Andy.Johnson@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Corp.				Job #: Store No. 22866
Address: 11130 NE 33rd Place Suite 200	Due Date Requested:			
City: Bellevue	TAT Requested (days): Standard			
State, Zip: WA, 98004-1465				
Phone: 425-298-1000(Tel)	PO #: Purchase Order Requested			
Email: paul.fairbairn@stantec.com	WO #: 794191			
Project Name: 1Q20 GWM 22866	Project #: 185703896			
Site: 22866 Tukwila	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, M - Hexane, N - None, O - AsNaO2, P - Na2O4S...

580-92637 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH-Gx	NWTPH-Dx	BTEX (8260)	Total Lead (200.8)	Naphthalene, 1-Methyl Naphthalene, 2-Methyl Naphthalene (8270)	Dissolved Lead (200.8) - Field Filtered	BTEX, EDC, MTBE (8260)	EDB (8011)	Total Number o	Special Instructions/Note:
			Preservation Code:													
MW-5B	2/3/20	1458	G	W			X	X	X							
MW-10	2/4/20	1212	G	W			X	X	X							
DPE-3	2/4/20	0912	G	W			X	X	X	X		X				
DPE-4	2/4/20	1015	G	W			X	X		X	X	X	X	X		
DPE-5	2/4/20	1111	G	W			X	X		X	X	X	X	X		
DPE-6	2/3/20	1305	G	W						X		X				
DPE-7	2/3/20	1414	G	W				X								
DPE-8	2/4/20	1258	G	W				X								
DPE-10	2/4/20	0830							X	X		X				

Therm. ID: A2 Cor: 5.0 Unc: 5.7
Cooler Dsc: LB
Packing: BUB
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx:
UPS:
Lab Cour:
Other: CO

Therm. ID: A2 Cor: 1.0 Unc: 1.2
Cooler Dsc: LB
Packing: BUB
Cust. Seal: Yes ___ No X
Blue Ice, (Wet), Dry, None
FedEx:
UPS:
Lab Cour:
Other: LO

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samp
☐ Return To Client ☐ Disposal By Lab

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brian Schoenneman	2/4/20 1630	STANTEC		2.4.20 1630	TASea
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 580-92637-1
SDG Number: 185703896

Login Number: 92637
List Number: 1
Creator: Worthy, Ashley L

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 580-92637-1
SDG Number: 185703896

Login Number: 92637
List Number: 2
Creator: Arrington, Randee E

List Source: Eurofins TestAmerica, Spokane
List Creation: 02/20/20 04:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-96544-1
Laboratory Sample Delivery Group: 22866 Tukila
Client Project/Site: 3Q20 GWM 22866
Revision: 1

For:
Stantec Consulting Corp.
11130 NE 33rd Place
Suite 200
Bellevue, Washington 98004-1465

Attn: Paul Fairbairn

Authorized for release by:
8/24/2020 5:18:40 PM

Lauren Evans, Project Management Assistant I
(615)301-5034
Lauren.Evans@Eurofinset.com

Table of Contents

Job ID: 580-96544-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-96544-1

Comments
No additional comments.

Revised Report
This report has been revised to correct the sample ID for 580-96544-1. This report replaces the original provided on 8/20/20 at 8:48 am.

Receipt
The samples were received on 8/5/2020 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.1° C and 3.9° C.

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: DPE-4 (580-96544-4) and DPE-5 (580-96544-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270E SIM: (DFTPP 580-335133/2) presents tailing factor outside the threshold for (Pentachlorophenol). For selective ion monitoring, tailing factor is not defined in the parent method; therefore, the data is reported. (DFTPP 580-335133/2)

Method 8270E SIM: The following samples were diluted due to the nature of the sample matrix: DPE-4 (580-96544-4) and DPE-5 (580-96544-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method NWTPH-Gx: Surrogate 4-Bromofluorobenzene (Surr) recovery for the following samples were outside control limits: DPE-4 (580-96544-4) and DPE-5 (580-96544-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method NWTPH-Dx: The following samples contained a hydrocarbon pattern in the diesel range; however, the elution pattern were earlier than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-58 (580-96544-1), DPE-4 (580-96544-4) and DPE-5 (580-96544-5).

Method NWTPH-Dx: The following samples were diluted due to the nature of the sample matrix: DPE-3 (580-96544-3), DPE-4 (580-96544-4) and DPE-5 (580-96544-5). Elevated reporting limits (RLs) are provided.

Method 8011: The continuing calibration verification (CCV) associated with 580-335122 recovered high and outside the control limits for 1,2,3-Trichloropropane, 1,2-Dibromo-3-Chloropropane, Ethylene Dibromide on one column. Results are confirmed on both columns and reported from the passing column. The associated samples are: DPE-4 (580-96544-4), DPE-5 (580-96544-5) and (CCV 580-335063/5-A).

Method 8011: The lower laboratory control sample (LLCS) for preparation batch 580-335063 and analytical batch 580-335122 recovered outside control limits for Ethylene Dibromide. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Job ID: 580-96544-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: The following samples formed emulsions during the extraction procedure: DPE-3 (580-96544-3), DPE-4 (580-96544-4), DPE-5 (580-96544-5) and DPE-7 (580-96544-7). The emulsions were broken up using extra solvent rinses and sodium sulfate.

Method 3510C: The emulsions were broken up using sodium sulfate and rinsed with solution.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-334937.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Qualifiers

GC VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: MW-5B
Date Collected: 08/04/20 11:26
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-1
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			08/12/20 08:24	1
Toluene	ND		2.00		ug/L			08/12/20 08:24	1
Ethylbenzene	ND		3.00		ug/L			08/12/20 08:24	1
Xylenes, Total	ND		3.00		ug/L			08/12/20 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/12/20 08:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/12/20 08:24*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/12/20 08:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*		*08/12/20 08:24*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	648		250		ug/L			08/07/20 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*50 - 150*		*08/07/20 21:01*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	1350		107		ug/L		08/06/20 10:27	08/08/20 21:24	1
Motor Oil (C24-C44)	430		340		ug/L		08/06/20 10:27	08/08/20 21:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*08/06/20 10:27*	*08/08/20 21:24*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: MW-10
Date Collected: 08/05/20 09:11
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-2
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			08/12/20 08:50	1
Toluene	ND		2.00		ug/L			08/12/20 08:50	1
Ethylbenzene	ND		3.00		ug/L			08/12/20 08:50	1
Xylenes, Total	ND		3.00		ug/L			08/12/20 08:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/12/20 08:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/12/20 08:50*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*08/12/20 08:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*		*08/12/20 08:50*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		250		ug/L			08/07/20 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*50 - 150*		*08/07/20 21:25*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		106		ug/L		08/06/20 10:27	08/08/20 21:45	1
Motor Oil (C24-C44)	ND		338		ug/L		08/06/20 10:27	08/08/20 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*50 - 150*	*08/06/20 10:27*	*08/08/20 21:45*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-3
Date Collected: 08/04/20 12:05
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-3
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			08/12/20 09:40	1
Toluene	ND		2.00		ug/L			08/12/20 09:40	1
Ethylbenzene	ND		3.00		ug/L			08/12/20 09:40	1
Xylenes, Total	ND		3.00		ug/L			08/12/20 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/12/20 09:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*08/12/20 09:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/12/20 09:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 126*		*08/12/20 09:40*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		250		ug/L			08/07/20 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*50 - 150*		*08/07/20 21:49*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		1050		ug/L		08/06/20 10:27	08/08/20 22:05	10
Motor Oil (C24-C44)	ND		3340		ug/L		08/06/20 10:27	08/08/20 22:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*08/06/20 10:27*	*08/08/20 22:05*	*10*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0165**		0.000800		mg/L		08/06/20 15:57	08/10/20 22:31	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00248**		0.000800		mg/L		08/07/20 17:22	08/11/20 00:15	1

Client Sample ID: DPE-4

Date Collected: 08/05/20 11:29
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-4

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		2.00		ug/L			08/12/20 09:14	1
Ethylbenzene	**32.3**		3.00		ug/L			08/12/20 09:14	1
Methyl tert-butyl ether	ND		2.00		ug/L			08/12/20 09:14	1
Toluene	**7.28**		2.00		ug/L			08/12/20 09:14	1
Xylenes, Total	**15.8**		3.00		ug/L			08/12/20 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/12/20 09:14*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/12/20 09:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 126*		*08/12/20 09:14*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*08/12/20 09:14*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**228**		30.0		ug/L			08/12/20 20:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/12/20 20:59*	*10*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*08/12/20 20:59*	*10*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 126*		*08/12/20 20:59*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/12/20 20:59*	*10*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**5.76**		0.507		ug/L		08/06/20 13:04	08/09/20 14:25	5
2-Methylnaphthalene	**4.54**		1.01		ug/L		08/06/20 13:04	08/09/20 14:25	5
Naphthalene	**4.09**		0.507		ug/L		08/06/20 13:04	08/09/20 14:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*98*		*29 - 150*	*08/06/20 13:04*	*08/09/20 14:25*	*5*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	**1900**		250		ug/L			08/07/20 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*168*	*X*	*50 - 150*		*08/07/20 22:13*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*	0.00802		ug/L		08/07/20 15:40	08/08/20 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*105*		*60 - 140*	*08/07/20 15:40*	*08/08/20 21:16*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	**2440**		523		ug/L		08/06/20 10:27	08/08/20 22:45	5
Motor Oil (C24-C44)	ND		1660		ug/L		08/06/20 10:27	08/08/20 22:45	5

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-4
Date Collected: 08/05/20 11:29
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*85*		*50 - 150*	*08/06/20 10:27*	*08/08/20 22:45*	*5*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00398**		0.000800		mg/L		08/06/20 15:57	08/10/20 22:35	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.000800		mg/L		08/07/20 17:22	08/11/20 00:19	1

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-5
Date Collected: 08/05/20 10:34
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-5
Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		2.00		ug/L			08/12/20 10:05	1
Methyl tert-butyl ether	ND		2.00		ug/L			08/12/20 10:05	1
Toluene	**8.61**		2.00		ug/L			08/12/20 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/12/20 10:05*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*08/12/20 10:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 126*		*08/12/20 10:05*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/12/20 10:05*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**197**		75.0		ug/L			08/12/20 21:25	25
Ethylbenzene	**1500**		75.0		ug/L			08/12/20 21:25	25
Xylenes, Total	**1420**		75.0		ug/L			08/12/20 21:25	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/12/20 21:25*	*25*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*08/12/20 21:25*	*25*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 126*		*08/12/20 21:25*	*25*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/12/20 21:25*	*25*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**30.5**		0.506		ug/L		08/06/20 13:04	08/09/20 14:48	5
2-Methylnaphthalene	**45.0**		1.01		ug/L		08/06/20 13:04	08/09/20 14:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*104*		*29 - 150*	*08/06/20 13:04*	*08/09/20 14:48*	*5*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**196**		2.02		ug/L		08/06/20 13:04	08/09/20 19:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*125*		*29 - 150*	*08/06/20 13:04*	*08/09/20 19:22*	*20*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	**22400**		250		ug/L			08/07/20 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*191*	*X*	*50 - 150*		*08/07/20 22:38*	*1*

Method: 8011 - EDB and DBCP in Water by Microextraction

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND	*	0.00795		ug/L		08/07/20 15:40	08/08/20 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*109*		*60 - 140*	*08/07/20 15:40*	*08/08/20 21:35*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-5

Date Collected: 08/05/20 10:34
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-5

Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	4570		523		ug/L		08/06/20 10:27	08/08/20 23:05	5
Motor Oil (C24-C44)	ND		1670		ug/L		08/06/20 10:27	08/08/20 23:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*08/06/20 10:27*	*08/08/20 23:05*	*5*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00863		0.000800		mg/L		08/06/20 15:57	08/10/20 22:38	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00504		0.000800		mg/L		08/07/20 17:22	08/11/20 00:23	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-6

Date Collected: 08/04/20 12:46
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-6

Matrix: Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.00315**		0.000800		mg/L		08/06/20 15:57	08/10/20 22:42	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.000800		mg/L		08/07/20 17:22	08/11/20 00:26	1

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-7
Date Collected: 08/04/20 10:52
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-7
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	253		105		ug/L		08/06/20 10:27	08/08/20 23:25	1
Motor Oil (C24-C44)	432		333		ug/L		08/06/20 10:27	08/08/20 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*74*		*50 - 150*	*08/06/20 10:27*	*08/08/20 23:25*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-8
Date Collected: 08/05/20 08:27
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-8
Matrix: Water

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	965		105		ug/L		08/06/20 10:27	08/08/20 23:46	1
Motor Oil (C24-C44)	562		333		ug/L		08/06/20 10:27	08/08/20 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*67*		*50 - 150*	*08/06/20 10:27*	*08/08/20 23:46*	*1*

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-10

Date Collected: 08/05/20 12:26
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-9

Matrix: Water

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.00		ug/L			08/12/20 10:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/12/20 10:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/12/20 10:30*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*08/12/20 10:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 126*		*08/12/20 10:30*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.80**		3.00		ug/L			08/12/20 19:19	1
Ethylbenzene	**4.06**		3.00		ug/L			08/12/20 19:19	1
Xylenes, Total	ND		3.00		ug/L			08/12/20 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*08/12/20 19:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/12/20 19:19*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*08/12/20 19:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 126*		*08/12/20 19:19*	*1*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.000800		mg/L		08/06/20 15:57	08/10/20 22:46	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.000800		mg/L		08/07/20 17:22	08/11/20 00:30	1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-335359/6
Matrix: Water
Analysis Batch: 335359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			08/12/20 04:13	1
1,2-Dichloroethane	ND		2.00		ug/L			08/12/20 04:13	1
Ethylbenzene	ND		3.00		ug/L			08/12/20 04:13	1
Methyl tert-butyl ether	ND		2.00		ug/L			08/12/20 04:13	1
Toluene	ND		2.00		ug/L			08/12/20 04:13	1
Xylenes, Total	ND		3.00		ug/L			08/12/20 04:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*08/12/20 04:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*08/12/20 04:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 126*		*08/12/20 04:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/12/20 04:13*	*1*

Lab Sample ID: LCS 580-335359/7
Matrix: Water
Analysis Batch: 335359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	10.88		ug/L		109	82 - 122		
1,2-Dichloroethane			10.0	10.27		ug/L		103	76 - 126		
Ethylbenzene			10.0	10.85		ug/L		109	80 - 120		
Methyl tert-butyl ether			10.0	10.85		ug/L		108	72 - 130		
Toluene			10.0	11.18		ug/L		112	80 - 120		
Xylenes, Total			20.0	21.40		ug/L		107	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 126*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-335359/8
Matrix: Water
Analysis Batch: 335359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	10.38		ug/L		104	82 - 122	5	14
1,2-Dichloroethane			10.0	9.918		ug/L		99	76 - 126	4	11
Ethylbenzene			10.0	10.37		ug/L		104	80 - 120	5	14
Methyl tert-butyl ether			10.0	10.49		ug/L		105	72 - 130	3	18
Toluene			10.0	10.86		ug/L		109	80 - 120	3	13
Xylenes, Total			20.0	20.64		ug/L		103	80 - 120	4	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 126*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-335359/8
Matrix: Water
Analysis Batch: 335359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: MB 580-335452/6
Matrix: Water
Analysis Batch: 335452

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		3.00		ug/L			08/12/20 15:32	1
1,2-Dichloroethane	ND		2.00		ug/L			08/12/20 15:32	1
Ethylbenzene	ND		3.00		ug/L			08/12/20 15:32	1
Methyl tert-butyl ether	ND		2.00		ug/L			08/12/20 15:32	1
Toluene	ND		2.00		ug/L			08/12/20 15:32	1
Xylenes, Total	ND		3.00		ug/L			08/12/20 15:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*08/12/20 15:32*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*08/12/20 15:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 126*		*08/12/20 15:32*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/12/20 15:32*	*1*

Lab Sample ID: LCS 580-335452/7
Matrix: Water
Analysis Batch: 335452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			10.0	11.33		ug/L		113	82 - 122		
1,2-Dichloroethane			10.0	10.13		ug/L		101	76 - 126		
Ethylbenzene			10.0	11.31		ug/L		113	80 - 120		
Methyl tert-butyl ether			10.0	10.62		ug/L		106	72 - 130		
Toluene			10.0	11.27		ug/L		113	80 - 120		
Xylenes, Total			20.0	21.96		ug/L		110	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 126*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 580-335452/8
Matrix: Water
Analysis Batch: 335452

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			10.0	11.20		ug/L		112	82 - 122	1	14
1,2-Dichloroethane			10.0	10.56		ug/L		106	76 - 126	4	11
Ethylbenzene			10.0	11.60		ug/L		116	80 - 120	3	14
Methyl tert-butyl ether			10.0	11.37		ug/L		114	72 - 130	7	18
Toluene			10.0	11.56		ug/L		116	80 - 120	3	13

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-335452/8
Matrix: Water
Analysis Batch: 335452

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total			20.0	22.33		ug/L		112	80 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 126*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-334937/1-A
Matrix: Water
Analysis Batch: 335133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334937

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.100		ug/L		08/06/20 13:04	08/09/20 13:16	1
2-Methylnaphthalene	ND		0.200		ug/L		08/06/20 13:04	08/09/20 13:16	1
Naphthalene	ND		0.100		ug/L		08/06/20 13:04	08/09/20 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*87*		*29 - 150*	*08/06/20 13:04*	*08/09/20 13:16*	*1*

Lab Sample ID: LCS 580-334937/2-A
Matrix: Water
Analysis Batch: 335133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334937

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene			8.00	5.240		ug/L		65	29 - 120
2-Methylnaphthalene			8.00	4.910		ug/L		61	33 - 120
Naphthalene			8.00	4.758		ug/L		59	24 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*86*		*29 - 150*

Lab Sample ID: LCSD 580-334937/3-A
Matrix: Water
Analysis Batch: 335133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 334937

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene			8.00	5.067		ug/L		63	29 - 120	3	34
2-Methylnaphthalene			8.00	4.873		ug/L		61	33 - 120	1	35
Naphthalene			8.00	4.804		ug/L		60	24 - 120	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14	*85*		*29 - 150*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-335051/6
Matrix: Water
Analysis Batch: 335051

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics - NWTPH-G	ND		250		ug/L			08/07/20 14:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*50 - 150*		*08/07/20 14:39*	*1*

Lab Sample ID: LCS 580-335051/7
Matrix: Water
Analysis Batch: 335051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics - NWTPH-G			1000	962.8		ug/L		96	79 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*50 - 150*

Lab Sample ID: LCSD 580-335051/8
Matrix: Water
Analysis Batch: 335051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics - NWTPH-G			1000	867.3		ug/L		87	79 - 120	10	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*50 - 150*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: MB 580-335063/1-A
Matrix: Water
Analysis Batch: 335122

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.00800		ug/L		08/07/20 15:40	08/08/20 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*85*		*60 - 140*	*08/07/20 15:40*	*08/08/20 15:54*	*1*

Lab Sample ID: LCS 580-335063/2-A
Matrix: Water
Analysis Batch: 335122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335063

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			0.0576	0.05739		ug/L		100	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*81*		*60 - 140*

Method: 8011 - EDB and DBCP in Water by Microextraction

Lab Sample ID: LCSD 580-335063/3-A
Matrix: Water
Analysis Batch: 335122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335063

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			0.0576	0.05924		ug/L		103	60 - 140	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*87*		*60 - 140*

Lab Sample ID: LLCS 580-335063/4-A
Matrix: Water
Analysis Batch: 335122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335063

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane (EDB)			0.0115	0.01783	*	ug/L		155	60 - 145		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dibromopropane	*89*		*60 - 140*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-334911/1-A
Matrix: Water
Analysis Batch: 335020

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (C10-C24)	ND		110		ug/L		08/06/20 10:27	08/08/20 20:24	1
Motor Oil (C24-C44)	ND		350		ug/L		08/06/20 10:27	08/08/20 20:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*50 - 150*	*08/06/20 10:27*	*08/08/20 20:24*	*1*

Lab Sample ID: LCS 580-334911/2-A
Matrix: Water
Analysis Batch: 335020

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334911

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics (C10-C24)			500	280.2		ug/L		56	50 - 120		
Motor Oil (C24-C44)			500	405.0		ug/L		81	64 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*73*		*50 - 150*

Lab Sample ID: LCSD 580-334911/3-A
Matrix: Water
Analysis Batch: 335020

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 334911

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (C10-C24)			500	247.5		ug/L		50	50 - 120	12	26
Motor Oil (C24-C44)			500	416.5		ug/L		83	64 - 120	3	24

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 580-334911/3-A
Matrix: Water
Analysis Batch: 335020

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 334911

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*73*		*50 - 150*

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 580-334967/14-A
Matrix: Water
Analysis Batch: 335264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 334967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.000800		mg/L		08/06/20 15:57	08/10/20 21:43	1

Lab Sample ID: LCS 580-334967/15-A
Matrix: Water
Analysis Batch: 335264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 334967

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	0.9877		mg/L		99	85 - 115		

Lab Sample ID: LCSD 580-334967/16-A
Matrix: Water
Analysis Batch: 335264

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 334967

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	0.9898		mg/L		99	85 - 115	0	20

Lab Sample ID: MB 580-335077/14-A
Matrix: Water
Analysis Batch: 335264

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.000800		mg/L		08/07/20 17:22	08/10/20 23:16	1

Lab Sample ID: LCS 580-335077/15-A
Matrix: Water
Analysis Batch: 335264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335077

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	0.9657		mg/L		97	85 - 115		

Lab Sample ID: LCSD 580-335077/16-A
Matrix: Water
Analysis Batch: 335264

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335077

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead			1.00	0.9640		mg/L		96	85 - 115	0	20

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: MW-5B
Date Collected: 08/04/20 11:26
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	335359	08/12/20 08:24	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	335051	08/07/20 21:01	DCV	TAL SEA
Total/NA	Prep	3510C			334911	08/06/20 10:27	S1S	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	335020	08/08/20 21:24	T1W	TAL SEA

Client Sample ID: MW-10
Date Collected: 08/05/20 09:11
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	335359	08/12/20 08:50	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	335051	08/07/20 21:25	DCV	TAL SEA
Total/NA	Prep	3510C			334911	08/06/20 10:27	S1S	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	335020	08/08/20 21:45	T1W	TAL SEA

Client Sample ID: DPE-3
Date Collected: 08/04/20 12:05
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	335359	08/12/20 09:40	DCV	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	335051	08/07/20 21:49	DCV	TAL SEA
Total/NA	Prep	3510C			334911	08/06/20 10:27	S1S	TAL SEA
Total/NA	Analysis	NWTPH-Dx		10	335020	08/08/20 22:05	T1W	TAL SEA
Dissolved	Prep	200.8			335077	08/07/20 17:22	TMH	TAL SEA
Dissolved	Analysis	200.8		1	335264	08/11/20 00:15	FCW	TAL SEA
Total/NA	Prep	200.8			334967	08/06/20 15:57	ART	TAL SEA
Total/NA	Analysis	200.8		1	335264	08/10/20 22:31	FCW	TAL SEA

Client Sample ID: DPE-4
Date Collected: 08/05/20 11:29
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	335359	08/12/20 09:14	DCV	TAL SEA
Total/NA	Analysis	8260D	DL	10	335452	08/12/20 20:59	CJ	TAL SEA
Total/NA	Prep	3510C			334937	08/06/20 13:04	S1S	TAL SEA
Total/NA	Analysis	8270E SIM		5	335133	08/09/20 14:25	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	335051	08/07/20 22:13	DCV	TAL SEA
Total/NA	Prep	8011			335063	08/07/20 15:40	S1S	TAL SEA
Total/NA	Analysis	8011		1	335122	08/08/20 21:16	TL1	TAL SEA
Total/NA	Prep	3510C			334911	08/06/20 10:27	S1S	TAL SEA
Total/NA	Analysis	NWTPH-Dx		5	335020	08/08/20 22:45	T1W	TAL SEA

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-4
Date Collected: 08/05/20 11:29
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			335077	08/07/20 17:22	TMH	TAL SEA
Dissolved	Analysis	200.8		1	335264	08/11/20 00:19	FCW	TAL SEA
Total/NA	Prep	200.8			334967	08/06/20 15:57	ART	TAL SEA
Total/NA	Analysis	200.8		1	335264	08/10/20 22:35	FCW	TAL SEA

Client Sample ID: DPE-5
Date Collected: 08/05/20 10:34
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	335359	08/12/20 10:05	DCV	TAL SEA
Total/NA	Analysis	8260D	DL	25	335452	08/12/20 21:25	CJ	TAL SEA
Total/NA	Prep	3510C			334937	08/06/20 13:04	S1S	TAL SEA
Total/NA	Analysis	8270E SIM		5	335133	08/09/20 14:48	W1T	TAL SEA
Total/NA	Prep	3510C	DL		334937	08/06/20 13:04	S1S	TAL SEA
Total/NA	Analysis	8270E SIM	DL	20	335133	08/09/20 19:22	W1T	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	335051	08/07/20 22:38	DCV	TAL SEA
Total/NA	Prep	8011			335063	08/07/20 15:40	S1S	TAL SEA
Total/NA	Analysis	8011		1	335122	08/08/20 21:35	TL1	TAL SEA
Total/NA	Prep	3510C			334911	08/06/20 10:27	S1S	TAL SEA
Total/NA	Analysis	NWTPH-Dx		5	335020	08/08/20 23:05	T1W	TAL SEA
Dissolved	Prep	200.8			335077	08/07/20 17:22	TMH	TAL SEA
Dissolved	Analysis	200.8		1	335264	08/11/20 00:23	FCW	TAL SEA
Total/NA	Prep	200.8			334967	08/06/20 15:57	ART	TAL SEA
Total/NA	Analysis	200.8		1	335264	08/10/20 22:38	FCW	TAL SEA

Client Sample ID: DPE-6
Date Collected: 08/04/20 12:46
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200.8			335077	08/07/20 17:22	TMH	TAL SEA
Dissolved	Analysis	200.8		1	335264	08/11/20 00:26	FCW	TAL SEA
Total/NA	Prep	200.8			334967	08/06/20 15:57	ART	TAL SEA
Total/NA	Analysis	200.8		1	335264	08/10/20 22:42	FCW	TAL SEA

Client Sample ID: DPE-7
Date Collected: 08/04/20 10:52
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			334911	08/06/20 10:27	S1S	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	335020	08/08/20 23:25	T1W	TAL SEA

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Client Sample ID: DPE-8

Date Collected: 08/05/20 08:27
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			334911	08/06/20 10:27	S1S	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1	335020	08/08/20 23:46	T1W	TAL SEA

Client Sample ID: DPE-10

Date Collected: 08/05/20 12:26
Date Received: 08/05/20 14:10

Lab Sample ID: 580-96544-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	335359	08/12/20 10:30	DCV	TAL SEA
Total/NA	Analysis	8260D	RA	1	335452	08/12/20 19:19	CJ	TAL SEA
Dissolved	Prep	200.8			335077	08/07/20 17:22	TMH	TAL SEA
Dissolved	Analysis	200.8		1	335264	08/11/20 00:30	FCW	TAL SEA
Total/NA	Prep	200.8			334967	08/06/20 15:57	ART	TAL SEA
Total/NA	Analysis	200.8		1	335264	08/10/20 22:46	FCW	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: 3Q20 GWM 22866

Job ID: 580-96544-1
SDG: 22866 Tukila

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-96544-1	MW-5B	Water	08/04/20 11:26	08/05/20 14:10	
580-96544-2	MW-10	Water	08/05/20 09:11	08/05/20 14:10	
580-96544-3	DPE-3	Water	08/04/20 12:05	08/05/20 14:10	
580-96544-4	DPE-4	Water	08/05/20 11:29	08/05/20 14:10	
580-96544-5	DPE-5	Water	08/05/20 10:34	08/05/20 14:10	
580-96544-6	DPE-6	Water	08/04/20 12:46	08/05/20 14:10	
580-96544-7	DPE-7	Water	08/04/20 10:52	08/05/20 14:10	
580-96544-8	DPE-8	Water	08/05/20 08:27	08/05/20 14:10	
580-96544-9	DPE-10	Water	08/05/20 12:26	08/05/20 14:10	

TestAmerica Seattle
Tacoma, WA
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brian Schoenneman	Lab PM: Lauren Evans	Carrier Tracking No(s): 96544	COC No:
Client Contact: Paul Fairbairn	Phone: 916-213-3205	E-Mail: Lauren.Evans@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Corp.				Job #: Store No. 22866
Address: 1687 114th Ave SE	Due Date Requested:			
City: Bellevue	TAT Requested (days): Standard			
State, Zip: WA, 98004				
Phone: 425-298-1000(Tel)	PO #: Purchase Order Requested			
Email: paul.fairbairn@stantec.com	WO #: 794191			
Project Name: 3Q20 GWM 22866	Project #: 185703896			
Site: 22866 Tukwila	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexone; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH-Gx	NWTPH-Dx	BTEX (8260)	Total Lead (200.8)	Naphthalene, 1-Methyl Naphthalene, 2-Methyl Naphthalene (8270)	Dissolved Lead (200.8) - Field Filtered	BTEX, EDC, MTBE (8260)	EDB (8011)	Total Number of containers	Special Instructions/Note:
				Preservation Code:													
-1	MW-5B	8/4/20	1126	G	W			X	X	X							
	MW-10	8/5/20	0911	G	W			X	X	X							
-3	DPE-3	8/4/20	1205	G	W			X	X	X	X		X				
	DPE-4	8/5/20	1129	G	W			X	X		X	X	X	X	X		
-5	DPE-5	8/5/20	1034	G	W			X	X		X	X	X	X	X		
	DPE-6	8/4/20	1246	G	W						X		X				
-7	DPE-7	8/4/20	1052	G	W				X								
	DPE-8	8/5/20	0827	G	W				X								
-9	DPE-10	8/5/20	1226							X	X		X				

580-96544 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/5/20 1405	Stantec	[signature] 3.9 +3.8/5/20	8/5/2020 1410	ETA SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Time:	Company		Time:	Company

Custody Seal: Δ Yes

Therm. ID: IR6 Cor: 3.1 °C Unc: 3.1
Cooler Dsc: LB
Packing: bubble
Cust. Seal: Yes ___ No X
Blue Ice, (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: Deposit

Therm. ID: A2 Cor: +1.0 °C Unc: 1.0
Cooler Dsc: LB
Packing: bubble
Cust. Seal: Yes ___ No X
Blue Ice, (Wet) Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: Deposit

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 580-96544-1
SDG Number: 22866 Tukila

Login Number: 96544
List Number: 1
Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B

Site Visitation Report / Field Notes

Stantec

Work Request Form

Project Name: 7-Eleven Store No. 22866 **Date:** 7/31/19
Site Address: 14207 Tukwila International Blvd, Hwy 99, Tukwila, Washington

Activity: Sampling of Monitoring Wells MW-5B, MW-10, DPE-3, DPE-4, DPE-5, DPE-7, DPE-8, DPE-10

Project No.: 185703896 **Task:** 800.0700
Project Manager: Paul Fairbairn
Business Unit Leader/Regional Manager: John Wainwright
Prepared by: Andrea Schweiter **Reviewed by:** **Submitted to:** RJS

WORK DESCRIPTION:

1. Arrive onsite and check in with Station Manager and contact Paul Fairbairn.
2. Review HASP, conduct Health and Safety briefing and perform Site Walk to determine any traffic flow.
3. Open wells shown on attached table and let groundwater levels equilibrate.
4. Inspect well conditions note if any well needs repair.
5. Gauge all site wells following gauging order on Sampling Request Form.
6. Low-flow purge and sample wells following the sampling order provided.
7. Take a drum for purge water. Store purge water in drums onsite, make sure they are labeled properly and secured.
8. Take inventory of all waste drums generated by Stantec at the site, and mark locations on site plan.
9. Fill Out Equipment Billing Sheet for all equipment used on the job and attach with field notes
10. Call or text Paul Fairbairn in the office prior to leaving the site.
11. Turn in field notes to Andrea Schweiter ASAP.

ANALYTICAL REQUIREMENTS:	BOTTLES:	EQUIPMENT NEEDED:
NWTPH-Gx	**3-HCL VOAs**	H&S plan
BTEX (8260)	**3-HCL VOAs**	Safety Equipment
NWTPH-Dx	**2-Ambers**	Delineators
Naphthalenes (8270)	**2-Unpreserved Ambers**	Test America Cooler with bottles
Total Lead (200.8)	**1-250 mL poly w/HNO3**	Low-Flow Purging/Sampling Equipment
		Oil/Water Interface Probe
		Disposable bailers/ Rope
		Peristaltic Pump & Tubing
		Drum and labels

ESTIMATED HOURS TO COMPLETE:

Billing Title	Billing Category	Authorized Hours to Complete
Field Tech	Regular - Direct Labor	9 hours + 1.25 hours Travel
Equipment Form	Regular - Direct Labor	-
Bottle Order	Regular - Direct Labor	0.5
	Total Hours	**10.75**

AUTHORIZATION: **COMPLETED:** 8/1/19

Stantec

Site Visitation Report

Project Name: 7-Eleven Store No. 22866

Name(s): Brian Schoenneman Date: 7/31/8/1/19 Time of Arrival Call-In: 1215 / 0553

Arrival Time: 1215 / 0553 Departure Time: 1430 / 1400 Time of Departure Call-In: 1430 / 1400

Weather Conditions: (SUN) CLOUDY RAIN SNOW Temperature: F 78 / 63

Calibrate YSI: (Yes) No

DRUM INVENTORY:

✓	WATER		CARBON	TOTAL OPEN TOP	
	SOIL		EMPTY	TOTAL BUNG TOP	1

Please take a picture of anything not clearly labeled

HEALTH AND SAFETY ASSESSMENT:

Traffic and delineation	HASP and hospital directions
PPE	First aid kit
Weather/Cold stress	Fire extinguisher
Slips, trips, falls	Proper lifting of heavy items
Proper tools for each task	Bottle handling/glassware

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES:

7/31/19 Did Site H&S assessment. Checked in with store operator. Initiated RMS-2. Opened 17 Wells. Gauged all 17 Wells.

8/1/19 Did Site H&S assessment. Initiated new RMS-2. Checked in with store operator. Calibrated YSI556 meter. Purged & Collected samples from 8 Wells.
Transported Samples To Fed Ex Sea Tac Airport

New Drum (20 gal) in trash Compound on S side of store

Took Samples To Fed Ex Sea Tac Airport

Groundwater Gauging Form

Project Name: 7-Eleven Store No. 22866 **Project No.:** 185703896 **Task:** 800.0700
Project Manager: Paul Fairbairn **Lab:** TestAmerica
Field Technician: Brian Schoenneman 7/31/19

Well Number	Gauge Order	Sample Order	Analyses	Time	DTW (ft.)	DTB (ft.)	Sample? (Y/N)	Comments (Please Note Condition of Well)
MW-1B	1		Gauge Only	1326	11.18	19.51	N	
MW-2B	2		Gauge Only	1328	9.65	18.91	N	
MW-3B	3		Gauge Only	1331	1.56	2.01	N	Possible Well Obstruction
MW-4B	4		Gauge Only	1333	9.91	14.23	N	
MW-5B	12	3	NWTPH-Gx, NWTPH-Dx, BTEX	1401	11.04	14.49		
MW-7	5		Gauge Only	1336	11.36	14.74	N	
MW-9	6		Gauge Only	1338	11.41	14.77	N	
MW-10	14	4	NWTPH-Gx, NWTPH-Dx, BTEX	1407	11.00	14.75		
DPE-1	13		Gauge Only	1404	9.65	18.96	N	
DPE-3	7	1	NWTPH-Gx, NWTPH-Dx, BTEX	1341	10.50	17.90		
DPE-4	15	6	NWTPH-Gx, NWTPH-Dx, BTEX	1410	10.75	18.20		
DPE-5	16	6	NWTPH-Gx, NWTPH-Dx, BTEX, Naphthalenes, Total Lead	1412	10.64	19.47		
DPE-6	8		Gauge Only	1345	11.04	19.99	N	
DPE-7	9	2	NWTPH-Gx, NWTPH-Dx, BTEX	1422	11.22	19.78		
DPE-8	17	7	NWTPH-Gx, NWTPH-Dx, BTEX, Naphthalenes, Total Lead	1416	11.61	20.00		
DPE-9	10		Gauge Only	1355	9.80	14.73	N	
DPE-10	11		NWTPH-Gx, NWTPH-Dx, BTEX	1358	10.20	13.35		

Estimated Gallons Purged:

NOTES:

8/1/19 YSI 556 Calibration
pH 4.00 buffer 3.92/4.00 pH 7.00 buffer 7.14/7.00
Conductivity 1413 µS buffer 1463/1413 µS
ORP @ 22 °C / 222 mv buffer 221.1/222.0
D.O. @ 764.23 mm Hg 9.74/9.83 mg/L

DTP: Depth to Free Product (FP or NAPH) Below TOC
DTW: Depth to Groundwater Below TOC
DTB: Depth to Bottom of Well Casing Below TOC

Project Name: 7-Eleven Store No. 22866
Project Manager: Paul Fairbairn
Field Technician: Brian Schoenneman

Project No.: 185703896
Lab: TestAmerica
Well ID: DPE-3

Date Purged: 8/1/19 Start (2400hr): 1231 End (2400hr): 1249
Date Sampled: 8/1/19 Sample Time (2400hr): 1259
Sample Type: Groundwater Low-Flow Used? Y

Casing Diameter: 2" ____ 3" ____ 4" ✓
Casing Volume (Gallons per foot): (0.17) (0.38) 0.67

Depth to Bottom (ft): 17.90
Depth to Water (ft): 10.50
Water Column Height (ft): 7.40
Actual Purge (gal): 1.1

Field Measurements

Date	Time	Volume	Temp °C	Conductivity µS	pH	Color	DO mg/L	O.R.P.
8/1/19	1232	0.0	20.49	439	6.20	clear	2.16	-5.1
	1237	0.3	17.48	422	5.94	Clear	0.64	9.3
	1240	0.5	17.51	423	5.93	Clear	0.48	7.1
	1243	0.7	17.47	424	5.89	Clear	0.40	5.6
	1246	0.9	17.48	428	5.83	Clear	0.32	5.2
	1249	1.1	17.53	428	5.86	Clear	0.29	2.2

Calculated Variance of Final Three Samples:
Temp: ____ **Conductivity:** ____ **pH:** ____ **Color:** ____ **O.R.P.:** ____
Acceptable Variance Limits:
Temp: ____ **Conductivity:** ____ **pH:** ____ **Color:** ____ **O.R.P.:** ____

Depth to Purge Intake During Purge: 17.00 **Sample DTW:** 11.30

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No ____
Well Pad Condition: OK
Well Casing Condition: OK
Well Vault Condition: OK
Seal Present?: Y Bolts Present?: N
Well Integrity: OK
Well Tag: X

Signature: B Schoenneman

Page ____ of ____

Project Name: 7-Eleven Store No. 22866
Project Manager: Paul Fairbairn
Field Technician: Brian Schoenneman

Project No.: 185703896
Lab: TestAmerica
Well ID: DPE-4

Date Purged: 8/1/19 Start (2400hr): 1152 End (2400hr): 1210
Date Sampled: 8/1/19 Sample Time (2400hr): 1220
Sample Type: Groundwater Low-Flow Used? Y

Casing Diameter: 2" ____ 3" ____ 4" ✓
Casing Volume (Gallons per foot): (0.17) (0.38) 0.67

Depth to Bottom (ft): 18.20
Depth to Water (ft): 10.75
Water Column Height (ft): 7.45
Actual Purge (gal): 1.1

Field Measurements

Date	Time	Volume	Temp °C	Conductivity mS	pH	Color	DO mg/L	O.R.P.
8/1/19	1153	0.0	18.47	1465	6.55	Clear	0.78	-105.3
	1158	0.3	20.08	1475	6.56	Clear	0.43	-106.7
	1201	0.5	18.45	1411	6.48	Clear	0.28	-94.3
	1204	0.7	19.59	1444	6.42	Clear	0.24	-91.6
	1207	0.9	18.50	1415	6.42	Clear	0.25	-91.1
	1210	1.1	18.33	1396	6.42	Clear	0.21	-90.3

Calculated Variance of Final Three Samples:
Temp: _____ Conductivity: _____ pH: _____ Color: _____ O.R.P.: _____
Acceptable Variance Limits:
Temp: _____ Conductivity: _____ pH: _____ Color: _____ O.R.P.: _____

Depth to Purge Intake During Purge: 18.00 **Sample DTW:** 11.39

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No ____
Well Pad Condition: Ok
Well Casing Condition: Ok
Well Vault Condition: Ok
Seal Present?: Y Bolts Present?: N
Well Integrity: Ok
Well Tag: Y

Signature: B Schoenneman

Project Name: 7-Eleven Store No. 22866
Project Manager: Paul Fairbairn
Field Technician: Brian Schoenneman

Project No.: 185703896
Lab: TestAmerica
Well ID: DPE-7

Date Purged: 8/1/19 Start (2400hr): 1113 End (2400hr): _____
Date Sampled: 8/1/19 Sample Time (2400hr): 1141
Sample Type: Groundwater Low-Flow Used? Y

Casing Diameter: 2" _____ 3" _____ 4" ✓
Casing Volume (Gallons per foot): (0.17) (0.38) 0.67

Depth to Bottom (ft): 19.78
Depth to Water (ft): 11.22
Water Column Height (ft): 8.56
Actual Purge (gal): 1.1

Field Measurements

Date	Time	Volume	Temp °C	Conductivity mS	pH	Color	DO mg/L	O.R.P.
8/1/19	1114	0.0	18.10	216	6.16	Clear	1.52	-35.0
	1119	0.3	17.16	149	5.96	Clear	0.67	-44.9
	1122	0.5	17.17	153	5.83	Clear	0.59	-2.8
	1125	0.7	16.75	122	5.80	Clear	0.36	6.5
	1128	0.9	17.74	155	5.82	Clear	0.29	10.6
	1131	1.1	18.02	118	5.79	Clear	0.65	14.7

Calculated Variance of Final Three Samples:
Temp: _____ **Conductivity:** _____ **pH:** _____ **Color:** _____ **O.R.P.:** _____
Acceptable Variance Limits:
Temp: _____ **Conductivity:** _____ **pH:** _____ **Color:** _____ **O.R.P.:** _____

Depth to Purge Intake During Purge: _____ **Sample DTW:** _____

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No _____
Well Pad Condition: OK Well Casing Condition: OK
Well Vault Condition: OK Seal Present?: Y Bolts Present?: N
Well Integrity: OK Well Tag: X

Signature: B Schoenneman

Page _____ of _____

Project Name: 7-Eleven Store No. 22866
Project Manager: Paul Fairbairn
Field Technician: Brian Schoenneman

Project No.: 185703896
Lab: TestAmerica
Well ID: DPE-5

Date Purged: 8/1/19 Start (2400hr): 1026 End (2400hr): 1043
Date Sampled: 8/1/19 Sample Time (2400hr): 1053
Sample Type: Groundwater Low-Flow Used? Y

Casing Diameter: 2" ____ 3" ____ 4" ✓
Casing Volume (Gallons per foot): (0.17) (0.38) 0.67

Depth to Bottom (ft): 19.47
Depth to Water (ft): 10.64
Water Column Height (ft): 8.83
Actual Purge (gal): 1.1

Field Measurements

Date	Time	Volume	Temp C	Conductivity MS	pH	Color	DO MS	O.R.P.
8/1/19	1027	0.0	17.66	978	6.57	Clear	1.43	-82.3
	1032	0.3	17.20	969	6.33	Clear	0.59	-89.2
	1035	0.5	17.26	969	6.32	Clear	0.47	-90.3
	1038	0.7	17.32	972	6.32	Clear	0.41	-90.9
	1041	0.9	17.41	974	6.32	Clear	0.36	-91.4
	1043	1.1	17.41	973	6.32	Clear	0.33	-91.6

Calculated Variance of Final Three Samples:
Temp: ____ **Conductivity:** ____ **pH:** ____ **Color:** ____ **O.R.P.:** ____
Acceptable Variance Limits:
Temp: ____ **Conductivity:** ____ **pH:** ____ **Color:** ____ **O.R.P.:** ____

Depth to Purge Intake During Purge: 13.47 **Sample DTW:** 11.36

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	
Total Lead (200.8)	
Naphthalenes (8270)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No ____
Well Pad Condition: OK Well Casing Condition: OK
Well Vault Condition: OK Seal Present?: Y Bolts Present?: N
Well Integrity: OK Well Tag: Y

Signature: B Schoenneman

Stantec

Water Sample Field Data Sheet

Bellevue Office
JUNE 2016

Project Name: 7-Eleven Store No. 22866
Project Manager: Paul Fairbairn
Field Technician: Brian Schoenneman

Project No.: 185703896
Lab: TestAmerica
Well ID: DPE-8

Date Purged: 8/1/19 Start (2400hr): 0948 End (2400hr): 1006
Date Sampled: 8/1/19 Sample Time (2400hr): 1016
Sample Type: Groundwater Low-Flow Used? Y

Casing Diameter: 2" ____ 3" ____ 4" ✓
Casing Volume (Gallons per foot): (0.17) (0.38) 0.67

Depth to Bottom (ft): 20.00
Depth to Water (ft): 11.61
Water Column Height (ft): 8.39
Actual Purge (gal): 1.1

Field Measurements

Date	Time	Volume	Temp °C	Conductivity µS	pH	Color	DO mg/L	O.R.P.
8/1/19	0949	0.0	17.27	771	6.41	Clear	1.56	20.6
	0954	0.3	16.94	768	6.38	Clear	0.63	21.5
	0957	0.5	16.81	766	6.38	Clear	0.43	24.9
	1000	0.7	16.73	764	6.37	Clear	0.32	30.9
	1003	0.9	16.73	763	6.34	Clear	0.26	38.6
	1006	1.1	16.79	764	6.33	Clear	0.24	42.6

Calculated Variance of Final Three Samples:
Temp: ____ **Conductivity:** ____ **pH:** ____ **Color:** ____ **O.R.P.:** ____

Acceptable Variance Limits:
Temp: ____ **Conductivity:** ____ **pH:** ____ **Color:** ____ **O.R.P.:** ____

Depth to Purge Intake During Purge: 20.0 **Sample DTW:** 12.19

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	
Total Lead (200.8)	
Naphthalenes (8270)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ **No** ____

Well Pad Condition: OK
Well Casing Condition: OK
Well Vault Condition: OK
Seal Present?: Y Bolts Present?: N
Well Integrity: OK
Well Tag: X

Signature: B Schoenneman

Page ____ of ____

Project Name: 7-Eleven Store No. 22866 | **Project No.:** 185703896
Project Manager: Paul Fairbairn | **Lab:** TestAmerica
Field Technician: Brian Schoenneman | **Well ID:** MW-10

Date Purged: 8/1/19 Start (2400hr): 0900 End (2400hr): 0918
Date Sampled: 8/1/19 Sample Time (2400hr): 0928
Sample Type: Groundwater Low-Flow Used? Y

Casing Diameter: 2" ✓ 3" ____ 4" ____
Casing Volume (Gallons per foot): (0.17) (0.38) 0.67

Depth to Bottom (ft): 14.75
Depth to Water (ft): 11.00
Water Column Height (ft): 3.75
Actual Purge (gal): 1.1

Field Measurements

Date	Time	Volume	Temp °C	Conductivity mS	pH	Color	DO mg/L	O.R.P.
8/1/19	0901	0.0	17.28	445	6.13	clear	2.15	20.0
	0906	0.3	17.74	426	5.97	clear	0.69	31.4
	0909	0.5	17.84	421	5.94	clear	0.50	40.8
	0912	0.7	17.85	430	5.95	clear	0.37	35.6
	0915	0.9	17.89	440	6.00	clear	0.29	18.6
	0918	1.1	17.85	442	6.02	clear	0.27	12.5

Calculated Variance of Final Three Samples:
Temp: ____ Conductivity: ____ pH: ____ Color: ____ O.R.P.: ____
Acceptable Variance Limits:
Temp: ____ Conductivity: ____ pH: ____ Color: ____ O.R.P.: ____

Depth to Purge Intake During Purge: 14.00 **Sample DTW:** 11.58

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No ____
Well Pad Condition: OK Well Casing Condition: OK
Well Vault Condition: OK Seal Present?: Y Bolts Present?: Y
Well Integrity: OK Well Tag: Y

Signature: B Schoenneman Page ____ of ____

Project Name: 7-Eleven Store No. 22866 | **Project No.:** 185703896
Project Manager: Paul Fairbairn | **Lab:** TestAmerica
Field Technician: Brian Schoenneman | **Well ID:** MW-5B

Date Purged: 8/1/19 | Start (2400hr): 0823 | End (2400hr): 0841
Date Sampled: 8/1/19 | Sample Time (2400hr): 0851
Sample Type: Groundwater | Low-Flow Used? Y

Casing Diameter: 2" ✓ | 3" _____ | 4" _____
Casing Volume (Gallons per foot): (0.17) | (0.38) | 0.67

Depth to Bottom (ft): 14.49
Depth to Water (ft): 11.04
Water Column Height (ft): 3.45
Actual Purge (gal): 0.6

Field Measurements

Date	Time	Volume	Temp °C	Conductivity mS	pH	Color	DO mg/L	O.R.P.
8/1/19	0824	0.0	19.00	771	6.21	Clear	1.48	-36.8
	0829	0.2	17.96	700	6.32	Clear	0.47	-88.2
	0832	0.3	17.96	690	6.31	Clear	0.31	-88.0
	0835	0.4	17.94	677	6.29	Clear	0.27	-83.5
	0838	0.5	17.97	660	6.24	Clear	0.24	-71.8
	0841	0.6	17.93	638	6.18	Clear	0.25	-62.0

Calculated Variance of Final Three Samples:
Temp: _____ **Conductivity:** _____ **pH:** _____ **Color:** _____ **O.R.P.:** _____
Acceptable Variance Limits:
Temp: _____ **Conductivity:** _____ **pH:** _____ **Color:** _____ **O.R.P.:** _____

Depth to Purge Intake During Purge: 14.00 **Sample DTW:** 11.55

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ **No** _____

Well Pad Condition: OK | Well Casing Condition: OK
Well Vault Condition: OK | Seal Present?: Y | Bolts Present?: N
Well Integrity: OK | Well Tag: Y

Signature: B Schoenneman

Project Name: 7-Eleven Store No. 22866 | **Project No.:** 185703896
Project Manager: Paul Fairbairn | **Lab:** TestAmerica
Field Technician: Brian Schoenneman | **Well ID:** DPE-10

Date Purged: 8/1/19 | Start (2400hr): 0723 | End (2400hr): 0741
Date Sampled: 8/1/19 | Sample Time (2400hr): 0800
Sample Type: Groundwater | Low-Flow Used? Y

Casing Diameter: 2" ✓ | 3" ____ | 4" ____
Casing Volume (Gallons per foot): (0.17) | (0.38) | 0.67

Depth to Bottom (ft): 13.35
Depth to Water (ft): 10.20
Water Column Height (ft): 3.15
Actual Purge (gal): 0.6

Field Measurements

Date	Time	Volume	Temp °C	Conductivity MS	pH	Color	DO MGL	O.R.P.
8/1/19	0724	0.0	18.90	872	6.14	clear	2.00	45.7
	0729	0.2	18.74	862	6.15	clear	1.07	46.4
	0732	0.3	18.64	860	6.17	clear	0.73	60.4
	0735	0.4	18.57	857	6.18	clear	0.57	68.2
	0738	0.5	18.58	856	6.20	clear	0.48	70.8
	0741	0.6	18.65	858	6.23	clear	0.44	74.0

Calculated Variance of Final Three Samples:
Temp: ____ Conductivity: ____ pH: ____ Color: ____ O.R.P.: ____

Acceptable Variance Limits:
Temp: ____ Conductivity: ____ pH: ____ Color: ____ O.R.P.: ____

Depth to Purge Intake During Purge: 13.35 **Sample DTW:** 11.31

Quantity of Sample Vessel & Preservative:	Analyses:
NWTPH-Gx	
NWTPH-Dx	
BTEX (8260)	

Purging Equipment:	Sampling Equipment:

Flow Through Cell Disconnected Prior to Sample Collection?: Yes ✓ No ____

Well Pad Condition: OK | Well Casing Condition: OK
Well Vault Condition: OK | Seal Present?: Y | Bolts Present?: N/O
Well Integrity: OK | Well Tag: Y

Signature: B Schoenneman

Stantec

Work Request Form

Project Name: 7-Eleven Store No. 22866 **Date:** 2/3/20
Site Address: 14207 Tukwila International Blvd, Hwy 99, Tukwila, Washington

Activity: Sampling of Monitoring Wells MW-5B, MW-10 (Dx, Gx, BTEX), DPE-3 (Dx, Gx, BTEX, Total Lead, Dis. Lead), DPE-4, DPE-5 (Gx, Dx, BTEX, EDB, EDC, MTBE, T&D Lead, Naph), DPE-6 (Total and Dis. Lead), DPE-7, DPE-8 (Dx), DPE-10 (BTEX, T&D lead)

Project No.: 185703896 **Task:** 1000.0700
Project Manager: Paul Fairbairn
Business Unit Leader/Regional Manager: John Wainwright
Prepared by: Andrea Schweiter **Reviewed by:** **Submitted to:** BJS

WORK DESCRIPTION:

1. Arrive onsite and check in with Station Manager and contact Paul Fairbairn.
2. Review HASP, conduct Health and Safety briefing and perform Site Walk to determine any traffic flow.
3. Open wells shown on attached table and let groundwater levels equilibrate.
4. Inspect well conditions note if any well needs repair.
5. Gauge all site wells following gauging order on Sampling Request Form.
6. Low-flow purge and sample wells following the sampling order provided.
7. Take a drum for purge water. Store purge water in drums onsite, make sure they are labeled properly and secured.
8. Take inventory of all waste drums generated by Stantec at the site, and mark locations on site plan.
9. Fill Out Equipment Billing Sheet for all equipment used on the job and attach with field notes
10. Call or text Paul Fairbairn in the office prior to leaving the site.
11. Turn in field notes to Andrea Schweiter ASAP.

ANALYTICAL REQUIREMENTS:	BOTTLES:	EQUIPMENT NEEDED:
NWTPH-Gx	**3-HCL VOAs**	H&S plan
BTEX (8260)	**3-HCL VOAs**	Safety Equipment
NWTPH-Dx	**2-Ambers**	Delineators
Naphthalenes (8270)	**2-Unpreserved Ambers**	Test America Cooler with bottles
Total Lead (200.8)	**1-250 mL poly w/HNO3**	Low-Flow Purging/Sampling Equipment
Dissolved Lead (200.8)	**1-250 mL poly w/HNO3-field filtered**	Oil/Water Interface Probe
		Disposable bailers/ Rope
		Peristaltic Pump & Tubing
		Drum and labels

ESTIMATED HOURS TO COMPLETE:

Billing Title	Billing Category	Authorized Hours to Complete
Field Tech	Regular - Direct Labor	9 hours + 1.25 hours Travel
Equipment Form	Regular - Direct Labor	-
Bottle Order	Regular - Direct Labor	0.5
	Total Hours	**10.75**

AUTHORIZATION: **COMPLETED:** 2/4/20

HEALTH, SAFETY AND ENVIRONMENT

Stantec

SAFE DRIVING – VEHICLE PRE-USE CHECKLIST

SWP 124A

Employee Name: B Sidoorneman

Region/Business Unit: 1857

Date: 2/4/20

Time: 0530

Vehicle Color: White

Vehicle Make/Model: Ford/Transit Connect

Vehicle License Plate Number: C 70431

Job: 7Eleven 22866

Job #: 185703896 # of Km or Mi Driven

Job:

Job #: # of Km or Mi Driven

Odometer Start: 44724

Odometer Stop: 44799

Total Km or Mi Driven: 75

Stantec Vehicle ☑

Rental ☐

Personal Vehicle ☐

Perimeter Walk Around:	Item is OK	Item is NOT OK
Check for signs of vandalism, negligence, damage or unusual conditions	✓	
Check all tires for excessive and unusual wear and proper inflation – include the spare tire if accessible	✓	
Check under vehicle for signs of leaking fluids	✓	
Check wiper blades (Do they work? Do they need replacement?)	✓	
Check all light systems – brake, head, back-up, running, turn signals, emergency flashers	✓	
Check to make sure doors, truck/toolbox lids, tailgates all open and close properly	✓	
(Make sure you have keys to any toolboxes that you may need to access)	✓	

Check Gauges on Dashboard:	Item is OK	Item is NOT OK
Fuel Level	✓	
Oil light	✓	
Engine Coolant Temperature Gauge	✓	
Service Indicator Lights	✓	
Battery Charge Indicator	✓	

Stantec

SAFE DRIVING – VEHICLE PRE-USE CHECKLIST

SWP 124A

Employee Name: B Schoenneman

Region/Business Unit: 1857

Date: 2/3/20

Time: 0525 Vehicle Color: Wht

Vehicle Make/Model: Ford Transit Connect

Vehicle License Plate Number: C70143L

Job: 7Eleven 22866

Job #: 185703896 # of Km or Mi Driven 132

Job:

Job #: # of Km or Mi Driven

Odometer Start: 44592 Odometer Stop: 44724

Total Km or Mi Driven: 132

Stantec Vehicle ☑

Rental ☐ Personal Vehicle ☐

Perimeter Walk Around:	Item is OK	Item is NOT OK
Check for signs of vandalism, negligence, damage or unusual conditions	✓	
Check all tires for excessive and unusual wear and proper inflation – include the spare tire if accessible	✓	
Check under vehicle for signs of leaking fluids	✓	
Check wiper blades (Do they work? Do they need replacement?)	✓	
Check all light systems – brake, head, back-up, running, turn signals, emergency flashers	✓	
Check to make sure doors, truck/toolbox lids, tailgates all open and close properly	✓	
(Make sure you have keys to any toolboxes that you may need to access)	✓	

Check Gauges on Dashboard:	Item is OK	Item is NOT OK
Fuel Level	✓	
Oil light	✓	
Engine Coolant Temperature Gauge	✓	
Service Indicator Lights	✓	
Battery Charge Indicator	✓	

Site Visitation Report

Project Name: 7-Eleven Store No. 22866

Name(s): Brian Schoenneman Date: 2/3/20 2/4/20 Time of Arrival Call-In: 0930 / 0630

Arrival Time: 0930 / 0630 Departure Time: 1532 / 1458 Time of Departure Call-In: 1532 / 1458

Weather Conditions: SUN (CLOUDY) (RAIN) SNOW Temperature: 37 F

Calibrate YSI: (Yes) No

DRUM INVENTORY:

1	WATER		CARBON	TOTAL OPEN TOP	1
	SOIL		EMPTY	TOTAL BUNG TOP	

Please take a picture of anything not clearly labeled

HEALTH AND SAFETY ASSESSMENT:

Traffic and delineation	HASP and hospital directions
PPE	First aid kit
Weather/Cold stress	Fire extinguisher
Slips, trips, falls	Proper lifting of heavy items
Proper tools for each task	Bottle handling/glassware

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES:

2/3 Did Site H&S evaluation, Checked in with store operator. Initiated RMS-2. Opened up & gauged 17 wells onsite. Purged & sampled DPE-6, DPE-7, MW-5R Kept samples on ice.

2/4 Did Site Safety assessment. Initiated near RMS-2. Checked in with store operator.
Purged & sampled MW-10, DPE-3, DPE-4, DPE-5 DPE-8, & DPE-10.

30 Gallon drum for purge water in Trash Compound.

Took samples to Enviros in Aloha

Groundwater Gauging Form

2/3/20

Project Name: 7-Eleven Store No. 22866 **Project No.: 185703896 Task: 1000.0700**
Project Manager: Paul Fairbairn **Lab:** TestAmerica
Field Technician: Brian Schoenneman

Well Number	Gauge Order	Sample Order	Analyses	Time	DTW (ft.)	DTB (ft.)	Sample? (Y/N)	Comments (Please Note Condition of Well)
MW-1B	1		Gauge	1035	3.58	14.52		
MW-2B	2		Gauge	1039	2.73	12.35		
MW-3B	3		Gauge	1042	1.87	2.00		Possible Well Obstruction
MW-4B	4		Gauge	1046	4.01	14.63		
MW-5B	12	3	SAMPLE	1109	6.20	14.50	N	
MW-7	5		Gauge	1048	4.14	14.76		
MW-9	6		Gauge	1052	1.58	14.78		
MW-10	14	4	SAMPLE	1115	6.25	14.75		
DPE-1	13		Gauge	1111	2.33	18.93		
DPE-3	7	1	SAMPLE	1055	3.49	17.83	Y	
DPE-4	15	6	SAMPLE	1120	5.66	18.23	Y	
DPE-5	16	6	SAMPLE	1123	5.86	19.41		
DPE-6	8		SAMPLE	1059	5.80	20.01	Y	
DPE-7	9	2	SAMPLE	1352	5.20	19.75	Y	
DPE-8	17	7	SAMPLE	1127	3.83	19.91		
DPE-9	10		Gauge	1102	1.13	14.71		
DPE-10	11		SAMPLE	1104	1.35	13.29	Y	

Estmated Gallons Purged:

NOTES:

2/3/20 YSI 556 Calibration
PH 4.00 buffer 4.03/4.00 PH 7.00 buffer 6.35/7.00
Conductivity 1413 us buffer 1287/1413 us
ORP @ 7.00 c / 231.5 mv buffer 234.9/231.5
D.O @ 722.85 mv 11.03/13.29 mg/L

DTP: Depth to Free Product (FP or NAPH) Below TOC
DTW: Depth to Groundwater Below TOC
DTB: Depth to Bottom of Well Casing Below TOC

2/4/20 YSI 556 Calibration
PH 4.00 buffer PH 7.00 buffer 6.18/7.00
Conductivity 1413 us buffer 1336/1413 us
ORP @ 6.80 °C/231.3 mv buffer 234.4/231.3 mv
D.O. @ 775.52 mm Hg 14.42/14.00 mg/L

TestAmerica Nashville
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brian Schoenneman	Lab PM: Andy Johnson	Carrier Tracking No(s):	COC No:
Client Contact: Paul Fairbairn	Phone: 916-213-3205	E-Mail: Andy.Johnson@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Corp.				Job #: Store No. 22866
Address: 11130 NE 33rd Place Suite 200	Due Date Requested:			
City: Bellevue	TAT Requested (days): Standard			
State, Zip: WA, 98004-1465				
Phone: 425-298-1000(Tel)	PO #: Purchase Order Requested			
Email: paul.fairbairn@stantec.com	WO #: 794191			
Project Name: 1Q20 GWM 22866	Project #: 185703896			
Site: 22866 Tukwila	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchior, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH-Gx	NWTPH-Dx	BTEX (8260)	Total Lead (200.8)	Naphthalene, 1-Methyl Naphthalene, 2-Methyl Naphthalene (8270)	Dissolved Lead (200.8) - Field Filtered	BTEX, EDC, MTBE (8260)	EDB (8011)	Total Number of containers	Special Instructions/Note:
			Preservation Code:													
MW-5B	2/3/20	1458	G	W			X	X	X							
MW-10	2/4/20	1212	G	W			X	X	X							
DPE-3	2/4/20	0912	G	W			X	X	X	X		X				
DPE-4	2/4/20	1015	G	W			X	X		X	X	X	X	X		
DPE-5	2/4/20	1111	G	W			X	X		X	X	X	X	X		
DPE-6	2/3/20	1305	G	W						X		X				
DPE-7	2/3/20	1414	G	W				X								
DPE-8	2/4/20	1258	G	W				X								
DPE-10	2/4/20	0830							X	X		X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brian Schoenneman	2/4/20 1630	Stantec	[illegible]	2.4.20 1630	TAN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Stantec

Work Request Form

Project Name: 7-Eleven Store No. 22866 **Date:** 8/4/20
Site Address: 14207 Tukwila International Blvd, Hwy 99, Tukwila, Washington

Activity: Sampling of Monitoring Wells MW-5B, MW-10, DPE-3, DPE-4, DPE-5, DPE-6, DPE-7, DPE-8, DPE-10

Project No.: 185703896 **Task:** 1000.0700
Project Manager: Paul Fairbairn
Business Unit Leader/Regional Manager: John Wainwright
Prepared by: Andrea Schweiter **Reviewed by:** **Submitted to:** BJS

WORK DESCRIPTION:

1. Arrive onsite and check in with Station Manager and contact Paul Fairbairn.
2. Review HASP, conduct Health and Safety briefing and perform Site Walk to determine any traffic flow.
3. Open wells shown on attached table and let groundwater levels equilibrate.
4. Inspect well conditions note if any well needs repair.
5. Gauge all site wells following gauging order on Sampling Request Form.
6. Low-flow purge and sample wells following the sampling order provided.
7. Take a drum for purge water. Store purge water in drums onsite, make sure they are labeled properly and secured.
8. Take inventory of all waste drums generated by Stantec at the site, and mark locations on site plan.
9. Fill Out Equipment Billing Sheet for all equipment used on the job and attach with field notes
10. Call or text Paul Fairbairn in the office prior to leaving the site.
11. Turn in field notes to Andrea Schweiter ASAP.

ANALYTICAL REQUIREMENTS:	BOTTLES:	EQUIPMENT NEEDED:
NWTPH-Gx	**3-HCL VOAs**	H&S plan
BTEX (8260)	**3-HCL VOAs**	Safety Equipment
NWTPH-Dx	**2-Ambers**	Delineators
Naphthalenes (8270)	**2-Unpreserved Ambers**	Test America Cooler with bottles
Total Lead (200.8)	**1-250 mL poly w/HNO3**	Low-Flow Purging/Sampling Equipment
Dissolved Lead (200.8)	**1-250 mL poly w/HNO3-field filtered**	Oil/Water Interface Probe
		Disposable bailers/ Rope
		Peristaltic Pump & Tubing
		Drum and labels

ESTIMATED HOURS TO COMPLETE:

Billing Title	Billing Category	Authorized Hours to Complete
Field Tech	Regular - Direct Labor	11 hours + 1.25 hours Travel
Equipment Form	Regular - Direct Labor	-
Bottle Order	Regular - Direct Labor	0.5
	Total Hours	**12.75**

AUTHORIZATION: **COMPLETED:** 8/5/20

Stantec

SAFE DRIVING – VEHICLE PRE-USE CHECKLIST

SWP 124A

Employee Name: B Schoenmann | Region/Business Unit: 1857

Date: 8/4/20 | Time: 0620 | Vehicle Color: wht

Vehicle Make/Model: Ford Transit Connect | Vehicle License Plate Number: C701431

Job: 7Eleven 22866 | Job #: 185703896 | # of Km or Mi Driven 93

Job: | Job #: | # of Km or Mi Driven

Odometer Start: 55800 | Odometer Stop: 55893 | Total Km or Mi Driven: 93

Stantec Vehicle ☑ | Rental ☐ | Personal Vehicle ☐

Perimeter Walk Around:	Item is OK	Item is NOT OK
Check for signs of vandalism, negligence, damage or unusual conditions	✓	
Check all tires for excessive and unusual wear and proper inflation – include the spare tire if accessible	✓	
Check under vehicle for signs of leaking fluids	✓	
Check wiper blades (Do they work? Do they need replacement?)	✓	
Check all light systems – brake, head, back-up, running, turn signals, emergency flashers	✓	
Check to make sure doors, truck/toolbox lids, tailgates all open and close properly	✓	
(Make sure you have keys to any toolboxes that you may need to access)	✓	

Check Gauges on Dashboard:	Item is OK	Item is NOT OK
Fuel Level	✓	
Oil light	✓	
Engine Coolant Temperature Gauge	✓	
Service Indicator Lights	✓	
Battery Charge Indicator	✓	

Stantec

SAFE DRIVING – VEHICLE PRE-USE CHECKLIST

SWP 124A

Inside Vehicle:	Item is OK	Item is NOT OK
Make sure seatbelts are present for all who will be riding in the vehicle	✓	
Secure all cargo in the vehicle so that items will not become projectiles in the event of sudden stops or collisions	✓	
Adjust the seat position, rearview and side mirrors	✓	
Adjust temperature controls, vents, radio, etc.	✓	

If Pulling a Trailer:	Item is OK	Item is NOT OK
Is trailer properly hitched to the vehicle (including safety chains)		
All lights are working properly		
Proper trailer for the load (check weight specifications) and load is balanced. If you anticipate the load is near the trailer weight limit, weigh the trailer at a weigh station		
Are tires in good condition and properly inflated?		

Notify the vehicle manager or rental company if you feel that any deficiencies are unsafe and DO NOT drive the vehicle

Signature:

HEALTH, SAFETY AND ENVIRONMENT

SAFE DRIVING – VEHICLE PRE-USE CHECKLIST

SWP 124A

Employee Name: B Shoemaker | Region/Business Unit: 1857

Date: 8/5/20 | Time: 0620 | Vehicle Color: Wht

Vehicle Make/Model: Ford Transit Connect | Vehicle License Plate Number: C701452

Job: Ekuan 22886 | Job #: 1857 03896 | # of Km or Mi Driven 81

Job: | Job #: | # of Km or Mi Driven

Odometer Start: 55893 | Odometer Stop: 55974 | Total Km or Mi Driven: 81

Stantec Vehicle ☑ | Rental ☐ | Personal Vehicle ☐

Perimeter Walk Around:	Item is OK	Item is NOT OK
Check for signs of vandalism, negligence, damage or unusual conditions	✓	
Check all tires for excessive and unusual wear and proper inflation – include the spare tire if accessible	✓	
Check under vehicle for signs of leaking fluids	✓	
Check wiper blades (Do they work? Do they need replacement?)	✓	
Check all light systems – brake, head, back-up, running, turn signals, emergency flashers	✓	
Check to make sure doors, truck/toolbox lids, tailgates all open and close properly	✓	
(Make sure you have keys to any toolboxes that you may need to access)	✓	

Check Gauges on Dashboard:	Item is OK	Item is NOT OK
Fuel Level	✓	
Oil light	✓	
Engine Coolant Temperature Gauge	✓	
Service Indicator Lights	✓	
Battery Charge Indicator	✓	

SAFE DRIVING – VEHICLE PRE-USE CHECKLIST

SWP 124A

Inside Vehicle:	Item is OK	Item is NOT OK
Make sure seatbelts are present for all who will be riding in the vehicle	✓	
Secure all cargo in the vehicle so that items will not become projectiles in the event of sudden stops or collisions	✓	
Adjust the seat position, rearview and side mirrors	✓	
Adjust temperature controls, vents, radio, etc.	✓	

If Pulling a Trailer:	Item is OK	Item is NOT OK
Is trailer properly hitched to the vehicle (including safety chains)		
All lights are working properly		
Proper trailer for the load (check weight specifications) and load is balanced. If you anticipate the load is near the trailer weight limit, weigh the trailer at a weigh station		
Are tires in good condition and properly inflated?		

Notify the vehicle manager or rental company if you feel that any deficiencies are unsafe and DO NOT drive the vehicle

Signature: Brian Ackermann

Stantec

Site Visitation Report

Project Name: 7-Eleven Store No. 22866

Name(s): Brian Schoenneman Date: 8/4/20 - 8/5/20 Time of Arrival Call-In: 8/4: 0720 / 8/5: 0720

Arrival Time: 0720 Departure Time: 8/5/20 1330 Time of Departure Call-In: 1330 / 1330

Weather Conditions: (SUN) CLOUDY RAIN SNOW Temperature: 66 F

Calibrate YSI: Yes No

DRUM INVENTORY:

____	WATER	____	CARBON	TOTAL OPEN TOP	____
____	SOIL	____	EMPTY	TOTAL BUNG TOP	____

Please take a picture of anything not clearly labeled

HEALTH AND SAFETY ASSESSMENT:

Traffic and delineation	HASP and hospital directions
PPE	First aid kit
Weather/Cold stress	Fire extinguisher
Slips, trips, falls	Proper lifting of heavy items
Proper tools for each task	Bottle handling/glassware

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES:

8/4/20 Did Site H&S Paperwork & Evaluation. Checked in with store operator. Opened up, Wells To be Gauged. Gauged Wells. Calibrated YSI 556. Purged & Sampled MWs 5B, DPE-3, DPE-6, & DPE-7. Kept samples on ice overnight.
Took Purge water To 20052 Drum.

8/5/20 Initiated new Paperwork. Calibrated YSI 556. Purged & Sampled Wells MW-10, DPE-4, DPE-5, DPE-8, & DPE-10.

Took Purge water To 20052 Drum.
Took samples To Eurofins.

Stantec

Groundwater Gauging Form

8/4/20

Project Name: 7-Eleven Store No. 22866 **Project No.: 185703896 Task:** 1000.0700
Project Manager: Paul Fairbairn **Lab:** TestAmerica
Field Technician: Brian Schoenneman

Well Number	Gauge Order	Sample Order	Analyses	Time	DTW (ft.)	DTB (ft.)	Sample? (Y/N)	Comments (Please Note Condition of Well)
MW-1B	1		Gauge	0807	10.00	14.76		
MW-2B	2		Gauge	0810	8.65	12.36		
MW-3B	3		Gauge	0813	1.66	2.05		Possible Well Obstruction
MW-4B	4		Gauge	0816	8.96	14.25		
MW-5B	12	3	SAMPLE	0839	9.96	14.53		
MW-7	5		Gauge	0819	10.17	14.77		
MW-9	6		Gauge	0822	10.09	14.80		
MW-10	14	4	SAMPLE	0853	7.90	13.10		
DPE-1	13		Gauge	0843	8.67	18.92		
DPE-3	7	1	SAMPLE	0825	9.46	17.75		
DPE-4	15	6	SAMPLE	0847	9.78	18.19		
DPE-5	16	6	SAMPLE	0850	9.67	19.47		
DPE-6	8		SAMPLE	0827	10.04	20.00		
DPE-7	9	2	SAMPLE	0831	10.21	19.82		
DPE-8	17	7	SAMPLE	0856	10.51	20.00		
DPE-9	10		Gauge	0834	8.80	14.72		
DPE-10	11		SAMPLE	0836	7.90	13.07		

Estmated Gallons Purged:

NOTES:

DTP: Depth to Free Product (FP or NAPH) Below TOC
DTW: Depth to Groundwater Below TOC
DTB: Depth to Bottom of Well Casing Below TOC

TestAmerica Seattle
Tacoma, WA
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brian Schoenneman	Lab PM: Lauren Evans	Carrier Tracking No(s):	COC No:
Client Contact: Paul Fairbairn	Phone: 916-213-3205	E-Mail: Lauren.Evans@testamericainc.com		Page: Page 1 of 1
Company: Stantec Consulting Corp.				Job #: Store No. 22866
Address: 1687 114th Ave SE	Due Date Requested:			
City: Bellevue	TAT Requested (days): Standard			
State, Zip: WA, 98004				
Phone: 425-298-1000(Tel)	PO #: Purchase Order Requested			
Email: paul.fairbairn@stantec.com	WO #: 794191			
Project Name: 3Q20 GWM 22866	Project #: 185703896			
Site: 22866 Tukwila	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	NWTPH-Gx	NWTPH-Dx	BTEX (8260)	Total Lead (200.8)	Naphthalene, 1-Methyl Naphthalene, 2-Methyl Naphthalene (8270)	Dissolved Lead (200.8) - Field Filtered	BTEX, EDC, MTBE (8260)	EDB (8011)						Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X														X	
MW-5B	8/4/20	1126	G	W			X	X	X												
MW-10	8/5/20	0911	G	W			X	X	X												
DPE-3	8/4/20	1205	G	W			X	X	X	X		X									
DPE-4	8/5/20	1129	G	W			X	X		X	X	X	X	X							
DPE-5	8/5/20	1034	G	W			X	X		X	X	X	X	X							
DPE-6	8/4/20	1246	G	W						X		X									
DPE-7	8/4/20	1052	G	W				X													
DPE-8	8/5/20	0827	G	W				X													
DPE-10	8/5/20	1226							X	X		X									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brian Schoenneman	8/5/20 1505	Stantec		8/5/2020 1410	ETA SEA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

ATTACHMENT C

Stantec Monitoring Well Purging and Sampling Procedures

STANTEC MONITORING WELL PURGING AND SAMPLING PROCEDURES

Monitoring well purging and sampling was conducted using U.S. Environmental Protection Agency (EPA) approved low-flow sampling techniques.

Purging Procedures

A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well to calculate the height and volume of water in the borehole.

B. Based on previously obtained data, if a monitoring well is suspected of containing liquid-phase hydrocarbon (LPH) concentrations, lower a transparent bailer into the well to evaluate the presence of a LPH sheen on the water table.

C. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a deionized water rinse.

D. Purge, by low-flow pumping (less than 0.5 liters per minute) for approximately five minutes. If low-flow purging is not possible and bailing is used to purge the well, then a minimum of three well volumes will be removed. If the well goes dry, the procedure listed in step E2 (below) should be followed. Parameters should be measured after each ½-casing volume is removed.

E. Conduct field measurements (i.e., pH, specific conductivity, temperature, and oxidation-reduction potential) note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.

1. If the well has not been purged dry, continue to pump, and conduct field measurements (including depth to water) again every five minutes during purging.

    a) If the first through third series of measurements vary by less than 10 percent, the well has been adequately purged. Allow the well to recover to 80 percent of its static condition and begin the sampling procedure.

    b) If the measurements vary by 10 percent or greater, repeat Step E1 above.

    c) If a minimum of three parameters cannot be measured during purging, remove three well volumes prior to sampling.

2. If the well has been purged dry, measure the water level, and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery and begin the sampling procedure.

Sampling Procedures

- Use the pump to collect the groundwater sample.
- Transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.
- Enter the samples into Chain-of-Custody and preserve on ice until delivery to the analytical laboratory. Complete the Well Development or Purging/Sampling Log to be stored in the project file.
- When requested by the client, collect a bailer rinsate blank of deionized water to check decontamination procedure. In addition, trip blanks prepared by the laboratory and kept with the samples may be included to check for cross contamination of samples within the cooler. Additional and/or alternate QA/QC samples can be collected and analyzed upon client request.