Underground Storage Tank System Removal and Fourth Quarter 2010 Groundwater Monitoring and Sampling Report

7-Eleven Store No. 22866
14207 Pacific Highway South
Tukwila, Washington
Stantec Project No. 212302520

January 21, 2011

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1.0 Introduction

Stantec Consulting Corporation (Stantec) was retained by 7-Eleven, Inc. (7-Eleven) to provide supervision and documentation of the removal of the underground storage tank (UST) system at 7-Eleven Store No. 22866 (the Site). The Site is located at 14207 Pacific Highway South, Tukwila, Washington (***Figures 1 and 2***). The work was conducted on October 27 through November 5, 2010 in accordance with the Washington Department of Ecology (Ecology) document: "*Guidance for Site Checks and Site Assessments for Underground Storage Tanks*" (Ecology, February 1991, revised October 1992). Site assessment activities were performed by a certified Washington State Site Assessor (#8012337-U7) as required by Washington Administrative Code (WAC) 173-360-610. Quarterly groundwater monitoring and sampling was also performed as part of this assessment.

1.1 Purpose and Scope of Work

Stantec supervised and observed the removal of three single-wall steel USTs, associated product piping, dispenser islands, and canopy at the Site. Stantec collected UST closure soil samples to assess subsurface conditions adjacent to the former USTs, and beneath the former dispenser islands and product lines. Stantec also collected groundwater samples from existing groundwater monitoring wells as part of the fourth quarter 2010 groundwater monitoring and sampling event. Stantec's scope of work consisted of the following tasks:

- Preparation of a site-specific Health and Safety Plan (HASP);
- Notification to Ecology 30 days prior to UST removal;
- Notification to 7-Eleven 10 business days in advance of construction activities;
- Supervision and documentation of the decommissioning activities of the dispenser islands, product piping, USTs, and canopy;
- Inspection of the condition of the USTs and product piping upon removal;
- Dewatering of the excavation as needed during periods of heavy rain;
- Collection of soil samples from the UST excavation and beneath the product lines and dispensers for the purposes of logging subsurface conditions, field screening of soil samples for organic vapors using a photoionization detector (PID), and submitting selected soil samples for laboratory analysis of total petroleum hydrocarbons characterized as gasoline (TPH-G), benzene, toluene, ethyl benzene and total xylenes (BTEX);

- Collection of soil samples from the soil stockpiles for purposes of field screening and laboratory analysis;

- Monitoring and sampling of selected groundwater wells as part of the fourth quarter 2010 sampling event; and

- Preparation of this report documenting UST removal activities, groundwater sampling, and site restoration.

1.2 Site Background

The Site is an active 7-Eleven convenience store with former retail sales of gasoline. Installation of three 12,000 gallon gasoline USTs was completed in 1981. The Site has remained in its current configuration since that time.

In October 1995, soil samples were collected during a Stage II upgrade of the product piping and dispensers. Analytical results indicated that TPH-G was present in subsurface soils at the north end of the dispenser island. Approximately 29 tons of petroleum impacted soil was excavated during the upgrade and removed from the Site for disposal. On November 15, 1995, a leaking UST report was filed with the Ecology.

In March 1996, monitoring wells MW-1A through MW-3A (deep wells) and MW-1B through MW-3B (shallow wells) were installed to assess the extent and concentration of petroleum hydrocarbons in the subsurface. BTEX and TPH-G were not detected above Ecology's Model Toxics Control Act (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.

In August 1997, Fluor Daniel GTI, Inc. completed a dual-phase extraction/soil vapor extraction (DPE/SVE) feasibility test. In November 1997, a DPE/SVE system was installed at the Site. The system included eight DPE/SVE wells (DPE-1 through DPE-8) and associated piping. The system was started on February 12, 1998. The DPE portion of the system was shut down in the winter of 1998 due to equipment damage from subfreezing temperatures. The DPE system remained offline through 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.

On January 27, 2000, the DPE portion of the remediation system was restarted to address the increasing concentrations of petroleum hydrocarbons in MW-5B.

In August 2000, IT Corporation advanced one additional boring south of the USTs. Benzene and TPH-G were reported above the MTCA Method A CULs in the sample collected from this boring. On April 17, 2001, the DPE/SVE system was shut down for repairs and restarted on August 29, 2001. On April 17, 2002, the system compound was damaged by vehicular traffic. Subsequently, due to the decreasing effectiveness of the technology at the Site, the system was shut down permanently. The system equipment and associated concrete pad were removed from the Site in February 2007. Quarterly groundwater monitoring and sampling has been performed since 2002 through the present.

On December 14, 2004, SECOR International Incorporated (SECOR, now Stantec) supervised the advancement of eight soil borings (BH-1 through BH-8) to 12 feet below ground surface (bgs) using a truck-mounted hollow stem auger coring system. Fourteen soil samples and three groundwater samples collected from BH-1 through BH-8 were submitted for 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 was identified east and southeast of the convenience store building.

1.3 Regulatory Status

Stantec reviewed Ecology's electronic databases regarding the regulatory status of the Site. The Site is listed as Facility Site ID number 23544274 in Ecology's UST database under the program identifier 8603. The Site is listed in the Leaking Underground Storage Tank (LUST) database under Release ID 324111.

2.0 Facility Description

2.1 Site Location

The Site is located at the southwest corner of the intersection of South 142nd Street and Pacific Highway South, Tukwila, Washington (***Figures 1 and 2***). Access to the property is provided by South 142nd Street to the north and Pacific Highway South to the east. The Site is located in a mixed residential and commercial area.

2.2 Site Description

The Site is currently occupied by an operating 7-Eleven convenience store located in the western portion of the property (***Figure 2)***. Three 12,000 gallon, single-wall steel USTs were formerly located in the northern portion of the property. One product dispenser island covered by a canopy was formerly located east of the former USTs. After the UST system removal was completed, the former locations of USTs, dispenser islands, and canopy were resurfaced with asphalt and are currently used as additional parking for the 7-Eleven convenience store.

2.3 Regional Geology

The Site is located on the Vashon Till unit, a member of the Pleistocene Vashon Drift sediments group deposited during the latest episode of glaciations in the Puget Sound region. The Vashon Till varies in thickness from a few feet to 150 feet thick. It is comprised of gravelly, sandy silt to silty sand with varied quantities of clay, cobbles, and boulders. Local lenses of sand and gravel, containing pockets of perched groundwater, are common. Permeability of the sediments is extremely low, except in the sand and gravel lenses.

2.4 Regional Hydrogeology

The closest body of water to the Site is the Duwamish River, located approximately 1.5 miles northeast of the Site. The Duwamish River flows generally to the northwest in the vicinity of the Site, releasing into Puget Sound approximately 5 miles west of the Site. Depth to groundwater in onsite monitoring wells ranges from approximately 6 to 11 feet bgs.

3.0 UST Removal Activities

Stantec contracted Saybr Contractors, Inc. (Saybr) of Tacoma, Washington to remove the three USTs and ancillary equipment at the Site. Prior to commencement of closure activities, a 30 day notice of UST closure was submitted to the Washington Department of Ecology (***Appendix A***). Prior to tank closure activities, the USTs were emptied by 7-Eleven, One Call was contacted by Stantec to determine the presence of underground utilities, and electrical service to the dispenser islands and USTs was isolated and removed by a certified electrician.

A site-specific HASP was prepared for the Site as part of the project. The HASP identified potential physical and chemical hazards associated with the proposed field activities and established personal protection standards and mandatory safety practices. The HASP also included information on suspected chemical compounds to be encountered, a list of monitoring equipment, the required protective clothing and equipment, a map and directions to the nearest hospital and a list of emergency telephone numbers. The HASP was available on Site during the field activities. Stantec personnel and subcontractors working on the Site were required to review, sign and comply with the provisions set forth in the HASP.

Due to heavy rain on November 1, 2010, Stantec supervised the removal of approximately 2,900 gallons of run-off rainwater that had collected in the open UST excavation. The water was pumped to a portable holding tank on November 1 and 2, 2010. A water sample was collected from the tank on November 2, 2010, and submitted for laboratory analysis for waste characterization purposes. On November 10, 2010, the water was transported by Saybr to PRS Group, Inc. (PRS) of Tacoma, Washington for disposal. Copies of the water waste manifests are provided in ***Appendix B***.

On November 2, 2010, Stantec observed the removal of three 12,000 gallon, single-wall steel USTs at the Site. Prior to removal of the USTs, the remaining product was pumped from the USTs and the tanks were triple-rinsed. A total of approximately 2,800 gallons of product and rinse water were removed from the three tanks by Sound Marine and Industrial Services of Seattle, Washington and transported to PRS. Copies of the product and rinse water waste manifests are provided in ***Appendix B***.

The USTs were rendered inert by venting with carbon dioxide. A Washington State certified marine chemist confirmed the organic vapor levels in the tanks with a PID prior to removal. Upon exposure and visual inspection, the USTs and product delivery piping appeared to be in overall good condition, and no apparent failures were observed.

One UST was transported by Saybr to Seattle Iron & Metals of Seattle, Washington, and the other two USTs were transported to Schnitzer Steel of Tacoma, Washington. Copies of UST disposal manifests are provided in ***Appendix B***.

3.1 Field Screening

Field screening consisted of visual observations of potential hydrocarbon contamination and headspace analysis for volatile organic vapors using a MiniRae, Inc., Organic Vapor Meter PID. A sample of the soil matrix was placed in a re-sealable plastic bag, and allowed to equilibrate for approximately 10 minutes. The probe of the PID was used to pierce the plastic, and was extended into the headspace above the soil surface. The highest vapor reading obtained over 60 seconds was then recorded. Prior to use, the PID was calibrated to known concentrations of isobutylene, in accordance with the manufacturer's specifications.

Headspace vapor measurements for all soil sample locations collected at the Site are included in ***Table 1.*** Elevated PID readings, hydrocarbon odors, and staining were encountered in the soil underneath the former dispenser island (***Figure 3***). In addition, elevated PID readings were observed in all the samples collected during this investigation. Soil with elevated PID readings and/or visible staining was excavated and stockpiled separately on plastic and samples were collected before final disposal. Although field screening indicated that petroleum-impacted soil was present throughout the UST excavation, over-excavation was limited to the area surrounding and beneath the dispenser islands due to close proximity to underground utilities and the building foundation (***Figure 3***).

3.2 Soil Sampling Activities

During excavation activities, Stantec personnel collected soil samples from the excavation sidewalls, beneath the product lines, and beneath the dispenser islands in accordance with published EPA and Ecology guidelines. No soil samples were collected from underneath the USTs or from the base of excavation because of the presence of groundwater at approximately 12 feet bgs. Sampling was conducted at locations associated with visual evidence of soil staining, noticeable odors, and elevated headspace vapor concentration measurements. Samples for field screening purposes were collected from the sidewalls of the excavation on an approximate 10 foot vertical by 10 foot horizontal grid when possible. Soil samples from the UST excavation were collected from relatively undisturbed soil in the excavator bucket, and prepared using EPA Method 5035A (described as follows).The samples were placed directly into pre-weighed 40-milliliter vials. Additional soil samples were collected by hand and placed directly in clean 4-ounce glass jars. A clean disposable glove was used for each sample. Care was taken to obtain representative soil samples and to place the soils directly and quickly into the sample container to minimize loss of volatile constituents.

The threads of the sample jars were wiped clean of soil particles that would interfere with an airtight seal, and a Teflon-lined screw closure lid was immediately placed on the jars. The sample jars were labeled (i.e., sample identification, depth, type of analysis, date, and time of sampling) and placed in a cooler on ice for subsequent transport Friedman & Bruya, Inc.(F&B), an Ecology-accredited fixed-base analytical laboratory located in Seattle, Washington. United States Environmental Protection Agency (EPA) recommended protocols for sample

management, including chain-of-custody procedures and documentation, were observed during all sampling activities.

3.3 Groundwater Sampling Activities

The fourth quarter 2010 groundwater monitoring and sampling event was conducted on October 29, 2010. Groundwater samples were collected from wells MW-1B, MW-2B, MW-3A, MW-3B, MW-4B, and DPE-3. Based on the depth-to-groundwater measurements for this monitoring event, groundwater is relatively level across the Site. Groundwater samples were collected in accordance with the procedures included in ***Appendix C***. Monitoring and sampling field data sheets are included in ***Appendix D***.

3.4 Subsurface Conditions

3.4.1 Soil

Soils observed underlying the Site were classified as dark brown and greenish gray, fine to medium grained sands with some silt and gravel to a depth of approximately 12 feet bgs.

3.4.2 Groundwater

Groundwater was encountered at approximately 12 feet bgs during the UST closure activities conducted in November 2010. Less than one foot of groundwater was present in the excavation after the USTs were removed.

The depth to groundwater measured on October 29, 2010 ranged between 6.98 feet below the top-of-casing (TOC) elevation in well MW-2B to 9.26 feet below the TOC in MW-1A. Based on the measured elevations, shallow groundwater beneath the Site appears is relatively level with no discernable flow direction or gradient. A groundwater elevation map is included as ***Figure 4*** and historical groundwater elevations are included on ***Table 2***.

4.0 Analytical Program and Results

4.1 Soil and Groundwater Analytical Program and Results

The soil samples collected from the soil stockpiles, UST excavation sidewalls, beneath the former product lines and dispenser islands were delivered under chain-of-custody to F&B. Thirteen soil sample locations were selected for laboratory analysis based on PID readings and location. Samples were analyzed for BTEX and TPH-G.

4.1.1 Soil Analytical Results

Analytical results for the submitted soil samples from the UST closure activities are summarized in ***Table 1*** and shown on ***Figure 3.*** Complete laboratory results and chain-of-custody documentation are included in ***Appendix E***.

Analytical results for soil samples collected during UST closure activities include:

- Benzene was reported exceeding the MTCA Method A CUL in soil samples SS1@12', SS-3@12', SS-4@12', PL-1@2', PL-2@2', and SP-1, SP-2, SP-4 and SP-5;
- The laboratory practical quantitation limit (PQL) for benzene was greater than the MTCA Method A CUL in soil samples SS-2@12' and SP-3;
- Concentrations of ethyl benzene and total xylenes exceeded their respective MTCA Method A CULs in SS-2@12' and SP-3; and,
- TPH-G exceeded the MTCA Method A CUL in SS-2@12', SS-4@12', SP-3, and PL-1@2'.

4.1.2 Soil Disposal

Soils with petroleum odors and elevated PID readings were sampled and then stockpiled for subsequent removal and disposal. Approximately 329 tons of petroleum impacted soil was transported by Saybr to the Allied Waste facility located in Seattle, Washington. Copies of the soil disposal receipts are provided in ***Appendix B***.

4.1.3 Groundwater Analytical Results

The October 29, 2010 groundwater analytical results indicate that concentrations of benzene exceeded the MTCA Method A CUL in groundwater samples collected from wells MW-1B and MW-2B. Dissolved concentrations of TPH-G were reported exceeding the MTCA Method A CUL in the groundwater sample collected from monitoring well MW-2B. All other reported petroleum hydrocarbon concentrations were either not detected exceeding laboratory practical quantitation limits or were reported below their respective MTCA Method A CULs. Groundwater analytical results are summarized in ***Table 2*** and are also shown on ***Figure 3***.

5.0 Summary and Conclusions

Three 12,000 gallon, single-wall steel USTs, one dispenser island, associated product lines, and the canopy were removed from the Site on October 27 through November 5, 2010. The Underground Storage Tank Closure and Site Assessment Notice and the Underground Storage Tank Check/Site Assessment Checklist are provided in ***Appendix A.*** Based on field observations and analytical data, Stantec concludes the following:

- Upon exposure and visual inspection, all three USTs appeared to be in overall good condition, and no apparent failures were observed.
- Elevated PID readings were observed in the UST basin, under the product lines, and under the dispenser island.
- Over-excavation of petroleum-impacted soil was limited to the area surrounding and beneath the dispenser islands. Additional over-excavation was limited due to the close proximity to underground utilities and the building foundation.
- Analytical laboratory results of the soil samples collected following UST removal activities confirmed that petroleum-impacted soil exceeding MTCA Method A CULs are present at the Site in the area of the former UST system.
- Analytical results of groundwater samples collected during the fourth quarter 2010 monitoring and sampling event (October 29, 2010) confirmed that dissolved concentrations of TPH-G and benzene exceeding their respective MTCA Method A CULs are present beneath the northern portion of the Site.
- A total of approximately 329 tons of petroleum impacted soil was removed from the excavation and disposed of in an appropriately permitted landfill.

Based on the results of this investigation, Stantec recommends additional subsurface investigation to further assess the extent of petroleum impacted soil, and continued groundwater monitoring of select wells to further evaluate dissolved contaminant concentration trends and seasonal water level fluctuations beneath the Site.

6.0 References

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7.0 Standard Limitations

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the Site. It was prepared for the exclusive use of 7-Eleven, Inc., for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the Site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

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TABLES

TABLE 1
Cumulative Soil Analytical Results
7-Eleven Store No. 22866
14207 Pacific Highway South, Tukwila, Washington
Concentrations are in milligrams per kilogram (mg/kg)

Sample Description	Sample ID	Date	Depth (feet bgs)	PID reading	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	Lead
Stage II Upgrade Samples	D1-2'	10/30/95	2	--	**0.57**	**22**	**12**	**120**	**1,300**	26
	D2-2'	10/30/95	2	--	**<0.05**	0.45	0.51	1.8	14	26
	LS1-2'	10/30/95	2	--	**<0.05**	<0.05	<0.05	0.11	12	18
	TP1-2'	10/30/95	2	--	**<0.05**	0.51	<0.05	<0.10	7.9	15
Groundwater Monitoring Wells	MW-1A-7-8.5	3/26/96	7-8.5	--	**<0.05**	<0.05	<0.05	<0.10	<1.0	<10
	MW-1A-32.5-34	3/26/96	32.5-34	--	**<0.05**	<0.05	<0.05	<0.10	<1.0	<10
	MW-2A-2.5-4	3/26/96	2.5-4	--	**<0.05**	<0.05	<0.05	<0.10	<1.0	<10
	MW-2A-32.5-34	3/26/96	32.5-34	--	**<0.05**	<0.05	<0.05	<0.10	<1.0	<10
	MW-3A-2.5-4	3/26/96	2.5-4	--	**<0.05**	<0.05	<0.05	<0.10	<1.0	<10
	MW-3A-12.5-14	3/26/96	12.5-14	--	**<0.05**	<0.05	<0.05	<0.10	<1.0	<10
	MW-3A-32.5-34	3/26/96	32.5-34	--	**0.45**	<0.05	0.096	0.28	7.4	<10
	MW4S-A	10/30/96	5-6.5	--	**<0.05**	<0.05	<0.05	<0.10	<5.0	<10
	MW4D-B	10/30/96	10-11.5	--	**<0.05**	<0.05	<0.05	<0.10	<5.0	<10
	MW4D-C	10/30/96	15-16.5	--	**<0.05**	<0.05	<0.05	<0.10	<5.0	<10
	MW5S-A	10/30/96	5-6.5	--	**5.41**	3.73	**34.1**	**98.1**	**2,820**	32.5
	MW5S-B	10/30/96	10-11.5	--	**<0.10**	<0.10	<0.10	<0.20	<10	<10
	MW5D-A	10/30/96	7.5-9	--	**<5.0**	5.69	**33.0**	**118**	**3,900**	18.0
	MW5D-B	10/30/96	12.5-14	--	**17.3**	**66.6**	**78.2**	**539**	**7,910**	14.3
	MW5D-C	10/30/96	15-16.5	--	**0.265**	0.265	0.588	3.79	**56.0**	11.8
Soil Borings	B1A	11/29/99	5	--	**<0.05**	<0.05	<0.05	<0.05	<10	--
	B1B	11/29/99	10	--	**<0.05**	0.06	<0.05	<0.05	<10	--
	B2A	11/29/99	5	--	**<0.05**	0.06	<0.05	<0.05	<10	--
	B2B	11/29/99	10	--	**<0.05**	<0.05	0.19	0.19	<10	--
	B3A	11/29/99	5	--	**20**	**48**	**100**	**580**	**4,300**	--
	B3B	11/29/99	10	--	**4**	3.2	**11**	**56**	**400**	--
	B4A	11/29/99	5	--	**<0.05**	<0.05	<0.05	0.11	<10	--
	B4B	11/29/99	10	--	**1**	1	1.7	6.6	**60**	--
	B5A	11/29/99	5	--	**<0.05**	<0.05	<0.050	0.09	<10	--
	B5B	11/29/99	10	--	**<0.05**	<0.05	<0.05	<0.05	<10	--
	B6A	11/29/99	5	--	**<0.05**	<0.05	<0.05	<0.05	<10	--
	B6B	11/29/99	10	--	**<0.05**	<0.05	<0.05	<0.05	<10	--
	BH-1-8	12/14/04	8	--	<0.020	<0.041	<0.041	<0.082	<4.1	--
	BH-2-6	12/14/04	6	--	**0.2**	<0.95	**12**	**36.3**	**1,900**	--
	BH-2-8	12/14/04	8	--	**1.8**	1.7	**73**	**236** [a]	**5,400**	--
	BH-3-6	12/14/04	6	--	<0.020	<0.059	0.23	0.27	95	--
	BH-3-8.5	12/14/04	8.5	--	<0.020	<0.048	<0.048	<0.096	14	--
	BH-4-4.5	12/14/04	4.5	--	<0.020	<0.048	<0.048	<0.096	<4.8	--
	BH-4-6	12/14/04	6	--	<0.020	<0.045	<0.045	<0.090	<4.5	--
	BH-4-8	12/14/04	8	--	<0.020	<0.057	<0.057	<0.114	<5.7	--
	BH-5-4.5	12/14/04	4.5	--	**0.10**	<0.085	1.5	7.0	**100**	--
	BH-5-7	12/14/04	7	--	**1.7**	4.9	**49**	**263**	**3,300**	--
	BH-6-6	12/14/04	6	--	<0.020	<0.049	<0.049	<0.098	<4.9	--
	BH-6-8	12/14/04	8	--	<0.020	<0.047	<0.047	<0.094	<4.7	--
	BH-7-7	12/14/04	7	--	**0.84**	**26**	5.3	**217** [a]	**3,100**	--
	BH-8-6	12/14/04	6	--	<0.020	<0.058	<0.058	<0.116	<5.8	--
Sidewall Samples	SS-1@12'	11/2/10	12	276	**0.095**	<0.05	0.15	0.422	4.1	--
	SS-2@12'	11/3/10	12	2,610	**<0.3**	<0.5	**32**	**87.8**	**4,400**	--
	SS-3@12'	11/3/10	12	83.2	**0.25**	0.078	<0.05	<0.15	6.2	--
	SS-4@12'	11/3/10	12	931	**0.23**	<0.05	0.84	1.99	**260**	--
Soil Stockpile Samples	SP-1	10/27/10	--	451	**0.19**	<0.05	<0.05	<0.15	3.3	--
	SP-2	11/2/10	--	875	**1.2**	0.94	0.81	6.3	16	--
	SP-3 [c]	11/2/10	--	2,226	**<3**	<5	**40**	**222**	**5,000**	--
	SP-4	11/2/10	--	475	**0.86**	0.16	0.083	0.23	12	--
	SP-5	11/2/10	--	275	**2.7**	0.29	0.23	0.54	17	--
Product Line Samples	PL-1@2'	11/3/10	2	643	**0.37**	2.5	0.98	5.6	**66**	--
	PL-2@2'	11/3/10	2	248	**0.41**	<0.05	0.11	0.17	17	--
Dispenser Island Samples	DP-1@2'	11/3/10	2	25.2	<0.03	<0.05	<0.05	0.157	8.3	--
	DP-2@2'	11/3/10	2	90.6	<0.03	<0.05	<0.05	<0.15	9.4	--
MTCA Method A Soil CULs for Unrestricted Land Uses					**0.03**	**7**	**6**	**9**	**30/100** [b]	**250**

Explanation of Abbreviations:

bgs = below ground surface
TPH-G = total petroleum hydrocarbons in the gasoline range
< = reported result is below laboratory practical quantitation limit
MTCA = Model Toxics Control Act
CULs = Cleanup levels

Notes:

[a] = The value reported for m,p-xylene exceeds the quantitation range and is an estimate.
[b] = Gasoline mixtures without benzene and where the total of ethylbenzene, toluene, and xylene are less than 1% of the gasoline mixture have a cleanup level of 100 mg/kg; all other mixtures are 30 mg/kg.
[c] = Diluted sample. The original sample results were estimated concentrations calculated for an analyte response above the valid instrument calibration range.
Bold results exceed MTCA Method A Soil Cleanup Level

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
	10/29/10	--	--	--	--	--	--	--	9.26	289.76
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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	<3	190	<1	<1	7.93	291.26
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
	10/29/10	--	--	--	--	--	--	--	7.64	289.57
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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	<1	<1	<3	<100	--	--	8.44	289.47
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-3B	04/10/96	**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	--	--	--	--	--	--	--	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	1.0	<3	260	--	--	7.56	290.28
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
	10/29/10	--	--	--	--	--	--	--	7.45	289.88
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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	20	120	<1	<1	7.15	290.04
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000**[b]	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
	10/29/10	--	--	--	--	--	--	--	8.56	290.07
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[D]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
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
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	<1.0	<1.0	<1.0	<2.0	<100	--	--	7.25	290.54
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
	10/29/10	<1	<1	<1	<3	<100	--	--	7.89	290.37
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
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
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
	07/09/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	8.17	290.64
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[o]**	**15**			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 Pacific Highway South,Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	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
	07/09/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	8.78	291.47
MTCA Method A Cleanup Level		**5**	**1,000**	**700**	**1,000**	**800/1,000[b]**	**15**			

Explanation of Abbreviations:

TOC	= Top of casing; elevations are based on an arbitrary benchmark.
TPH-G	= total petroleum hydrocarbons as gasoline
MTCA	= Model Toxics Control Act
<	= 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

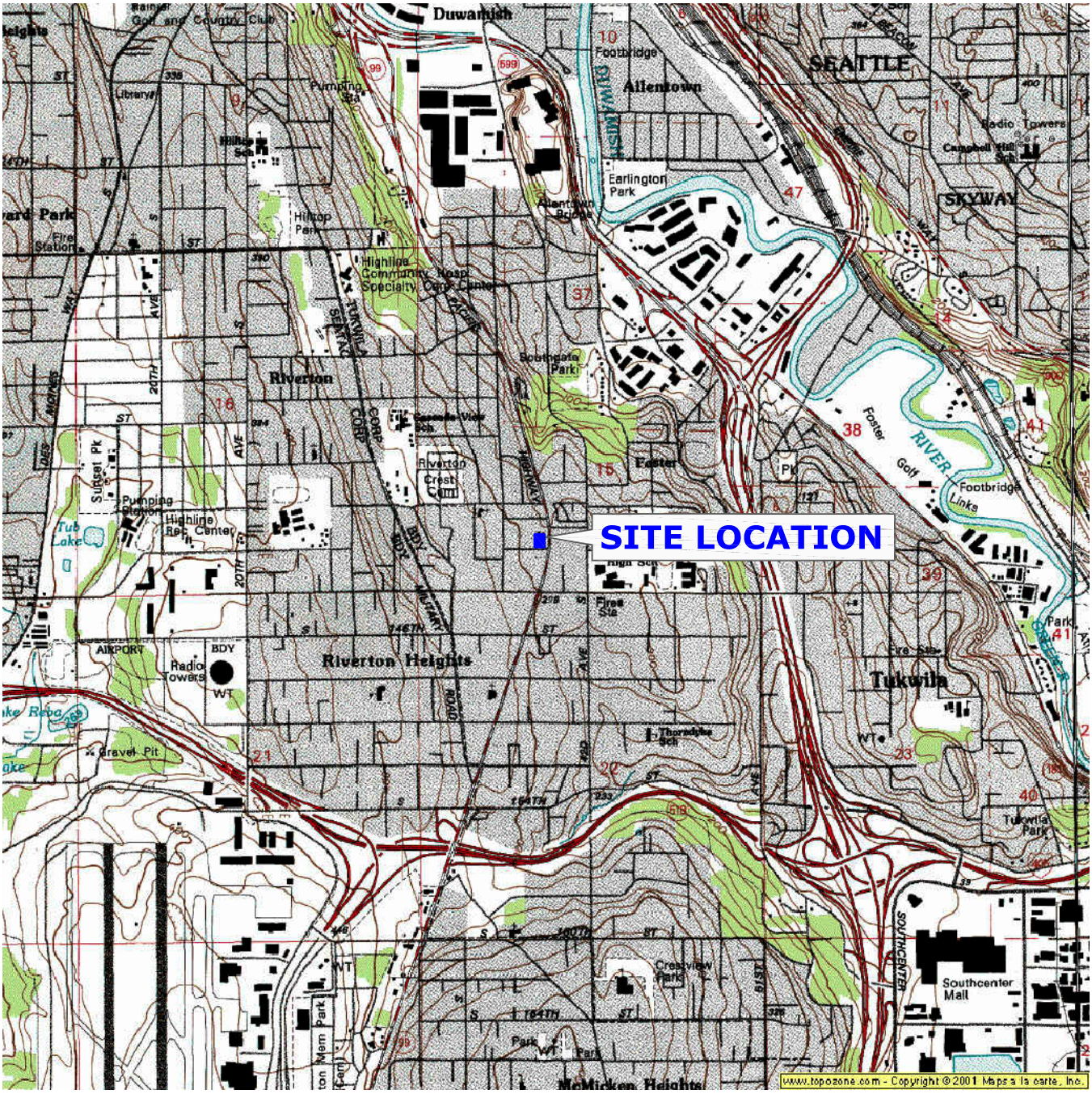
[c] Method blank contamination (1-17-01)

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

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

Combined DPE/SVE remediation system operations commenced on February 25, 1998.

FIGURES



WASHINGTON

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; 1995

Stantec
12034 134th COURT NORTHEAST, SUITE 102
REDMOND, WASHINGTON 98052
PHONE: (425) 298-1000 FAX: (425) 298-1020

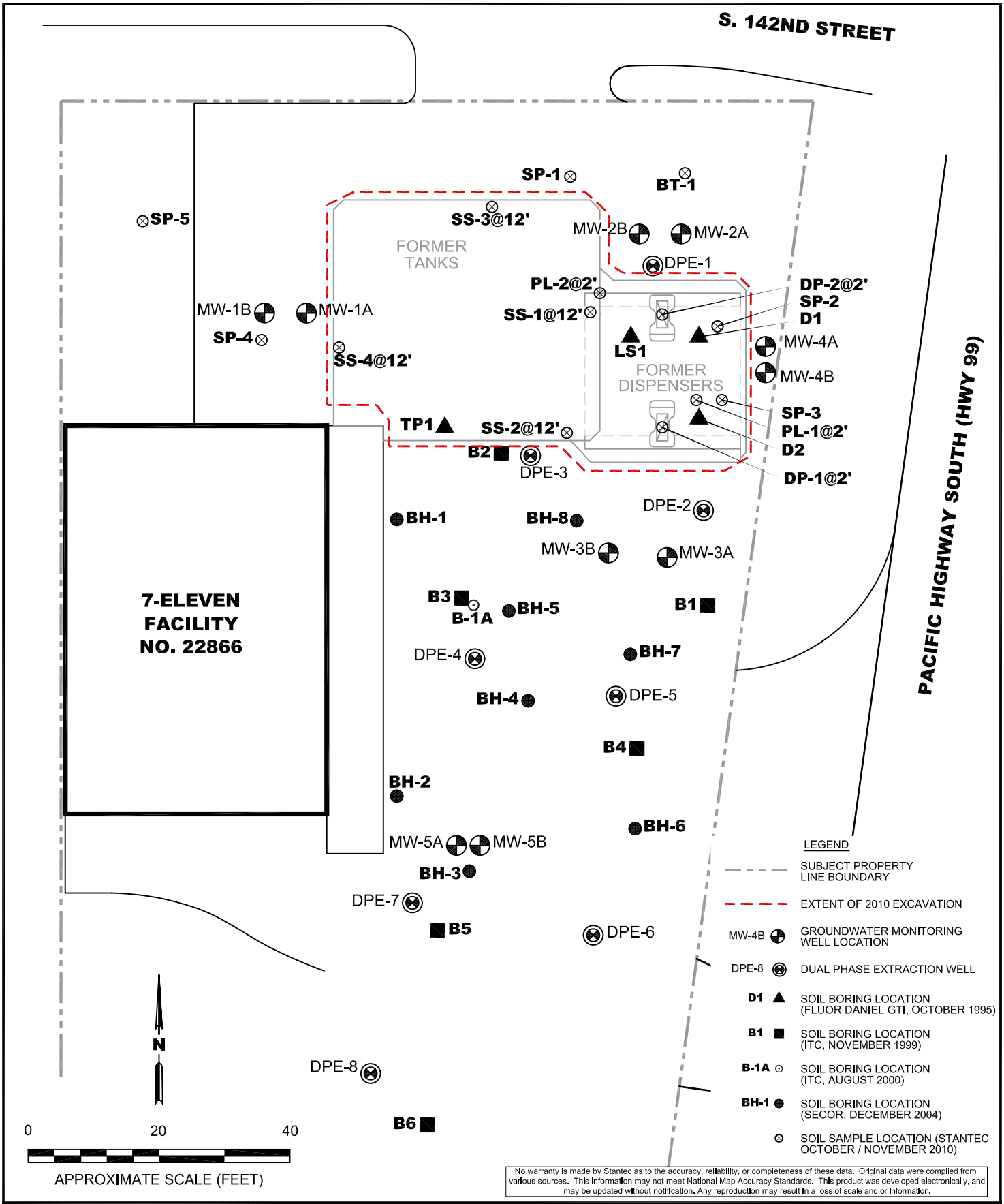
FOR: 7-ELEVEN
FACILITY NO. 22866
14207 PACIFIC HIGHWAY SOUTH
TUKWILA, WASHINGTON

SITE LOCATION MAP

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302520	jr			8/13/09

P:\CADD\PROJECTS\2010\7-11\22866\DWG\7-11_22866_2010.dwg modified by jresendiz on Dec 07, 2010 - 20:04



Stantec
12034 134th COURT NORTHEAST, SUITE 102
REDMOND, WASHINGTON 98052
PHONE: (425) 298-1000 FAX: (425) 298-1020

FOR: 7-ELEVEN
FACILITY NO. 22866
14207 PACIFIC HIGHWAY SOUTH
TUKWILA, WASHINGTON

SITE PLAN WITH HISTORIC SOIL SAMPLE LOCATIONS

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302520	jr			1/6/11

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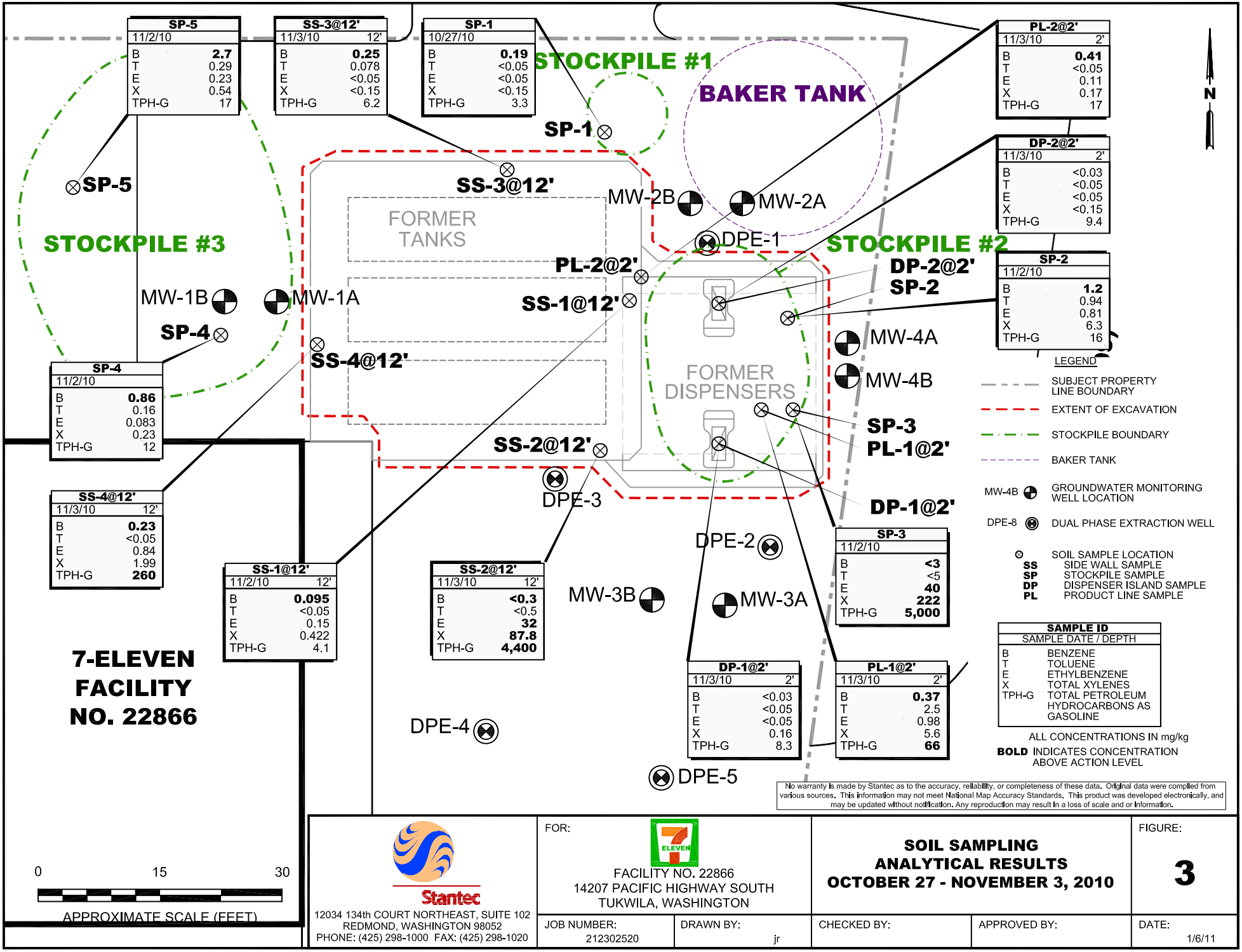

Stantec
12034 134th COURT NORTHEAST, SUITE 102
REDMOND, WASHINGTON 98052
PHONE: (425) 298-1000 FAX: (425) 298-1020

FOR: 7-ELEVEN
FACILITY NO. 22866
14207 PACIFIC HIGHWAY SOUTH
TUKWILA, WASHINGTON

SOIL SAMPLING ANALYTICAL RESULTS OCTOBER 27 - NOVEMBER 3, 2010

FIGURE: **3**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302520	jr			1/6/11

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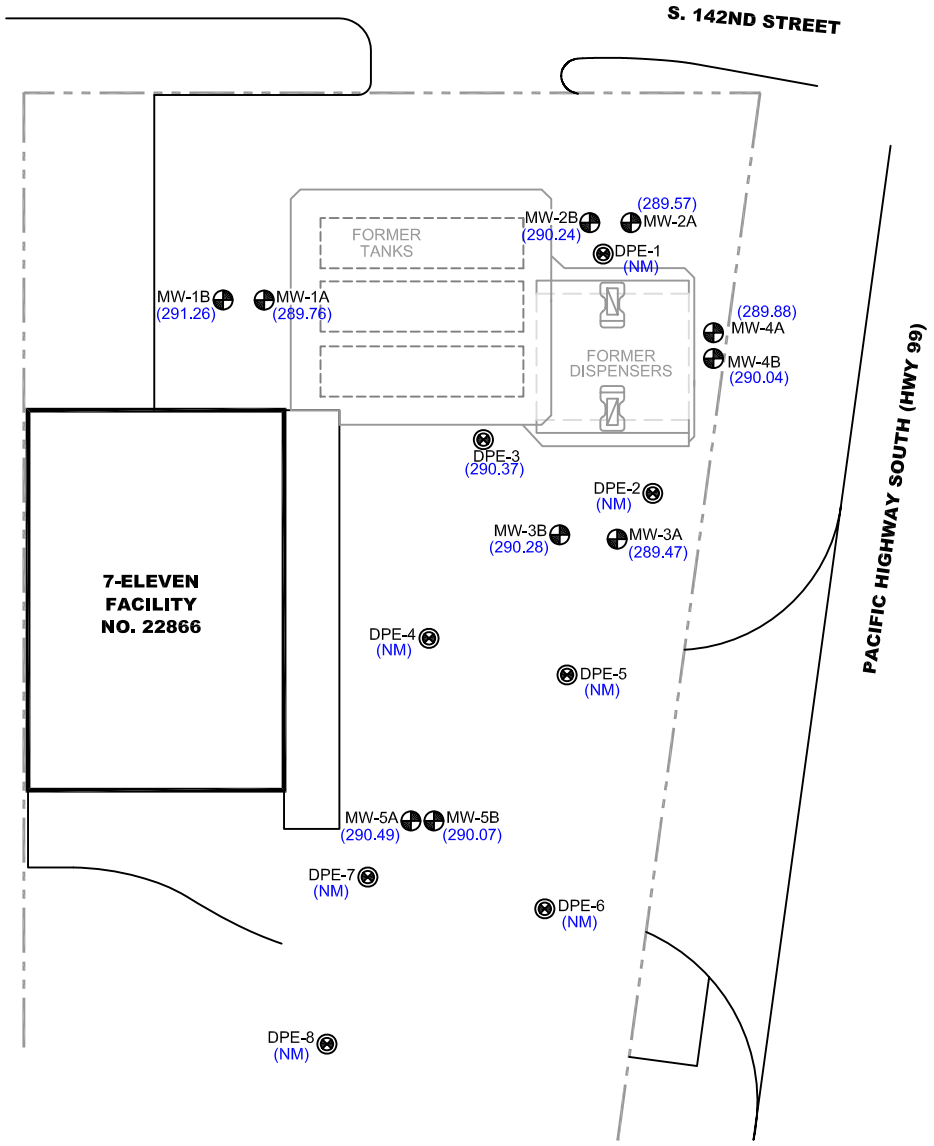


N

0 30 60

APPROXIMATE SCALE (FEET)

LEGEND

- SUBJECT PROPERTY LINE BOUNDARY
- MW-4B — GROUNDWATER MONITORING WELL LOCATION
- DPE-8 — DUAL PHASE EXTRACTION WELL
- (289.18) — RELATIVE GROUNDWATER ELEVATION (FEET)

Stantec
12034 134th COURT NORTHEAST, SUITE 102
REDMOND, WASHINGTON 98052
PHONE: (425) 298-1000 FAX: (425) 298-1020

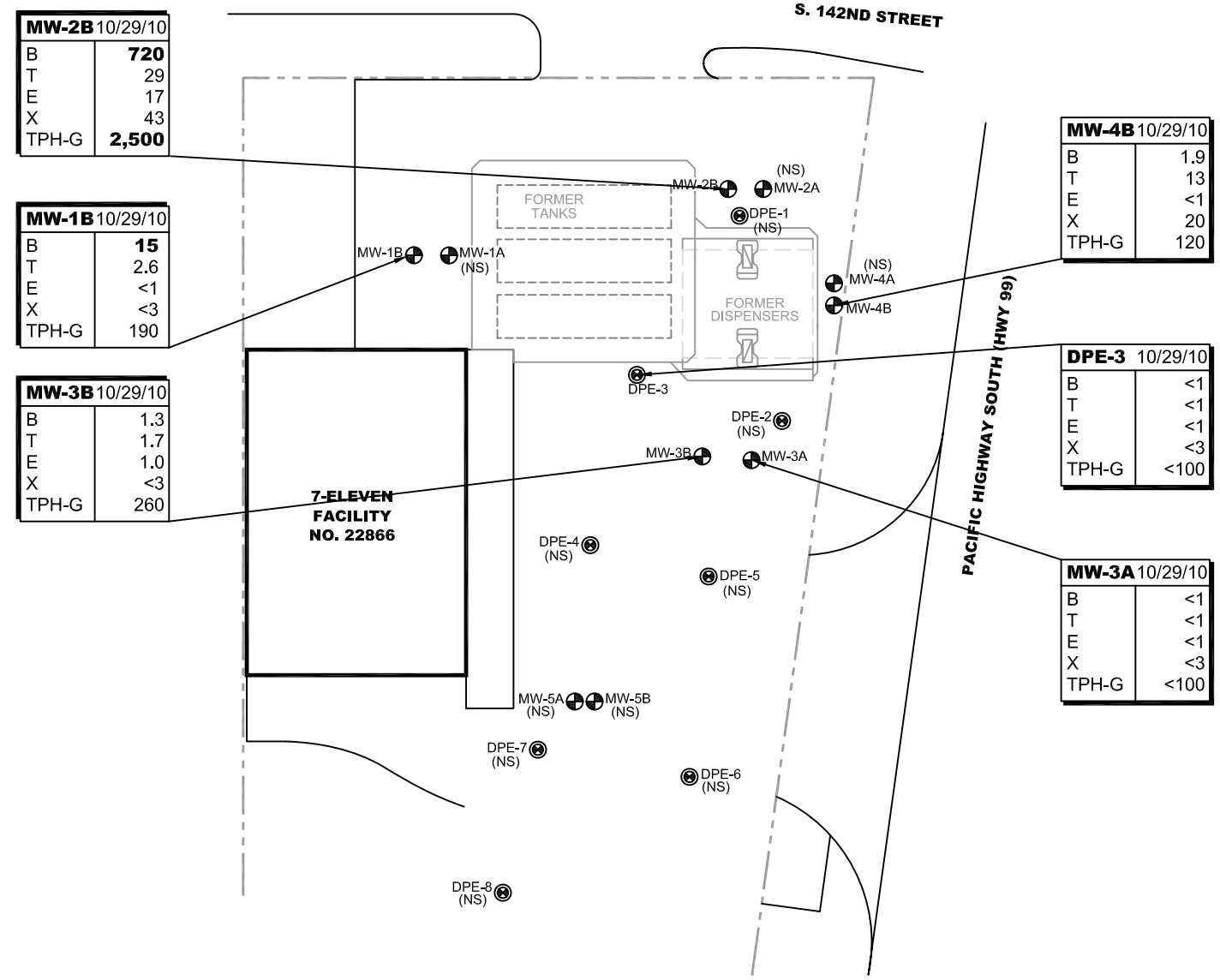
FOR: 7-ELEVEN

FACILITY NO. 22866
14207 PACIFIC HIGHWAY SOUTH
TUKWILA, WASHINGTON

GROUNDWATER ELEVATION MAP
OCTOBER 29, 2010

FIGURE: **4**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302439	JR	AM	AM	1/6/11



N

0 30 60

APPROXIMATE SCALE (FEET)

LEGEND

- SUBJECT PROPERTY LINE BOUNDARY
- MW-4B — GROUNDWATER MONITORING WELL LOCATION
- DPE-8 — DUAL PHASE EXTRACTION WELL
- (NS) — NOT SAMPLED

ANALYTE

MW-1B	DATE
B	BENZENE
T	TOLUENE
E	ETHYLBENZENE
X	XYLENES
TPH-G	GASOLINE

ALL RERUSLTS IN MICROGRAMS PER LITER (µg/L)

BOLD VALUES EXCEED THE MTCA METHOD A CLEANUP LEVEL

Stantec
12034 134th COURT NORTHEAST, SUITE 102
REDMOND, WASHINGTON 98052
PHONE: (425) 298-1000 FAX: (425) 298-1020

FOR: 7-ELEVEN

FACILITY NO. 22866
14207 PACIFIC HIGHWAY SOUTH
TUKWILA, WASHINGTON

GROUNDWATER ANALYTICAL RESULTS OCTOBER 29, 2010

FIGURE: **5**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302439	JR	AM	AM	1/6/11

APPENDIX A

DEPARTMENT OF ECOLOGY UST NOTICES AND CHECKLISTS

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK

30 DAY NOTICE

See back of form for instructions

Please ✓ the appropriate box: ☐ Intent to Install ☒ Intent to Close ☐ Both

FOR OFFICE USE ONLY
Site ID #: _____
FS ID #: _____

Site Information

UBI Number 578-070-490 001 0058

Site/Business Name 7-Eleven Store #22866 (Street)

Site Address 14207 Pacific Highway South

City/State Tukwila/WA

Zip Code 98168 Telephone (206) 241-1519

Owner Information

(This form will be returned to this address)

UST Owner/Operator 7-Eleven, Inc.

Mailing Address _____ (Street)

P.O. Box 711 (P.O. Box)

City/State Dallas/TX

Zip Code 75221-0711 Telephone (800) 255-0711

Tank Installation Company (if known). Fill out this section ONLY if tanks are being installed.

Service Company _____ Contact Name _____

Address _____ (Street) P.O. Box

_____ Telephone (___) _____
City State Zip Code

Tank Permanent Closure Company (if known). Fill out this section ONLY if tanks are being closed.

Service Company To Be Determined Contact Name _____

Address _____ (Street) P.O. Box

_____ Telephone (___) _____
City State Zip Code

Tank Closure Information

Fill out this section ONLY if tanks are being closed.

Tank ID	Projected Closure Date	Tank Capacity	Substance Stored	Date Tank Last Used	Is There Product In the Tank (Yes/No)	If No, Date Tank Was Pumped
REG	9-30-2010	12,000	Unleaded Gas	Unknown	Yes	
NOL	9-30-2010	12,000	Unleaded Gas	Unknown	Yes	
SNL	9-30-2010	12,000	Unleaded Gas	Unknown	Yes	

Tank Installation Information

Fill out this section ONLY if tanks are being installed.

Tank ID	Approx. Install Date

ECY 020-95 (Rev. 01-06)

Instructions

AFTER COMPLETING THIS FORM. RETURN TO:

TOXICS CLEANUP PROGRAM
DEPARTMENT OF ECOLOGY
P.O. BOX 47655
OLYMPIA, WA 98504-7655

Please Read Carefully

Check the appropriate box for tank closure, tank installation, or both.

Site and Owner Information

Fill in the site and owner information. Please include the Ecology site number for tank closures; also, be sure to provide telephone numbers so that any problems can be resolved quickly. Confirmation of receipt of this form will be returned to the owner.

Tank Installation Company

List the installation company, if known. Upon receipt of the completed form, Ecology will validate it and return it to the owner. This validated form allows you to receive a one time drop of product, for UST system testing purposes only. **To dispense product and receive additional deliveries, you must complete the Master Business License registration and obtain your Tank Tag from Ecology. The registration information must be submitted to the Department of Licensing within 30 days of installation to receive a Master Business License with the appropriate tank endorsement(s).**

Tank Permanent Closure Company

List the closure company, if known. Upon receiving a completed 30 day closure form, Ecology will stamp the date received on the form and return a copy to the owner.

Contact your local fire marshal and planning department prior to tank closure to find out if any additional permits are required by county or other local jurisdictions. Compliance with the State Environmental Policy Act (SEPA) Rules, Chapter 197-11 WAC, may be necessary.

Closure may proceed 30 days after the date stamped on the form. A site assessment is required at the time of closure. Contamination found or suspected at the site must be reported to the appropriate Ecology regional office within 24 hours. If the contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days; if contamination is not confirmed, a site assessment report must be submitted to the above address within 30 days.

Please note: Individuals performing UST services MUST be certified by the International Code Council (ICC), or have passed another qualifying exam approved by the Department.

Tank Information

List tanks to be installed or closed. Please report tank ID number(s) for tanks to be closed and assign new tank ID number(s) to tanks being installed. Do not use existing numbers from closed tanks.

The following tanks are exempt from notification requirements:

- Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must not be for resale or used for business purposes.
- Tanks used for storing heating oil that is used on the premises where the tank is located.
- Tanks with a capacity of 110 gallons or less.
- Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.
- Emergency overflow tanks, catch basins, or sumps.

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK
Closure and Site Assessment Notice

See back of form for instructions

FOR OFFICE USE ONLY
Site ID #: _____
Facility Site ID #: _____

Please ✓ the appropriate box(es)
☐ Temporary Tank Closure ☐ Change-In-Service ☒ Permanent Tank Closure ☒ Site Check/Site Assessment

Site Information

Site ID Number 8603
(Available from Ecology if the tanks are registered)
Site/Business Name 7-Eleven Store #22866
Site Address 14207 Pacific Highway South
City/State Tukwila/WA
Zip Code 98168 Telephone (206) 241-1519

Owner Information

UST Owner/Operator 7-Eleven, Inc.
Mailing Address _____ (Street)
P.O. Box 711 (P.O. Box)
City/State Dallas/TX
Zip Code 75221-0711 Telephone (702) 270-7123

Owners Signature _____

Tank Closure/Change-In-Service Company

Service Company Saybr Contractors, Inc.
Certified Supervisor Adam Inman Decommissioning Certification No. 5044195-U2
Supervisor's Signature _____ Date 11/12/2010
Address 3852 South 66th Street (Street) (P.O. Box)
Tacoma (City) WA. (State) 98409 (Zip Code) Telephone (253) 531-2144

Site Check/Site Assessor

Certified Site Assessor Deitrie M. Hanson WA. State Site Assessor # 8012337-U7
Address 12034 134th Court NE Suite 102 (Street) (P.O. Box)
Redmond (City) WA. (State) 98052 (Zip Code) Telephone (425) 298-1073

Tank Information

Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored
REG 9167	11/2/2010	Removal	12,000	Unleaded Gas
NOL 17267	11/2/2010	Removal	12,000	Unleaded Gas
SNL 8565	11/2/2010	Removal	12,000	Unleaded Gas

Contamination Present at the Time of Closure

☒ Yes ☐ No ☐ Unknown
Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

☒ Yes ☐ No
If contamination is present, has the release been reported to the appropriate regional office?

To receive this document in an alternative format, contact the Toxics Cleanup Program at 360-407-7170 (voice) or 1-800-833-6388 OR 711 (TTY)

Instructions

Please Read Carefully

AFTER COMPLETING THIS FORM. RETURN TO:

TOXICS CLEANUP PROGRAM
DEPARTMENT OF ECOLOGY
P.O. BOX 47655
OLYMPIA, WA 98504-7655

This form is to be completed by the tank owner and submitted to Ecology within 30 days of tank closure. Mark the appropriate box(es) for temporary tank closure, permanent tank closure, change-in-service, or site assessment.

Permanent Closure and Change-In-Service require a site assessment be performed.

Site and Owner Information

Fill in the site and owner information. Include the Ecology site number, if known; also, be sure to provide telephone numbers so that any problems can be resolved quickly. **The tank owner MUST sign this form.**

Tank Closure/Change-In-Service Company and Site Check/Site Assessor

List the closure company and fill in the site assessor information for permanent closure or change-in-service. Ask to see the closure company supervisor's ICC Certification and make sure that the certified supervisor signs this form.

Please note: Individuals performing services MUST be certified by the International Code Council (ICC), or other nationally recognized association by which they demonstrate appropriate knowledge pertaining to USTs or have passed another qualifying exam approved by the Department.

Tank Information and Contamination Present at Time of Closure

Please fill in the tank information requested using tank ID numbers previously reported to Ecology. In the column entitled "Closure Method," indicate what manner of closure was used, such as closure in place or removal. Check the appropriate box(es) indicating if contamination is present and has been reported. Contamination found or suspected at the site must be reported to the appropriate Ecology regional office within 24 hours [see below for telephone numbers]. **If contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days; if contamination is not confirmed, then this form, a site assessment checklist, and a site assessment report must be submitted to the above address within 30 days.**

Central	**Eastern**	**Southwest**	**Northwest**
(509) 575-2490	(509) 329-3400	(360) 407-6300	(425) 649-7000

The following tanks are exempt from notification requirements:

- Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must not be for resale or used for business purposes.
- Tanks used for storing heating oil that is used on the premises where the tank is located.
- Tanks with a capacity of 110 gallons or less.
- Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.
- Emergency overflow tanks, catch basins, or sumps.

For more information, call toll free in the state of Washington 1-800-826-7716 (Message).

WASHINGTON STATE DEPARTMENT OF ECOLOGY

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY
Site #:_____
Facility Site ID #:_____

INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

SITE INFORMATION: Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

TANK INFORMATION: Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

CHECKLIST: Please initial each item in the appropriate box.

SITE ASSESSOR INFORMATION: This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section
Department of Ecology
PO Box 47655
Olympia WA 98504-7655

SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): 8603

Site/Business Name: 7-Eleven Store #22866

Site Address: 14207 Pacific Highway South (Street) Telephone: (206) 241-1519

Tukwila (City) WA. (State) 98168-4124 (Zip Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
REG (9167)	12,000	Unleaded Gas
NOL (17267)	12,000	Unleaded Gas
SNL (8565)	12,000	Unleaded Gas

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

_____ Investigate suspected release due to on-site environmental contamination.
_____ Investigate suspected release due to off-site environmental contamination.
_____ Extend temporary closure of UST system for more than 12 months.
_____ UST system undergoing change-in-service.
__X__ UST system permanently closed with tank removed.
_____ Abandoned tank containing product.
_____ Required by Ecology or delegated agency for UST system closed before 12/22/88.
_____ Other (describe): _____

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.	YES	NO
1. The location of the UST site is shown on a vicinity map.	X	
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	X	
3. A summary of UST system data is provided. (see Section 3.1.)	X	
4. The soils characteristics at the UST site are described. (see Section 5.2)	X	
5. Is there any apparent groundwater in the tank excavation?	X	
6. A brief description of the surrounding land use is provided. (see Section 3.1)	X	
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	X	
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected	X	
- groundwater samples distinguished from soil samples (if applicable)	X	
- samples collected from stockpiled excavated soil	X	
- tank and piping locations and limits of excavation pit	X	
- adjacent structures and streets	X	
- approximate locations of any on-site and nearby utilities	X	
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		X
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	X	
11. Any factors that may have compromised the quality of the data or validity of the results are described.		X

12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.	X	

SITE ASSESSOR INFORMATION

Deitrie M. Hanson WA. State Site Assessor # 8012337-U7
Person registered with Ecology

Stantec Consulting Corporation
Firm Affiliated with

Business Address: 12034 134th Court NE Suite 102
Street

Telephone: (425) 298-1073

Redmond | Washington | 98052
City | State | Zip Code

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

12-10-2010
Date

Deitrie Hanson
Signature of Person Registered with Ecology

If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.

APPENDIX B

WASTE MANIFEST, UST DISPOSAL DOCUMENTATION, AND SOIL DISPOSAL RECEIPTS

7-11 Stantec Contaminated Soil Haul-Off Tally					
Load #	Truck	Date	Dump Receipt	Time of Load	Tonnage
1	CTI #259	11/4/2010	203637	11:58 A.M.	37.69 ✓
2	CTI #259	11/4/2010	203640	1:22 P.M.	32.41 ✓
3	CTI #259	11/4/2010	203639	2:39 P.M.	32.51 ✓
4	CTI #373	11/5/2010	203638	7:10 A.M.	35.37 ✓
5	CTI #374	11/5/2010	203646	7:40 A.M.	37.66 ✓
6	CTI #373	11/5/2010	203657	8:44 A.M.	30.18 ✓
7	CTI #374	11/5/2010	203653	9:05 A.M.	33.03 ✓
8	CTI #373	11/5/2010	203656	10:13 A.M.	27.19 ✓
9	CTI #374	11/5/2010	203654	10:35 A.M.	30.22 ✓
10	CTI #373	11/5/2010	203658	11:40 A.M.	33.09 ✓

Total Tonnage	329.35

INMAN
STANTEC 7-11
210139
(# P.C.S. C.O. HAUL-OFF)

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
013213 - 0009
SAYBR CONSTRUCTION INC
14207 Pacific Hwy So. Tukwila
Tacoma, WA 98409
Contract: LW-10400

SITE	TICKET	GRID
01	363501	

WEIGHTMASTER: TC0009L TIARA C

DATE IN	TIME IN
8 November 2010	8:02 am

DATE OUT	TIME OUT
8 November 2010	8:02 am

VEHICLE	ROLL OFF
SOIL	

REFERENCE	ORIGIN

00 Gross Weight 116,660.00 lb
Tare Weight 41,280.00 lb
Net Weight 75,380.00 lb 37.69 TN

259 CTI BT 203637 11-04

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
37.69	TN	SW-CONT SOIL W/FUEL				

Manifest:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
913213 - 0009
BAYER CONSTRUCTION INC
14207 Pacific Hwy So, Tukwila
Tacoma, WA 98409
Contract: LW-10400

SITE	TICKET	GRID
01	363500	

WEIGHMASTER: 7000071 TIARA C

DATE IN	TIME IN
8 November 2010	8:01 AM
DATE OUT	**TIME OUT**
8 November 2010	8:01 AM

VEHICLE	ROLL OFF
SOIL	

REFERENCE	ORIGIN
	TUKWILA, KING

00 Gross Weight 107,060.00 lb
Tare Weight 42,240.00 lb
Net Weight 64,820.00 lb 32.41 TN

25th BT 203640 11-04

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
32.41	TN	SW-CONT SOIL W/FUEL				

Manifest:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
913213 - 0009
GAYNR CONSTRUCTION INC
14207 Pacific Hwy So. Tukwila
Tacoma, WA 98407
Contract: LW-10400

SITE	TICKET	GRID
01	363502	

WEIGHMASTER
TC00091 TIARA C

DATE IN	TIME IN
8 November 2010	8:03 am
DATE OUT	**TIME OUT**
8 November 2010	8:03 am
VEHICLE	**ROLL OFF**
SOIL	
REFERENCE	**ORIGIN**

00 Gross Weight 106,960.00 lb 259 CTIU BT 203639 11-04
Tare Weight 41,920.00 lb
Net Weight 65,020.00 lb 32.51 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
32.51	TN	SW-CONT SOIL W/FUEL				

Manifest:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
013213 - 0009
SAYER CONSTRUCTION INC
14207 Pacific Hwy So, Tukwila
Tacoma, WA 98407
Contract: LW-10400

SITE	TICKET	GRID
01	363506	

WEIGHTMASTER: TC00091 TIARA C

DATE IN	TIME IN
8 November 2010	8:09 am

DATE OUT	TIME OUT
8 November 2010	8:09 am

VEHICLE	ROLL OFF
3011	

REFERENCE	ORIGIN

01 Gross Weight 113,940.00 lb
Tare Weight 43,200.00 lb
Net Weight 70,740.00 lb 35.37 TN

373 CTI BT203638 11-5

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
35.37	TN	SW-CONT SOIL W/FUEL				

Manifest:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER
3RD AND LANDER
SEATTLE, WA
98134 - 0009
SAYER CONSTRUCTION INC
14207 Pacific Hwy So, Tukwila
Tacoma, WA 98407
Contract: LW-10400

SITE	TICKET	GRID
01	363[illegible]	

WEIGHMASTER
[illegible]

DATE IN	TIME IN
8 November 2010	8:06 AM
DATE OUT	TIME OUT
8 November 2010	8:06 AM

VEHICLE	ROLL OFF
SOIL	

REFERENCE	ORIGIN
	TUKWILA/KING

01 Gross Weight 118,660.00 lb 37% CTI ET 203646 11-5
Tare Weight 43,340.00 lb
Net Weight 75,320.00 lb 37.66 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
37.66	TN	SW-CONT SOIL W/FUEL				

REPRINT

Manifest:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK SAFETY CHOOSE LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
013213 - 0009
SAYAH CONSTRUCTION INC
14207 Pacific Hwy So, Tukwila
Tacoma, WA 98409
Contract: LW-10400

SITE	TICKET	GRID
01	363611	

WEIGHTMASTER: TC00091 TIANA C

DATE IN	TIME IN
8 November 2010	8:11 am
DATE OUT	**TIME OUT**
8 November 2010	8:11 am

VEHICLE	ROLL OFF
SOIL	

REFERENCE	ORIGIN
	TUKWILA/KING

00 Gross Weight 103,620.00 lb 373 CTT BT203657 11-5
Tare Weight 43,260.00 lb
Net Weight 60,360.00 lb 30.18 TN

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
30.18	TN	SW-CONT SOIL W/FUEL				
		Manifest:				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
013213 - 0009
SAYER CONSTRUCTION INC
14207 Pacific Hwy So. Tukwila
Tacoma, WA 98405
Contract: LW-10400

SITE	TICKET	GRID
01	363615	

WEIGHTMASTER
TC06091 TIARA C

DATE IN	TIME IN
8 November 2010	8:12 am
DATE OUT	TIME OUT
8 November 2010	8:12 am

VEHICLE	ROLL OFF
3011	

REFERENCE	ORIGIN
	TUKWILA/KING

00 Gross Weight 109,360.00 lb
Tare Weight +3,300.00 lb
Net Weight 66,060.00 lb 33.03 TN

374 CTI BT2003653 11-5

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
33.03	TN	SW-CONT SOIL W/FUEL				
		Manifest:				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
013213 - 0009
SAYER CONSTRUCTION INC
14207 Pacific Hwy So, Tukwila
Tacoma, WA 98409
Contract: LW-10400

SITE	TICKET	GRID
01	363507	

WEIGHMASTER: TC00091 TIARA C

DATE IN	TIME IN
8 November 2010	8:10 am

DATE OUT	TIME OUT
8 November 2010	8:10 am

VEHICLE	ROLL OFF
SOIL	

REFERENCE	ORIGIN

01 Gross Weight 57,480.00 lb
Tare Weight -3,100.00 lb
Net Weight 54,380.00 lb 27.19 TN

373 CTI #T200365a 11-5

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
27.19	TN	SW-CONT SOIL W/FUEL				

Manifest:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER

SEATTLE, WA
013213 - 0007
SWIFT CONSTRUCTION INC
14207 Pacific Hwy So. Tukwila
Tacoma, WA 98407
Contract: LW-10400

SITE	TICKET	GRID
01	363503	

WEIGHTMASTER
TC00091 TIARA C

DATE IN	TIME IN
8 November 2010	8:04 am
DATE OUT	**TIME OUT**
8 November 2010	8:04 am
VEHICLE	**ROLL OFF**
SOIL	
REFERENCE	**ORIGIN**

00 Gross Weight 103,780.00 lb
Tare Weight 43,340.00 lb
Net Weight 60,440.00 lb 30.22 TN

374 CTI ST 203654 11-5

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
30.22	TN	SW-CONT SOIL W/FUEL				

Manifest:

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:

- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE _____

3RD AND LANDER
3RD AND LANDER
SEATTLE, WA
013213 - 0009
SAYBR CONSTRUCTION INC
14207 Pacific Hwy So. Tukwila
Tacoma, WA 98409
Contract: LW-10400

10 9350
43200

SITE	TICKET	GRID
01	363504	

WEIGHMASTER	
TC00091 TIARA C	
DATE IN	TIME IN
8 November 2010	8:05 am
DATE OUT	TIME OUT
8 November 2010	8:06 am
VEHICLE	ROLL OFF
SOIL	
REFERENCE	ORIGIN

00 Gross Weight 123,000.00 lb / Tare Weight / Net Weight 33.09 TN 373 CTI BT 203658 11-5
33.09 TN SW-CONT SOIL W/FUEL

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
		Com JAM Manifest:				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

THINK CHOOSE SAFETY LIVE
It's the Right Thing!

SAFETY MEMOS:
- Hard hats MUST be worn.
- High Visibility vests MUST be worn.
- Passengers MUST remain in vehicle at all times.

SIGNATURE ____________________

SAYBR CONTRACTORS, INC.
3852 South 66th St., Tacoma, WA 98409
Phone (253) 531-2144 • Fax (253) 536-2068

Certificate of Underground Storage Tank Disposal

UST Owner/Operator: 7-Eleven Store 22866

Washington State Department of Licensing UBI Number: 578-070-490
Business ID Number: 001
Location ID: 0058

Washington State Department of Ecology Facility Site ID Number: 23544274

Washington State Department of Ecology UST Site Number: 8603

Site/Business Name: 7-ELEVEN 2307-22866B (as listed with WADOE)

Site Address: 14207 Pacific Hwy S
Seattle, WA 98168

UST INFORMATION

Tank Name	Tank ID	Closure Date	Closure Method	Tank Capacity	Substance Stored	Disposal Method
NOL	17267	11/2/10	Removal	12,000 gallons	Unleaded Gasoline	Destruction
SNL	8565	11/2/10	Removal	12,000 gallons	Unleaded Gasoline	Destruction
REG	9167	11/2/10	Removal	12,000 gallons	Unleaded Gasoline	Destruction

Certified UST Service Provider: Adam Inman

Decommissioning Certificate No.: 5044195-U2

Signature: _____ **Date:** 11/12/2010

This form certifies that Saybr Contractors, Inc. properly disposed of the above listed tank(s).

SAYBR CONTRACTORS, INC.

Eric G. Martin
Project Manager

APPENDIX C

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 LPH concentrations, lower a transparent bailer into the well to evaluate the presence of a hydrocarbon 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 wells 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 rinse 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.

APPENDIX D

MONITORING AND SAMPLING FIELD DATA SHEETS

SITE VISITATION REPORT

4Q10 - 7-Eleven Service Station No. 22866- Tukwila, WA

Name(s) Dan Reitz Date: 10/29/10 Time of Arrival Call-In: 1110

Arrival Time: 1100 Departure Time: 1600 Time of Departure Call-In 1550

Who did you call? Paul Fairbairn

DRUM INVENTORY

2	WATER		CARBON	TOTAL OPEN TOP	1
	SOIL		EMPTY	TOTAL BUNG TOP	1

HEALTH AND SAFETY ASSESSMENT

Don P.P.E
Set-up Decon Station
Review HASP & J.S.A

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

1100 Arrive on job site. Meet with Dg Hancom (Stantec). Call-in to office. Check-in with site-contact

1105 Perform tailgate safety meeting.

1130 Don appropriate P.P.E. Set-up decon station.

1145 Conduct site-walk.

1200 Initiate gauging of physical measurements at 11 gwm wells prior to 4Q10 GWM sample procedures

1255 Complete gauging procedures & initiate 4Q10 GWM sample procedures at 6 gwm wells.

1536 Complete 4Q10 GWM sample procedures. Decon equipment and release purge water / decon rinsates into staged drum. Label drum. Pack sample cooler & relinquish samples / C.O.C.

1550 Load equipment into truck. Check-out with site contact & call-in to office.

1600 Depart job site.

Stantec

HYDROLOGIC DATA SHEET

Gauge Date: 10/29/10 Project Name: 7-Eleven #22866

Field Technician: D. Rotz Project Number: 212302520

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

Flow through cell calibrated Y X N

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
MW-1B			1250	—	7.93	14.50	Y	N	Y	
MW-1A			1245	—	9.26	32.80	N	N	N	
MW-2A			1235	—	7.64	34.50	N	N	N	
MW-2B			1240	—	6.98	12.30	Y	N	Y	
MW-4A			1235	—	7.45	24.50	N	N	N	
MW-4B			1230	—	7.15	14.50	Y	N	Y	
MW-3A			1215	—	8.44	34.50	Y	N	Y	
MW-3B			1220	—	7.56	14.70	Y	N	Y	
DPE-3			1225	—	7.89	18.40	Y	N	Y	
MW-5A			1210	—	8.15	24.50	N	N	N	
MW-5B			1205	—	8.56	14.40	N	N	N	

Stantec

WATER SAMPLE FIELD DATA SHEET

Stantec

PROJECT #: 212302520 PURGED BY: D. Reitz

CLIENT NAME: 7-Eleven SAMPLED BY: D. Reitz SAMPLE I.D.: MW-1B

LOCATION: 14207 Tukwila International BLVD/ HWY 99; Tukwila, WA

DATE PURGED 10/29/2010 START (2400hr) 1255

DATE SAMPLED 10/29/2010 SAMPLE TIME (2400hr) 1310 LOW-FLOW USED X

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 4" ____ 6" ____

Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 14.50

DEPTH TO WATER (feet) = 7.93

WATER COLUMN HEIGHT (feet) = 6.57 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	O.R.P.
10/29/10	1300	500	16.32	36	4.7	Clr.	47
	1303	500	16.41	36	4.7	Clr.	49
	1306	500	16.32	36	4.7	Clr.	46
	1309	500	16.34	36	4.8	Clr.	39
						Clr	
							10/29/10
Calculated Variance of Final Three Samples:			0.09	0	0.1		10.0
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1		≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: 13.00 SAMPLE DTW: 8.30

QTY OF SAMPLE VESSELS & PRESERVATIVE:	ANALYSES:
3-HCL VOA'S PER WELL	NWTPH-g
	BTEX-g

PURGING EQUIPMENT:	SAMPLING EQUIPMENT:
Cole Parmer Environmental Sampler Model# 7175-00	YSI MPS 556

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

Stantec

WATER SAMPLE FIELD DATA SHEET

Stantec

PROJECT #: 212302520 PURGED BY: D. Reitz

CLIENT NAME: 7-Eleven SAMPLED BY: D. Reitz SAMPLE I.D.: MW-2B

LOCATION: 14207 Tukwila International BLVD/ HWY 99; Tukwila, WA

DATE PURGED 10/29/2010 START (2400hr) 1325

DATE SAMPLED 10/29/2010 SAMPLE TIME (2400hr) 1340 LOW-FLOW USED X

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 4" ____ 6" ____

Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 12.30

DEPTH TO WATER (feet) = 6.98

WATER COLUMN HEIGHT (feet) = 5.32 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE 10/29/10	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	O.R.P.
	1330	800	17.10	64	5.5	Clr	-68
	1333	500	17.14	62	5.5	Clr	-73
	1336	500	17.19	62	5.5	Clr	-77
	1339	500	17.26	60	5.5	Clr	-81
						10/29	10
Calculated Variance of Final Three Samples:			0.12	2.0	0		9.0
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1		≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: 10.00 SAMPLE DTW: 7.74

QTY OF SAMPLE VESSELS & PRESERVATIVE:	ANALYSES:
3-HCL VOA'S PER WELL	NWTPH-g
	BTEX-g

PURGING EQUIPMENT:	SAMPLING EQUIPMENT:
Cole Parmer Environmental Sampler Model# 7175-00	YSI MPS 556

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: ____

Stantec

WATER SAMPLE FIELD DATA SHEET

Stantec
PROJECT #: 212302520 PURGED BY: D. Reitz
CLIENT NAME: 7-Eleven SAMPLED BY: D. Reitz SAMPLE I.D.: MW-4B
LOCATION: 14207 Tukwila International BLVD/ HWY 99; Tukwila, WA

DATE PURGED 10/29/2010 START (2400hr) 1350
DATE SAMPLED 10/29/2010 SAMPLE TIME (2400hr) 1405 LOW-FLOW USED X
SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" ____ 4" X 6" ____
Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 14.50
DEPTH TO WATER (feet) = 7.15
WATER COLUMN HEIGHT (feet) = ____ ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE 10/29/10	TIME (2400hr)	VOLUME (GAL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	O.R.P.
	1355	500	16.82	57	5.5	Clr	-61
	1358	500	16.76	57	5.5	Clr	-60
↓	1401	500	16.75	57	5.5	Clr	-60
	1404	500	16.77	57	5.5	Clr	-61
						10/29/	10
Calculated Variance of Final Three Samples:			0.02	0	0		1.0
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1		≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: 12.00 SAMPLE DTW: 7.40

QTY OF SAMPLE VESSELS & PRESERVATIVE:	ANALYSES:
3-HCL VOA'S PER WELL	NWTPH-g
	BTEX-g

PURGING EQUIPMENT:	SAMPLING EQUIPMENT:
Cole Parmer Environmental Sampler Model# 7175-00	YSI MPS 556

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair
WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes
WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

Stantec

WATER SAMPLE FIELD DATA SHEET

Stantec

PROJECT #: 212302520 PURGED BY: D. Reitz

CLIENT NAME: 7-Eleven SAMPLED BY: D. Reitz SAMPLE I.D.: MW-3A

LOCATION: 14207 Tukwila International BLVD/ HWY 99; Tukwila, WA

DATE PURGED 10/29/2010 START (2400hr) 1420

DATE SAMPLED 10/29/2010 SAMPLE TIME (2400hr) 1435 LOW-FLOW USED X

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 4" ____ 6" ____

Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 34.50

DEPTH TO WATER (feet) = 8.44

WATER COLUMN HEIGHT (feet) = 26.06 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE 10/29/10	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	O.R.P.
	1425	500	16.69	99	5.8	Clr	-101
↓	1428	500	17.01	98	5.9	Clr	-107
	1431	500	17.07	99	5.9	Clr	-110
	1434	500	17.36	98	5.9	Clr	-112
					10 /	29 / 10	
Calculated Variance of Final Three Samples:			0.35	1.0	0		5.0
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1		≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: 31.00 SAMPLE DTW: 8.52

QTY OF SAMPLE VESSELS & PRESERVATIVE:	ANALYSES:
3-HCL VOA'S PER WELL	NWTPH-g
	BTEX-g

PURGING EQUIPMENT:	SAMPLING EQUIPMENT:
Cole Parmer Environmental Sampler Model# 7175-00	YSI MPS 556

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: ____ Page ____ of ____

Stantec

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302520 PURGED BY: D. Reitz

CLIENT NAME: 7-Eleven SAMPLED BY: D. Reitz SAMPLE I.D.: MW-3B

LOCATION: 14207 Tukwila International BLVD/ HWY 99; Tukwila, WA

DATE PURGED 10/29/2010 START (2400hr) 1440

DATE SAMPLED 10/29/2010 SAMPLE TIME (2400hr) 1455 LOW-FLOW USED X

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 4" ____ 6" ____

Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 14.70

DEPTH TO WATER (feet) = 7.56

WATER COLUMN HEIGHT (feet) = 7.14 ACTUAL PURGE (GL) = 2.5

FIELD MEASUREMENTS

DATE 10/29/10	TIME (2400hr)	VOLUME (GL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	O.R.P.
	1445	800	17.54	99	5.7	Clr	-86
	1448	500	17.68	98	5.7	Clr	-89
	1451	500	17.74	98	5.7	Clr	-91
	1454	500	17.82	98	5.7	Clr	-92
Calculated Variance of Final Three Samples:			0.14	0	0		3.0
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1		≤ 10%

DEPTH TO PURGE INTAKE DURING PURGE: 11.00 SAMPLE DTW: 7.94

QTY OF SAMPLE VESSELS & PRESERVATIVE:	ANALYSES:
3-HCL VOA'S PER WELL	NWTPH-g
	BTEX-g

PURGING EQUIPMENT:	SAMPLING EQUIPMENT:
Cole Parmer Environmental Sampler Model# 7175-00	YSI MPS 556

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

Stantec

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212302520 PURGED BY: D. Reitz

CLIENT NAME: 7-Eleven SAMPLED BY: D. Reitz SAMPLE I.D.: DPE-3

LOCATION: 14207 Tukwila International BLVD/ HWY 99; Tukwila, WA

DATE PURGED 10/29/2010 START (2400hr) 1500

DATE SAMPLED 10/29/2010 SAMPLE TIME (2400hr) 1515 LOW-FLOW USED X

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" ____ 4" X 6" ____

Casing Volume: (liters per foot) (0.16) (0.6) (1.46)

DEPTH TO BOTTOM (feet) = 18.40

DEPTH TO WATER (feet) = 7.89

WATER COLUMN HEIGHT (feet) = 10.51 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE 10/29/10	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	O.R.P.
	1505	800	16.73	16	6.1	Cldy	-93
	1508	500	16.45	14	6.0	Cldy	-81
	1511	500	16.61	13	5.9	Cldy	-67
↓	1514	500	16.71	12	5.8	Cldy	-52
						10/29/10	
Calculated Variance of Final Three Samples:			0.26	2	0.2		29
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1		≤10%

DEPTH TO PURGE INTAKE DURING PURGE: 15.00 SAMPLE DTW: 8.15

QTY OF SAMPLE VESSELS & PRESERVATIVE:	ANALYSES:
3-HCL VOA'S PER WELL	NWTPH-g
	BTEX-g

PURGING EQUIPMENT:	SAMPLING EQUIPMENT:
Cole Parmer Environmental Sampler Model# 7175-00	YSI MPS 556

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: ____

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To: PAUL FAIRBAIRN
Company: STANTEC CONSULTING CORP.
Address: 12034 134th COURT NE Ste 102
City, State, ZIP: REDMOND, WA 98052
Phone #: (425) 298-1016 Fax #: (425) 298-10R

SAMPLERS (signature):

PROJECT NAME/NO.: #228606 4th QTR GWM/ 212302520, 210.0410

PO#:

REMARKS:

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	TOTAL LEAD	DISSOLVED LEAD					Notes
MW-1B		10/28/10	1310	WATER	7		X	X				X	X					
MW-2B		"	1340	WATER	7		X	X				X	X					
MW-4B		"	1405	WATER	7		X	X				X	X					
MW-3A		"	1455	WATER	5		X	X		X								
MW-3B		"	1455	WATER	5		X	X			X							
RBC-3		"	1515	WATER	5		X	X	X									

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Reitz	Stantec	10/28/10	1530
Received by:				
Relinquished by:				
Received by:				

FORMS\COC\COC.DOC

APPENDIX E

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 3, 2010

Paul Fairbairn, Project Manager
Stantec
12034 134th Ct NE Suite 102
Redmond, WA 98052

Dear Mr. Fairbairn:

Included are the results from the testing of material submitted on October 28, 2010 from the 22866 Tukwila UST Removal 212302520 Task 210.0403, F&BI 010322 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
STN1103R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 28, 2010 by Friedman & Bruya, Inc. from the Stantec 22866 Tukwila UST Removal 212302520 Task 210.0403, F&BI 010322 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Stantec
010322-01	SP-1

All quality control requirements were acceptable.

Date of Report: 11/03/10
Date Received: 10/28/10
Project: 22866 Tukwila UST Removal 212302520 Task 210.0403, F&BI 010322
Date Extracted: 10/28/10
Date Analyzed: 10/28/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
SP-1 010322-01	3.3	95
Method Blank 00-1747 MB	<2	112

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SP-1	Client:	Stantec
Date Received:	10/28/10	Project:	22866 Tukwila UST Removal 212302520
Date Extracted:	10/28/10	Lab ID:	010322-01
Date Analyzed:	10/28/10	Data File:	102753.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	42	152
Toluene-d8	97	36	149
4-Bromofluorobenzene	95	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.19
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Stantec
Date Received:	Not Applicable	Project:	22866 Tukwila UST Removal 212302520
Date Extracted:	10/27/10	Lab ID:	001705 mb2
Date Analyzed:	10/28/10	Data File:	102748.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	42	152
Toluene-d8	101	36	149
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

Date of Report: 11/03/10
Date Received: 10/28/10
Project: 22866 Tukwila UST Removal 212302520 Task 210.0403, F&BI 010322

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 010314-04 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	90	71-131

Date of Report: 11/03/10
Date Received: 10/28/10
Project: 22866 Tukwila UST Removal 212302520 Task 210.0403, F&BI 010322

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	2.5	86	87	69-122	1
Toluene	mg/kg (ppm)	2.5	90	93	72-122	3
Ethylbenzene	mg/kg (ppm)	2.5	93	94	72-130	1
m,p-Xylene	mg/kg (ppm)	5	92	94	72-131	2
o-Xylene	mg/kg (ppm)	2.5	95	98	71-129	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

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.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

SAMPLE CHAIN OF CUSTODY

Send Report To PAUL FAIRBAIRN

Company STANTEC [illegible]

Address 12034 134th Court NE Suite [illegible]

City, State, ZIP REDMOND WA 98052

Phone # (425) 298-1016 Fax # [illegible]

SAMPLERS (*signature*) [illegible signature]

PROJECT NAME/NO.	PO #
[illegible]	

REMARKS [illegible] SP-1 on 24hr RUSH

Page # 1 of 1

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH 24 hour RUSH

Rush charges authorized by: PAUL FAIRBAIRN

SAMPLE DISPOSAL
- ☒ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	BTEX by 8260						Notes
SP-1		[illegible]	[illegible]	SOIL	5		X					X						PID=45 ppm

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [illegible signature]	[illegible] Hanson	Stantec	[illegible]	0820
Received by: [illegible signature]	[illegible]	[illegible]	[illegible]	[illegible]
Relinquished by:				
Received by:				

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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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November 19, 2010

Paul Fairbairn, Project Manager
Stantec
12034 134th Ct NE, Suite 102
Redmond, WA 98052

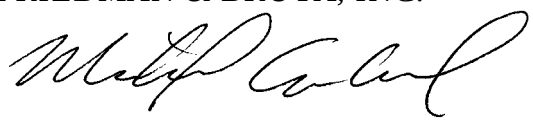
Dear Mr. Fairbairn:

Included are the results from the testing of material submitted on November 3, 2010 from the 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040 project. There are 25 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
STN1119R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on November 3, 2010 by Friedman & Bruya, Inc. from the Stantec 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Stantec
011040-01	SP-2
011040-02	SP-3
011040-03	SP-4
011040-04	SP-5
011040-05	SS-1@12'
011040-06	BT-1
011040-07	SS-2@12'
011040-08	DP-1@2'
011040-09	PL-1@2'
011040-10	DP-2@2'
011040-11	SS-3@12'
011040-12	SS-4@12'
011040-13	PL-2@2'

All quality control requirements were acceptable.

Date of Report: 11/19/10
Date Received: 11/03/10
Project: 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040
Date Extracted: 11/03/10
Date Analyzed: 11/03/10 and 11/04/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
SP-2 011040-01	16	116
SP-3 011040-02 1/50	5,000	ip
SP-4 011040-03	12	89
SP-5 011040-04	17	103
SS-1@12' 011040-05	4.1	95
SS-2@12' 011040-07 1/50	4,400	ip
DP-1@2' 011040-08	8.3	109
PL-1@2' 011040-09	66	110
DP-2@2' 011040-10	9.4	105
SS-3@12' 011040-11	6.2	94
SS-4@12' 011040-12 1/10	260	ip

Date of Report: 11/19/10
Date Received: 11/03/10
Project: 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040
Date Extracted: 11/03/10
Date Analyzed: 11/03/10 and 11/04/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 58-139)
PL-2@2' 011040-13	17	118
Method Blank 00-1755 MB	<2	91

Date of Report: 11/19/10
Date Received: 11/03/10
Project: 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040
Date Extracted: 11/04/10
Date Analyzed: 11/04/10

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
BT-1 011040-06	1,100	84
Method Blank 00-1815 MB	<100	71

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SP-2	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-01
Date Analyzed:	11/04/10	Data File:	110408.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	42	152
Toluene-d8	105	36	149
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	1.2
Toluene	0.94
Ethylbenzene	0.81
m,p-Xylene	4.7
o-Xylene	1.6

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SP-3	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-02
Date Analyzed:	11/04/10	Data File:	110411.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	42	152
Toluene-d8	100	36	149
4-Bromofluorobenzene	105	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	1.9
Toluene	1.9
Ethylbenzene	19 ve
m,p-Xylene	62 ve
o-Xylene	36 ve

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SP-3	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-02 1/100
Date Analyzed:	11/05/10	Data File:	110447.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	114	42	152
Toluene-d8	122	36	149
4-Bromofluorobenzene	118	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<3
Toluene	<5
Ethylbenzene	40
m,p-Xylene	170
o-Xylene	52

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SP-4	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-03
Date Analyzed:	11/04/10	Data File:	110409.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	42	152
Toluene-d8	105	36	149
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.86
Toluene	0.16
Ethylbenzene	0.083
m,p-Xylene	0.23
o-Xylene	<0.05

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SP-5	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-04
Date Analyzed:	11/04/10	Data File:	110410.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	42	152
Toluene-d8	107	36	149
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	2.7
Toluene	0.29
Ethylbenzene	0.23
m,p-Xylene	0.48
o-Xylene	0.060

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SS-1@12'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-05
Date Analyzed:	11/04/10	Data File:	110420.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	42	152
Toluene-d8	107	36	149
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.095
Toluene	<0.05
Ethylbenzene	0.15
m,p-Xylene	0.36
o-Xylene	0.062

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SS-2@12'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-07 1/10
Date Analyzed:	11/05/10	Data File:	110449.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	113	42	152
Toluene-d8	118	36	149
4-Bromofluorobenzene	118	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.3
Toluene	<0.5
Ethylbenzene	32
m,p-Xylene	86
o-Xylene	1.8

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DP-1@2'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-08
Date Analyzed:	11/04/10	Data File:	110421.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	42	152
Toluene-d8	108	36	149
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	0.10
o-Xylene	0.057

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	PL-1@2'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-09
Date Analyzed:	11/04/10	Data File:	110422.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	42	152
Toluene-d8	109	36	149
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.37
Toluene	2.5
Ethylbenzene	0.98
m,p-Xylene	4.0
o-Xylene	1.6

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DP-2@2'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-10
Date Analyzed:	11/05/10	Data File:	110432.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	42	152
Toluene-d8	108	36	149
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SS-3@12'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-11
Date Analyzed:	11/04/10	Data File:	110430.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	42	152
Toluene-d8	109	36	149
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.25
Toluene	0.078
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SS-4@12'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-12
Date Analyzed:	11/05/10	Data File:	110431.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	42	152
Toluene-d8	107	36	149
4-Bromofluorobenzene	108	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.23
Toluene	<0.05
Ethylbenzene	0.84
m,p-Xylene	1.8
o-Xylene	0.19

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	PL-2@2'	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-13
Date Analyzed:	11/05/10	Data File:	110431A.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	42	152
Toluene-d8	109	36	149
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	0.41
Toluene	<0.05
Ethylbenzene	0.11
m,p-Xylene	0.17
o-Xylene	<0.05

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Stantec
Date Received:	Not Applicable	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	001767 mb
Date Analyzed:	11/04/10	Data File:	110407.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	42	152
Toluene-d8	104	36	149
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	BT-1	Client:	Stantec
Date Received:	11/03/10	Project:	22866 Tukwila
Date Extracted:	11/03/10	Lab ID:	011040-06
Date Analyzed:	11/03/10	Data File:	110316.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	63	127
Toluene-d8	102	65	127
4-Bromofluorobenzene	97	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	74
Toluene	160 ve
Ethylbenzene	25
m,p-Xylene	97
o-Xylene	49

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Stantec
Date Received:	Not Applicable	Project:	22866 Tukwila
Date Extracted:	11/10/10	Lab ID:	001780 mb
Date Analyzed:	11/10/10	Data File:	111011.D
Matrix:	Water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	63	127
Toluene-d8	99	65	127
4-Bromofluorobenzene	98	69	127

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Date of Report: 11/19/10
Date Received: 11/03/10
Project: 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 011025-08 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	85	61-153

Date of Report: 11/19/10
Date Received: 11/03/10
Project: 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES
TPH AS GASOLINE
USING METHOD NWTPH-Gx

Laboratory Code: 009202-05 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	ug/L (ppb)	210	210	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	98	69-134

Date of Report: 11/19/10
Date Received: 11/03/10
Project: 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 011040-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Benzene	mg/kg (ppm)	2.5	<0.03	50	39-136
Toluene	mg/kg (ppm)	2.5	<0.05	58	38-139
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	65	46-135
m,p-Xylene	mg/kg (ppm)	5	<0.1	65	45-135
o-Xylene	mg/kg (ppm)	2.5	<0.05	66	44-137

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	2.5	81	85	69-122	5
Toluene	mg/kg (ppm)	2.5	87	89	72-122	2
Ethylbenzene	mg/kg (ppm)	2.5	91	93	72-130	2
m,p-Xylene	mg/kg (ppm)	5	92	93	72-131	1
o-Xylene	mg/kg (ppm)	2.5	94	95	71-129	1

Date of Report: 11/19/10
Date Received: 11/03/10
Project: 22866 Tukwila UST Removal 212302520.210.0403, F&BI 011040

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	ug/L (ppb)	50	101	100	77-121	1
Toluene	ug/L (ppb)	50	101	99	81-113	2
Ethylbenzene	ug/L (ppb)	50	100	97	83-116	3
m,p-Xylene	ug/L (ppb)	100	104	101	84-120	3
o-Xylene	ug/L (ppb)	50	112	111	83-120	1

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

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.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

010040

SAMPLE CHAIN OF CUSTODY

ME 11-03-10 V52/C12/V1

Page # 1 of 2

Send Report To PAUL FAIRBAIRN
Company STANTEC CONSULTING CORPORATION
Address 12034 134th COURT NE STE 102
City, State, ZIP REDMOND, WA 98052
Phone # (425) 298-1016 Fax # (425) 298-1019

SAMPLERS (signature) Deitrie Hanson

PROJECT NAME/NO. #22866 Tukwila UST Removal 2123020520, 210.0403

PO #

REMARKS
Please run SP-2, SP-3, SP-4, SP-5, BT-1 on 24 hr RUSH turnaround time, standard TAT for SS-1@12' etc. samples.

TURNAROUND TIME
- [X] Standard (2 Weeks)
- [X] RUSH 24 hour RUSH

Rush charges authorized by: Paul Fairbairn

SAMPLE DISPOSAL
- [X] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	BTEX by 8260						Notes
SP-2	01 A-E	11/2/10	1000	SOIL	5		X					X						PID=875ppm
SP-3	02 A-E	11/2/10	1045	SOIL	5		X					X						PID=2,226ppm
SP-4	03 A-E	11/2/10	1310	SOIL	5		X					X						PID=475ppm
SP-5	04 A-E	11/2/10	1320	SOIL	5		X					X						PID=275ppm
SS-1@12'	05 A-E	11/2/10	1030	SOIL	5		X					X						PID=276ppm
BT-1	06 A-E	11/2/10	1625	WATER	5		X					X						Baker Tank Rainwater sample
SS-2@12'	07 A-E	11/3/10	0825	SOIL	5		X					X						PID=2,610ppm
DP-1@2'	08 A-E	11/3/10	0850	SOIL	5		X					X						PID=25.2ppm
PL-1@2'	09 A-E	11/3/10	0915	SOIL	5		X					X						PID=643ppm
DP-2@2'	10 A-E	11/3/10	0930	SOIL	5		X					X						PID=906ppm

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Deitrie Hanson	Deitrie Hanson	Stantec	11/3/10	1255
Received by: Joel Zurich	Joel Zurich	Champion	"	"
Relinquished by:		Samples received at 4 °C		
Received by: Nhan Phan	Nhan Phan	FeBI	11/3/10	1400

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

010040

SAMPLE CHAIN OF CUSTODY

ME 11-03-10 VS2/2 CL2/V1

Page # 2 of 2

Send Report To PAUL FAIRBAIRN
Company STANTEC CONSULTING CORPORATION
Address 12034 134th COURT NE SUITE 102
City, State, ZIP REDMOND, WA 98052
Phone # (425) 298-1016 Fax # (425) 298-1019

SAMPLERS (signature) Deitrie Hanson

PROJECT NAME/NO. #22866 Tukwila UST Removal /2123025 20, 210.0403

PO #

REMARKS
Please run SP-2, SP-3, SP-4, SP-5, BT-1 on 24 hr RUSH. Do standard TAT for the SS-1@12' SS-2@12', SS-3@12', SS-4@12', and DP-PL

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [x] RUSH 24 hour RUSH

Rush charges authorized by: Paul Fairbairn

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	BTEX by 8260						Notes
SS-3@12'	11 A-E	11/3/10	1005	SOIL	5		X					X						PID=83.2 ppm
SS-4@12'	12 A-E	11/3/10	1015	SOIL	5		X					X						PID=931 ppm
PL-2@2'	13 A-E	11/3/10	1145	SOIL	5		X					X						PID=248 ppm
												Samples received at ____ °C						

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FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Deitrie Hanson	Deitrie Hanson	Stantec	11/3/10	1255
Received by: Joel Zurich	Joel Zurich	Champion	"	"
Relinquished by:				
Received by: Nhan Phan	Nhan Phan	FedEx	11/3/10	1400

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

November 12, 2010

Paul Fairbairn, Project Manager
Stantec
12034 134th Ct NE, Suite 102
Redmond, WA 98052

Dear Mr. Fairbairn:

Included are the results from the testing of material submitted on October 29, 2010 from the 22866 4th Qtr GWM/212302520.210.0410, F&BI 010368 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
STN1112R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 29, 2010 by Friedman & Bruya, Inc. from the Stantec 22866 4th Qtr GWM/212302520.210.0410, F&BI 010368 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Stantec
010356-01	MW-1B
010356-02	MW-2B
010356-03	MW-4B
010356-04	MW-3A
010356-05	MW-3B
010356-06	DPE-3

All quality control requirements were acceptable.

Date of Report: 11/12/10
Date Received: 10/29/10
Project: 22866 4th Qtr GWM/212302520.210.0410, F&BI 010368
Date Extracted: 11/01/10, 11/04/10, and 11/05/10
Date Analyzed: 11/02/10, 11/04/10, and 11/05/10

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 52-124)
MW-1B 010368-01	15	2.6	<1	<3	190	86
MW-2B 010368-02 1/10	720	29	17	43	2,500	82
MW-4B 010368-03	1.9	13	<1	20	120	82
MW-3A 010368-04	<1	<1	<1	<3	<100	80
MW-3B 010368-05	1.3	1.7	1.0	<3	260	90
DPE-3 010368-06	<1	<1	<1	<3	<100	82
Method Blank 00-1753 MB	<1	<1	<1	<3	<100	88

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW-1B	Client:	Stantec
Date Received:	10/29/10	Project:	22866 4th Qtr GWM
Date Extracted:	11/04/10	Lab ID:	010368-01
Date Analyzed:	11/04/10	Data File:	010368-01.013
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW-2B	Client:	Stantec
Date Received:	10/29/10	Project:	22866 4th Qtr GWM
Date Extracted:	11/04/10	Lab ID:	010368-02
Date Analyzed:	11/04/10	Data File:	010368-02.014
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	MW-4B	Client:	Stantec
Date Received:	10/29/10	Project:	22866 4th Qtr GWM
Date Extracted:	11/04/10	Lab ID:	010368-03
Date Analyzed:	11/04/10	Data File:	010368-03.015
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Stantec
Date Received:	NA	Project:	22866 4th Qtr GWM
Date Extracted:	11/04/10	Lab ID:	I0-630 mb
Date Analyzed:	11/04/10	Data File:	I0-630 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW-1B	Client:	Stantec
Date Received:	10/29/10	Project:	22866 4th Qtr GWM
Date Extracted:	11/02/10	Lab ID:	010368-01
Date Analyzed:	11/03/10	Data File:	010368-01.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW-2B	Client:	Stantec
Date Received:	10/29/10	Project:	22866 4th Qtr GWM
Date Extracted:	11/02/10	Lab ID:	010368-02
Date Analyzed:	11/03/10	Data File:	010368-02.048
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	MW-4B	Client:	Stantec
Date Received:	10/29/10	Project:	22866 4th Qtr GWM
Date Extracted:	11/02/10	Lab ID:	010368-03
Date Analyzed:	11/03/10	Data File:	010368-03.049
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Stantec
Date Received:	NA	Project:	22866 4th Qtr GWM
Date Extracted:	11/02/10	Lab ID:	I0-626 mb
Date Analyzed:	11/03/10	Data File:	I0-626 mb.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Lead	<1

Date of Report: 11/12/10
Date Received: 10/29/10
Project: 22866 4th Qtr GWM/212302520.210.0410, F&BI 010368

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 010368-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	ug/L (ppb)	260	270	1
Toluene	ug/L (ppb)	32	33	4
Ethylbenzene	ug/L (ppb)	15	15	0
Xylenes	ug/L (ppb)	43	43	0
Gasoline	ug/L (ppb)	1,300	1,300	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	94	65-118
Toluene	ug/L (ppb)	50	91	72-122
Ethylbenzene	ug/L (ppb)	50	94	73-126
Xylenes	ug/L (ppb)	150	96	74-118
Gasoline	ug/L (ppb)	1,000	97	69-134

Date of Report: 11/12/10
Date Received: 10/29/10
Project: 22866 4th Qtr GWM/212302520.210.0410, F&BI 010368

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 011042-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	ug/L (ppb)	10	<1	104	105	76-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	ug/L (ppb)	10	101	67-135

Date of Report: 11/12/10
Date Received: 10/29/10
Project: 22866 4th Qtr GWM/212302520.210.0410, F&BI 010368

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 010368-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Lead	ug/L (ppb)	10	<1	109	107	76-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Lead	ug/L (ppb)	10	106	67-135

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

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.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

010368

SAMPLE CHAIN OF CUSTODY

ME 10/29/10 V3/1 AIT3

Page # 1 of 1

Send Report To PAUL FAIRBAIRN

Company STANTEC CONSULTING CORP.

Address 12034 134th COURT NE Ste 102

City, State, ZIP REDMOND, WA 98052

Phone # (425) 298-1016 Fax # (425) 298-1019

SAMPLERS (signature)

PROJECT NAME/NO. #228664th QTR GWM/ 212302520, 210.0410

PO#

REMARKS

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	TOTAL LEAD	DISSOLVED LEAD					Notes
MW-1B	01 AG	10/28/10	1310	WATER	7		X	X				X	X					
MW-2B	02 AG	"	1340	WATER	7		X	X				X	X					
MW-4B	03 AG	"	1405	WATER	7		X	X				X	X					
MW-3A	04 AE	"	1435	WATER	5		X	X										
MW-3B	05 AE	"	1455	WATER	5		X	X										
DPE-3	06 AE	"	1515	WATER	5		X	X										
											Samples received at					6	°C	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

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SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	David Bitz	Stantec	10/28/10	1530
Received by:				
Relinquished by:				
Received by:	HOANG NGUYEN	FBI	10/29/10	