n sa Lington anna anna anna anna anna anna anna a		VCP# NW0420
GROUNDWATER		Sound Subaru LUST #442838
TECHNOLOGY •	, , , , , , , , , , , , , , , , , , ,	Groundwater Technology, Inc.
May 1, 1996	การสาวการ	19033 West Valley Highway, Suite D104, Kent. WA 98032 USA Tel: (206) 251-5441 Fax: (206) 251-8452 Project # 020600266
Ms. Sandy Rodal Pacific Northwest Bank	USH 4/7/00	DEPARTMENT OF ECOLOGY NWRO/TCP TANKS UNIT
11100 NE 8th Street Bellevue, Washington 98004	1.0	INTERIM CLEANUP REPORT

Re: Phase 2 Environmental Assessment Sound Subaru 240-250 Rainier Avenue South, Renton, Washington

DEPARTMENT OF ECOLOGY NWRO/TCP TANKS UNIT	
INTERIM CLEANUP REPORT SITE CHARACTERIZATION FINAL CLEANUP REPORT OTHER Phase 2	
AFFECTED MEDIA: SOIL OTHER GW INSPECTOR (INIT.) 20 DATE 4-7-00	Ø

Dear Ms. Rodal:

Attached for your use are the results of the Phase 2 environmental assessment prepared for the referenced site. Activities performed included the installation of 8 soil borings, the collection of soil and groundwater samples, field screening of all soil samples collected, and the laboratory analysis of 8 soil samples and 5 groundwater samples. The attached report summarizes the activities performed and the laboratory analysis related to Washington Department of Ecology (WDOE) Model Toxics Control Act (MTCA) Method A Compliance Cleanup Levels (CCL(a)s).

Two soil borings were installed in the former vicinity of the three 10,000 gallon gasoline underground storage tanks (USTs). Field screening indicated organic vapor above background in several of the soil samples. Gasoline range volatile organic compounds (VOCs) were detected in soil and groundwater. VOC concentrations in groundwater exceeded the CCL(a)s. These tanks may have been on property reported to be leased from the City of Renton.

Two soil borings were installed in the former vicinity of the pump islands on the south side of the site. Field screening indicated organic vapor above background in all but one of the soil samples. Gasoline range volatile organic compounds (VOCs) were detected in soil and groundwater. VOC concentrations in soil and groundwater exceeded the CCL(a)s. The pump islands are on property reported to be leased from the City of Renton.

Four soil borings were advanced in the area of the former Texaco station, near the existing oil water separator, near the former auto repair/transmission shop, and near the drainage area at the northeast corner of the site. Field screening indicated organic vapor results generally in the range expected for background. No VOCs were detected in the samples submitted. - - - -

In summary, gasoline range VOCs were detected above CCL(a)s in groundwater in the former area of the 10,000 gallon USTs and in the soil and groundwater in the area of the associated pump islands. In accordance with WDOE regulations (WAC 173-340-450), the property owners are required to report a confirmed release from a UST to the WDOE within 24 hours of discovery. Reporting is required by other parties with knowledge within 72 hours. As such, we recommend that the City of Renton be made aware of the release and the reporting requirement, and the release reported to the WDOE Northwest Regional Office (206-649-7000). Submittal of a follow-up report is required within 20 days. This Phase 2 assessment report will likely meet the requirements of a follow-up report. At 90 days, a Site Characterization Report is due. This report also likely meets that requirement.

Ms. Sandy Rodal Pacific Northwest Bank Page 2 May 1, 1996 $\dot{\gamma}$

Some form of corrective action will likely be required at the site based on VOC concentrations exceeding MTCA CCL(a)s in soil and groundwater and the site location in or bordering the City of Renton Aquifer Protection Zone. Corrective action may include installation of monitoring wells, evaluation of groundwater flow direction and likely receptors, and potential installation of a remediation system.

Groundwater Technology recommends that the results of the assessment be reviewed with appropriate legal counsel to limit potential liability should the decision be made to pursue purchase of the property leased by the City of Renton.

Sincerely, Groundwater Technology, Inc.

Justin E. Peach, PG, PE Senior Engineer

copy: Dale Walker - Sound Subaru w/ attachment







 ENVIRONMENTAL
 Figure 1

 Figure 1
 Mcnit/pring Wells Locations and

 Date:
 August, 1996

 EPI Project No: 08219.0
 Flow Direction

Alamie Mary



Groundwater Technology, Inc.

May 1, 1996

19033 West Valley Highway, Suite D104, Kent, WA 98032 USA Tel: (206) 251-5441 Fax: (206) 251-8452 Project # 020600266

Ms. Sandy Rodal Pacific Northwest Bank 11100 NE 8th Street Bellevue, Washington 98004

Re: Sound Subaru Property 240-250 Rainier Avenue South, Renton, Washington

Dear Ms. Rodal:

This letter-report presents the results of the Phase II environmental site assessment conducted on April 17 1996 at the Sound Subaru property located at 240-250 Rainier Avenue S., in Renton, Washington (Figure 1). The work presented in this report was conducted on behalf of Pacific Northwest Bank as authorized by the agreement dated March 29, 1996 between Groundwater Technology, Inc. and Pacific Northwest Bank. The purpose of the environmental site assessment is to identify potential petroleum impacts to soil or groundwater in the areas most likely to have been affected by past and present operations.

Site Description

The subject property is currently a used car lot operated by Sound Subaru of Renton, Washington. The property is bordered on the north by a dead-end driveway and a Wendy's Restaurant; the south by South Third Street; the west by Rainier Avenue South; and the east by a commercial building and parking area. The northeast corner of the property is bordered by an undeveloped area of bushes which appears to be a potential drain for surface water runoff. The site vicinity is light commercial located in the southeast quarter of the northwest quarter, Township 23 North, Range 5 East. Renton Airport is approximately 0.5 miles to the north and Lake Washington is approximately one mile to the northeast.

The site is fully covered by asphalt with minor amounts of concrete at the former location of a gasoline service island area and at the auto washing areas. There is one building on the site used as a sales office and auto detailing shop. According to the Environmental Associates, Inc. Phase I Site Assessment Report, there have been five buildings on various portions of the site (Figure 2, Site Plan). Former uses of these buildings include: auto repair shop, pet shop, commercial building, transmission shop, private residences, and two service stations. The auto repair shop and transmission shop were housed in a former building north of the current sales building. The private residences were located immediately north of the current building. One former service station operated by Texaco, Inc. from 1918 to 1953 was located west of the current building. According to Environmental Associates, Inc. there was one service island and one underground storage tank (UST). No current footprint of the former station remains on the site. A second

service station was located southeast of the current building. The station building is located off the subject site. Two service islands are on the portion of the site leased from the City of Renton and are visible. Three 10,000-gallon USTs were used for the operation of the second service station. They were located south-southwest of the sales office. The locations of the Texaco service station, the 10,000-gallon USTs and the second service station are approximate.

Scope of Work

The following scope of work was completed as part of the Phase II environmental site assessment at the Sound Subaru property:

- Prepare a site-specific health and safety plan;
- Contact the City of Renton and public utilities locating service to identify public underground utilities;
- Conduct a site walk to identify potential environmentally sensitive areas and sampling locations;
- Contact a private utility locator to identify on-site private underground utilities;
- Install and sample 8 drive-points to approximately four to fifteen feet below grade (bg);
- Collect and analyze 8 soil and 5 groundwater samples; and,
- Prepare a report of findings and recommendations.

Utility Clearance

Prior to April 17, 1996, One Call Underground Utility Service was contacted to provide markings of all underground utilities located on public land adjacent to the subject property. On April 17, 1996, Locating, Inc. of Issaquah, Washington performed an on-site survey for underground utilities, especially in the proposed sampling locations. In addition, Locating Inc. surveyed the area of the 10,000-gallon USTs with a metal detector. No indications of buried metal existed in the former UST area. The City of Renton Public Works Department was contacted prior to placement of the drilling locations for information on underground utilities, former road layout, and former gasoline service station placement. The City of Renton did not have historical information that would augment the accuracy of the project.

Drive-Point Sampling And Analysis

On April 17, 1996, a drive-point sampling investigation was conducted by Cascade Drilling, Inc. (Cascade) of Woodinville, Washington under the direction of a Groundwater Technology geologist. Eight sampling locations, designated SB-1 through SB-8, were advanced to approximately 15 feet bg, or until the sampling probe could not be advanced due to rock or concrete. Soil and groundwater samples were collected using Cascade's Geoprobe™ drive-point sampling system. The drive-point sampling system consists of a truck-mounted, 2-inch outside diameter drive-point that is advanced by hydraulic ram. Soil samples were collected at five-foot intervals (when possible) with a 1-inch diameter disposable sampling spoon driven by the hydraulic ram. Each soil sample was screened in the field for volatile organic compounds using a



Phase I Environmental Site Assessment	3
Sound Subaru Property, Renton, Washington	May 1, 1996

portable photoionization detector (PID). A log of the drilling activities, soils encountered (VOC), and PID headspace readings was kept by the Groundwater Technology geologist (Appendix A, Drill Logs).

When soil saturated with groundwater was encountered, a groundwater sample was collected. Groundwater samples were collected by advancing covered well screen four feet into the water-bearing zone. Dedicated plastic tubing was placed in the temporary well at the bottom of the screened casing. The water-bearing zone was exposed by removing the opening the screen, allowing groundwater to pass into the well. Groundwater was collected for sampling with a peristaltic pump.

A total of eight soil samples and five groundwater samples were collected, preserved as required, and transported under Chain-of-Custody to North Creek Analytical in Bothell, Washington for laboratory analysis. Each sample was analyzed by one or more of the following:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020
- Total petroleum hydrocarbons-as-gasoline (TPH-g) by Washington Method WTPH-G
- Total petroleum hydrocarbons-as-diesel (TPH-d) by Washington Method WTPH-D
- Hydrocarbon identification (HCID) by Washington Method WTPH-HCID
- Volatile organic compounds (VOC) by EPA Method 8240.

Samples were analyzed by particular methods based on historical information and field observations. Tables 1 and 2 summarize the analytical results for soil and groundwater samples, respectively. The complete laboratory report is included in Appendix B.

Results of Drive-Point Sampling And Analysis

The lithology encountered during the subsurface assessment consisted of fill material, generally a brown to gray silty sand with varying percentages of gravel and clay. Several of the borings contained pieces of brick, concrete, and rocks. Groundwater was encountered in six of the borings at 11 to 12 feet bg. Two of the borings did not reach water due to impassible rock and concrete. The following section describes the purpose and findings of each soil boring.

<u>SB-1 and SB-2</u>: Soil borings SB-1 and SB-2 were placed in the vicinity of the former 10,000-gallon USTs. Each was advanced to 15 feet bg and groundwater was encountered at 12 feet bg. The soil in boring SB-1 from 10 to 10.5 feet bg appeared to be stained from petroleum impacts and had a moderate petroleum odor. However, the sample did not contain BTEX or TPH-g concentrations exceeding the Washington State Model Toxics Control Act (MTCA) Method A Compliance Cleanup Levels [CCL(a)s], which are the action levels that drive most petroleum cleanups. This sample was further analyzed by HCID to determine if the odor may have been due to diesel or oil impacts. The analytical results indicated that diesel and oilrange petroleum hydrocarbon concentrations exceeding the laboratory method reporting limits (MRLs) were not present in the sample.



The soil sample collected at 10 feet bg in boring SB-2 had a slight petroleum odor. The sample was analyzed for BTEX and TPH-g concentrations. The results indicated that the concentrations were below the CCL(a)s.

A groundwater sample was collected from both soil borings. The groundwater sample collected from boring SB-1 had a petroleum sheen on the water. The sample collected from SB-2 did not have a sheen. The groundwater sample from SB-1 was analyzed for BTEX and TPH-g. The following analyte concentrations exceed the CCL(a)s: benzene [13 micrograms per liter (ug/L], ethylbenzene (42 ug/L), total xylenes (140 ug/L), and TPH-g (2,100 ug/L). The groundwater sample collected from boring SB-2 was not analyzed due to its proximity to SB-1.

<u>SB-3 and SB-4</u>: Soil borings SB-3 and SB-4 were advanced in the former service island area. The purpose of the soil borings was to assess the soil and groundwater conditions at opposite ends of each island. It was assumed that the product piping was installed between the two islands, as is typical for most service island construction. Soil boring SB-3 was advanced to 15 feet bg and groundwater was encountered at 11 feet bg. Due to rock and concrete rubble at approximately 4 feet bg, a shallow soil sample was not collected. However, a strong odor was noted at approximately three feet bg, so a second soil boring was advanced adjacent to SB-3 to collect a sample of the impacted soil. The soil sample was analyzed for BTEX, TPH-g, and HCID. Benzene [4.6 milligrams per kilogram (mg/Kg)], total xylenes (100 mg/Kg), and TPH-g (1,200 mg/Kg) concentrations exceed the CCL(a)s for soil. The groundwater sample was analyzed for BTEX and TPH-g. The concentrations for total xylenes (54 ug/L) exceed the CCL(a).

Soil boring SB-4 was advanced to approximately 4 feet bg and was stopped due to rock and concrete rubble. A soil sample was collected at the extent of the boring. There was a strong odor that was not typical of gasoline impacts, with a sheen on the soil and on the sampler. The soil sample was analyzed for TPH-g and VOC (which includes the BTEX compounds). The detected concentrations exceeding the CCL(a)s include: benzene (2.3 mg/Kg), ethylbenzene (31 mg/Kg), total xylenes (48 mg/Kg), and TPH-g (2,600 mg/Kg). No other VOCs were detected above the MRLs. The complete list of tested VOC analytes is included in the laboratory's report in Appendix B.

<u>SB-5:</u> Soil boring SB-5 was advanced in the approximate area of the former Texaco service station. The boring was advanced to 15 feet bg and groundwater was encountered at 11 feet bg. The soil encountered in boring SB-5 was different from that encountered in the other borings, and not typical of soils found in the Puget Sound region. It was a light tan, medium-grain sand. The driller suggested that it may be fly ash related to coal burning operations, but that has not been verified. No significant impacts were observed while drilling. The soil and groundwater samples submitted for analysis did not contain BTEX or TPH-g concentrations exceeding the CCL(a)s.

<u>SB-6:</u> Soil boring SB-6 was advanced in the vicinity of the former residences, adjacent to the current auto washing area and oil/water separator. The boring was advanced to 15 feet bg and water was encountered at 11 feet bg. No impacts were observed during drilling. The soil sample collected at 5 feet bg and the groundwater sample were submitted for analysis to detect surface spills in the area. No concentrations of



BTEX or TPH-g in soil or groundwater exceeding the MRLs were detected. The groundwater sample was further analyzed for TPH-d. No concentration exceeding the MRL was detected.

<u>SB-7</u>: Soil boring SB-7 was advanced to approximately 12 feet bg in the vicinity of the former transmission shop and auto repair facility. The purpose of the boring was to determine if wastes from these operations may have been disposed of behind the former building. The soil was extremely rocky resulting in no sample recovery at five feet bg and a broken sampler at 12 feet bg. A soil sample was collected at eight feet bg, but no groundwater was collected. No impacts were observed during drilling and the soil sample did not contain BTEX or TPH-g concentrations exceeding the CCL(a)s.

<u>SB-8:</u> Soil boring SB-8 was drilled in the northeast portion of the property, nearest the undeveloped area and potential water drainage ditch. This boring was advanced to determine if dumping may have occurred in the back portion of the property. One soil sample was collected at 7 feet bg. Groundwater was encountered at 11.5 feet bg and sampled. No impacts were observed during drilling. Concentrations of TPH-d were at 60 mg/Kg, which does not exceed the CCL(a). The groundwater sample did not contain concentrations of BTEX or TPH-g in excess of the MRLs.

Conclusion

Eight soil borings were advanced on the Sound Subaru property in the areas determined to have to highest potential for environmental impacts. One soil boring from each soil boring was submitted for laboratory analysis of the compounds most likely to be present. Six groundwater samples were collected from the soil borings, five of which were submitted for laboratory analysis. Two soil borings did not reach groundwater due to refusal from rock and concrete rubble.

The main soil type underlying the site is a brown to gray silty-sand. Due to the high degree of variation in the soil types and the presence of brick, concrete and other debris in the subsurface, it appears that the soil is fill material and not native soil. Groundwater is approximately 11 to 12 feet bg across the site. Based on the data collected, groundwater flow direction and gradient can not be determined.

Gasoline-range petroleum impacts to soil, including benzene, with concentrations exceeding the MTCA CCL(a)s, were detected in soil boring SB-3 and SB-4 both located in the area of the former gasoline station service islands. The highest soil concentration detected was 2,600 mg/Kg of TPH-g, collected at three feet bg in SB-4. It should be noted that a groundwater sample was not collected in this area. Based on the laboratory data, it does not appear that diesel or oil-range petroleum hydrocarbons, or VOCs (beyond BTEX) are found in the subsurface.

Five groundwater samples were analyzed for BTEX and TPH-g. The sample from SB-6 was further analyzed for TPH-d. The samples collected from SB-1, in the vicinity of the former 10,000-gallon USTs, and from SB-3, collected in the vicinity of the former gasoline station service islands, contained gasoline-range hydrocarbons concentrations exceeding the CCL(a)s. The highest concentration was detected in SB-1 (2,100 ug/L of TPH-g). Benzene was detected in concentrations exceeding the CCL(a) in SB-1 with



13 ug/L. The benzene concentration in SB-3 was detected at 4.3 ug/L, which is just below the CCL(a) of 5 ug/L. It is possible that the benzene concentrations in the vicinity of the service islands exceeds the CCL(a) at times, especially in the vicinity of soil boring SB-4.

Limitations

This report has been prepared for the exclusive use of Pacific Northwest Bank for specific application to this site. Our work for this project was conducted in a manner consistent with the level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area, and in accordance with the terms and conditions set forth in our proposal dated March 29, 1996. No other warranty, expressed or implied, is made. If new information is developed in future site work which may include excavations, borings studies, etc., Groundwater Technology, Inc., may reevaluate the conclusions of this report.

We appreciate the opportunity to serve Pacific Northwest Bank on this project. If you have any questions or comments regarding this report, please feel free to contact us.

Sincerely, Groundwater Technology, Inc.

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Steven A. Hartman Staff Geologist

/Justin E. Peach, PE, PG Project Manager

Attachments



FIGURES

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GROUNDWATER TECHNOLOGY •



TABLES

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GROUNDWATER TECHNOLOGY •

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Table 1 Sound Subaru - Renton, WA Table of Screening and Analytical Results - Soil Results in milligrams per kilogram (mg/Kg)										
Sample I.D.	Depth (feet)	PID (ppm)	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d	HCID	voc
SB1-A	5	8								'
SB1-B	10		0,10	<0.050	0.15	3.4	75		N/N/N	
SB1-C	15									
SB2-A	5									
SB2-B	10	32	<0.050	0.10	0.24	0.37	74			
SB3-A	8	8								
SB3-B	3	440	4.6	25	17	100	1200		P/N/N	
SB4-A	3	380	2.3 ¹	<0.40 ¹	31 ¹	48 ¹	2600			ND ²
SB5-A	5	10		·						
SB5-B	10	12	<0.050	<0.050	<0.050	<0.10	<1.0			
SB6-A	5	6	<0.050	<0.050	<0.050	<0.10	<1.0	·		
SB6-B	10	5								
SB7-A	7	10	<0.050	<0.050	<0.050	<0.10	2.1			
SB8-A	5	5						60		
SB8-B	10	5					 ·			
	МТСА	CCL(a)	0.5	40.0	20.0	20.0	100.0	200.0		

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	Table 2 Sound Subaru - Renton, WA Table of Analytical Results - Water Results in micrograms per liter (ug/L)											
Sample I.D.	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d						
SB-1	13	1.4	42	140	2100							
SB-3	4.3	_ 8.1	8.6	- 54	560							
SB-5	1.5	2.2	<0.50	2.9	66							
SB-6	<0.50	<0.50	<0.50	<1.0	<50	<0.25						
SB-8	<0.50	<0.50	<0.50	<1.0	<50							
MTCA CCL(a)	5.0	40.0	30.0	20.0	1000.0	200.0						

Notes:

Benzene, toluene, ethylbenzene, and total xylenes are analyzed by EPA Method 8020. TPH-g = Total petroleum hydrocarbons-as-gasoline by Washington Method WTPH-G. TPH-d = Total petroleum hydrocarbons-as-diesel by Washington Method WTPH-D. MTCA CCL(a) = Model Toxics Control Act Method A Compliance Cleanup Level.



Notes:

PID = Photoionization detector readings in parts per million (ppm)

Benzene, toluene, ethylbenzene, and total xylenes are analyzed by EPA Method 8020.

TPH-g = Total petroleum hydrocarbons-as-gasoline by Washington Method WTPH-G.

TPH-d = Total petroleum hydrocarbons-as-diesel by Washington Method WTPH-D.

HCID = Hydrocarbon Identification by Washington Method WTPH-HCID (N = Not Present, P = Present).

VOC = Volatile organic compounds analyzed by EPA Method 8240.

¹ = Analyzed by EPA Method 8240 instead of EPA Method 8020.

² = No analytes detected except benzene, ethylbenzene, and total xylenes (listed). See laboratory report for full list of analyzed compounds.

MTCA CCL(a) = Model Toxics Control Act Method A Compliance Cleanup Level.



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APPENDIX A DRILL LOGS

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GROUNDWATER

GROUNDWATER

Drilling Log



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Project <u>Sound Subaru/R</u> Location <u>240 - 250 Rai</u>	Renton nier Avenue S., Re	Owner <u>Sound Subaru</u> enton, WA Proj. No. <u>020600266</u>	See Site Map For Boring Location
Surface Elev Top of Casing Screen: Dia Casing: Dia Fill Material Drill Co. <u>Cascade Drilling</u> Driller <u>Lvnn Goble</u>			
Checked By Justin Peac	chLic	cense No.	
Depth (ft.) PID (ppm) Sample ID	Graphic Log USCS Class.	Descripti (Color, Texture, S Trace < 10%, Little 10% to 20%, Some	Structure)
2- - 0- - 2- - 2- - 4- - 8 A		2" of asphalt. Brown and gray SILTY-SAND, some clay lay (dry, no odor)	vers, trace gravel <1" (Fill)
- 6 - - 8 - 	L	(grades morst)	
- 10 - 5 в 12 - - 14 -		(PID collected in soil immediately above (grades moderate petroleum odor, gray Grav. meloum-coarse grain SAUD, and peals (wet, no poor) - Encountered water at 15 test	staining for 6")
	SP	End of plinencie.	
- 18 - 20		, see the <u>transform</u> of grap being on the theory of the second	.e. tri speen.
- 22		-	
- 24 -	-: 		Page: Lof L

GROUNDWATER TECHNOLOGY

Drilling Log

Project . Location	Sound 5 240 -	Subaru/Re 250 Rain	enton ier Avenue	:_ <u>S.</u> _R	Owner <u>Sound Subaru</u> enton, WA Proj. No. <u>020600266</u>	See Site Map For Boring Location
Surface Top of C Screen: Casing: E Fill Mater Drill Co. 2	Elev Casing _ Dia Dia Dia Cascad	e Drilling	Analyzed sample is shown in black.			
Checked	By <u>Ju</u>	stin Peaci	<u>ז</u>	L	Hartman Date <u>04/17/96</u> Permit # icense No	
Depth (ft.)	(mqq)	Sample ID	Graphic Log	USCS Class.	Descripti (Color, Texture, S Trace < 10%, Little 10% to 20%, Some	Structure)
2 -						
- 0 -		SB2		A SD/	2" of asphalt. Brown SILTY-SAND, some clay layers, trace (dry, no odor)	e gravel <1/2" dia. (Fill)
- 4	NR	A			(not enough recovery for PID sample -	no odor or staining}
- 8 - 	32	B		SW	(grades gray, moist)	
		•			(grades slight petroleum odor)	
- 12 - - 14 -					Encountered water at 12 teet	
 - 16					End of poren lie.	
- 18 -			1			
- 20 -			1 ; 1		De Anteng water ogen av teore state en er egy.	· •
- 22 -				.;		
- 24 -					• • • • • •	

منعوم مربيه معادمه



Drilling Log

Soil Boring SB-3

Project <u>Sound Subaru/Rem</u> Location <u>240 - 250 Rainier</u> Surface Elev T Top of Casing W Screen: Dia L Casing: Dia L Casing: Dia L Fill Material Driller <u>Lvnn Goble</u> L Checked By <u>Justin Peach</u>			
-2 -2 -3 -2 -3 -440 -3 -3 -3 -3 -3 -3 -3 -3		4" of concrete. Dark gray SILTY-SAND (Fill) (dry, no odor) (brick chips) (Note: A second Geoprobe hole was d SB3-B at 3 feet. Poor recovery preve during the first boring installation.) (Very tough drilling, possible rock or co <i>Encountered water at 11 feet</i> End of borehole. Collected water sample from 11–15 foot inter	rilled to collect sample inted sample collection oncrete rubble)

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Drilling Log



Project 🕹	Sound S	Subaru/R	enton		Owner <u>Sound Subaru</u>	See Site Map For Boring Location
Location	<u>240 -</u>	250 Kali	<u>Tetel Liel</u>	<u>; 5., r</u>	Renton. WA Proj. No. <u>020600266</u> Oth <u>4 ft.</u> Diameter <u>1 in.</u>	
			COMMENTS:			
	-				itial Static Type/Size	Analyzed sample is shown in black.
					Type	
Fill Mater	ial				Rig/Core <u>Geoprobe</u>	
Drill Co. 🤌	<u>Cascad</u>	e Drilling	Me	thod	Rig/Core <u>Geoprobe</u>	
Driller Ly	inn Gob	le	. Log By 🚊	Stevel	<u>n Hartman</u> Date <u>04/17/96</u> Permit #	· · ·
Checked	By <u>Jus</u>		<u>h</u>			
<u>-</u>	- 2	Sample ID	ie –	ass	Descripti	nn
Depth (ft.)	PID (mpg)	ple	Graphic Log	10		
		Sar	່ອ້	ISCS	(Color, Texture, S) Trace < 10%, Little 10% to 20%, Some	
2						
F-2-7						
- 0 -		SB4		ASD/	4" of concrete.	
\mathbf{F}					Dark brown SILTY-SAND, trace gravel (Fill)	
- 2 -				SW	(dry.no odor)	
		 			(grades strong odor, visible sheen on s	oil and sampler)
- 4 -					End of borehole due to refusal.	
	380	A				
6 -		-				
- 8						
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- 10 -						
- 10 -	1	_				
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- 12	: - 1					
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- 16 -			ii.			
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- 22 -	-					
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	-				•	· · ·
- 24 -	•		•			

GROUNDWATER

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Drilling Log

					Owner <u>Sound Subaru</u>	See Site Map For Boring Location
					Rentan, WA Proj. No. <u>020600266</u> oth <u>15 ft.</u> Diameter <u>1 in.</u>	·
			COMMENTS:			
Top of Ca						
					Type/Size	Analyzed sample is shown in black.
					Type	
					Rig/Core <u>Geodrobe</u>]
			/ Met			•
Driller <u>LV</u>	<u>nn 600</u>	ole Ne	_ Log By <u>_51</u>	eve	n Hartman Date <u>04/17/96</u> Permit #	
Checked	By <u>Ju</u>	stin Pead	cn	l	icense No	
Depth (ft.)	PID (mqq)	ample ID	Graphic Log	s Class.	Descripti	
<u>ں</u>		Sar	້ຍັ	USCS	(Color, Texture, S) Trace < 10%, Little 10% to 20%, Some	
				<u> </u>		20% to 30%, And 30% to 30%
2-						
-0-		SB5	aaaaaa	AsD/	2" of asphalt.	
					: Light tan medium-grain SAND (Fill)	
					(dry, no odor)	
- 2 -						
	10	A				
- 6 -						
				SP		
- 8 -				or		
10						
- 10 -	12	В				
					🔽 (grades dark gray)	
- 12 -		1			Encountered water at II feet	
'						
- 14 -						
					End of borehole due to refusal.	
- 16 -						
		[]				
- 18 -		1				
F -					i	
- 20					Connected water sample from M-15 foot inter	val
		.]		l	. Surected water admitted to a minit toot inter	¥ G1.
		4		•		
- 22 -			•		additional an alter types tent with soils	commonly found in
		:			 Some an elisitient consistent with soils according to the Chief suggested it may 	y be fly ash.
		·: •				
- 24 -		1] _i		•		

GROUNDWATER TECHNOLOGY

Drilling Log

Project.	<u> 240 -</u>	250 Rai	See Site Map For Boring Location				
Surface Elev. Total Hole Depth 15 ft. Top of Casing Water Level Initial 11 ft. Screen: Dia Length Casing: Dia Length						al <u># ft.</u> Static Type/Size Type	
Drill Co. <u>1</u> Driller <u>1</u>	Cascad vnn Gob	le Drilling Sle	Log	Meth By <u>_Ste</u>	od <u>.</u> /en l	Rig/Core <u>Geodrobe</u> Geoprobe <u>Hartman</u> Date <u>04/17/96</u> Permit # cense No	
Depth (ft.)	(mqq) DIG	Sample ID	<u> </u>	Graphic Log		Descripti (Color, Texture, S Trace < 10%, Little 10% to 20%, Some	Structure)
2 - - 0 - - 2 - - 4 - - 6 -	6	SB5			19	2" of asphalt. Dark brown fine-grain SILTY-SAND (Fill) (moist, no odor)	
- 8 - - 10 - - 12 - - 12 - - 14 - - 16 - - 18 -	5	B			₩	(grades to medium-grain sand, little silt Encountered water at 11 feet End of borehole.	
- 20 - 22 - 22 - 24			11. Sec. 10.			Collected water sample from 11-15 foot inter	val.

Drilling Log

GROUNDWATER

						Owner <u>Sound Subaru</u> Penton, WA Proj. No. <u>020600266</u>	See Site Map For Boring Location
Surface Elev Total Hole Depth <u>12 ft.</u> Diameter <u>1 in.</u> Top of Casing Water Level Initial Static							COMMENTS:
Screen: Dia Length Type/Size Casing: Dia Length Type						Type/Size	Analyzed sample is shown in black.
Fill Mater	ial				-	Geoprobe	
Driller Ly	ınn Gob	le	Log	By <u>S</u>	tevei	n Hartman Date Permit #	
Checked	By <u>Jus</u>		<u>h</u>		L	icense No	{
Depth (ft.)	PID (mqq)	Sample ID		Graphic Log	uscs Clas	Descripti (Color, Texture, S Trace < 10%, Little 10% to 20%, Some	Structure)
2 -							
- 0 -		SB7			Asp	2" of asphalt. Brown medium to coarse-grain SILTY-SANE) (Fill)
- 2 -						(dry, no odor)	
- 4 -							
- 6 -					SW	(Rocks at 5 feet. No sample recovery)	
- 8	10	A					
- 10 -		-					
- 12 -						(Refusal at 12 feet. Sampler broke off	in hole.)
- 14 -						- End of borehole.	
- 16 -		-					
- 20 -							
- 22 -							
- 24 -	<u> </u>						

GROUNDWATER

Drilling Log

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Location <u>240 - 250 Rainier</u> Surface Elev T Top of Casing W Screen: Dia Lu Casing: Dia Lu Fill Material Drill Co. <u>Cascade Drilling</u> Driller <u>Lynn Goble</u> L	Avenue S. I otal Hole Dep ater Level In ength ength Method og By <u>Steve</u>	Owner Sound Subaru Renton. WA Proj. No. 020600266 Dith 15 ft. Diameter 1 in. itial 11.5 ft. Static Type/Size	Analyzed sample is shown in black.
Depth (ft.) (ppm) (ppm) Sample ID	Graphic Log USCS Class.	Descript (Color, Texture, Trace < 10%, Little 10% to 20%, Some	Structure)
2 - - 0 - - 2 - - 4 - - 4 - - 5 A - 6 - - 8 - - 10 - 5 B - 12 - - 14 - - 16 - - 18 - - 20 - - 22 - - 22 - - 24 -	Asp/	 2" of asphalt. Brown to light tan SILTY-SAND, little grave (dry, no odor) <i>Encountered water at 11.5 feet</i> End of borehole. Collected water sample from 11–15 foot interval 	

APPENDIX B LABORATORY ANALYTICAL REPORTS





Groundwater Technology Inc		Sound Subaru			
and an and a real money mon	Project Name:	Sound Subaru			
19033 W. Valley HWY, D-104	Client Project :	#020600266			
Kent, WA 98032	-		Received:	Apr 18,	1996
Attention: Steve Hartman	NCA Project #:	B604312	Reported:	Apr 25	1996

PROJECT SUMMARY PAGE

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled	
B604312-01	SB1-B	Soil	4/17/96	
B604312-02	SB2-B	Soil	4/17/96	
B604312-03	SB3-B	Soil	4/17/96	
B604312-04	SB4-A	Soil	4/17/96	
B604312-05	SB5-B	Soil	4/17/96	
B604312-06	SB6-A	Soil	4/17/96	
B604312-07	SB7-A	Soil	4/17/96	
B604312-08	SB8-A	Soil	4/17/96	
B604312-09	SB-1	Water	4/17/96	
B604312-10	SB-3	Water	4/17/96	
B604312-11	SB-5	Water	4/17/96	 Ň

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

NORTH CREEK ANALYTICAL Inc.

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Matthew T. Essig Project Manager

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Groundwater Technology Inc.					
g Groundwater rechnology thc.	Project Name:	Sound Subaru			
19033 W. Valley HWY, D-104	Client Project :	#020600266			
Kent, WA 98032	•		Received:	Apr 18,	1996
Attention: Steve Hartman	NCA Project #:	B604312	Reported:	Apr 25	1000
				an a	

PROJECT SUMMARY PAGE

Laboratory Sample Number	Sample Description	Sample Matrix	Date Sampled	
B604312-12	SB-6	Water	4/17/96	
B604312-13	SB-8	Water	4/17/96	
B604312-14	SB1-A	Soil	4/17/96	
B604312-15	SB1-C	Soil	4/17/96	
B604312-16	SB2-A	Soil	4/17/96	·
B604312-17	SB3-A	Soil	4/17/96	
B604312-18	SB5-A	Soil	4/17/96	
B604312-19	SB6-B	Soil	4/17/96	
B604312-20	SB8-B	Soil	4/17/96	
B604312-21	SB-2	Water	4/17/96	
	جو اي ا			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig Project Manager

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Groundwater Technology Inc.					
aroundmater recrimology inc.	Client Project ID:	Sound Subaru			
19033 W. Valley HWY, D-104	Sample Matrix:	Soil			
Kent, WA 98032	·		Received:	Apr 18, 1	1006
Attention: Steve Hartman	First Sample #:	B604312-01	Benortod:		(000 B
	an a				

TOTAL SOLIDS & MOISTURE CONTENT REPORT

Sample Number	Sample Description	Total Solids %	Moisture Content %
B604312-01	SB1-B	86	14
B604312-02	SB2-B	79	21
B604312-03	SB3-B	82	18
B604312-04	SB4-A	85	15
B604312-05	SB5-B	68	32
B604312-06	SB6-A	81	19
B604312-07	SB7-A	90	10
B604312-08	SB8-A	79	21

The enclosed analytical results for soils, sediments and sludges have been converted to a DRY WEIGHT reporting basis. To attain the wet weight "as received" equivalent, multiply the dry weight result by the decimal fraction of percent Total Solids.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig

Project Manager



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Groundwater Technology Inc.	Client Project ID:	Sound Subaru	Sampled:	Apr 17, 1996
19033 W. Valley HWY, D-104	Sample Matrix:	Soil	Received:	Apr 18, 1996
Kent, WA 98032 Attention: Steve Hartman	Analysis Method:	WTPH-HCID	Extracted:	Apr 19, 1996
Altention. Sleve Hartman	First Sample #:	B604312-01		Apr 19-20, 1996
			Reported:	Apr 25, 1996

HYDROCARBON IDENTIFICATION

Sample Number	Sample Description	HCID as Gasoline C7 - C12 mg/kg (ppm)	GRO Surrogate Recovery %	HCID as Diesel C12 - C24 mg/kg (ppm)	DRO Surrogate Recovery %	HCID Heavy Oil >C24 mg/kg (ppm)
B604312-01	SB1-B	<20	84	<50	90	<100
B604312-03	SB3-B	Present	83	<50	84	<100
BLK041996	Method Blank	<20	86	<50	89	<100

WTPH-HCID is a qualitative procedure which is used to identify petroleum products containing components from C7 to >C24 by Gas Chromatography using a capillary column and a Flame Ionization Detector (FID). While this method is intended to be qualitative, it can be used to eliminate the need for further analysis for those samples which demonstrate TPH levels significantly below the regulatory threshold. Surrogate Recovery control limits are 50 - 150%.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig Project Manager



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Groundwater Technology Inc.	Client Project ID:	Sound Subaru	Sampled:	Apr 17, 1996
19033 W. Valley HWY, D-104	Sample Matrix:	Soil	Received:	Apr 18, 1996
Kent, WA 98032	Analysis Method:	WTPH-G	Analyzed:	Apr 19-22, 1996
Attention: Steve Hartman	First Sample #:	B604312-01	Reported:	Apr 25, 1996

TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE

Sample Number	Sample Description	Sample Result mg/kg (ppm)	Surrogate Recovery %
B604312-01	- SB1-B	75	113
B604312-02	SB2-B	74	115
B604312-03	SB3-B	1,200	137
B604312-04	SB4-A	2,600	S-2
B604312-05	SB5-B	N.D.	89
B604312-06	SB6-A	N.D.	92
B604312-07	SB7-A	2.1	104
BLK041996	Method Blank	N.D.	106

	·····	
Reporting Limits	1.0	

4-Bromofluorobenzene surrogate recovery control limits are 50 - 150 %.

Volatile Total Petroleum Hydrocarbons are quantitated as Gasoline Range Organics (toluene - dodecane).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc. Please Note:

2 Matthew T. Essig Project Manager

S-2 = The Surrogate Recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

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BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202-

		Reported: Apr 25 1000
Attention: Steve Hartman	Units: mg/kg (ppm)	Analyzed: Apr 19-22, 1996
Kent, WA 98032	Analysis Method: WTPH-G	
19033 W. Valley HWY, D-104	Sample Matrix: Soil	
Groundwater rechnology Inc.	Client Project ID: Sound Subaru	
		,**;***********************************

HYDROCARBON QUALITY CONTROL DATA REPORT

	ACY ASSESSMENT atory Control Sample	PRECISION ASSESSMENT Sample Duplicate
Gasoline		Gasoline Range Hydrocarbons
Spike Conc. Added:	5.00	Sample Number: B604320-15
Spike Result:	4.21	Original Result: 1,200
·% Recovery:	84	Duplicate Result: 1,100
Upper Control Limit %:	115	Relative % Difference: 8.6
Lower Control Limit %:	33	Maximum RPD: 67

NORTH CREEK ANALYTICAL Inc.	% Recovery:	Spike Result	x 100	
- to Ci	-	Spike Concentration Added		
Matthew T. Essig	Relative % Difference: _	Original Result - Duplicate Result (Original Result + Duplicate Result) / 2	x 100	
Project Manager				

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Groundwater Technology las				
Groundwater Technology Inc.	Client Project ID:	Sound Subaru	Sampled:	Apr 17, 1996
19033 W. Valley HWY, D-104	Sample Matrix:	Soil		Apr 18, 1996
Kent, WA 98032	Analysis Method:	EPA 8020		Apr 19-22, 1996
Attention: Steve Hartman	First Sample #:	B604312-01	Benorted:	Anr 25 1006

BTEX DISTINCTION

Sample Number	Sample Description	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)	Surrogate Recovery %
B604312-01	SB1-B	0.10	N.D.	0.15	3.4	86
B604312-02	SB2-B	N.D.	0.10	0.24	0.37	80
B604312-03	SB3-B	4.6	25	17	100	99
B604312-05	SB5-B	, N.D.	N.D.	N.D.	N.D.	75
B604312-06	SB6-A	N.D.	N.D.	N.D.	N.D.	74
B604312-07	SB7-A	N.D.	N.D.	N.D.	N.D.	79
BLK041996	Method Blank	N.D.	N.D.	N.D.	N.D.	85

	•				
Reporting Limits:	0.050	0.050	0.050	0.10	1
noporting annior	0.000	0.030	0.030	0.10	
	<u> </u>				

4-Bromofluorobenzene surrogate recovery control limits are 34 - 166 %. Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig Project Manager

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Groupdwa	ter Technology Inc.	Client Project ID:					
		•					
19033 W.	Valley HWY, D-104	Sample Matrix:	Soil				
Kent, WA	98032	Analysis Method:	EPA 8020				
Attention:	Steve Hartman	Units:	mg/kg (ppm)	Analyzed:	Apr	19,	1996
		QC Sample #:	B604307-02	Reported:	Apr	25.	1996
						anna a	the second

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE	<u>_</u>		Ethyl	· · · · · · · · · · · · · · · · · · ·		
	Benzene	Toluene	Benzene	Xylenes		
	•					
Sample Result:	N.D.	N.D.	N.D.	N.D.		
Spike Conc. Added:	0.59	0.59	0.59	1.76		
Spike Result:	0.52	0.55	0.57	1.79		
Spike % Recovery:	88%	93%	97%	102%	•	
Spike Dup. Result:	0.53	0.56	0.58	1.81		
Spike Duplicate % Recovery:	90%	95%	98%	103%		
Upper Control Limit %:	111	118	120	128	~	
Lower Control Limit %:	59	55	61	55		
Relative % Difference:	1.9%	1.8%	1.7%	1.1%		
Maximum RPD:	17	16	17	17		
NORTH CREEK AN	ALYTICAL Inc	% Recovery:	Spike	Result - Sample Result	x 100	
Lat S		-		Spike Conc. Added		-777
Matthew T. Essin	Ţ	Relative % Difference:		esult - Spike Dup. Result	x 100	

(Spike Result + Spike Dup. Result) / 2

Matthew T. Essig Project Manager



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

19033 W. Valley HWY, D-104 Sample Matrix: Soil Received	Apr 18, 199	
Kent, WA 98032 Analysis Method: WTPH-D Extracted	Apr 19, 199	96
Attention: Steve Hartman First Sample #: B604312-08 Analyzed Reported	Apr 19-22, 199 Apr 25, 199	¹¹

TOTAL PETROLEUM HYDROCARBONS-DIESEL RANGE

Sample Number	•		Surrogate Recovery %		
B604312-08	SB8-A	60 D-2	60		
BLK041996	Method Blank	N.D.	63		

Reporting Limit:

10

2-Fluorobiphenyl surrogate recovery control limits are 50 - 150 %.

Extractable Total Petroleum Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24).

Analytes reported as N.D. were not detected above the stated Reporting Limit. The results reported above are on a dry weight basis.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig Project Manager



BOTHELL	(206)	481-920	0 =	FAX 485-2992
SPOKANE	(509)	924-920	0 🔳	FAX 924-9290
PORTLAND	(503)	643-920	0 🔳	FAX 644-2202

arounuwater rechnology inc.	Client Project ID: Sound Subaru	***************************************		
19033 W. Valley HWY, D-104	Sample Matrix: Soil			
Kent, WA 98032	Analysis Method: WTPH-D	Extracted:	Apr 19	. 1996
Attention: Steve Hartman	Units: mg/kg (ppm)	Analyzed:	Apr 19-22	2, 1996
·		Reported:	Apr 25	1000

HYDROCARBON QUALITY CONTROL DATA REPORT

	ACY ASSESSMENT tory Control Sample	PRECISION ASSESSMENT Sample Duplicate
Diesel		Diesel Range Hydrocarbons
Spike Conc. Added:	68.0	Sample Number: B604322-03
Spike Result:	57.8	Original Result: N.D.
% Recovery:	85	Duplicate Result: N.D.
Upper Control Limit %:	[°] 131	Relative Relative Percent Difference values are not % Difference: reported at sample concentration levels less than 10 times the Reporting Limit.
Lower Control Limit %:	66	Maximum RPD: 48

NORTH CREEK ANALYTICAL Inc	% Recovery:	Spike Result	x 100	
tot-S .	_	Spike Concentration Added		
Matthew T. Essig	Relative % Difference:	Original Result - Duplicate Result (Original Result + Duplicate Result) / 2	x 100	
Project Manager				

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Groundwater Technology Inc.				
Groundwater Technology Inc.	Client Project ID:	Sound Subaru	Sampled:	Apr 17, 1996
19033 W. Valley HWY, D-104	Sample Descript:	Soil, SB4-A	Received:	Apr 18, 1996
Kent, WA 98032	Analysis Method:	EPA 8240	Analyzed:	Apr 23, 1996
Attention: Steve Hartman	Sample Number:	B604312-04	Reported:	Apr 25 1000

VOLATILE ORGANICS by GC/MS

Analyte	Reporting Limit mg/kg (ppm)		Sample Results mg/kg (ppm)
Acetone	8.0	*****	N.D.
Benzene	0.40		2.3
Bromodichloromethane	0.40		N.D.
Bromoform	0.40		N.D.
Bromomethane	2.0		N.D.
2-Butanone	8.0		N.D.
Carbon disulfide	2.0		N.D.
Carbon tetrachloride	1.0		N.D.
Chlorobenzene	0.40		N.D.
Chloroethane	2.0		N.D.
Chloroform	0.40		N.D.
Chloromethane	2.0		N.D.
Dibromochloromethane	0.40		N.D.
1,1-Dichloroethane	0.40		N.D.
1,2-Dichloroethane	0.40		N.D.
1,1-Dichloroethene	0.40		N.D.
cis 1,2-Dichloroethene	1.0		N.D.
trans 1,2-Dichloroethene	0.40		N.D.
1,2-Dichloropropane	0.40		N.D.
cis 1,3-Dichloropropene	0.40		N.D.
trans 1,3-Dichloropropene	0.40		N.D.
Ethylbenzene	8.0		31
2-Hexanone	2.0		N.D.
Methylene chloride	8.0		N.D.
Methylene chloride 4-Methyl-2-pentanone	2.0		N.D.
Styrene	1.0		N.D.
1,1,2,2-Tetrachloroethane	1.0		N.D.
Tetrachloroethene	1.0		N.D.
Toluene	0.40	•••••	N.D.
1,1,1-Trichloroethane	1.0		N.D.
1,1,2-Trichloroethane	0.40		N.D.
Trichloroethene	0.40	*****	N.D.
Vinyl chloride	2.0	***************************************	N.D.
Total Xylenes	1.0		48

The results reported above are on a dry weight basis.

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Analytes reported as N.D. were not detected above the stated Reporting Limit. Because matrix effects and/or other factors required additional sample dilution, reporting limits for this sample have been raised.

NORTH CREEK ANALYTICAL inc.

Matthew T. Essig Project Manager

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		Control
Surrogate Standards Percent Recovery	y:	Limits
1,2-Dichloroethane-d4	86	70-121
Toluene-d8	105	81-117
4-Bromofluorobenzene	88	74-121



Groundwater Technology Inc.	Client Project ID:	Sound Subaru			
19033 W. Valley HWY, D-104	Sample Descript:	Method Blank			
Kent, WA 98032	Analysis Method:	EPA 8240	Analyzed:	Apr 23,	1996
Attention: Steve Hartman	Sample Number:	BLK042396	Reported:	Apr 25	1000

VOLATILE ORGANICS by GC/MS

Analyte .	Reporting Limit mg/kg (ppm)		Sample Results mg/kg (ppm)
Acetone	2.0		N.D.
Benzene	0.10	•••••	N.D.
Bromodichloromethane	0.10		N.D.
Bromoform	0.10	•••••	N.D.
Bromomethane	0.50		N.D.
2-Butanone	2.0		N.D.
Carbon disulfide	0.50	••••••	N.D.
Carbon tetrachloride	0.25		N.D.
Chlorobenzene	0.10		N.D.
Chloroethane	0.50		N.D.
Chloroform	0.10		N.D.
Chloromethane	0.50		N.D.
Dibromochloromethane	0.10	•••••	N.D.
1,1-Dichloroethane	0.10		N.D.
1,2-Dichloroethane	0.10		N.D.
1,1-Dichloroethene	0.10		N.D.
cis 1,2-Dichloroethene	0.25		N.D.
trans 1,2-Dichloroethene	0.10		N.D.
1,2-Dichloropropane	0.10		N.D.
cis 1,3-Dichloropropene	0.10		N.D.
trans 1,3-Dichloropropene	0.10		N.D.
Ethylbenzene	0.25		N.D.
2-Hexanone	2.0		N.D.
Methylene chloride	1,0		N.D.
4-Methyl-2-pentanone	2.0		N.D.
Styrene	0.25		N.D.
1,1,2,2-Tetrachloroethane	0.25		N.D.
Tetrachloroethene	0.25		N.D.
Toluene	0.10	••••••	N.D.
1,1,1-Trichloroethane	0.25		N.D.
1,1,2-Trichloroethane	0.10		N.D.
Trichloroethene	0.10		N.D.
Vinyl chloride	0.50		N.D.
Total Xylenes	0.25	•••••••	N.D.

The results reported above are on a dry weight basis.

Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig Project Manager

		Control
Surrogate Standards Percent Recovery:	Limits	
1,2-Dichloroethane-d4	83	70-121
Toluene-d8	98	81-117
4-Bromofluorobenzene	94	74-121

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BOTHELL	×	(206)	481-9200	81	FAX 485-2992
SPOKANE		(509)	924-9200	-	FAX 924-9290
PORTLAND		(503)	643-9200		FAX 644-2202

Croundwater Technology (action)	.44 <u>0</u> 6346444 <u>6</u> 6464466666 <u>66</u> 66				1000	61.1.1.1.1.1.1.1.
Groundwater Technology Inc.	Client Project ID:	Sound Subaru				
19033 W. Valley HWY, D-104	Sample Matrix:	Soil				
Kent, WA 98032	Analysis Method:	EPA 8240				
Attention: Steve Hartman	Units:	mg/kg (ppm)	Analyzed:	Apr	23,	1996
	QC Sample #:	B604378-06	Renorted-	Δpr	25	1000
				ania	di kaja	

MATRIX SPIKE QUALITY CONTROL DATA REPORT

	<u>.</u>							
ANALYTE	1,1-DCE	Benzene	TCE	Toluene	Chloro- benzene			
		·				· · · · ·		!
Sample Result:	N.D.	N.D.	N.D.	N.D.	N.D.			•
Spike Conc. Added:	2.14	2.14	2.14	2.14	2.14			
Spike Result:	1.78	1.92	1.89	1.98	1.97			
Spike % Recovery:	83%	90%	88%	93%	92%		·	
Spike Dup. Result:	1.84	1.98	1.94	2.02	2.05			
Spike Duplicate % Recovery:	86%	93%	91%	94%	96%			
Upper Control Limit %:	87	105	97	118	101			
Lower Control Limit %:	45	61	62	52	63			
Relative % Difference:	3.3%	3.1%	2.6%	2.0%	4.0%			
Maximum RPD:	10	10	10	20	10			
NORTH CREEK AN		IC. % Recovery:	Spike	Results - Sampl		x 100		
nfat = S	suc.			Spike Conc. Ad	ded			
Matthew T. Essig Project Manager	7	Relative % Difference:	Spike ((Spike Re	Result - Spike Du esult + Spike Dup	ip. Result b. Result) / 2	x 100		
i rojectiviatiaget					· .		GTI <13>	



Groupdwater Teebaelegy Inc.				
g Groundwater rechnology inc.	Client Project ID:	Sound Subaru	Sampled:	Apr 17, 1996
19033 W. Valley HWY, D-104	Sample Matrix:	Water	Received:	
Kent, WA 98032	Analysis Method:	WTPH-G	Analyzed:	Apr 22-23, 1996
Attention: Steve Hartman	First Sample #:	B604312-09	Reported.	Anr 25 100c

TOTAL PETROLEUM HYDROCARBONS-GASOLINE RANGE

Sample Number	Sample Description	Sample Resuit µg/L (ppb)	Surrogate Recovery %			<u>-</u> '	
B604312-09	SB-1	2,100	S-2		·* :		
B604312-10	SB-3	560	127				
B604312-11	SB-5	66	89	•			
B604312-12	SB-6	N.D.	98				
B604312-13	SB-8	N.D	95				
BLK042296	Method Blank	N.D.	111				

 Reporting Limit:
 50

 4-Bromofluorobenzene surrogate recovery control limits are 50 - 150 %.

Volatile Total Petroleum Hydrocarbons are quantitated as Gasoline Range Organics (toluene - dodecane). Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc. Please Note:

Matthew T. Essig Project Manager S-2 = The Surrogate Recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.



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Groundwater Technology Inc.					in a starter	
Groundwater Technology Inc.	Client Project ID: S	Sound Subaru				
19033 W. Valley HWY, D-104	Sample Matrix: V	Vater				
Kent, WA 98032	Analysis Method: V	VTPH-G				
Attention: Steve Hartman	Units: µ	ıg/L (ppb)	Analyzed:	Apr :	22,	1996
			Beported.	Anr t	25	1006

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample			PRECISION ASSESSMENT Sample Duplicate	
	Gasoline	· · · · · ·	Gasoline Range Organics	
Spike Conc. Added:	100		Sample Number: B604312-09	
Spike Result:	101		Original Result: 2,100	
% Recovery:	101	245	Duplicate Result: 1,800	
Upper Control Limit %:	132		Relative % Difference: 15	
Lower Control Limit %:	56		Maximum RPD: 50	

NORTH CREEK ANALYTICAL Inc.	% Recovery:	Spike Result	x 100
It ('		Spike Concentration Added	
grithe T-losg			
Matthew T. Essig	Relative % Difference:	Original Result - Duplicate Result	x 100
Project Manager		(Original Result + Duplicate Result) / 2	



Groundwater Technology Inc.				
aroundwater recimology mc.	Client Project ID:	Sound Subaru	Sampled:	Apr 17, 1996
19033 W. Valley HWY, D-104	Sample Matrix:	Water	Received:	
Kent, WA 98032	Analysis Method:	EPA 8020		Apr 22-23, 1996
Attention: Steve Hartman	First Sample #	B604312-09	Penartad	

BTEX DISTINCTION

Sample Number	Sample Description	Benzene µg/L (ppb)	Toluene μg/L (ppb)	Ethyi Benzene µg/L (ppb)	Xylenes μg/L (ppb)	Surrogate Recovery %
B604312-09	SB-1	13	1.4	42	140	127
B604312-10	SB-3	4.3	8.1	8.6	54	113
B604312-11	SB-5	1.5	2.2	N.D.	2.9	100
B604312-12	SB-6	N.D.	N.D.	N.D.	N.D.	98
B604312-13	SB-8	N.D.	N.D.	N.D.	N.D.	93
BLK042296	Method Blank	N.D.	N.D.	N.D.	N.D.	100

······································	<u> </u>	·			
Reporting Limits:	0.50	0.50	0.50	1.0	

4-Bromofluorobenzene surrogate recovery control limits are 59 - 144 %. Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

:lss

Matthew T. Essig Project Manager

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Groundwater Technology Inc.	Client Project ID:	Sound Subaru			0000	anang
19033 W. Valley HWY, D-104	Sample Matrix:					
Kent, WA 98032	•					
	Analysis Method:		A		~~	
Attention: Steve Hartman		μg/L (ppb)				1996
	QC Sample #:	B604312-13	Reported:	Apr	25,	1996

MATRIX SPIKE QUALITY CONTROL DATA REPORT

ANALYTE			Ethyl	·		
	Benzene	Toluene	Benzene	Xylenes		
				۰.	••	
Sample Result:	N.D.	N.D.	N.D.	N.D.		
Spike Conc. Added:	10.0	10.0	10.0	30.0		
Spike Result:	8.5	8.7	9.0	27.8	:	
Spike % Recovery:	85%	87%	90%	93%		
Spike Dup. Result:	9.3	9.6	9.9	30.3		••
Spike Duplicate % Recovery:	93%	96%	99%	101%		
Upper Control Limit %:	115	116	122	122		
Lower Control Limit %:	82	. 81	85	85		
Relative % Difference:	9.0%	9.8%	9.1%	8.6%		
Maximum RPD:	16	16	16	17		
NORTH CREEK AN		IC. % Recovery:	Spike	Result - Sample Result	x 100	
Matthew T. Essig	sig	Relative % Difference:	Spike F	Spike Conc. Added Result - Spike Dup. Result sult + Spike Dup. Result) / 2	x 100	
Project Manager		L		our opine Dup. Heading / 2	604312 G	



Groundwater Technology Inc.	Client Project ID:	Sound Subaru	Sampled:	Apr 17, 1996
19033 W. Valley HWY, D-104	Sample Matrix:	Water	Received:	Apr 18, 1996
 Kent, WA 98032	Analysis Method:	WTPH-D	Extracted:	Apr 22, 1996
Attention: Steve Hartman	First Sample #:	B604312-12		Apr 23-24, 1996
			Reported:	Apr 25, 1996

TOTAL PETROLEUM HYDROCARBONS-DIESEL RANGE

Sample Number	Sample Description	Sample Result mg/L (ppm)	Surrogate Recovery %
B604312-12	SB-6	N.D.	55
BLK042296	Method Blank	N.D.	60

Reporting Limit:

0.25

2-Fluorobiphenyl surrogate recovery control limits are 50 - 150 %. Extractable Total Petroleum Hydrocarbons are quantitated as Diesel Range Organics (C12 - C24). Analytes reported as N.D. were not detected above the stated Reporting Limit.

NORTH CREEK ANALYTICAL Inc.

Matthew T. Essig Project Manager

604312.GTI <18>



HYDROCARBON ANALYSIS FOOTNOTES

<u>VOLATILE HYDROCARBONS</u> - GASOLINE RANGE ORGANICS

2/94, Rev. 3

- G 1 This sample appears to contain extractable diesel range organics.
- G 2 The chromatogram for this sample does not resemble a typical gasoline pattern. Please refer to the sample chromatogram.
- G 3 The total hydrocarbon result in this sample is primarily due to an individual compound(s) eluting in the volatile hydrocarbon range. Identification and quantitation by EPA 8010, 8021 or 8240 is recommended.
- G 4 This sample contains compound(s) not identified as Benzene, Toluene, Ethyl benzene or Xylene.
- G 5 This sample appears to contain or be saturated with gasoline product.

EXTRACTABLE HYDROCARBONS - DIESEL RANGE ORGANICS

- D 1 This sample appears to contain volatile gasoline range organics.
- D 2 The hydrocarbons present in this sample resemble heavy, non-resolvable oil range organics. Quantitation by TPH-Diesel Extended or TPH 418.1 is recommended.
- D 3 The hydrocarbon concentration result in this sample is partially due to an individual peak(s) eluting in the diesel / motor oil carbon range.
- D 4 The hydrocarbons present in this sample are a complex mixture of diesel range and heavy oil range organics.
- D 5 The hydrocarbon result shown is an estimated (greater than) value due to the high concentration. Reanalysis is being performed to yield a quantitative result. An amended report will follow.
- D 6 The sample chromatographic pattern does not resemble the fuel standard used for quantitation. A fuel fingerprint is advised.

Oils and Lubricants

D 7. This sample appears to contain or be saturated with diesel product.

		r		l
		[TRPH 418.1	·
	r.	Diesel & Fuel Oils	,	
	Ext	ractable Hydrocarbons] (TPH-D)	
r	Gasoline			
Volatile H	Iydrocarbons (TPH-G)			
		OCARBON BOILE	NG POINT RANGE	
LOW	LOW TO MEDIUM	MEDIUM	MEDIUM TO HIGH	VERY HIGH
CARBON	RANGE:			

5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 +



Groundwater Technology Inc.	Client Project ID: Sound Subaru			
19033 W. Valley HWY, D-104	Sample Matrix: Water	•		
Kent, WA 98032	Analysis Method: WTPH-D	Extracted:	Apr 22, 1	996
Attention: Steve Hartman	Units: mg/L (ppm)	Analyzed:	Apr 23-24, 1	996
		Reported:	Apr 25, 1	996
***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******************	in in the initial state in the second second	1-1-1-1-1

HYDROCARBON QUALITY CONTROL DATA REPORT

ACCURACY ASSESSMENT Laboratory Control Sample		PRECISION ASSESSMENT Sample Duplicate
,,,,	Diesel	Diesel Range Organics
Spike Conc. Added:	2.04	Sample Number: B604342-02
Spike Result:	1.50	Original Result: N.D.
% Recovery:	74	Duplicate Result: N.D.
Upper Control Limit %:	121	Relative Relative Percent Difference values are not % Difference: reported at sample concentration levels less than 10 times the Reporting Limit.
Lower Control Limit %:	54	RPD: 44

NORTH CREEK ANALYTICAL Inc.	% Recovery:	Spike Result	x 100
notat - Jasis		Spike Concentration Added	
Matthew T. Essig	Relative % Difference:	Original Result - Duplicate Result (Original Result + Duplicate Result) / 2	x 100
Project Manager			



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 East 11115 Montgomery, Suite B, Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHAIN OF CUSTODY REPORT

B604312- p1

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DRESS: 19033 West Valley Huy # D-1C4 Keat WA 98032 DRESS: 251-5441 FAX: 251-5452 NAQUOTE #: DIECT NUMBER: 020600266 MPLED BY: 5422 Hartman SAMPLING MATRIX # 0F MPLED BY: 5422 Hartman SAMPLING DESCRIPTION DATE / TIME (W.S.O) CONT. SAMPLING DESCRIPTION DATE / TIME (W.S.O) CONT. SB 2 - B 4-17 1320 S 1 V V V SB 5 - B 4-17 1320 S 1 V V V SB 5 - B 4-17 1320 S 1 V V V SB 5 - A 4-17 1320 S 1 V V SB 7 - A 4-17 1320 S 1 V V SB 7 - A 4-17 1320 S 1 V V SB 7 - A 4-17 1320 S 1 V V SB 7 - A 4-17 1520 S 1 V V SAMPLE DEVISED BY: Sture 7007 SB 5 - A 4-17 1520 S 1 V V SAMPLE DEVISED BY: Sture 7007 SB 6 - A 4-17 1520 S 1 V V SB 7 - A 4-	<u> </u>																	· · ·	
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CHAIN OF CUSTODY REPORT

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