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January 9, 2015

Attention: Ms. Glynis Carrosino

Washington State Department of Ecology
Toxics Cleanup Program, Northwest Regional Office
3190 160th Ave SE
Bellevue, Washington 98008

Dear Ms. Carrosino,

Reference: Remedial Investigation Work Plan

7-Eleven Store No. 22866
14207 Pacific Highway S. Tukwila, Washington
Voluntary Cleanup Program No. NW2802

This Remedial Investigation (RI) Work Plan was prepared by Stantec Consulting Services (Stantec) on behalf of 7-Eleven, Inc. (7-Eleven) for proposed remedial investigation activities associated with the petroleum release at 7-Eleven Store No. 22866 (the Site) located at the above address (**Figures 1 and 2**). This Site is included in the Washington Department of Ecology (Ecology) Voluntary Cleanup Program (VCP), identified as NW2802, and part of the Ecology Northwest Regional Office Technical Service Agreement (TAAG) with 7-Eleven.

OVERVIEW AND PURPOSE

A dissolved phase petroleum hydrocarbon plume above Model Toxics Control Act (MTCA) Method A screening levels is present in the central portion of the Site. The dissolved phase plume has been monitored since 1996 via on-site monitoring wells that extend from approximately 14- to 35-feet below ground surface (bgs) and has been attenuating over time. The lateral extent of soil and groundwater impacts has been delineated in previous investigations. Based on recharge rates determined by a previous remediation system pilot test, Stantec believes shallow groundwater does not meet the definition of potable groundwater as defined by Washington Administrative Code (WAC) 173-340-720(2)(i). However, Stantec intends to collect data to determine if the perched zone residing in un-weathered till is significantly hydraulically connected to deeper regional potable groundwater and thus considered a leaching pathway.

The purpose of this proposed investigation is to collect soil samples in areas at the Site with historical soil impacts to assess the current conditions and to obtain physical properties to evaluate the potential exposure pathways. The data will be used to provide multiple lines of evidence and/or to establish Site-specific Method B cleanup levels (CULs) to demonstrate compliance.

Stantec has prepared this work plan to meet the substantive requirements of the MTCA, Chapter 70.105D RCW, and its implementing regulations, Washington Administrative Code (WAC) 173-340.



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The proposed remedial investigation activities will include drilling six boreholes and collecting soil samples for laboratory analysis for the following purposes:

- Compare current soil analytical data with historic analytical data to establish a soil degradation rate to demonstrate how residual soil impacts are attenuating over time.
- Analyze samples collected from impacted soil for Volatile Petroleum Hydrocarbons (VPH) to develop Method B CULs for direct contact.
- Collect geotechnical soil samples using a Shelby tube for sieve analysis and flex wall perm from the un-weathered glacial till to calculate infiltration rate in order to evaluate the potential soil to groundwater leaching pathway.
- Document the proposed activities in a RI/cleanup action report and provide an updated site conceptual model.

SITE BACKGROUND AND DESCRIPTION

The historical use of the property is summarized in the table below:

Year	Property History
1955 to 1966	A gasoline service station owned and operated by Fletcher Oil Company was located on the property circa 1955 to circa 1966. The gasoline service - station consisted of a 760-square foot building with six dispensers and three pump canopies. Underground storage tanks were likely present on the property but the location and number could not be determined from available records. A fueling dock was likely located in the southern portion of the property (approximately 40 feet south of the southern edge of the current 7-Eleven building).



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1966 to 1980	The Property continued operation in the previous configuration, but operated as a Go-N-Joy gas station. Ownership changed to a trust.
1981 to 2010	The 7-Eleven Store opened in August 1981. Land and gasoline equipment were originally leased to 7-Eleven from Fletcher Oil. Three single-wall steel, 12,000-gallon underground storage tanks (USTs; second generation) were installed at the Site in 1981 and operated by 7-Eleven until 2010 when the USTs were permanently closed by removal. The property is currently owned by Robert A. Blew, Trustee of the Katherine Inez Lawrence (Deceased) Trust.
2011 to present	Following UST removal, the Property continues to operate as a non-gasoline 7-Eleven convenience store.

A detailed environmental history for the Site is included in **Appendix A**. A summary of the environmental activities and Site status is provided below:

A release was reported to Ecology in November 1995 during a product piping and dispenser upgrade. A dual-phase extraction (DPE) system operated intermittently at the Site from 1998 to 2002. Soil investigations conducted from 1999 through 2004, indicated that petroleum hydrocarbon concentrations in soil exceeded MTCA Method A screening levels in the central portion of the property at a depth ranging from approximately 5- feet to 34-feet below ground surface (bgs). In 2010, soil compliance samples were collected and over-excavation was performed beneath the former second generation dispensers. Additional over-excavation in the vicinity of the second generation tank basin was limited by the presence of underground utilities and the convenience store building foundation. Analytical results indicated that residual impacted soil likely remained in the immediate vicinity of the second generation tank basin.

The most recent published subsurface investigation was conducted in December 2012. Four soil borings (MW-7 to MW-9) were advanced to laterally delineate soil impacts and evaluate subsurface lithology. Analytical soil results are presented in **Table 1**.



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REGIONAL AND SITE GEOLOGY

The Site lies within the Puget Lowland. The lowland is part of a regional north-south trending trough that extends from southwestern British Columbia to near Eugene, Oregon. North of Olympia, Washington, this lowland is glacially carved, with a depositional and erosional history including at least four separate glacial advances/retreats. The Puget Lowland is bounded to the west by the Olympic Mountains and to the east by the Cascade Range. The lowland is filled with glacial and nonglacial sediments consisting of interbedded gravel, sand, silt, till, and peat lenses.

The Geologic Map of the Des Moines 7.5' Quadrangle, King County, Washington, (2004) indicates that the Site is underlain by Vashon Glacial Till. The Vashon Till varies in thickness from about 10- to 60-feet within the Des Moines quadrangle. It is comprised of varying quantities of clay, cobbles, and boulders and is typically dense to very dense and relatively impermeable. From the Geologic Map of the Des Moines Quadrangle discussion: "where present at the surface, the till provides a low-permeability cover to underlying aquifers, reducing recharge but also offering protection from surface contaminants."

The typical geologic stratigraphy of Vashon type soil units in the Puget Sound region includes Vashon Recessional Outwash overlying Vashon Glacial Till. In most areas, the Vashon Glacial Till is underlain by Vashon Advance Outwash. Locally, the till unconformably overlies pre-Fraser deposits.

Soils observed underlying the Site (other than fill areas) are classified as silty-sand to sandy silt with gravel (Glacial Till), underlain by poorly graded sand with minor gravel (Advance Outwash). See **Figure 4** for a geologic cross section.

Surface Water and Groundwater

The closest surface water body is the Duwamish River, located approximately 1.5 miles northeast of the Site. The River flows generally to the northwest in the vicinity of the Site, releasing into Puget Sound approximately five miles west of the Site.

Based on a review of available well logs within approximately one mile of the Site, the regional groundwater aquifer is present approximately 100- to 130- feet below the existing Site elevation.



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Stantec anticipates that the regional aquifer, which extends below the Site, is perched on Pre-Fraser Deposits below the Vashon Advance Outwash materials with locally perched zones on silt/clay interbeds within the Advance Outwash deposits. Stantec believes that the shallow groundwater zone beneath the Site is likely perched on the unweathered glacial fill and is not hydraulically connected with deeper aquifers.

Groundwater monitoring wells MW-1A and MW-1B through MW-5A and MW-5B were installed at the Site in 1996 following the initial reported release. The "A" designation indicated lower zone wells; "B" indicated upper zone. More recent analysis, conducted as part of a December 2012 subsurface investigation, indicates that these are not distinct hydrogeologic zones. Additional monitoring wells (MW-7 and MW-9) were installed at the Site in December 2012. A dissolved phase petroleum hydrocarbon plume is horizontally defined and located in the central portion of the Site, extending north in the vicinity of the second generation tank basin. The dissolved phase plume does not extend beyond the property boundary. Historical groundwater analytical results are presented in **Table 2**.

The groundwater direction varies widely as observed in the cumulative groundwater flow direction rose diagram (**Graph 1**). Soil borings advanced in December 2012 and the high variability in groundwater flow direction indicate that groundwater is perched beneath the Site. Groundwater flow directions are consistent with upslope and offsite sources laterally migrating onto the Site along the weathered-unweathered glacial fill contact and into the deep fill areas within the Site. Over time and seasonally, the direction of groundwater changes or becomes unclear as upslope sources vary in contribution to the shallow zone.

REGULATORY STATUS

Stantec reviewed Ecology's electronic databases regarding the regulatory status of the Site. Ecology identification numbers for the Site are listed below:

- Facility Site ID: 23544274
- Cleanup Site ID: 8378
- LUST Release ID: 4006
- VCP No. 2802



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GROUNDWATER – POTABILITY EVALUATION

A static yield test was previously conducted at the Site in August 1997 to evaluate the maximum sustainable yield of the shallow groundwater. Results are presented in the *Report of Air Sparge/Vapor Extraction Pilot Test* (Flour Daniel GTI, 1998). Static yield testing was performed on 4-inch diameter monitoring wells MW-4A and MW-4B. Stantec applied a correction factor (Driscoll, 1986) to convert the maximum well yield to an equivalent 6-inch well per WAC 173-340-720(2)(i). The maximum sustainable yield was calculated to be 0.2 gallons per minute (gpm). Groundwater yield test calculations are provided in **Table 3**.

Per MTCA 173-340-720(2), groundwater shall be classified as potable to protect drinking water beneficial uses unless:

- Groundwater does not serve as a drinking water source;
- Groundwater is present in insufficient quantity to yield greater than 0.5 gpm (6-inch diameter well); and,
- Contaminants are unlikely to be transported to potable groundwater.

Perched groundwater at the Site does not serve as a drinking water source, and the yield rate is significantly below that required to meet the potable definition. Therefore, Stantec intends to evaluate the leaching pathway to potable groundwater beneath the Site. Stantec proposes to collect two geotechnical soil samples from the unweathered glacial till to evaluate the seepage rate through the subsurface glacial till. Geotechnical samples will be collected from soil borings SB-10 and SB-15 (described below) at approximately 30-foot bgs and analyzed via flexible wall permeability testing using ASTM D5084. Stantec will select appropriate groundwater cleanup levels based on the following rationale:

- MTCA Method A cleanup levels will be selected in the event shallow zone groundwater is determined to be sufficiently connected to impact the deeper aquifer; and,
- If contaminants are unlikely transported to the underlying potable aquifer, Stantec believes perched groundwater should be classified as non-potable [WAC 173-340-



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720(2)(b)(i)]. In accordance with WAC 173-340-708, cleanup levels would be selected using an alternate reasonable maximum exposure scenario based on quantitative risk assessment. Site-specific groundwater cleanup levels will be established based on WAC 173-340-720(6) and would not exceed the nonaqueous phase liquid limitation [WAC 173-340-720(d)]. As a reasonable maximum exposure scenario, Stantec proposes using Oregon Department of Environment groundwater direct cleanup levels for utility work.

SCOPE OF WORK

Stantec proposes the following scope of work at the Site. Following the proposed remedial investigation, Stantec will evaluate residual soil concentrations and determine if an interim action is necessary or if historical impacts have degraded below unrestricted land-use cleanup levels.

The scope of work includes the following tasks:

- Pre-field activities;
- Remedial investigation;
- Laboratory analytical program;
- Waste management; and,
- Reporting.

Details of each of these tasks are discussed below.

Task 1 – Pre-field Activities

Stantec will modify the existing Site-specific Health and Safety Plan for the proposed scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document will be reviewed and signed by Stantec personnel and subcontractors performing work at the Site.

Stantec has obtained subsurface utility maps for sewer, storm water, and drinking water underground utilities in the vicinity of the Site. Prior to conducting subsurface work at the Site, the municipal Utility Notification Center will be contacted to delineate subsurface utilities near the Site



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with surface markings. In addition, a private utility locator service will be contracted to clear the areas surrounding the proposed soil borings and monitoring wells.

Task 2 – Remedial Investigation: Soil

Stantec proposes to advance six soil borings (SB-1 through SB-6) to evaluate Site soil for potential petroleum hydrocarbon degradation. The table below summarizes soil boring depths and investigative purpose:

Proposed Soil Boring ID	Boring Depth (feet bgs)	Purpose of Boring/Well
SB-10	35	Evaluate degradation at MW-5B and BH-3. The soil sample collected from MW-5B at 12.5- to 14-feet bgs has the highest historical TPH-G concentration at the Site. Collect soil samples at 6-, 12- (to 14-), and 20-feet bgs (vertically delineate potential impacts if observed in the field). Collect geotechnical soil sample from glacial till (approximately 30- feet bgs) to evaluate the leaching pathway.
SB-11	15	Evaluate degradation at B3, B-1-5', and BH-5. Former soil boring B3 has the highest historical benzene concentration at the Site (5-feet bgs). Collect soil samples at 5-, 10- and 15-feet bgs (vertically delineate potential impacts if observed in the field).
SB-12	15	Vertically delineate and evaluate degradation at BH-2. Collect soil sample at 8-feet bgs.



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Proposed Soil Boring ID	Boring Depth (feet bgs)	Purpose of Boring/Well
SB-13	20	Vertically delineate beneath the former 7-Eleven tank basin. Collect soil sample at approximately 12-feet bgs and vertically delineate potential impacts.
SB-14	20	Horizontally and vertically define former tank basin side wall sample SS-2 at 12-feet bgs.
SB-15	35	Vertically define MW-3A. Collect geotechnical soil sample from glacial till (approximately 30-feet bgs) to evaluate the leaching pathway.

Day lighting by air knife or hand auger methods will be used to clear the top five feet of the borehole for obstructions or possible underground utilities. Standard operation procedures for monitoring well installation and soil sampling are included in **Appendix B**.

Task 3 – Laboratory Analytical Program

Sampling and analysis guidelines as described in WAC 173-340-820 will be followed during the performance of the proposed scope of work. Soil sampling procedures and laboratory analysis are included in **Appendix B**.

Soil samples will be analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Method 8260 and total petroleum hydrocarbons characterized as gasoline (TPHg) using Ecology Method NWTPH-Gx. Select soil samples will be analyzed for total petroleum hydrocarbons characterized as diesel (TPHd) and oil (TPHo) using Method NWTPH-Dx; total lead using Method 200.8; methyl tertiary butyl ether (MTBE) and 1-2 dichloroethane (EDC) using Method 8260; 1-2 dibromoethane (EDB) using Method 8011; and total naphthalenes using Method 8270. Additionally



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five soil samples with the highest screening levels will be analyzed for volatile petroleum hydrocarbons (VPH) using Method NWVPH and extractable petroleum hydrocarbons (EPH) using Method NWEPH.

Task 4 – Waste Management

Soil generated during the remedial investigation will be temporarily stored on-Site in properly labeled Department of Transportation (DOT) approved 55-gallon drums. Waste soil and water will be removed and transported to an appropriate disposal facility. Drums will be temporarily stored onsite for approximately 2-3 weeks pending characterization and disposal.

Task 5 – Data Analysis and Reporting

Stantec anticipates that the above scope of work will be conducted in the first quarter of 2015.

Following completion of field activities, Stantec will prepare a remedial investigation report. This report will summarize fieldwork activities and the results of the remedial investigation and evaluate if an interim cleanup action is required to meet Site-specific cleanup levels. The report will include:

- Details of field procedures and operations;
- Boring logs;
- Soil analytical data;
- Petroleum degradation and Method B CUL calculations;
- Updated map showing the location of boreholes; and
- Maps and tables summarizing the results.



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If you have any questions or comments regarding the contents of this work plan, please contact us at your convenience.

Regards,

Stantec Consulting Services, Inc.

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Attachments:

TABLES

Table 1	Cumulative Soil Analytical Results
Table 2	Groundwater Monitoring and Analytical Results
Table 3	Static Yield Test Analysis

FIGURES

Figure 1	Site Location Map
Figure 2	Site Vicinity Plan
Figure 3	Site Plan With Proposed Soil Boring Locations
Figure 4	Geologic Cross Sections



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GRAPHS

Graph 1 Cumulative Groundwater Flow Direction Rose Diagram

APPENDICIES

Appendix A Site Background

Appendix B Standard Operating Procedure

TABLES
REMEDIAL ACTION WORK PLAN
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TABLE 1
Cumulative Soil Analytical Results
 7-Eleven Store No. 22866
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 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	TPH-D	TPH-O	Lead	EDB	EDC	MTBE	Naphthalenes
Restore Letter Report, Groundwater Technology, Inc., October 30, 1995																
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	--	--	--	--
Site Assessment Report, Groundwater Technology, Inc., March 26-27, 1996																
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	3/27/96	2.5-4	--	<0.05	<0.05	<0.05	<0.10	<1.0	--	--	<10	--	--	--	--
	MW-2A-32.5-34	3/27/96	32.5-34	--	<0.05	<0.05	<0.05	<0.10	<1.0	--	--	<10	--	--	--	--
	MW-3A-2.5-4	3/27/96	2.5-4	--	<0.05	<0.05	<0.05	<0.10	<1.0	--	--	<10	--	--	--	--
	MW-3A-12.5-14	3/27/96	12.5-14	--	<0.05	<0.05	<0.05	<0.10	<1.0	--	--	<10	--	--	--	--
MW-3A-32.5-34	3/27/96	32.5-34	--	0.45	<0.05	0.096	0.28	7.4	--	--	<10	--	--	--	--	
Site Assessment Report, Fluor Daniel GTI, October 3, 1996																
Groundwater Monitoring Wells	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	--	--	--	--
IT Corporation, Inc., Remediation Progress Report, November 29, 1999																
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	--	--	--	--	--	--	--
IT Corporation, Inc., Remediation Progress Report, August 2000																
	B-1-5'	8/17/00	5	--	1.59	10.1	33	173	2,850	--	--	--	--	--	--	--
SECOR International, Inc., Geoprobe Assessment Report for 7-Eleven, Inc., December 14, 2004																
Soil Borings	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	--	--	--	--	--	--	--	
MTCA Method A Soil CULs for Unrestricted Land Uses					--	0.03	7	6	9	30/100 ^b		250	0.005	NR	0.1	5

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	TPH-D	TPH-O	Lead	EDB	EDC	MTBE	Naphthalenes
UST Removal Activities, Stantec Consulting Corporation, October-November 2010																
Sidewall Samples	SS-1@12'	11/2/10	12	276	0.095	<0.05	0.15	0.42	4.1	--	--	--	--	--	--	--
	SS-2@12'	11/3/10	12	2,610	<0.3	<0.5	32	88	4,400	--	--	--	--	--	--	--
	SS-3@12'	11/3/10	12	83.2	0.25	0.078	<0.05	<0.2	6.2	--	--	--	--	--	--	--
	SS-4@12'	11/3/10	12	931	0.23	<0.05	0.84	2.0	260	--	--	--	--	--	--	--
Soil Stockpile Samples	SP-1	10/27/10	--	451	0.19	<0.05	<0.05	<0.2	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	0.16	8.3	--	--	--	--	--	--	--
	DP-2@2'	11/3/10	2	90.6	<0.03	<0.05	<0.05	<0.2	9.4	--	--	--	--	--	--	--
Additional Subsurface Investigation Report, Stantec Consulting Services, Inc., December 2012																
Soil Borings	MW-7@5'	12/13/12	5	0.7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	--	--	--	--	--
	MW-7@10'	12/14/12	10	0.7	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	--	--	--	--	--
	MW-7@15'	12/14/12	15	0.5	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	--	--	--	--	--
	SB-8@12.5' ^d	12/13/12	12.5	82.5	<0.02	0.07	<0.02	0.52	45	<50	<250	--	<0.005	<0.05	<0.05	0.034
	MW-9@5'	12/13/12	5	0.6	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	--	--	--	--	--
	MW-9@10'	12/14/12	10	0.2	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	--	--	--	--	--
	MW-9@15'	12/14/12	15	0.3	<0.02	<0.02	<0.02	<0.06	<2	<50	<250	--	--	--	--	--
MTC A Method A Soil Cleanup Level					0.03	7	6	9	30/100 ^b			250	0.005	NR	0.1	5

Explanation of Abbreviations:

- ☐ = indicates that sample location was removed during excavation.
- bgs = below ground surface
- TPH-G = total petroleum hydrocarbons in the gasoline range
- < = reported result is below laboratory practical quantitation limit
- MTC A = 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
 - ^c = Diluted sample. The original sample results were estimated concentrations calculated for an analyte response above the valid instrument calibration range.
 - ^d = MW-8 is equivalent to SB-8.
- Bold** results exceed MTC A Method A Soil Cleanup Level

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)	
MW-1A 299.50	04/10/96	<0.5	<0.5	<0.5	<0.1	<50	--	--	<2.0	--	--	--	
	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	
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	500	500	15				

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington
 Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-1B 299.74	04/10/96	<0.5	<0.5	<0.5	<0.1	<50	--	--	<2.0	--	--	--
	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
	03/31/05	25	<1.0	<1.0	<2.0	<100	--	--	--	--	9.70	289.49
	06/24/05	2.9	<1.0	<1.0	<2.0	130	--	--	--	--	8.64	290.55
	09/12/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.61	291.58
	03/14/06	5.5	4.9	4.3	<2.6	<100	--	--	--	--	7.60	291.59
	06/15/06	68	2.7	3.5	11.1	140	--	--	--	--	8.10	291.09
	09/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.94	291.25
	12/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.69	291.50
	03/30/07	4.8	<4.0	<4.0	<4.0	<400	--	--	--	--	6.35	292.84
	06/04/07	4.7	<1.0	1.2	<4.0	<400	--	--	--	--	9.10	290.09
	09/13/07	12	<1.0	<1.0	<2.0	<100	--	--	--	--	11.43	287.76
	12/26/07	40	2.3	4.1	2.3	<100	--	--	--	--	7.84	291.35
	03/28/08	33	<1.0	1.3	<2.0	<100	--	--	--	--	6.41	292.78
	06/25/08	39	<4.0	<4.0	<8.0	<400	--	--	--	--	9.23	289.96
	09/25/08	34	<4.0	4.5	7.5	<400	--	--	--	--	11.05	288.14
	01/02/09	64	2.0	2.9	1.8	<100	--	--	--	--	7.76	291.43
	03/24/09	44	<4.0	<4.0	<8.0	<400	--	--	--	--	7.28	291.91
	06/24/09	27	<4.0	<4.0	<8.0	<400	--	--	--	--	9.02	290.17
	09/30/09	46	<4.0	<4.0	<8.0	<400	--	--	--	--	9.88	289.31
	12/28/09	20	<4.0	<4.0	<8.0	<400	--	--	--	--	5.97	293.22
	07/08/10	16	<1.0	<1.0	<2.0	<100	--	--	--	--	8.18	291.01
	10/29/10	15	2.6	<1.0	<3.0	190	--	--	<1	<1	7.93	291.26
	02/08/11	23	<0.50	<0.50	<0.50	<250	--	--	--	--	6.46	292.73
	08/04/11	3.5	<0.50	<0.50	<0.50	<250	--	--	--	--	9.30	289.89
	02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	6.96	292.23
	08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	10.52	288.67
	01/09/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	6.72	282.46
	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	8.15	281.03
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

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GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-2A 297.73	04/10/96	0.96	<0.5	<0.5	<0.1	<50	--	--	<2.0	--	--	--
	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
	297.21	01/17/01	--	--	--	--	--	--	--	--	--	8.05
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
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
287.20	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	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington
 Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-2B 297.73	04/10/96	8.1	<0.5	<0.5	1.5	<50	--	--	<2.0	--	--	--
	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
	297.22	01/17/01	--	--	--	--	--	--	--	--	--	7.23
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
03/31/05		<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.99	290.23
06/24/05		--	--	--	--	--	--	--	--	--	5.87	291.35
09/12/05		--	--	--	--	--	--	--	--	--	4.68	292.54
12/06/05		--	--	--	--	--	--	--	--	--	6.48	290.74
03/14/06	350	110	2.9	114	780	--	--	--	--	6.28	290.94	
06/15/06	--	--	--	--	--	--	--	--	--	7.21	290.01	
09/13/06	--	--	--	--	--	--	--	--	--	4.68	292.54	
12/13/06	--	--	--	--	--	--	--	--	--	4.26	292.96	
03/30/07	--	--	--	--	--	--	--	--	--	5.30	291.92	
06/04/07	--	--	--	--	--	--	--	--	--	7.30	289.92	
09/13/07	--	--	--	--	--	--	--	--	--	9.50	287.72	
12/26/07	--	--	--	--	--	--	--	--	--	7.12	290.10	
03/28/08	61	3.8	2.6	1.0	<100	--	--	--	--	5.91	291.31	
06/25/08	220	8.4	6.2	4.8	<400	--	--	--	--	7.43	289.79	
09/25/08	130	<4.0	<4.0	<8.0	<400	--	--	--	--	8.58	288.64	
01/02/09	130	<4.0	6.1	<8.0	<400	--	--	--	--	6.98	290.24	
03/25/09	150	2.9	8.8	4.3	120	--	--	--	--	5.58	291.64	
09/30/09	370	55	11	8.9	<400	--	--	--	--	9.81	287.41	
12/28/09	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.62	290.60	
07/08/10	700	55	29	60	640	--	--	--	--	6.47	290.75	
10/29/10	720	29	17	43	2,500	--	--	<1	<1	6.98	290.24	
02/08/11	1,300	25	33	64	5,000	--	--	--	--	4.94	292.28	
08/04/11	190	1.3	8.4	14	1,000	--	--	--	--	7.30	289.92	
02/06/12	1.3	<0.5	<0.5	2.2	<250	--	--	--	--	5.58	291.64	
08/27/12	1.1	<0.50	<0.50	<0.50	<250	<250	<500	--	--	8.81	288.41	
01/09/13	0.72	<0.50	<0.50	<0.50	<250	<250	<500	--	--	5.05	282.15	
06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	6.36	280.84	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-3A 298.42	04/10/96	54	3.1	59	120	3,000	--	--	<2.0	--	--	--
	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
	297.91	01/17/01	<0.5	<0.5	0.61 ^c	<1.5	<100	--	--	--	--	8.63
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
03/31/05		<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	8.46	289.45
06/24/05		--	--	--	--	--	--	--	--	--	7.48	290.43
09/12/05		<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.69	291.22
12/06/05		--	--	--	--	--	--	--	--	--	9.00	288.91
03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.85	291.06	
06/15/06	--	--	--	--	--	--	--	--	--	7.46	290.45	
09/13/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.19	291.72	
03/30/07	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.60	291.31	
06/04/07	--	--	--	--	--	--	--	--	--	7.80	290.11	
09/13/07	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	9.70	288.21	
12/26/07	--	--	--	--	--	--	--	--	--	6.42	291.49	
07/08/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.70	290.21	
10/29/10	<1.0	<1.0	<1.0	<3.0	<100	--	--	--	--	8.44	289.47	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington
 Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-3B 298.36	04/10/96	190	3.1	41	190	1,500	--	--	<2.0	--	--	--
	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	
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	<3.0	260	--	--	--	--	7.56	290.28	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-4A 297.83	11/07/96	0.846	1.32	0.866	2.49	<50	--	--	2.33	--	8.35	289.48
	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
	297.33	09/21/01	--	--	--	--	--	--	--	--	--	9.33
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
03/31/05		<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.86	289.47
06/24/05		--	--	--	--	--	--	--	--	--	6.93	290.40
09/12/05		--	--	--	--	--	--	--	--	--	6.24	291.09
12/06/05		--	--	--	--	--	--	--	--	--	7.32	290.01
03/14/06		<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.65	290.68
06/15/06		--	--	--	--	--	--	--	--	--	7.71	289.62
09/13/06		--	--	--	--	--	--	--	--	--	4.18	293.15
12/13/06	--	--	--	--	--	--	--	--	--	4.94	292.39	
03/30/07	--	--	--	--	--	--	--	--	--	5.70	291.63	
06/04/07	--	--	--	--	--	--	--	--	--	8.00	289.33	
09/13/07	--	--	--	--	--	--	--	--	--	10.05	287.28	
12/26/07	--	--	--	--	--	--	--	--	--	5.06	292.27	
06/24/09	3.2	<1.0	<1.0	<2.0	<100	--	--	--	--	--	8.13	289.20
07/08/10	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	--	7.30	290.03
287.28	10/29/10	--	--	--	--	--	--	--	--	--	7.45	289.88
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-4B 297.70	11/07/96	<0.5	<0.5	<0.5	<1.0	<50	--	--	<2.0	--	8.01	289.69
	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	
04/05/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.61	289.58	
06/24/05	--	--	--	--	--	--	--	--	--	6.92	290.27	
09/22/05	--	--	--	--	--	--	--	--	--	6.10	291.09	
12/06/05	--	--	--	--	--	--	--	--	--	6.75	290.44	
03/14/06	1.0	<1.0	1.3	<2.0	<100	--	--	--	--	6.40	290.79	
06/15/06	--	--	--	--	--	--	--	--	--	9.84	287.35	
09/13/06	--	--	--	--	--	--	--	--	--	5.68	291.51	
12/13/06	--	--	--	--	--	--	--	--	--	7.00	290.19	
03/30/07	--	--	--	--	--	--	--	--	--	5.45	291.74	
06/04/07	--	--	--	--	--	--	--	--	--	7.70	289.49	
09/13/07	--	--	--	--	--	--	--	--	--	9.90	287.29	
12/26/07	--	--	--	--	--	--	--	--	--	6.82	290.37	
06/24/09	5.0	2.4	<1.0	7.0	<100	--	--	--	--	7.82	289.37	
07/08/10	<1.0	1.3	1.7	<2.0	<100	--	--	--	--	6.94	290.25	
10/29/10	1.9	13	<1.0	20	120	--	--	--	--	7.15	290.04	
02/08/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	5.55	291.64	
08/05/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	7.84	289.35	
02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	5.87	291.32	
08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	9.10	288.09	
01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	5.72	281.44	
06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	6.89	280.27	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^p	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington
 Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-5A 299.15	11/07/96	1,580	3,340	1,820	12,300	70,300	--	--	10.2	--	9.46	289.69
	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
	298.64	08/23/02	28.1	6.34	118	707.4	4,420	--	--	--	--	10.46
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
03/31/05		180	47	640	1,685	12,000	--	--	--	--	7.93	290.71
06/24/05		92	<1.0	190	96	6,100	--	--	--	--	6.23	292.41
09/12/05		190	55	770	2,986	14,000	--	--	--	--	5.87	292.77
12/06/05		160	30	700	1,532	11,000	--	--	--	--	9.30	289.34
03/14/06		110	100	1,800	6,880	33,000	--	--	--	--	8.49	290.15
06/15/06		21	78	47	320	1,600	--	--	--	--	7.72	290.92
09/13/06		62	32	630	1,943	11,000	--	--	--	--	4.19	294.45
03/30/07		78	38	1,100	2,955	16,000	--	--	--	--	6.41	292.23
06/04/07		91	<50	1,100	2,600	11,000	--	--	--	--	8.75	289.89
09/13/07		83	<50	1,100	2,400	14,000	--	--	--	--	10.55	288.09
12/26/07	82	10	1,100	1,217	9,300	--	--	--	--	7.42	291.22	
03/28/08	71	<10	1,400	1,800	11,000	--	--	--	--	5.42	293.22	
06/25/08	78	<50	1,300	2,700	15,000	--	--	--	--	8.89	289.75	
09/25/08	73	26	1,600	2,847	18,000	--	--	--	--	8.91	289.73	
01/02/09	59	6.5	1,200	1,307.2	11,000	--	--	--	--	7.31	291.33	
03/24/09	55	5.1	1,100	901.6	8,900	--	--	--	--	7.82	290.82	
06/24/09	71	<50	1,300	670	9,600	--	--	--	--	6.11	292.53	
09/30/09	36	38	1,700	3,630	23,000	--	--	--	--	8.27	290.37	
12/28/09	41	4.3	1,100	370	9,100	--	--	--	--	8.65	289.99	
07/09/10	31	2.6	810	122.4	5,000	--	--	--	--	8.76	289.88	
10/29/10	--	--	--	--	--	--	--	--	--	8.15	290.49	
02/08/11	13	1.3	520	53	4,800	--	--	--	--	7.84	290.80	
08/04/11	10	0.6	620	19	5,400	--	--	--	--	8.40	290.24	
02/06/12	6.5	0.53	280	8.6	3,800	--	--	--	--	7.84	290.80	
08/27/12	4.8	<0.50	160	3.5	2,900	<250	<500	--	--	7.98	290.66	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
MW-5B 299.14	11/07/96	3,770	1,020	846	4,310	25,000	--	--	3.03	--	9.43	289.71
	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	
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	
02/08/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	6.10	292.53	
08/04/11	3.9	0.95	2.8	0.69	680	--	--	--	--	8.94	289.69	
02/06/12	<0.50	<0.50	0.92	<0.50	340	--	--	--	--	7.08	291.55	
08/27/12	1.1	1.4	1.9	2.6	660	<250	<500	--	--	10.21	288.42	
01/09/13	0.98	<0.50	1.7	0.69	550	610	680	--	--	6.67	281.94	
06/06/13	2.5	0.62	1.0	0.75	600	<250	<500	--	--	7.98	280.63	
MW-7 288.97	01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	6.86	282.11
	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	8.23	280.74
MW-9 289.84	01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	6.63	283.21
	06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	7.93	281.91
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-1 NS	12/04/97	7.97	7.48	64	23.1	1,090	--	--	--	--	--	--
	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	--
	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.36	290.00
	06/24/05	--	--	--	--	--	--	--	--	--	7.10	290.26
	09/12/05	--	--	--	--	--	--	--	--	--	6.98	290.38
	12/06/05	--	--	--	--	--	--	--	--	--	6.31	291.05
	03/14/06	1,200	77	3.5	42	480	--	--	--	--	6.39	290.97
	06/15/06	--	--	--	--	--	--	--	--	--	7.41	289.95
	09/13/06	--	--	--	--	--	--	--	--	--	6.94	290.42
	12/13/06	--	--	--	--	--	--	--	--	--	5.87	291.49
	03/30/07	--	--	--	--	--	--	--	--	--	5.36	292.00
	06/04/07	--	--	--	--	--	--	--	--	--	7.50	289.86
	09/13/07	--	--	--	--	--	--	--	--	--	9.65	287.71
12/26/07	--	--	--	--	--	--	--	--	--	6.72	290.64	
06/24/09	200	12	<4.0	4.4	<400	--	--	--	--	7.56	289.80	
07/08/10	960	24	20	20.7	410	--	--	--	--	6.75	290.61	
02/08/11	22	1.0	5.2	7.7	860	--	--	--	--	4.85	292.51	
08/05/11	1.6	<0.50	0.93	0.77	<250	--	--	--	--	9.86	287.50	
02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	5.64	291.72	
08/27/12	<0.50	0.72	<0.50	<0.50	<250	290	<500	--	--	9.04	288.32	
DPE-2 NS	03/15/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	6.05	--
	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	--
	03/31/05	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	7.64	290.15
	06/24/05	--	--	--	--	--	--	--	--	--	7.23	290.56
	09/12/05	--	--	--	--	--	--	--	--	--	4.21	293.58
	12/06/05	--	--	--	--	--	--	--	--	--	7.33	290.46
	03/14/06	<1.0	<1.0	<1.0	<2.0	<100	--	--	--	--	6.70	291.09
	06/15/06	--	--	--	--	--	--	--	--	--	9.61	288.18
	09/13/06	--	--	--	--	--	--	--	--	--	5.21	292.58
	12/13/06	--	--	--	--	--	--	--	--	--	6.03	291.76
	03/30/07	--	--	--	--	--	--	--	--	--	5.82	291.97
	06/04/07	--	--	--	--	--	--	--	--	--	7.90	289.89
	09/13/07	--	--	--	--	--	--	--	--	--	10.20	287.59
	12/26/07	--	--	--	--	--	--	--	--	--	6.76	291.03
	07/08/10	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	6.19	291.60
08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	9.59	288.20	
01/08/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	6.54	281.35	
06/06/13	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	7.68	280.21	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
7-Eleven Store #22866
14207 International Boulevard/State Route 99, Tukwila, Washington
Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)	
DPE-3 NS 298.26	03/15/02	3.15	<1.0	3.89	<1.0	60.1	--	--	--	--	6.34	--	
	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	--	
	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	
	288.17	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		<1.0	<1.0	<1.0	<3.0	<100	--	--	--	--	7.89	280.28	
DPE-4 NS 298.52		03/15/02	468	718	183	1,914	9,600	--	--	--	--	7.10	--
		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	--	
	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	
	02/08/11	35	1.6	3.6	5.0	270	--	--	--	--	6.70	291.82	
08/04/11	220	6.5	2.8	19	860	--	--	--	--	8.98	289.54		
02/06/12	16	0.74	1.4	1.1	<250	--	--	--	--	7.27	291.25		
288.50	08/27/12	260	6.4	12	18	860	<250	<500	--	--	10.19	288.33	
	01/09/13	120	44	76	120	1,400	<250	<500	--	--	6.89	281.61	
	06/06/13	55	3.9	12	21	890	<250	<500	--	--	8.03	280.47	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15				

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington
 Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)	
DPE-5 NS	03/15/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	6.72	--	
	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	
02/08/11		57	14	25	360	2,300	--	--	--	--	6.60	291.69	
08/04/11		110	55	85	820	2,800	--	--	--	--	9.12	289.17	
02/06/12		0.81	<0.50	2.2	28	<250	--	--	--	--	7.12	291.17	
08/27/12		160	11	30	160	850	<250	<500	--	--	10.04	288.25	
01/09/13		<0.50	<0.50	1.4	27	<250	380	<500	--	--	5.52	282.75	
06/06/13		8.8	1.2	1.9	11	290	720	740	--	--	7.84	280.43	
DPE-6 NS	03/15/02	<0.5	<1.0	<1.0	<1.0	<100	--	--	--	--	6.85	--	
	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	500	500	15		

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington
 Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-7 NS	03/15/02	8.33	<2	68.6	215.5	1,120	--	--	--	--	7.19	--
	08/23/02	5.4	0.83	100	57.27	1,330	--	--	--	--	9.62	--
298.97	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	--
	03/31/05	47	8.9	750	1,520	14,000	--	--	--	--	9.21	289.76
	06/24/05	330	6.7	140	15	1,700	--	--	--	--	8.48	290.49
	09/12/05	19	7.6	150	91	4,200	--	--	--	--	7.64	291.33
	12/06/05	6.2	<1.0	29	<1.0	1,200	--	--	--	--	9.88	289.09
	03/14/06	8.0	<4.0	110	20	1,900	--	--	--	--	7.85	291.12
	06/15/06	790	46	350	191	5,000	--	--	--	--	10.11	288.86
	12/13/06	2.6	<1.0	<1.0	8.0	160	--	--	--	--	7.11	291.86
	03/30/07	3.3	<1.0	4.6	2.3	720	--	--	--	--	6.90	292.07
	06/04/07	2.5	<1.0	2.6	1.3	560	--	--	--	--	9.20	289.77
	09/13/07	<4.0	<4.0	<4.0	<8.0	450	--	--	--	--	11.35	287.62
	12/26/07	2.8	<1.0	1.4	1.7	460	--	--	--	--	7.35	291.62
	03/28/08	2.1	<1.0	<1.0	<2.0	440	--	--	--	--	6.98	291.99
	06/25/08	<4.0	<4.0	<4.0	<8.0	<400	--	--	--	--	9.33	289.64
	09/25/08	20	3.9	280	978	5,400	--	--	--	--	10.90	288.07
	01/02/09	8.3	<1.0	68	192	2,600	--	--	--	--	7.18	291.79
	03/24/09	3.5	<1.0	5.6	2.7	870	--	--	--	--	8.02	290.95
	06/24/09	<4.0	<4.0	<4.0	<8.0	790	--	--	--	--	9.36	289.61
	12/28/09	<4.0	<4.0	10	7.1	1,100	--	--	--	--	7.76	291.21
	07/09/10	1.5	<1.0	1.1	<2	560	--	--	--	--	8.52	290.45
02/08/11	0.75	<0.50	3.7	0.57	490	--	--	--	--	7.03	291.94	
08/05/11	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	9.41	289.56	
02/06/12	<0.50	<0.50	<0.50	<0.50	<250	--	--	--	--	7.38	291.59	
08/27/12	<0.50	<0.50	<0.50	<0.50	<250	<250	<500	--	--	9.60	289.37	
01/08/13	<0.50	5.80	1.20	<0.50	360	<250	<500	--	--	7.25	281.72	
06/06/13	<0.50	0.88	5.6	<0.50	520	<250	<500	--	--	8.41	280.56	
MTCA Method A Cleanup Level		5	1,000	700	1,000	800/1,000^b	500	500	15			

TABLE 2
GROUNDWATER MONITORING AND ANALYTICAL RESULTS
 7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington
 Results in micrograms per liter (µg/L)

Well ID (TOC)	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-G	TPH-D	TPH-O	Total Lead	Dissolved Lead	Depth To Groundwater (feet from TOC)	Groundwater Elevation (feet)
DPE-8 NS	03/15/02	<0.5	<1.0	<1.0	<1.0	71.5	--	--	--	--	7.25	--
	08/23/02	0.926	<1.0	1.69	<2.0	273	--	--	--	--	11.27	--
300.25	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	--
	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	
290.25	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	500	500	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 dilution is required to obtain an accurate quantification of the analyte.
- Combined DPE/SVE remediation system operations commenced on February 25, 1998.

TABLE 3
STATIC YIELD TEST ANALYSIS

7-Eleven Store #22866
 14207 International Boulevard/State Route 99, Tukwila, Washington

Monitoring Well	Measured Yield Rate (gpm)	Conversion Factor to 6 inch well	Calculated Yield Rate for 6 inch Well (gpm)
MW-4A	0.07	1.2	0.1
MW-4B	0.22	1.2	0.3
Average yield Rate			0.2



FIGURES
REMEDIAL ACTION WORK PLAN
7-ELEVEN STORE NO. 22866

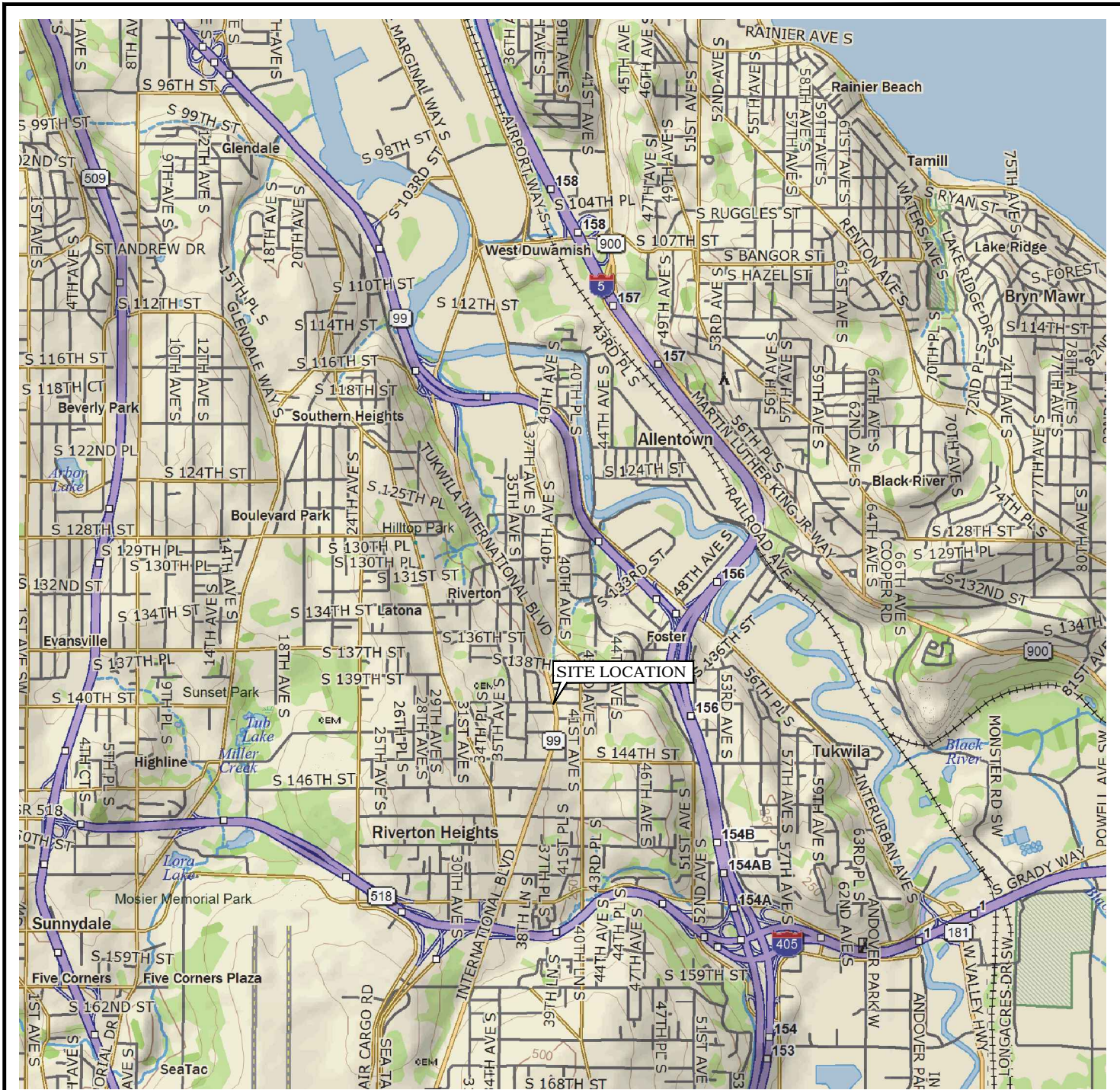
January 9, 2015



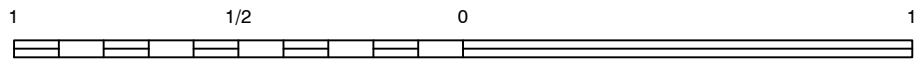
LEGEND:
 - - - - - SUBJECT PROPERTY

No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and/or information.

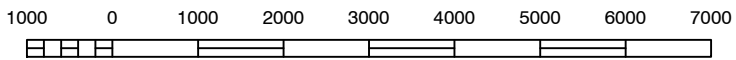
 Stantec 12034 134th COURT NORTHEAST, SUITE 102 REDMOND, WASHINGTON PHONE: (425) 298-1000 FAX: (425) 298-1019	FOR:  FACILITY NO. 22866 14207 INTERNATIONAL BLVD / STATE RT 99 TUKWILA, WASHINGTON		SITE VICINITY MAP		FIGURE: <h1 style="text-align: center;">2</h1>
	JOB NUMBER: 185750023	DRAWN BY: MDR	CHECKED BY: DH	APPROVED BY: PF	DATE: MAY 2013



WASHINGTON



SCALE (MILES)



SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, DES MOINES, WASHINGTON



Startec
12034 134th COURT NORTHEAST, SUITE 102
REDMOND, WASHINGTON
PHONE: (425) 298-1000 FAX: (425) 298-1019

FOR:



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

JOB NUMBER:
185750023

DRAWN BY:
MDR

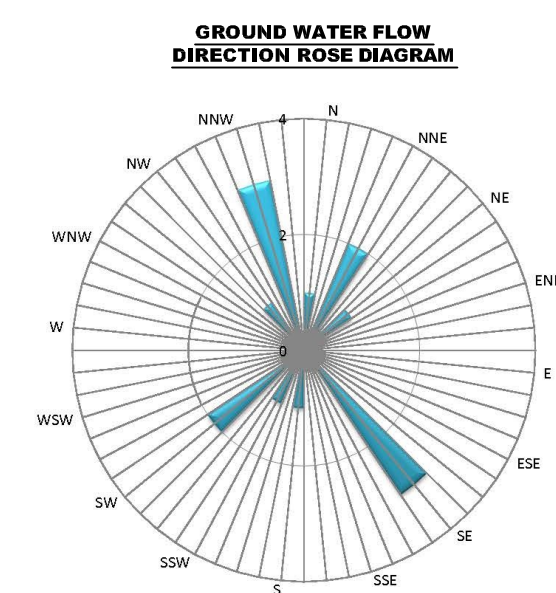
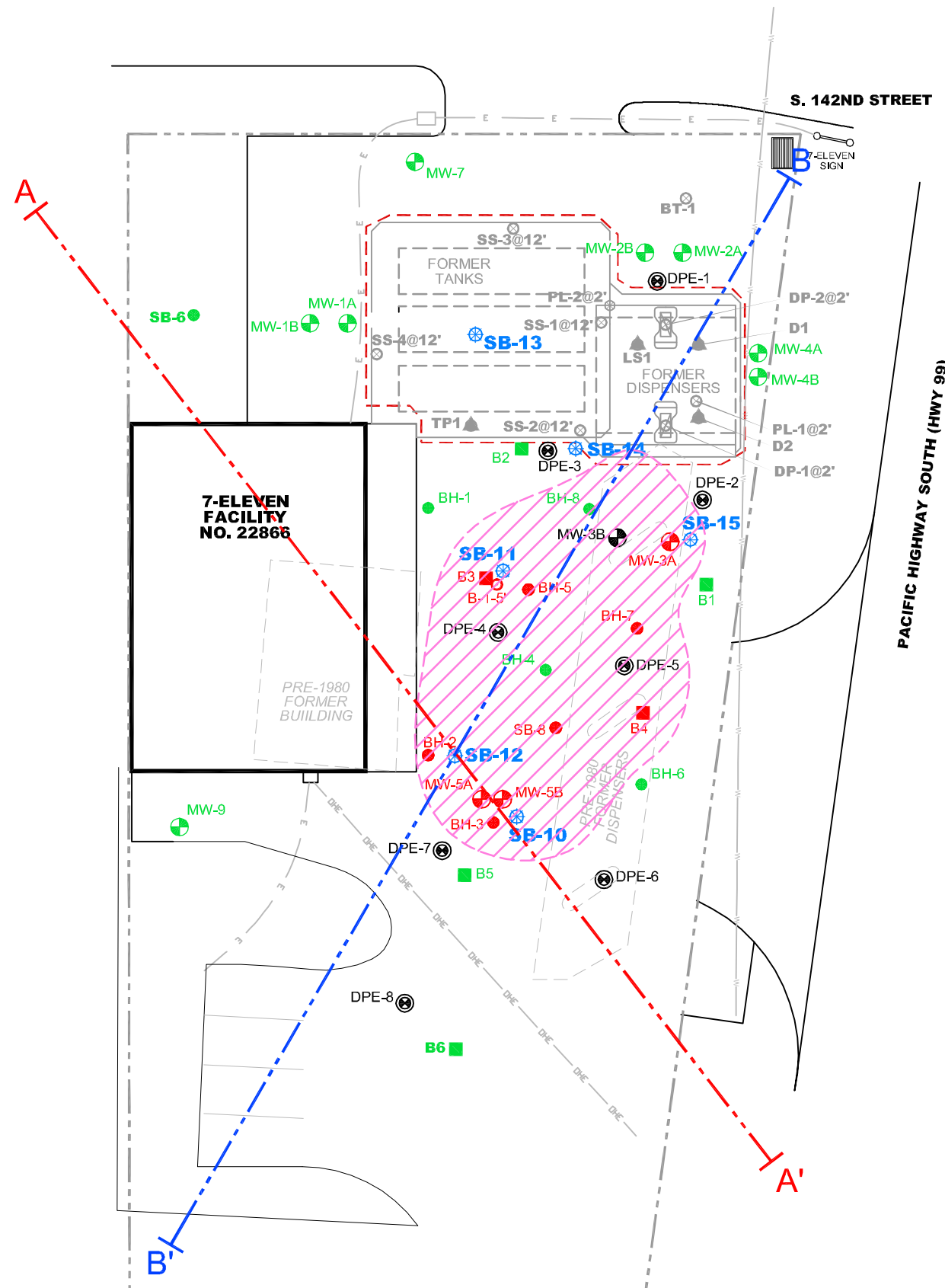
CHECKED BY:
DH

APPROVED BY:
PF

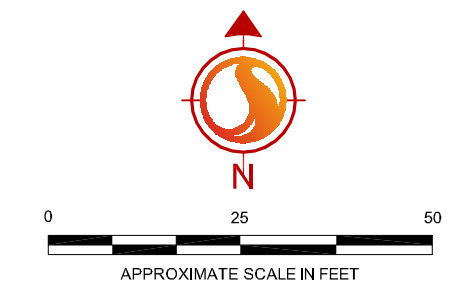
FIGURE:

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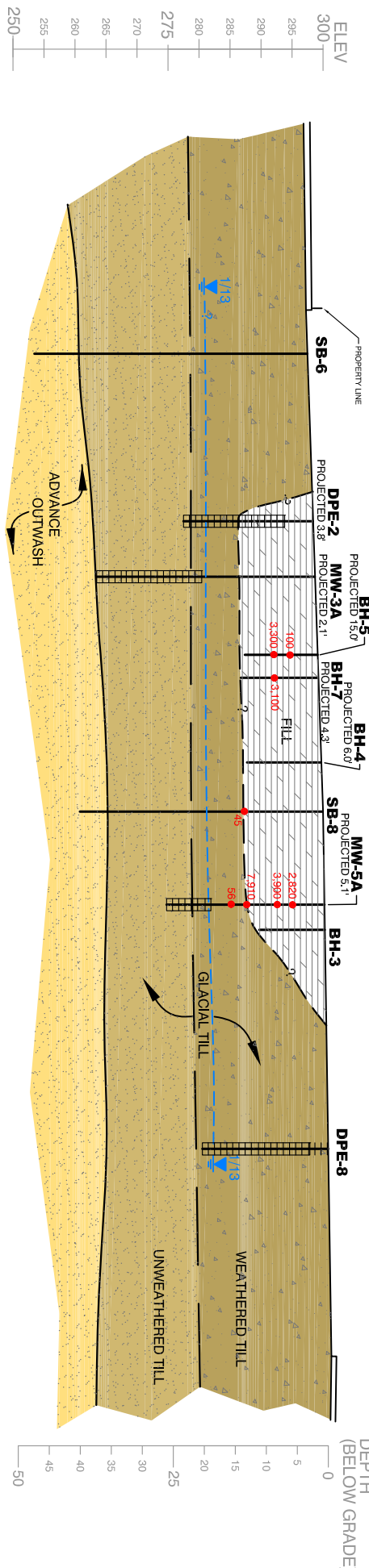
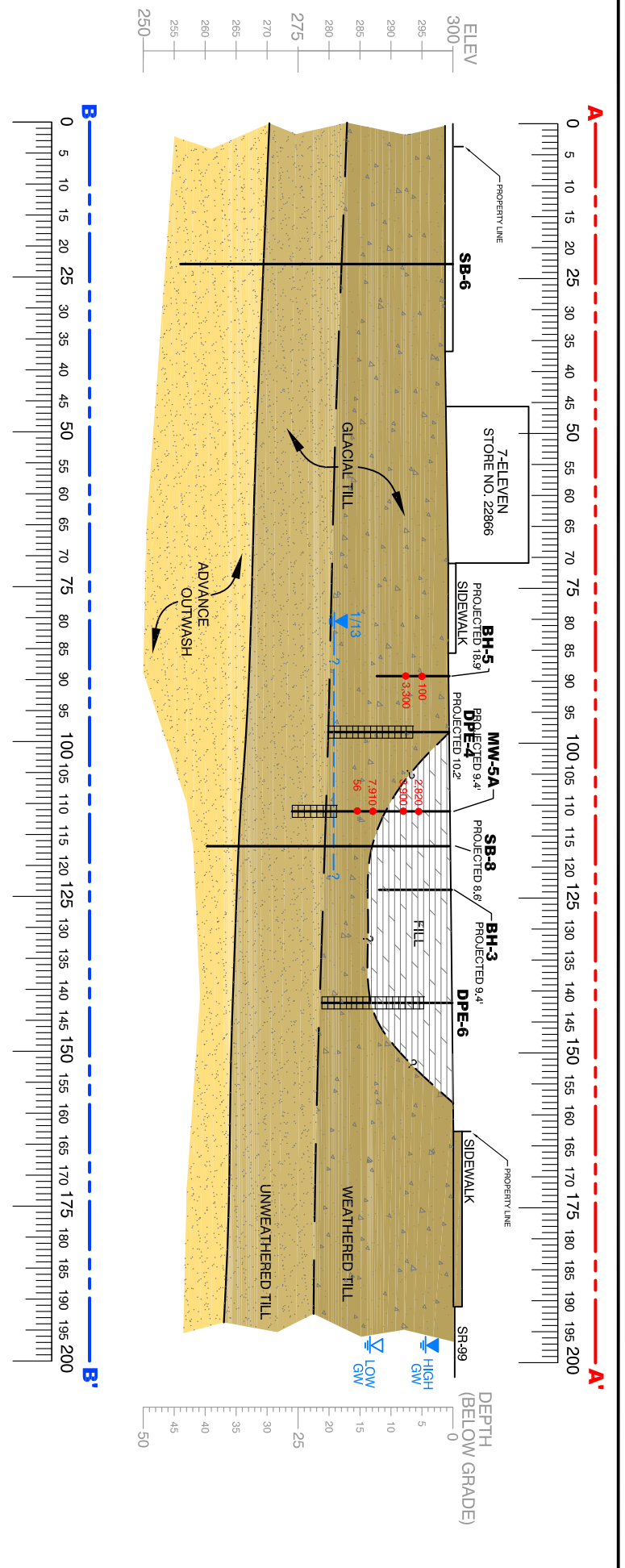
DATE:
MAY 2013



- LEGEND:**
- SB-10 (blue circle with cross) PROPOSED SOIL BORING LOCATIONS (STANTEC 2015)
 - MW-4B (black circle with cross) GROUNDWATER MONITORING WELL LOCATION
 - DPE-8 (black circle with cross) DUAL PHASE EXTRACTION WELL
 - D1 (black triangle) SOIL BORING LOCATION (FLUOR DANIEL GTI, OCTOBER 1995)
 - B1 (black square) SOIL BORING LOCATION (ITC, NOVEMBER 1999)
 - B-1A (black circle) SOIL BORING LOCATION (ITC, AUGUST 2000)
 - BH-1 (black circle) SOIL BORING LOCATION (SECOR, DECEMBER 2004)
 - (circle with cross) SOIL SAMPLE LOCATION (STANTEC OCTOBER / NOVEMBER 2010)
 - (dashed line) SUBJECT PROPERTY LINE BOUNDARY
 - (red dashed line) EXTENT OF 2010 EXCAVATION
 - (solid line) ELECTRIC LINE
 - (dashed line) OVERHEAD ELECTRIC LINE
 - (solid line) WATER LINE
 - (dotted line) FORMER STRUCTURES REMOVED (1980 & 2010)
 - (red dashed line) GEOLOGIC CROSS-SECTION A-A'
 - (blue dashed line) GEOLOGIC CROSS-SECTION B-B'
 - (grey square) INDICATES LOCATION WAS REMOVED DURING EXCAVATION (OCT/NOV 2010)
 - (red square) INDICATES AT LEAST ONE CONCENTRATION WAS DETECTED ABOVE METHOD SCREENING LEVELS.
 - (green square) INDICATES ALL CONCENTRATIONS ARE BELOW MTCA
 - (pink hatched oval) ESTIMATED EXTENT OF PETROLEUM HYDROCARBON IMPACTED SOIL
 - *
 - * PREVIOUSLY UNREPORTED FROM 2012 SUBSURFACE INVESTIGATION



<p>11130 NE 33RD PLACE, SUITE 200 BELLEVUE, WASHINGTON PHONE: (425) 869-9448 FAX: (425) 869-1190</p>	<p>FOR:</p> <p>FACILITY NO. 22866 14207 INTERNATIONAL BLVD / STATE RT 99 TUKWILA, WASHINGTON</p>	<p>SITE PLAN WITH PROPOSED SOIL BORING LOCATIONS</p>		<p>FIGURE: 3</p>
	<p>JOB NUMBER: 185750023</p>	<p>DRAWN BY: MDR</p>	<p>CHECKED BY: DH</p>	<p>APPROVED BY: PF</p>



- SP/WEATHERED GLACIAL TILL
- SM/UNWEATHERED GLACIAL TILL
- SP/ADVANCE OUTWASH
- SAMPLE LOCATION (TPHG) - DETECTION

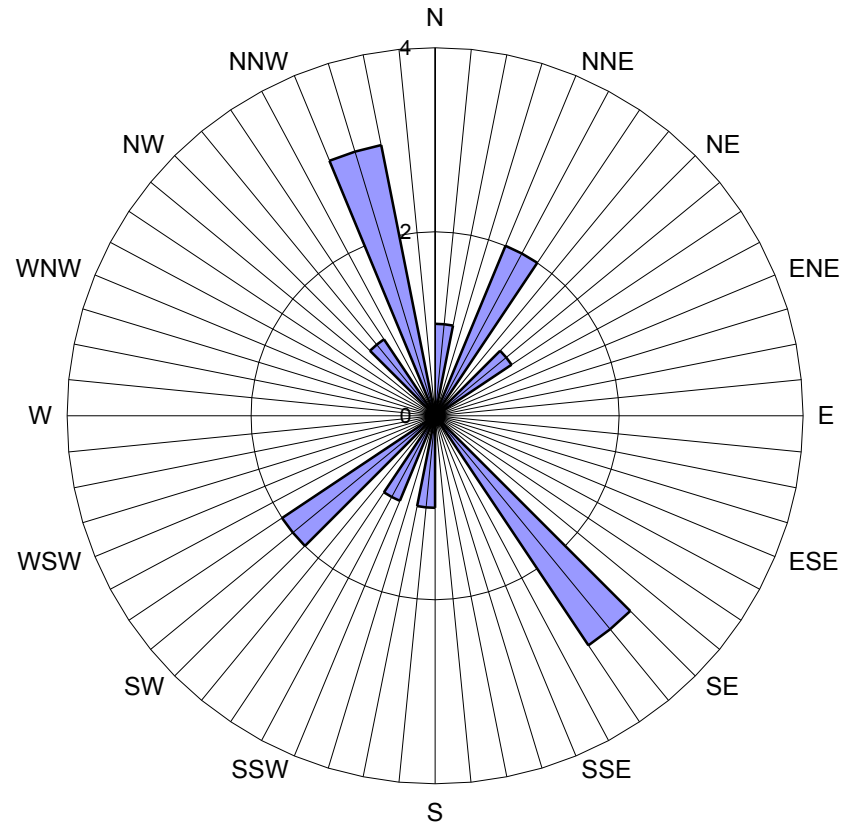
TPHG TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

<p>11130 NE 33RD PLACE, SUITE 200 BELLEVUE, WASHINGTON PHONE: (425) 869-9448 FAX: (425) 869-1190</p>		FOR:		<p>FACILITY NO. 22866 14207 INTERNATIONAL BLVD / STATE RT 99 TUKWILA, WASHINGTON</p>	<p>GEOLOGIC CROSS-SECTION A-A' AND B-B'</p>		FIGURE: 4
		JOB NUMBER: 185750023	DRAWN BY: MDR				

GRAPHS
REMEDIAL ACTION WORK PLAN
7-ELEVEN STORE NO. 22866

January 9, 2015

Graph 1
Groundwater Flow Direction Rose Diagram
 7-Eleven Store No. 22866
 Tukwila, Washington



■ Groundwater Flow Direction

Legend
 Concentric Circles represent
 Quarterly Monitoring Events
 Fourth Quarter 2002 through Second
 Quarter 2013
15 Data Points Shown

**APPENDIX A
SITE BACKGROUND
REMEDIAL ACTION WORK PLAN
7-ELEVEN STORE NO. 22866**

January 9, 2015

APPENDIX A

SITE BACKGROUND

1995 Subsurface Investigation

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 soil 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.

1996 Monitoring Well Installation

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 screening levels in the soil samples collected during the well installations. Benzene concentrations were detected above the MTCA Method A screening level 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.

1998 to 2002 Remediation System Installation and Operation

In August 1997 a dual-phase extraction (DPE) feasibility test was conducted at the Site. In November 1997, a DPE system was installed. The system included eight DPE wells (DPE-1 through DPE-8) and associated piping. The remediation system was initiated on February 12, 1998 and operated intermittently until April 2002. The DPE system was shut down due to decreasing treatment effectiveness and vehicular damage to the system compound. The system equipment and associated concrete pad were removed from the Site in February 2007.

1999 and 2000 Additional Borings

In November 1999, twelve exploratory soil borings were advanced at the Site. Benzene and total petroleum hydrocarbons as gasoline (TPH-G) concentrations were reported above MTCA Method A screening levels in three soil samples (B3A, B3B, and B4B) from borings located south of the second generation USTs and dispenser island.

In August 2000, one additional boring (B-1-5') south of the second generation USTs was advanced. Benzene and TPH-G concentrations were reported above MTCA Method A screening levels from this boring location at a depth of 5 feet bgs.

2004 Subsurface Investigation

In December 2004, eight soil borings (BH-1 through BH-8) were advanced to 12 feet bgs. Fourteen soil samples and three groundwater samples collected and submitted for analysis. Petroleum hydrocarbon constituents were detected above the MTCA Method A screening

levels 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.

2010 to UST Removal Activities

On October 27 through November 5, 2010, three 12,000 gallon, single-wall steel USTs, one dispenser island, associated product lines, and the canopy were removed from the Site. 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 convenience store building foundation. Analytical laboratory results of the soil samples collected following UST removal activities confirmed that petroleum-impacted soil exceeding MTC A Method A CULs were 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 MTC A Method A screening levels were present beneath the northern portion of the Site. A total of approximately 329 tons of petroleum impacted soil was removed from the excavation transferred to the Allied Waste Facility at 3rd and Lander, Seattle to be loaded on rail car and transferred an appropriately permitted landfill.

2012 Additional Subsurface Investigation and Well Installation

On December 13 and 14, 2012, Stantec supervised the advancement of four boreholes identified as SB-6, MW-7 (SB-7), SB-8, and MW-9 (SB-9). Two of the boreholes (SB-6 and SB-8) were drilled to a depth of 39 and 44 feet bgs, respectively. The other two boreholes (SB-7 and SB-9) were drilled to a depth of 16.5 feet and completed as groundwater monitoring wells (MW-7 and MW-9). The boreholes were located to better define the extent of the dissolved petroleum hydrocarbon plume and to assess the condition of the subsurface up-gradient of the Site. These boreholes were also drilled in order to verify/assess subsurface lithology and hydrogeology. Typical geologic stratigraphy of the Puget Sound region was observed during drilling activities.

APPENDIX B
STANDARD OPERATING PROCEDURES
REMEDIAL ACTION WORK PLAN
7-ELEVEN STORE NO. 22866

January 9, 2015

STANDARD PROCEDURES

Monitoring Well Installation and Soil Sampling Procedures

The Geoprobe Systems® direct-push probing system allows for continuous soil sampling which will be performed through the use of a two-inch diameter macro sampler. Probing equipment will be cleaned before advancing each probehole, and sampling equipment will be cleaned between each sampling interval. Soil samples will be field-screened for hydrocarbon vapors using a portable photoionization detector (PID). Soils encountered during drilling will be logged using the Unified Soil Classification System by a Stantec field geologist, working under the supervision of a Washington Licensed Geologist.

The vertical placement of the well screen will be based on the lithology and the groundwater level encountered during drilling, and will be determined in the field. A sand filter pack will be placed within the annulus of the well from the bottom of the borehole to approximately two feet above the top of the well screen. The annulus of the well will be sealed with two feet of bentonite above the filter sand, with a portland cement/bentonite grout to the surface. A 12-inch-diameter, traffic-rated, watertight street box will be installed to protect the well from surface traffic.

Soil samples will be collected in accordance with the Environmental Protection Agency (EPA) Method 5035A, then labeled and placed on ice in an insulated container for delivery to Fremont Analytical, located in Seattle Washington. All submitted soil and groundwater samples will be analyzed for TPH-G using Ecology Method NWTPH-Gx and BTEX using EPA Method 8260. Selected soil and groundwater samples will additionally be analyzed for petroleum constituents in accordance with MTCA Table 830-1.

Monitoring Well Purging and Groundwater Sampling Procedures

Monitoring well purging and sampling was conducted using U.S. Environmental Protection Agency (EPA) approved low-flow sampling techniques.

Purging Procedures

- A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well to calculate the height and volume of water in the borehole.
- B. Based on previously obtained data, if a monitoring well is suspected of containing liquid-phase hydrocarbon (LPH) concentrations lower a transparent bailer into the well to evaluate the presence of a LPH sheen on the water table.
- C. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a deionized water rinse.
- D. Purge, by low-flow pumping (less than 0.5 liters per minute) for approximately five minutes. If low-flow purging is not possible and bailing is used to purge the well, then a minimum of

three well volumes will be removed. If the well goes dry, the procedure listed in step E2 (below) should be followed. Parameters should be measured after each ½-casing volume is removed.

- E. Conduct field measurements (i.e., pH, specific conductivity, temperature, and oxidation-reduction potential) note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.
1. If the well has not been purged dry, continue to pump and conduct field measurements (including depth to water) again every five minutes during purging.
 - a) If the first through third series of measurements vary by less than 10 percent, the well has been adequately purged. Allow the well to recover to 80 percent of its static condition and begin the sampling procedure.
 - b) If the measurements vary by 10 percent or greater, repeat Step E1 above.
 - c) If a minimum of three parameters cannot be measured during purging, remove three well volumes prior to sampling.
 2. If the well has been purged dry, measure the water level and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery, and begin the sampling procedure.

Sampling Procedures

- Use the pump to collect the groundwater sample.
- Transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.
- Enter the samples into Chain-of-Custody and preserve on ice until delivery to the analytical laboratory. Complete the Well Development or Purging/Sampling Log to be stored in the project file.

When requested by the client, collect a bailer 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.