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**FINDINGS FROM LIMITED PHASE II
ENVIRONMENTAL ASSESSMENT
SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON**

E-0260-2

Prepared for:

Mr. Barry Mar
Dott Mar, Inc.
P.O. Box 3343
Seattle, Washington 98114

March 15, 2006

Geo Group Northwest, Inc.
13240 NE 20th Street, Suite 10
Bellevue, Washington 98005
Phone: (425) 649-8758 / Fax: (425) 649-8758



March 15, 2006

E-0260-2

Mr. Barry Mar
Dott Mar, Inc.
P.O. Box 3343
Seattle, Washington 98114

Subject: Findings from Limited Phase II Environmental Assessment
Seventh Avenue Service
701 S. Jackson Street
Seattle, Washington

Dear Mr. Mar:

GEO Group Northwest, Inc., has completed its limited Phase II environmental assessment of the property referenced above and located in Seattle, Washington. The Phase II activities were completed consistent with our proposal dated October 20, 2005.

PREVIOUS ASSESSMENT

In 1992, GEO Group Northwest, Inc., performed a limited subsurface assessment at the project site and prepared a report of its results.¹ This assessment included drilling three soil borings (identified as B-1 through B-3 in the previous assessment report; but referred to as H-1 through H-3, respectively, in this letter), collecting soil samples from the borings, and testing selected soil samples for the presence of petroleum hydrocarbons and lead. These borings were located in proximity to three abandoned underground storage tanks on site, and were completed to

¹ Level 2 Site Contamination Assessment, Jackson & 7th Gas Station, 701 South Jackson Street, Seattle, Washington. Geo Group Northwest, Inc., October 14, 1992.

and sample depth relative to possible nearby contaminant sources (such as underground storage tanks or fuel delivery lines).

FINDINGS

Soils encountered in the soil borings typically consisted of medium dense to dense interlayered silt, sandy silt, and silty sand, with lesser relatively clean sand layers. Groundwater was not encountered in the borings, but water seepage was present in some sandy layers located at depths between approximately 7 to 12 feet and also between approximately 20 to 30 feet (relative to the ground surface). Copies of the boring logs are presented in Attachment 1 to this letter.

The laboratory analysis results indicate that the soil samples collected from borings B-1, B-3, and B-4 contain petroleum hydrocarbons. Specifically, the soil samples collected at 12.5 feet in boring B-1, at 10 feet in boring B-3, and at 14 feet in boring B-4 contained gasoline-range hydrocarbons (TPH-G) at concentrations above the Washington State Model Toxics Control Act (MTCA) Method A cleanup level in soil at non-industrial sites. Also, five of the six samples contained benzene at concentrations above the applicable MTCA Method A cleanup level. None of the analyzed samples was reported to contain diesel or heavy oil hydrocarbons at concentrations above the applicable MTCA Method A cleanup level. The analysis results and MTCA Method A cleanup levels are presented in Table 2 at the end of this letter. A copy of the laboratory analysis report is provided in Attachment 2 to this letter.

Volatile organic compounds reported detected in the analyzed soil samples from borings B-3 and B-4 included isomers of trimethylbenzene and propylbenzene, propyltoluene, and naphthalene. These compounds are common minor constituents in gasoline products. With the exception of naphthalene, they do not have individual established cleanup levels. No halogenated volatile organic compounds were reported detected in the analyzed samples.

CONCLUSIONS

Based on the findings presented above, GEO Group Northwest, Inc., concludes that subsurface soils in the vicinity of the abandoned underground storage tanks and the former dispenser island contain gasoline-range hydrocarbons (TPH-G) and one or more BTEX constituents at concentrations above MTCA Method A cleanup levels for soil at non-industrial sites. Also,

depths between 10 and 17.5 feet below the ground surface. The boring locations are illustrated in Plate 2 - Site Plan.

Evidence of petroleum hydrocarbon contamination was noted in the soils encountered in borings H-1 and H-3, according to the previous assessment report. Gasoline-range hydrocarbons and benzene, toluene, ethylbenzene, and xylenes (BTEX constituents) were reported present at concentrations above cleanup levels in a soil sample collected at a depth of 12.5 feet from boring H-1. Gasoline-range and heavier oil-range hydrocarbons were reported present at concentrations above cleanup levels in a soil sample collected at a depth of 7.5 feet from boring H-3. The laboratory analysis results are summarized in Table 1 at the back of this letter.

The cleanup levels cited in the previous assessment report were modified in following years. Based on the current (year 2006) Washington State Model Toxics Control Act Method A cleanup levels, gasoline-range hydrocarbons and BTEX constituents reported detected in the samples from borings H-1 and H-3 exceed the applicable cleanup levels. The oil-range hydrocarbons reported detected in the sample from boring H-3, however, are below the current applicable cleanup level.

CURRENT ASSESSMENT ACTIVITIES

GEO Group Northwest, Inc., supervised the drilling of four exploratory soil borings (identified as B-1 through B-4) on the site during February 1 and 2, 2006. The borings were drilled using a truck-mounted drilling rig with hollow-stem augers. The borings were completed to depths of approximately 40 feet below the ground surface and were backfilled with bentonite after the drilling and sampling work was finished. The boring locations are illustrated in Plate 2 - Site Plan.

A GEO Group Northwest, Inc., geologist logged the borings and collected soil samples for visual evaluation and laboratory analysis. Six soil samples (two from each of borings B-1, B-3, and B-4, where field evidence of petroleum hydrocarbon presence was noted) were sent to an analytical laboratory for testing for petroleum hydrocarbons. Two of these samples (one from boring B-3 and one from boring B-4) also were selected for testing for volatile organic compounds, due to their proximity to the service garages. The samples that were sent for analysis were chosen on the basis of evidence of contamination (such as odor or discoloration)

GEO Group Northwest, Inc.

subsurface soils in the southwestern part of the site contain TPH-G and BTEX constituents at concentrations above applicable cleanup levels. Our interpretation of the approximate lateral extent of soils with petroleum hydrocarbons at concentrations above applicable cleanup levels is illustrated in Plate 3 - Lateral Extent of Petroleum Hydrocarbons in Soil.

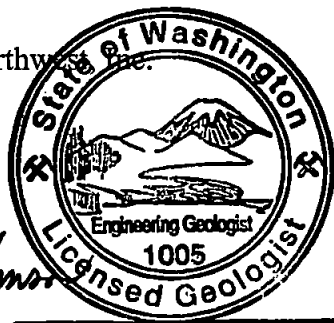
The vertical extent of petroleum-impacted soils appears to be limited to a maximum depth of approximately 17 feet at B-1, 18 feet at boring B-3, and 16 feet at boring B-4, based on our observations of soil samples (including checking the samples for hydrocarbon odor) collected from the borings drilled for this assessment. Due to the interlayered character of the silt and sandy soils beneath the site, however, the depth of petroleum-impacted soils at locations away from the borings may vary. In general, it appears that excavating the site to an elevation of approximately 66 feet probably would result in the removal of most or all of the on-site soils that contain TPH-G or BTEX constituents above MTCA Method A cleanup levels, as illustrated in Plate 4 - Vertical Extent of Petroleum Hydrocarbons in Soil.

CLOSING

GEO Group Northwest, Inc., appreciates the opportunity to provide you with environmental consulting services for this project. Please feel free to call us if you have any questions regarding this letter.

Sincerely,

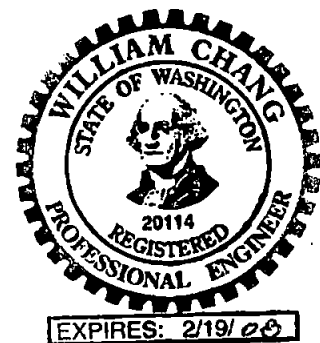
GEO Group Northwest, Inc.



Keith Johnson

Keith Johnson
Project Geologist

KEITH A. JOHNSON



William Chang

William Chang, PE
Principal Engineer

GEO Group Northwest, Inc.

Illustrations

- Plate 1 - Site Location Map
- Plate 2 - Site Plan
- Plate 3 - Lateral Extent of Petroleum Hydrocarbons in Soil
- Plate 4 - Vertical Extent of Petroleum Hydrocarbons in Soil

Tables

- Table 1 - Soil Analysis Results - August 1992
- Table 2 - Soil Analysis Results - February 2006

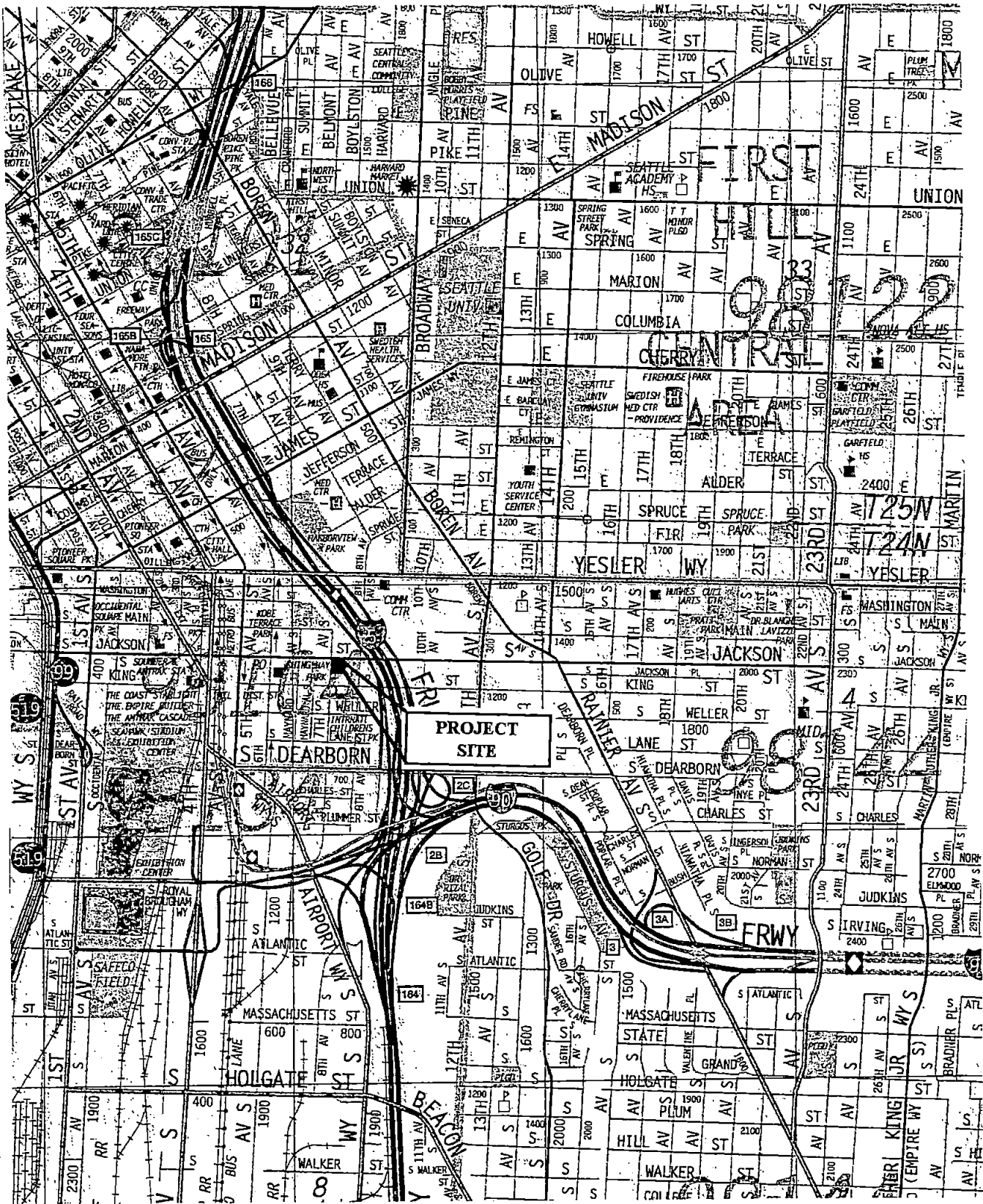
Attachments

- Attachment 1 - Soil Classification Legend and Boring Logs
- Attachment 2 - Laboratory Analysis Report

ILLUSTRATIONS

E-0260-2

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Geotechnical Engineers, Geologists, &
Environmental Scientists

SITE LOCATION MAP

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

SCALE: 1" = 1500'

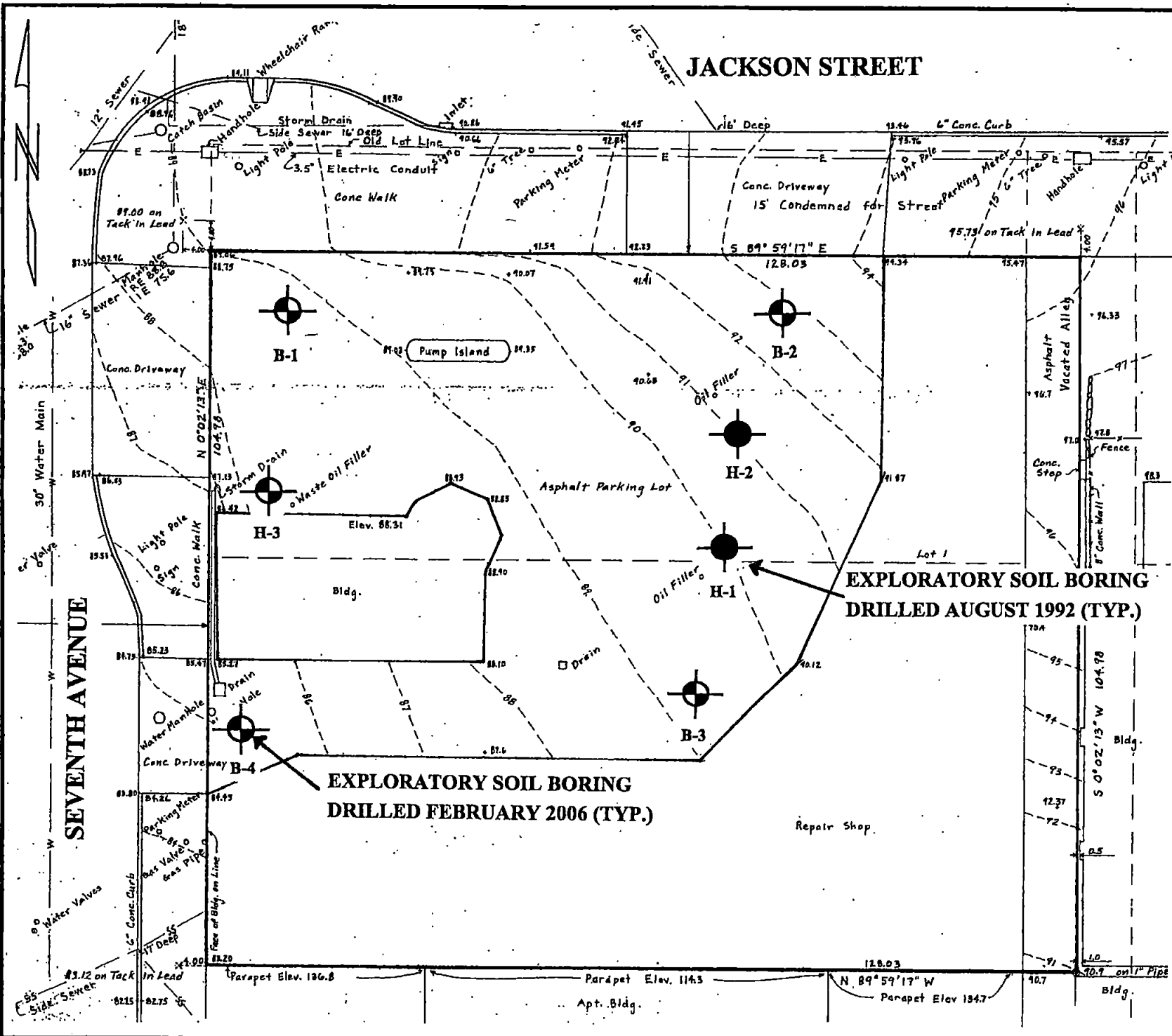
DATE: 3/1/06

MADE: KJ

CHKD: WC

JOB NO: E-0260-2

PLATE 1



Adapted from "Topography for DOTT MAR, Inc." by John Herbert Miller, L.S., January 1993.



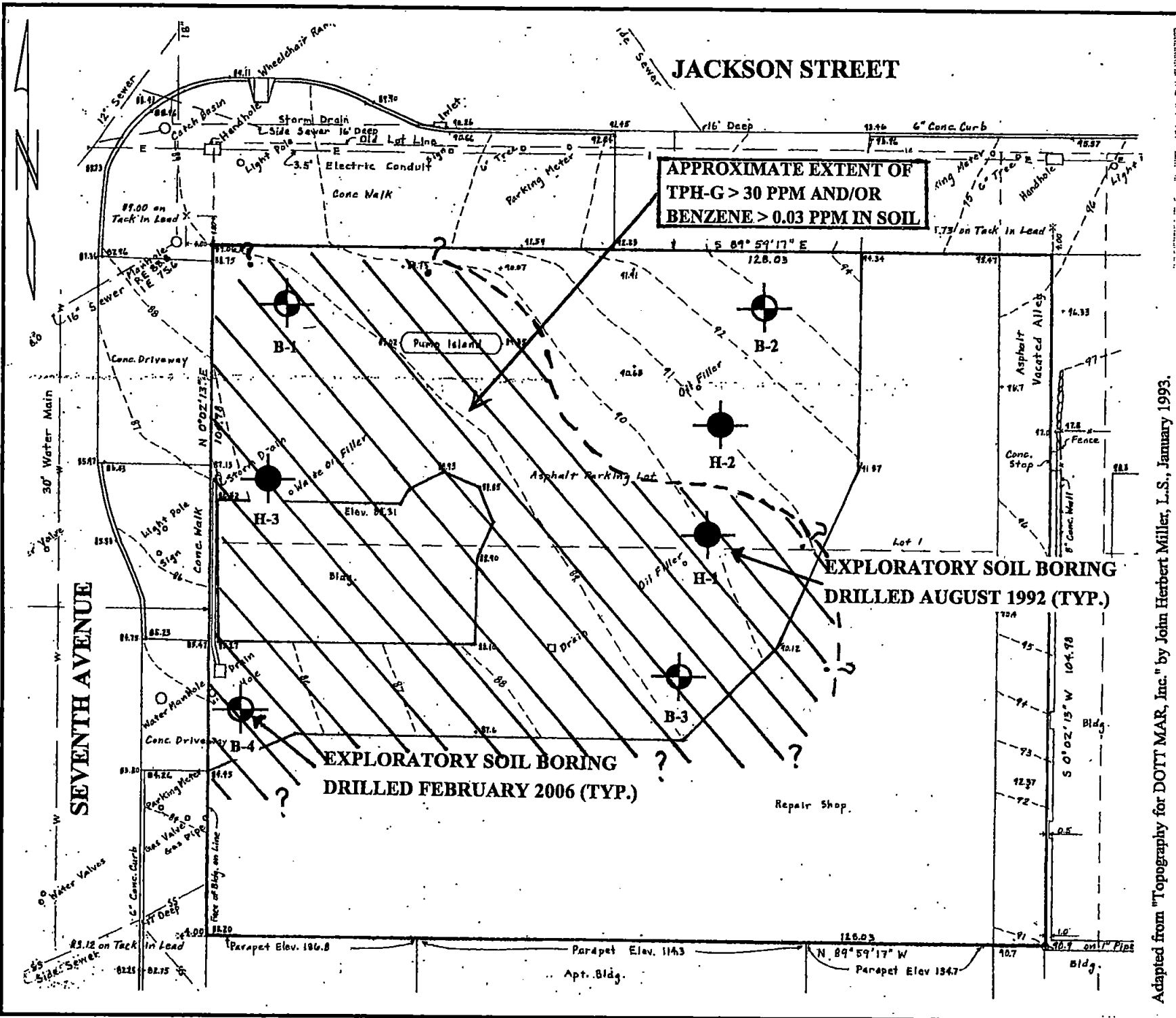
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Geotechnical Engineers, Geologists, &
Environmental Scientists

SITE PLAN

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

SCALE: 1" = 20'	DATE: 3/9/06	MADE: KJ	CHKD: WC	JOB NO: E-0260-2	PLATE 2
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Adapted from "Topography for DOTT MAR, Inc." by John Herbert Miller, L.S., January 1993.



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Geotechnical Engineers, Geologists, &
Environmental Scientists

LATERAL EXTENT OF PETROLEUM HYDROCARBONS IN SOIL

701 S. JACKSON STREET
SEATTLE, WASHINGTON

SCALE: 1" = 20'

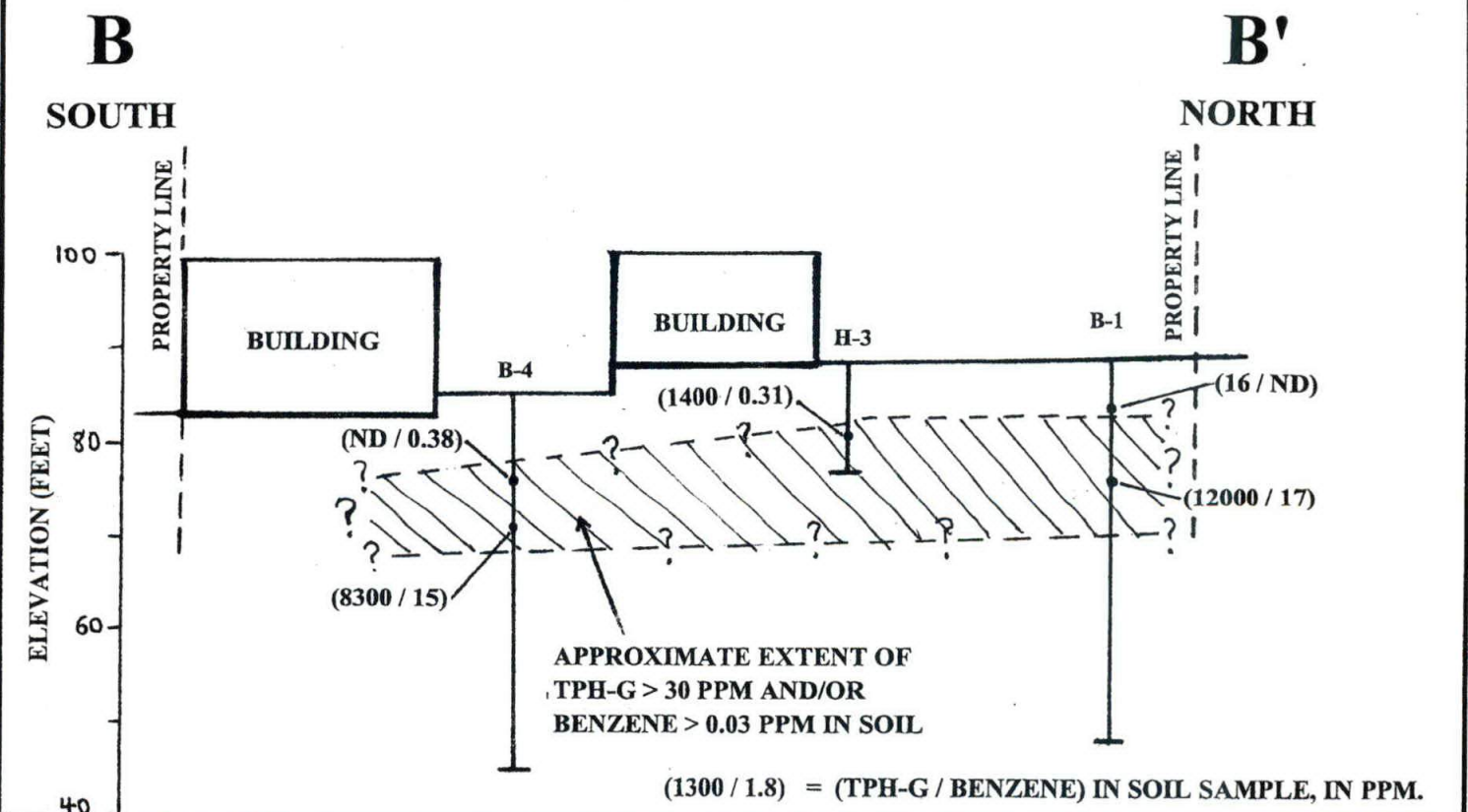
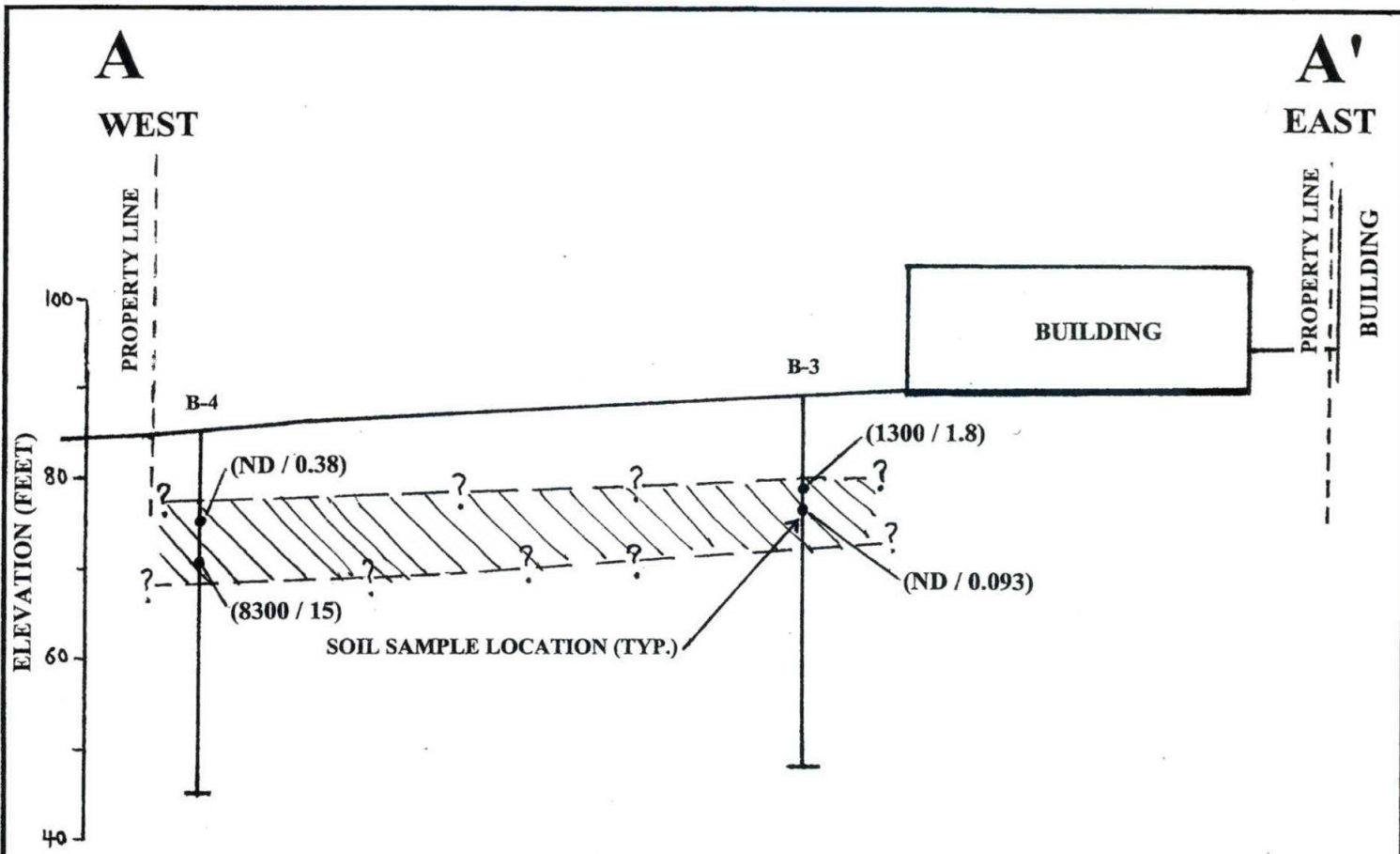
DATE: 3/15/06

MADE: KJ

CHKD: WC

JOB NO: E-0260-2

PLATE 3



GEO Group Northwest, Inc.

Geotechnical Engineers, Geologists, &
Environmental Scientists

**VERTICAL EXTENT OF PETROLEUM
HYDROCARBONS IN SOIL**

701 S. JACKSON STREET
SEATTLE, WASHINGTON

SCALE: 1" = 20'	DATE: 3/15/06	MADE: KJ	CHKD: WC	JOB NO: E-0260-2	PLATE 4
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TABLES

E-0260-2

TABLE 1

SOIL ANALYSIS RESULTS - AUGUST 1992

701 S. Jackson Street, Seattle, Washington

E-0260-2

Boring No.	Depth (feet)	Date Collected	WTPH (ppm)	Total Lead (ppm)	TPH-G (ppm)	TPH-D (ppm)	TPH-O (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)
H-1	8.5	8/3/92	NT	ND	2.2	NT	NT	ND	ND	ND	0.1
	12.5	8/3/92	NT	1.5	6,000	NT	NT	4	55	66	330
H-2	7.5	8/3/92	NT	2.2	1.6	NT	NT	ND	ND	ND	ND
H-3	7.5	8/3/92	1,800	3.8	1,400	NT	NT	0.31	1.9	6.2	16
Regulatory Criteria				250	100/30 ¹	2000 ²	2000 ²	0.03	7	6	9

Notes:

The borings are identified in the previous assessment report, dated 1992, as B-1, B-2, and B-3.

NT = Not tested.

ND = Not detected. Refer to laboratory report for detection limits.

ppm = parts per million.

Concentrations exceeding regulatory criteria are shown in **bold** print.

TPH-G analyses performed using WTPH-G Method; BTEX analyses performed using EPA Method 8020.

WTPH analysis performed using EPA Method 418.1 Modified.

Regulatory Criteria: Washington State Model Toxics Control Act Method A Cleanup Levels.

¹ Cleanup level is 100 ppm if no benzene is present and if total of toluene, ethylbenzene, and xylenes is less than 1% of the gasoline mixture; otherwise, the cleanup level is 30 ppm.

² Cleanup level applies to the combination of diesel and oil hydrocarbons.

³ BTEX and volatiles analyses for this sample performed using EPA 8260B method.

TABLE 2

SOIL ANALYSIS RESULTS - FEBRUARY 2006

701 S. Jackson Street, Seattle, Washington

E-0260-2

Boring No.	Depth (feet)	Date Collected	TPH-G (ppm)	TPH-D (ppm)	TPH-O (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	Naphthalenes (ppm)
B-1	5	2/1/06	16	ND	ND	ND	ND	ND	0.061	NT
	12.5	2/1/06	12,000	560	ND	17	7.2	210	860	NT
B-3	10	2/1/06	1,300	ND	ND	1.8	4.5	12	35.4	NT
	12.5	2/1/06	ND	ND	ND	0.093³	0.39³	0.19³	1.08³	ND³
B-4	9	2/2/06	ND	ND	ND	0.38	0.21	0.12	0.19	NT
	14	2/2/06	8,300	280	ND	15³	35³	100³	440³	33³
Regulatory Criteria			100/30 ¹	2000 ²	2000 ²	0.03	7	6	9	5

Notes:

NT = Not tested.

ND = Not detected. Refer to laboratory report for detection limits.

ppm = parts per million.

Concentrations exceeding regulatory criteria are shown in **bold print**.

TPH-G and BTEX analyses performed using NWTPH-G Method (except as noted);

TPH-D and TPH-O analyses performed using NWTPH-Dx Method.

Regulatory Criteria: Washington State Model Toxics Control Act Method A Cleanup Levels.

¹ Cleanup level is 100 ppm if no benzene is present and if total of toluene, ethylbenzene, and xylenes is less than 1% of the gasoline mixture; otherwise, the cleanup level is 30 ppm.² Cleanup level applies to the combination of diesel and oil hydrocarbons.³ BTEX and volatiles analyses for this sample performed using EPA 8260B method.

ATTACHMENTS

E-0260-2

GEO Group Northwest, Inc.

LEGEND FOR SOIL CLASSIFICATION AND PENETRATION TEST DATA

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

MAJOR DIVISION		GROUP SYMBOL	TYPICAL DESCRIPTION	LABORATORY CLASSIFICATION CRITERIA		
COARSE-GRAINED SOILS More Than Half by Weight Larger Than No. 200 Sieve	GRAVELS (More Than Half Coarse Fraction is Larger Than No. 4 Sieve)	CLEAN GRAVELS (little or no fines)	GW WELL GRADED GRAVELS, GRAVEL-SAND MIXTURE, LITTLE OR NO FINES	CONTENT OF FINES BELOW 5%	$C_u = (D_{60} / D_{10})$ greater than 4 $C_c = (D_{30})^2 / (D_{10} * D_{60})$ between 1 and 3	
		GP POORLY GRADED GRAVELS, AND GRAVEL-SAND MIXTURES LITTLE OR NO FINES	CLEAN GRAVELS NOT MEETING ABOVE REQUIREMENTS			
		DIRTY GRAVELS (with some fines)	GM SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	CONTENT OF FINES EXCEEDS 12%	GM: ATTERBERG LIMITS BELOW "A" LINE, or P.I. LESS THAN 4	
			GC CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES		GC: ATTERBERG LIMITS ABOVE "A" LINE, or P.I. MORE THAN 7	
	SANDS (More Than Half Coarse Fraction is Smaller Than No. 4 Sieve)	CLEAN SANDS (little or no fines)	SW WELL GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	CONTENT OF FINES BELOW 5%	$C_u = (D_{60} / D_{10})$ greater than 6 $C_c = (D_{30})^2 / (D_{10} * D_{60})$ between 1 and 3	
			SP POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES		CLEAN SANDS NOT MEETING ABOVE REQUIREMENTS	
		DIRTY SANDS (with some fines)	SM SILTY SANDS, SAND-SILT MIXTURES	CONTENT OF FINES EXCEEDS 12%	ATTERBERG LIMITS BELOW "A" LINE with P.I. LESS THAN 4	
			SC CLAYEY SANDS, SAND-CLAY MIXTURES		ATTERBERG LIMITS ABOVE "A" LINE with P.I. MORE THAN 7	
FINE-GRAINED SOILS Less Than Half by Weight Larger Than No. 200 Sieve	SILTS (Below A-Line on Plasticity Chart, Negligible Organics)	Liquid Limit < 50%	ML INORGANIC SILTS, ROCK FLOUR, SANDY SILTS OF SLIGHT PLASTICITY			
		Liquid Limit > 50%	MH INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOIL			
	CLAYS (Above A-Line on Plasticity Chart, Negligible Organics)	Liquid Limit < 50%	CL INORGANIC CLAYS OF LOW PLASTICITY, GRAVELLY, SANDY, OR SILTY CLAYS, CLEAN CLAYS			
		Liquid Limit > 50%	CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS			
	ORGANIC SILTS & CLAYS (Below A-Line on Plasticity Chart)	Liquid Limit < 50%	OL ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY			
		Liquid Limit > 50%	OH ORGANIC CLAYS OF HIGH PLASTICITY			
HIGHLY ORGANIC SOILS			Pt PEAT AND OTHER HIGHLY ORGANIC SOILS			

SOIL PARTICLE SIZE				
FRACTION	U.S. STANDARD SIEVE			
	Passing		Retained	
	Sieve	Size (mm)	Sieve	Size (mm)
SILT / CLAY	#200	0.075		
SAND				
FINE	#40	0.425	#200	0.075
MEDIUM	#10	2.00	#40	0.425
COARSE	#4	4.75	#10	2.00
GRAVEL				
FINE	0.75"	19	#4	4.75
COARSE	3"	76	0.75"	19
COBBLES	76 mm to 203 mm			
BOULDERS	> 203 mm			
ROCK FRAGMENTS	> 76 mm			
ROCK	> 0.76 cubic meter in volume			

GENERAL GUIDANCE FOR ENGINEERING PROPERTIES OF SOILS, BASED ON STANDARD PENETRATION TEST (SPT) DATA						
SANDY SOILS				SILTY & CLAYEY SOILS		
Blow Counts N	Relative Density, %	Friction Angle ϕ , degrees	Description	Blow Counts N	Unconfined Strength q_u , tsf	Description
0 - 4	0 - 15		Very Loose	< 2	< 0.25	Very soft
4 - 10	15 - 35	26 - 30	Loose	2 - 4	0.25 - 0.50	Soft
10 - 30	35 - 65	28 - 35	Medium Dense	4 - 8	0.50 - 1.00	Medium Stiff
30 - 50	65 - 85	35 - 42	Dense	8 - 15	1.00 - 2.00	Stiff
> 50	85 - 100	38 - 48	Very Dense	15 - 30	2.00 - 4.00	Very Stiff
				> 30	> 4.00	Hard



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Geotechnical Engineers, Geologists, &
Environmental Scientists

13240 NE 20th Street, Suite 10.
Phone (425) 649-8757

Bellevue, WA 98005
Fax (425) 649-8758

BORING NO. B-1

Logged By: KJ

Date Drilled: 2/1/06

Surface Elev. 89 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
			Asphalt (2" thick) over concrete (5" to 6" thick).					
5		ML	Olive gray SILT, damp, medium dense, rare fine sand laminae, some oxidation stain (NATIVE SOIL).	I	S1	2,7,9 N=16	28.2	
		ML	Gray SILT, damp, medium dense, moist sand lens in middle part of sample, hydrocarbon odor.	I	S2	5,14,10 N=24	28.4	
	80							
10		ML/ SP	Olive gray SILT and SAND, interbedded, damp, medium dense, trace oxidation stain in sand, thickly interbedded, hydrocarbon odor.	I	S3	5,15,13 N=28	4.7	
		SP	Gray SAND, damp to moist, dense, occasional silt lenses, no oxidation stain, hydrocarbon odor.	I	S4	7,16,19 N=35	17.2	
15		ML/ SP	Olive gray SILT and gray SAND, interbedded, damp to moist, dense, weak hydrocarbon odor.	I	S5	5,11,22 N=33	28.6	
	70							
20		ML	Olive SILT, damp to moist, medium dense, some very fine sandy zones, occasional thin silty sand layers, no hydrocarbon odor.	I	S6	4,8,13 N=21	27.8	
		ML/ SM	As above but interbedded with olive gray SILTY SAND and SAND, damp, medium dense, sand is mostly very fine grained, some silt layers contain lesser sand.	I	S7	4,10,14 N=24	19.8	
	60							
30		SM	Olive gray SILTY SAND, damp, medium dense, sand is very fine and fine grained, light oxidation stain, occasional clean sand laminae.	I	S8	8,11,13 N=24	24.1	
		SP- SM	Olive to brownish gray SAND to SILTY SAND, damp, very dense, thinly bedded, sand is very fine and fine grained, occasional silty sand lenses, minor oxidation stain.	I	S9	8,22,31 N=53	17.1	
	50							
40		SP	Light brown gray SAND, damp, dense, very fine and fine grained, trace oxidation stain.	I	S10	9,20,21 N=41	7.5	

LEGEND: 2" O.D. Split-Spoon Sampler
 3" O.D. Dames & Moore Sampler
 3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 water level during drilling

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Geotechnical Engineers, Geologists, &
Environmental Scientists

BORING LOG

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

JOB NO. <u> G-0260 </u>	DATE <u> 2/13/06 </u>	PLATE <u> A2 </u>
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BORING NO. B-1

Logged By: KJ

Date Drilled: 2/1/06

Surface Elev. 89 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
45			Bottom of boring: 40.5 feet. Drilling Method: Hollow-stem auger. Sampling Method: 2-inch-O.D. SPT sampler driven using a 140 lb. hammer with a 30-inch drop. Groundwater not encountered during drilling. No fill encountered.					
50								
55								
60								
65								
70								
75								
80								

LEGEND:

	2" O.D. Split-Spoon Sampler
	3" O.D. Dames & Moore Sampler
	3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 water level during drilling

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BORING LOG

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

JOB NO. <u> G-0260 </u>	DATE <u> 2/13/06 </u>	PLATE <u> A3 </u>
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BORING NO. B-2

Logged By: KJ

Date Drilled: 2/1/06

Surface Elev. 93 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
			Asphalt (2" thick) over concrete (5" to 6" thick).					
5	90	ML	Olive gray SILT with little sand and gravel, damp, loose, crumbly, some oxidation stain (DISTURBED NATIVE SOIL).	I	S1	2,3,4 N=7	22.6	
		ML	Gray SILT, damp, medium dense, contains an olive gray fine and medium grained sand lens 2" thick, (NATIVE SOIL).	I	S2	4,9,12 N=21	30.1	
10	80	SM/ SP	Olive brown SILTY SAND and SAND, interbedded, damp, dense, trace oxidation stain in sand, sand is fine and medium grained.	I	S3	7,12,18 N=30	8.6	
		SM/ SP	As above, thickly interbedded.	I	S4	9,16,18 N=34	12.8	
15	80	SP	Olive gray SAND, damp, dense, medium and fine grained, no fines.	I	S5	8,16,19 N=35	8.6	
		SP	As above.	I	S6	7,16,23 N=39	9.3	
25	70	ML/ SP	Gray SILT and olive gray SAND, interbedded, damp, medium dense, sand is fine and medium grained, some sand layers grade to silty sand.	I	S7	8,10,20 N=30	30.0	
		ML/ SM	As above but also interbedded with olive gray SILTY SAND, damp to moist, dense, moist to wet sand lens 3" thick, sand is fine grained.	I	S8	6,14,22 N=36	26.5	
35	60	SM	Gray SILTY SAND, damp to moist, dense, sand is very fine and fine grained.	I	S9	8,17,26 N=43	24.9	
		SM	Olive SILTY SAND, as above.	I	S10	6,11,20 N=31	25.2	

LEGEND: 2" O.D. Split-Spoon Sampler
 3" O.D. Dames & Moore Sampler
 3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 water level during drilling



Group Northwest, Inc.

Geotechnical Engineers, Geologists, &
Environmental Scientists

BORING LOG

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

JOB NO. G-0260

DATE 2/13/06

PLATE A4

BORING NO. B-2

Logged By: KJ

Date Drilled: 2/1/06

Surface Elev. 93 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
45		SM/ SP	<p>SILTY SAND and SAND, interbedded, damp, dense, silty sand predominates, sand is very fine and fine grained, occasional silt lenses, minor oxidation stain.</p> <p>Bottom of boring: 41.5 feet. Drilling Method: Hollow-stem auger. Sampling Method: 2-inch-O.D. SPT sampler driven using a 140 lb. hammer with a 30-inch drop.</p> <p>Groundwater not encountered during drilling. No fill encountered.</p>	S11		9,20,25 N=45	17.7	
50								
55								
60								
65								
70								
75								
80								

LEGEND: 2" O.D. Split-Spoon Sampler
 3" O.D. Dames & Moore Sampler
 3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 water level during drilling



Group Northwest, Inc.

Geotechnical Engineers, Geologists, &
Environmental Scientists

BORING LOG

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

JOB NO. <u> G-0260 </u>	DATE <u> 2/13/06 </u>	PLATE <u> A5 </u>
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BORING NO. B-3

Logged By: KJ

Date Drilled: 2/1/06

Surface Elev. 89 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
			Asphalt (2" thick) over broken concrete (3" to 4" thick).					
5		ML	Olive SILT, damp, medium dense, some minor very fine to fine sand, occasional brown clean sand lens (NATIVE SOIL).	I	S1	3,8,9 N=17	32.9	
		SM- SP	Olive brown SAND to SILTY SAND, damp, medium dense, sand is fine and medium grained, occasional thin gray silt lens.	I	S2	7,13,16 N=29	14.0	
10	80	ML/ SP	Olive gray to gray SILT and SAND, interbedded, damp, dense, trace oxidation stain, sand is very fine and fine grained.	I	S3	6,16,19 N=35	22.1	
		ML/ SP	As above, medium dense, weak hydrocarbon odor.	I	S4	6,10,18 N=28	28.1	
15		ML/ SP	As above, but predominantly sand, fine and medium grained, hydrocarbon odor.	I	S5	9,16,28 N=44	9.0	
		ML/ SP	As above, dense, frequent olive to olive gray silt layers, hydrocarbon odor.	I	S6	8,17,25 N=42	17.5	
20	70	ML/ SM	Olive to olive gray SILT and SILTY SAND, interbedded, damp to moist, dense, sand is fine and medium grained, some sand layers do not contain fines, light oxidation stain, no hydrocarbon odor.	I	S7	5,14,22 N=36	19.4	
		ML/ SM	As above, sand is fine grained, wet lens of clean sand 2" thick.	I	S8	10,16,22 N=38	30.2	
30	60	SM	Olive to olive brown SILTY SAND, damp, dense, trace oxidation stain, sand is very fine grained.	I	S9	6,13,19 N=32	26.6	
		ML/ SM	Olive brown and olive gray SILT and SILTY SAND, damp, dense, sand is fine grained, light oxidation stain, occasional clean grained sand lenses 1" thick.	I	S10	8,22,25 N=47	19.9	
40	50			I				

LEGEND: 2" O.D. Split-Spoon Sampler
 3" O.D. Dames & Moore Sampler
 3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 water level during drilling



Group Northwest, Inc.

Geotechnical Engineers, Geologists, &
Environmental Scientists

BORING LOG

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

JOB NO. G-0260 DATE 2/13/06 PLATE A6

BORING NO. B-3

Logged By: KJ

Date Drilled: 2/1/06

Surface Elev. 89 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
45		SM	Olive SILTY SAND, damp, very dense, sand is very fine and fine grained.	I	S11	11,26,32 N=58	19.2	
50			Bottom of boring: 41 feet. Drilling Method: Hollow-stem auger. Sampling Method: 2-inch-O.D. SPT sampler driven using a 140 lb. hammer with a 30-inch drop. Groundwater not encountered during drilling. No fill encountered.					
55								
60								
65								
70								
75								
80								

LEGEND:

I	2" O.D. Split-Spoon Sampler
II	3" O.D. Dames & Moore Sampler
III	3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 ▽ water level during drilling



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BORING LOG

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

JOB NO. <u> G-0260 </u>	DATE <u> 2/13/06 </u>	PLATE <u> A7 </u>
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BORING NO. B-4

Logged By: KJ

Date Drilled: 2/2/06

Surface Elev. 85 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
			Asphalt (3" to 4" thick), concrete slab exposed in borehole side.					
5	80	ML/ SM	Olive brown SILT and SILTY SAND, damp to moist, loose, occas. gravel in sample (DISTURBED NATIVE SOIL).	I	S1	1,2,1 N=3	26.8	
		ML/ SM	As above, damp, medium dense, mostly silty sand layers, sand is fine and medium grained, occasional clean sand lenses (NATIVE SOIL).	I	S2	2,5,8 N=13	14.1	
10		SM/ SP	Olive brown SILTY SAND and gray SAND, interbedded, damp to moist, medium dense, trace oxidation stain, sand is fine and medium grained, hydrocarbon odor.	I	S3	4,11,18 N=29	13.3	
		ML/ SP	Gray SILT and SAND, interbedded, damp, dense, sand is fine and medium grained, hydrocarbon odor.	I	S4	4,12,19 N=31	--	
15	70	ML	Gray SILT, damp dense, occasional fine sand laminae and thin lenses, weak hydrocarbon odor.	I	S5	5,10,18 N=28	29.6	
		ML/ SM	Gray SILT and SILTY SAND, interbedded, damp, dense, lesser sand layers, sand is fine grained, weak hydrocarbon odor.	I	S6	5,10,11 N=21	22.5	
20		ML	Gray SILT, damp, medium dense, occasional fine sand laminae and thin lenses, no hydrocarbon odor.	I	S7	5,10,15 N=25	24.6	
25	60	ML/ SM	Olive gray SANDY SILT and SILTY SAND, thinly interbedded, damp, medium dense, sand is very fine and fine grained, trace oxidation stain, rare clean sand lenses 2" thick, no hydrocarbon odor.	I	S8	8,12,17 N=29	22.3	
30		SM/ SP	Olive SILTY SAND and SAND, interbedded, damp, very dense, sand is very fine and fine grained.	I	S9	5,22,33 N=55	16.8	
35	50	SP	Olive gray SAND, dry to damp, dense, fine grained, massive.	I	S10	8,19,21 N=40	3.5	
40		SP	As above, but with some very fine grained sand.	I	S11	7,17,17 N=34	3.6	

LEGEND: 2" O.D. Split-Spoon Sampler
 3" O.D. Dames & Moore Sampler
 3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 water level during drilling



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BORING LOG

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JOB NO. G-0260 DATE 2/13/06 PLATE A8

BORING NO. B-4

Logged By: KJ

Date Drilled: 2/2/06

Surface Elev. 85 feet

Depth ft.	El. ft.	USCS Code	Description	Sample		Blow Counts per 6"	Water Content %	Comments
				Type	No.			
45			Bottom of boring: 39.5 feet. Drilling Method: Hollow-stem auger. Sampling Method: 2-inch-O.D. SPT sampler driven using a 140 lb. hammer with a 30-inch drop. Groundwater not encountered during drilling. No fill encountered.					
50								
55								
60								
65								
70								
75								
80								

LEGEND:

- 2" O.D. Split-Spoon Sampler
- 3" O.D. Dames & Moore Sampler
- 3.25" O.D. Dames & Moore Sampler

SPT = Standard Penetration Test
 water level during drilling



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BORING LOG

SEVENTH AVENUE SERVICE
701 S. JACKSON STREET
SEATTLE, WASHINGTON

JOB NO. <u> G-0260 </u>	DATE <u> 2/13/06 </u>	PLATE <u> A9 </u>
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**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 15, 2006

Keith Johnson
GEO Group Northwest, Inc.
13240 NE 20th Street, Suite 10
Bellevue, WA 98005

Re: Analytical Data for Project E-0260
Laboratory Reference No. 0602-029

Dear Keith:

Enclosed are the analytical results and associated quality control data for samples submitted on February 2, 2006.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 15, 2006
Samples Submitted: February 2, 2006
Laboratory Reference: 0602-029
Project: E-0260

Case Narrative

Samples were collected on February 1 and 2, 2006 and received by the laboratory on February 2, 2006. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Dx Analysis

The Diesel Fuel results reported for samples B-1 12.5' and B-4 14' are being impacted by the presence of Gasoline Range Hydrocarbons.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Volatiles EPA 8260B Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The value reported for 1,2,4-Trimethylbenzene for sample B-4 14' exceeds the quantitation range and is therefore an estimate.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

NWTPH-G/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

For sample B-4 14', the NWTPH-Gx result did not correlate with the NWTPH-Dx and EPA 8260B results. Therefore, sample B-4 14' was re-analyzed using the EPA 8260B VOA vial instead of the NWTPH-Gx VOA vial.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

NWTPH-Gx/BTEX

Date Extracted: 2-3-06
 Date Analyzed: 2-6-06

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: B-1 5' B-1 12.5'
 Lab ID: 02-029-01 02-029-02

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.020	17		0.24
Toluene	ND		0.047	7.2		1.2
Ethyl Benzene	ND		0.047	210	E	1.2
m,p-Xylene	0.061		0.047	700	E	1.2
o-Xylene	ND		0.047	160	E	1.2
TPH-Gas	16		4.7	12000		120
Surrogate Recovery: Fluorobenzene	74%			101%		

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

NWTPH-Gx/BTEX

Date Extracted: 2-3-06
 Date Analyzed: 2-3&6-06

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: **B-3 10'** **B-3 12.5'**
 Lab ID: 02-029-03 02-029-04

	Result	Flags	PQL	Result	Flags	PQL
Benzene	1.8		0.022			
Toluene	4.5		0.11			
Ethyl Benzene	12		1.1			
m,p-Xylene	27		1.1			
o-Xylene	8.4		0.11			
TPH-Gas	1300		110	ND		13
Surrogate Recovery: Fluorobenzene	89%			86%		

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

NWTPH-Gx/BTEX

Date Extracted: 2-3-06
 Date Analyzed: 2-3&14-06

Matrix: Soil
 Units: mg/kg (ppm)

Client ID: B-4 9' B-4 14'
 Lab ID: 02-029-06 02-029-07

	Result	Flags	PQL	Result	Flags	PQL
Benzene	0.38		0.021			
Toluene	0.21		0.10			
Ethyl Benzene	0.12		0.10			
m,p-Xylene	0.19		0.10			
o-Xylene	ND		0.10			
TPH-Gas	ND		10	8300		110
Surrogate Recovery:						
Fluorobenzene	79%			92%		

Date of Report: February 15, 2006
Samples Submitted: February 2, 2006
Laboratory Reference: 0602-029
Project: E-0260

**NWTPH-Gx/BTEX
METHOD BLANK QUALITY CONTROL**

Date Extracted: 2-3-06
Date Analyzed: 2-3-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0203S1

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0
Surrogate Recovery: Fluorobenzene	86%		

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

**NWTPH-Gx/BTEX
 DUPLICATE QUALITY CONTROL**

Date Extracted: 2-3-06

Date Analyzed: 2-3-06

Matrix: Soil

Units: mg/kg (ppm)

Lab ID:	02-020-02 Original	02-020-02 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
TPH-Gas	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	69%	68%		

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

**NWTPH-Gx/BTEX
 MS/MSD QUALITY CONTROL**

Date Extracted: 2-3-06

Date Analyzed: 2-3-06

Matrix: Soil

Units: mg/kg (ppm)

Spike Level (ppm): 2.50

Lab ID:	02-020-01 MS	Percent Recovery	02-020-01 MSD	Percent Recovery	RPD	Flags
Benzene	8.40	78	8.41	78	0	
Toluene	10.3	77	10.3	78	0	
Ethyl Benzene	2.51	94	2.46	92	2	
m,p-Xylene	2.69	93	2.65	91	2	
o-Xylene	2.55	94	2.51	92	2	

Surrogate Recovery:

Fluorobenzene 75% 76%

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

NWTPH-Dx

Date Extracted: 2-7-06
 Date Analyzed: 2-7-06

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	B-1 5'	B-1 12.5'	B-3 10'
Lab ID:	02-029-01	02-029-02	02-029-03
Diesel Range:	ND	560	ND
PQL:	28	31	30
Identification:	—	Diesel Fuel#2	—
Lube Oil Range:	ND	ND	ND
PQL:	57	62	60
Identification:	—	—	—
Surrogate Recovery			
o-Terphenyl:	84%	98%	112%
Flags:	Y	Y,Z	Y

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

NWTPH-Dx

Date Extracted: 2-7-06
 Date Analyzed: 2-7-06

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	B-3 12.5'	B-4 9'	B-4 14'
Lab ID:	02-029-04	02-029-06	02-029-07
Diesel Range:	ND	ND	280
PQL:	27	28	31
Identification:	---	---	Diesel Fuel#2
Lube Oil Range:	ND	ND	ND
PQL:	54	55	62
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	106%	112%	119%
Flags:	Y	Y	Y,Z

Date of Report: February 15, 2006
Samples Submitted: February 2, 2006
Laboratory Reference: 0602-029
Project: E-0260

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 2-7-06
Date Analyzed: 2-7-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0207S2

Diesel Range: **ND**

PQL: 25

Identification: —

Lube Oil Range: **ND**

PQL: 50

Identification: —

Surrogate Recovery

o-Terphenyl: 100%

Flags: Y

Date of Report: February 15, 2006
Samples Submitted: February 2, 2006
Laboratory Reference: 0602-029
Project: E-0260

**NWTPH-Dx
DUPLICATE QUALITY CONTROL**

Date Extracted: 2-7-06
Date Analyzed: 2-7-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 02-040-01 02-040-01 DUP

Diesel Range: 10500 11200
PQL: 1300 1300

RPD: 7

Surrogate Recovery

o-Terphenyl: --- ---

Flags: Y,S Y,S

Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 2-3-06
 Date Analyzed: 2-3-06
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 02-029-04
 Client ID: B-3 12.5'

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.057
Chloromethane	ND		0.057
Vinyl Chloride	ND		0.057
Bromomethane	ND		0.057
Chloroethane	ND		0.057
Trichlorofluoromethane	ND		0.057
1,1-Dichloroethene	ND		0.057
Acetone	ND		0.28
Iodomethane	ND		0.28
Carbon Disulfide	ND		0.057
Methylene Chloride	ND		0.28
(trans) 1,2-Dichloroethene	ND		0.057
Methyl t-Butyl Ether	ND		0.057
1,1-Dichloroethane	ND		0.057
Vinyl Acetate	ND		0.28
2,2-Dichloropropane	ND		0.057
(cis) 1,2-Dichloroethene	ND		0.057
2-Butanone	ND		0.28
Bromochloromethane	ND		0.057
Chloroform	ND		0.057
1,1,1-Trichloroethane	ND		0.057
Carbon Tetrachloride	ND		0.057
1,1-Dichloropropene	ND		0.057
Benzene	0.093		0.057
1,2-Dichloroethane	ND		0.057
Trichloroethene	ND		0.057
1,2-Dichloropropane	ND		0.057
Dibromomethane	ND		0.057
Bromodichloromethane	ND		0.057
2-Chloroethyl Vinyl Ether	ND		0.28
(cis) 1,3-Dichloropropene	ND		0.057
Methyl Isobutyl Ketone	ND		0.28
Toluene	0.39		0.057
(trans) 1,3-Dichloropropene	ND		0.057

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 02-029-04
 Client ID: B-3 12.5'

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.057
Tetrachloroethene	ND		0.057
1,3-Dichloropropane	ND		0.057
2-Hexanone	ND		0.28
Dibromochloromethane	ND		0.057
1,2-Dibromoethane	ND		0.057
Chlorobenzene	ND		0.057
1,1,1,2-Tetrachloroethane	ND		0.057
Ethylbenzene	0.19		0.057
m,p-Xylene	0.72		0.11
o-Xylene	0.36		0.057
Styrene	ND		0.057
Bromoform	ND		0.057
Isopropylbenzene	ND		0.057
Bromobenzene	ND		0.057
1,1,2,2-Tetrachloroethane	ND		0.057
1,2,3-Trichloropropane	ND		0.057
n-Propylbenzene	ND		0.057
2-Chlorotoluene	ND		0.057
4-Chlorotoluene	ND		0.057
1,3,5-Trimethylbenzene	0.091		0.057
tert-Butylbenzene	ND		0.057
1,2,4-Trimethylbenzene	0.31		0.057
sec-Butylbenzene	ND		0.057
1,3-Dichlorobenzene	ND		0.057
p-Isopropyltoluene	ND		0.057
1,4-Dichlorobenzene	ND		0.057
1,2-Dichlorobenzene	ND		0.057
n-Butylbenzene	ND		0.057
1,2-Dibromo-3-chloropropane	ND		0.28
1,2,4-Trichlorobenzene	ND		0.057
Hexachlorobutadiene	ND		0.28
Naphthalene	ND		0.057
1,2,3-Trichlorobenzene	ND		0.057
	Percent Recovery		Control Limits
Surrogate			
Dibromofluoromethane	98		71-126
Toluene, d8	99		73-130
4-Bromofluorobenzene	110		70-130

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

VOLATILES by EPA 8260B

Page 1 of 2

Date Extracted: 2-3-06
 Date Analyzed: 2-3-06
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 02-029-07
 Client ID: B-4 14'

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		1.1
Chloromethane	ND		1.1
Vinyl Chloride	ND		1.1
Bromomethane	ND		1.1
Chloroethane	ND		1.1
Trichlorofluoromethane	ND		1.1
1,1-Dichloroethene	ND		1.1
Acetone	ND		5.7
Iodomethane	ND		5.7
Carbon Disulfide	ND		1.1
Methylene Chloride	ND		5.7
(trans) 1,2-Dichloroethene	ND		1.1
Methyl t-Butyl Ether	ND		1.1
1,1-Dichloroethane	ND		1.1
Vinyl Acetate	ND		5.7
2,2-Dichloropropane	ND		1.1
(cis) 1,2-Dichloroethene	ND		1.1
2-Butanone	ND		5.7
Bromochloromethane	ND		1.1
Chloroform	ND		1.1
1,1,1-Trichloroethane	ND		1.1
Carbon Tetrachloride	ND		1.1
1,1-Dichloropropene	ND		1.1
Benzene	15		1.1
1,2-Dichloroethane	ND		1.1
Trichloroethene	ND		1.1
1,2-Dichloropropane	ND		1.1
Dibromomethane	ND		1.1
Bromodichloromethane	ND		1.1
2-Chloroethyl Vinyl Ether	ND		5.7
(cis) 1,3-Dichloropropene	ND		1.1
Methyl Isobutyl Ketone	ND		5.7
Toluene	35		1.1
(trans) 1,3-Dichloropropene	ND		1.1

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This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

VOLATILES by EPA 8260B
 Page 2 of 2

Lab ID: 02-029-07
 Client ID: B-4 14'

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		1.1
Tetrachloroethene	ND		1.1
1,3-Dichloropropane	ND		1.1
2-Hexanone	ND		5.7
Dibromochloromethane	ND		1.1
1,2-Dibromoethane	ND		1.1
Chlorobenzene	ND		1.1
1,1,1,2-Tetrachloroethane	ND		1.1
Ethylbenzene	100		1.1
m,p-Xylene	330		2.3
o-Xylene	110		1.1
Styrene	ND		1.1
Bromoform	ND		1.1
Isopropylbenzene	18		1.1
Bromobenzene	ND		1.1
1,1,2,2-Tetrachloroethane	ND		1.1
1,2,3-Trichloropropane	ND		1.1
n-Propylbenzene	69		1.1
2-Chlorotoluene	ND		1.1
4-Chlorotoluene	ND		1.1
1,3,5-Trimethylbenzene	120		1.1
tert-Butylbenzene	ND		1.1
1,2,4-Trimethylbenzene	290	E	1.1
sec-Butylbenzene	11		1.1
1,3-Dichlorobenzene	ND		1.1
p-Isopropyltoluene	5.5		1.1
1,4-Dichlorobenzene	ND		1.1
1,2-Dichlorobenzene	ND		1.1
n-Butylbenzene	31		1.1
1,2-Dibromo-3-chloropropane	ND		5.7
1,2,4-Trichlorobenzene	ND		1.1
Hexachlorobutadiene	ND		5.7
Naphthalene	33		1.1
1,2,3-Trichlorobenzene	ND		1.1

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	99	71-126
Toluene, d8	89	73-130
4-Bromofluorobenzene	104	70-130

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL

Page 1 of 2

Date Extracted: 2-3-06
 Date Analyzed: 2-3-06
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0203S1

Compound	Results	Flags	PQL
Dichlorodifluoromethane	ND		0.0010
Chloromethane	ND		0.0010
Vinyl Chloride	ND		0.0010
Bromomethane	ND		0.0010
Chloroethane	ND		0.0010
Trichlorofluoromethane	ND		0.0010
1,1-Dichloroethene	ND		0.0010
Acetone	ND		0.0050
Iodomethane	ND		0.0050
Carbon Disulfide	ND		0.0010
Methylene Chloride	ND		0.0050
(trans) 1,2-Dichloroethene	ND		0.0010
Methyl t-Butyl Ether	ND		0.0010
1,1-Dichloroethane	ND		0.0010
Vinyl Acetate	ND		0.0050
2,2-Dichloropropane	ND		0.0010
(cis) 1,2-Dichloroethene	ND		0.0010
2-Butanone	ND		0.0050
Bromochloromethane	ND		0.0010
Chloroform	ND		0.0010
1,1,1-Trichloroethane	ND		0.0010
Carbon Tetrachloride	ND		0.0010
1,1-Dichloropropene	ND		0.0010
Benzene	ND		0.0010
1,2-Dichloroethane	ND		0.0010
Trichloroethene	ND		0.0010
1,2-Dichloropropane	ND		0.0010
Dibromomethane	ND		0.0010
Bromodichloromethane	ND		0.0010
2-Chloroethyl Vinyl Ether	ND		0.0050
(cis) 1,3-Dichloropropene	ND		0.0010
Methyl Isobutyl Ketone	ND		0.0050
Toluene	ND		0.0010
(trans) 1,3-Dichloropropene	ND		0.0010

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 Project: E-0260

VOLATILES by EPA 8260B
METHOD BLANK QUALITY CONTROL
 Page 2 of 2

Lab ID: MB0203S1

Compound	Results	Flags	PQL
1,1,2-Trichloroethane	ND		0.0010
Tetrachloroethene	ND		0.0010
1,3-Dichloropropane	ND		0.0010
2-Hexanone	ND		0.0050
Dibromochloromethane	ND		0.0010
1,2-Dibromoethane	ND		0.0010
Chlorobenzene	ND		0.0010
1,1,1,2-Tetrachloroethane	ND		0.0010
Ethylbenzene	ND		0.0010
m,p-Xylene	ND		0.0020
o-Xylene	ND		0.0010
Styrene	ND		0.0010
Bromoform	ND		0.0010
Isopropylbenzene	ND		0.0010
Bromobenzene	ND		0.0010
1,1,2,2-Tetrachloroethane	ND		0.0010
1,2,3-Trichloropropane	ND		0.0010
n-Propylbenzene	ND		0.0010
2-Chlorotoluene	ND		0.0010
4-Chlorotoluene	ND		0.0010
1,3,5-Trimethylbenzene	ND		0.0010
tert-Butylbenzene	ND		0.0010
1,2,4-Trimethylbenzene	ND		0.0010
sec-Butylbenzene	ND		0.0010
1,3-Dichlorobenzene	ND		0.0010
p-Isopropyltoluene	ND		0.0010
1,4-Dichlorobenzene	ND		0.0010
1,2-Dichlorobenzene	ND		0.0010
n-Butylbenzene	ND		0.0010
1,2-Dibromo-3-chloropropane	ND		0.0050
1,2,4-Trichlorobenzene	ND		0.0010
Hexachlorobutadiene	ND		0.0050
Naphthalene	ND		0.0010
1,2,3-Trichlorobenzene	ND		0.0010

Surrogate	Percent Recovery	Control Limits
Dibromofluoromethane	91	71-126
Toluene, d8	101	73-130
4-Bromofluorobenzene	109	70-130

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Date of Report: February 15, 2006
 Samples Submitted: February 2, 2006
 Laboratory Reference: 0602-029
 Project: E-0260

**VOLATILES by EPA 8260B
 SB/SBD QUALITY CONTROL**

Date Extracted: 2-3-06
 Date Analyzed: 2-3-06

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: SB0203S1

Compound	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
1,1-Dichloroethene	0.0500	0.0492	98	0.0472	94	70-130	
Benzene	0.0500	0.0488	98	0.0464	93	70-130	
Trichloroethene	0.0500	0.0506	101	0.0474	95	70-130	
Toluene	0.0500	0.0503	101	0.0458	92	70-130	
Chlorobenzene	0.0500	0.0511	102	0.0482	96	70-130	

Compound	RPD		Flags
	RPD	Limit	
1,1-Dichloroethene	4	11	
Benzene	5	11	
Trichloroethene	7	13	
Toluene	9	11	
Chlorobenzene	6	12	

Date of Report: February 15, 2006
Samples Submitted: February 2, 2006
Laboratory Reference: 0602-029
Project: E-0260

% MOISTURE

Date Analyzed: 2-3-06

Client ID	Lab ID	% Moisture
B-1 5'	02-029-01	12
B-1 12.5'	02-029-02	19
B-3 10'	02-029-03	17
B-3 12.5'	02-029-04	8
B-4 9'	02-029-06	9
B-4 14'	02-029-07	19



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - G - Insufficient sample quantity for duplicate analysis.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a silica gel cleanup procedure.
 - Y - Sample extract treated with an acid/silica gel cleanup procedure.
 - Z - The Diesel Range result is being impacted by the presence of Gasoline Range Hydrocarbons.
- ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference



OnSite Environmental Inc.
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • Fax: (425) 885-4603

Chain of Custody

Turnaround Request (in working days) **Laboratory Number: 02-029**

Company: GEO Group Northwest Inc
 Project Number: E-0260
 Project Name: 701 So Jackson St, Seattle, WA
 Project Manager: Keith Johnson
 Sampled by: Keith Johnson

(Check One)

Same Day 1 Day

2 Day 3 Day

Standard (7 working days)

_____ (other)

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH	Hold	% Moisture	
1	B-1 5'	2/1/06	10:00	Soil	1 VOA 1 4oz		X	X															X
2	B-1 12.5'	2/1/06	10:20	Soil	"		X	X															X
3	B-3 10'	2/1/06	3:10p	Soil	"		X	X															X
4	B-3 12.5'	2/1/06	3:15p	Soil	2 VOA 1 4oz		X	X	X														X
5	B-4 7.5'	2/2/06	8:30	Soil	" "																	X	
6	B-4 9'	2/2/06	9:00	Soil	1 VOA 1 4oz		X	X															X
7	B-4 14'	2/2/06	9:40	Soil	2 VOA 1 4oz		X	X	X														X

Signature	Company	Date	Time	Comments/Special Instructions:
	GEO Group NW	2/2/06	12:00	
	OnSite Inc	2/2/06	12:00	
Relinquished by				
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

Reviewed by/Date _____ Reviewed by/Date _____ Chromatograms with final report