

RELEASE # 369379

GEOENGINEERS

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REDMOND, WASHINGTON 98052
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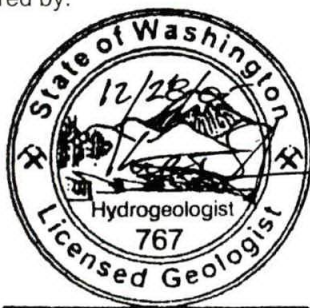
TEXACO 63 232 0395
TUKWILA
LIST # 4454

GROUNDWATER MONITORING REPORT FOURTH QUARTER 2005

Former Texaco Service Station ✓
13138 Interurban Avenue South ✓
Tukwila, Washington

Report date: ✓ December 20, 2004
 GeoEngineers file no.: 9876-097-00
 SAP Number : 120598
 Client: Carol Campagna, Shell Oil Products US
 20945 S. Wilmington Ave. Carson, CA 90810
 GeoEngineers project manager: Tony N. Orme, PE
 Sample date: ✓ October 26, 2005
 Wells gauged: AGW-1, AGW-2, AGW-3 and AGW-4
 Free product (well/thickness): None
 Groundwater flow direction: South
 Direction similar to previous events?: Yes
 Wells sampled: AGW-1, AGW-2, AGW-3 and AGW-4
 Purge/sample methods: No purge, sample by hand bailing techniques
 Chemical testing: NWT PH-G and BETX by 8021B
 Results similar to previous events?: Yes
 Monitoring event frequency: Semiannually
 Notes: Detected concentrations of all analytes in all sampled wells were similar to historical detected concentrations.

Prepared by:



Kurt S. Anderson


Kurt S. Anderson, LG, LHG
Senior Principal

Attachments:

- Table 1: Summary of Groundwater Monitoring Data
- Figure 1: Vicinity Map
- Figure 2: Site Plan and Groundwater Flow
- Chemical Analytical Data
- Historical Groundwater Data
- Wellhead Inspection Checklist

Distribution:

- Client (one copy)
- John Bails
- Washington State Department of Ecology (Northwest Regional Office)

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Note: We have prepared this report for the exclusive use of Shell Oil Products US (Shell), their authorized agents, and regulatory agencies. No other party may place reliance on the product of our services unless we agree in advance and in writing to such reliance. Our services were provided in accordance with our agreement with Shell. Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied should be understood.

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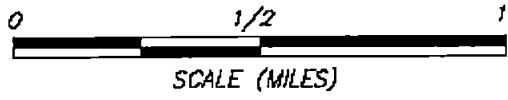
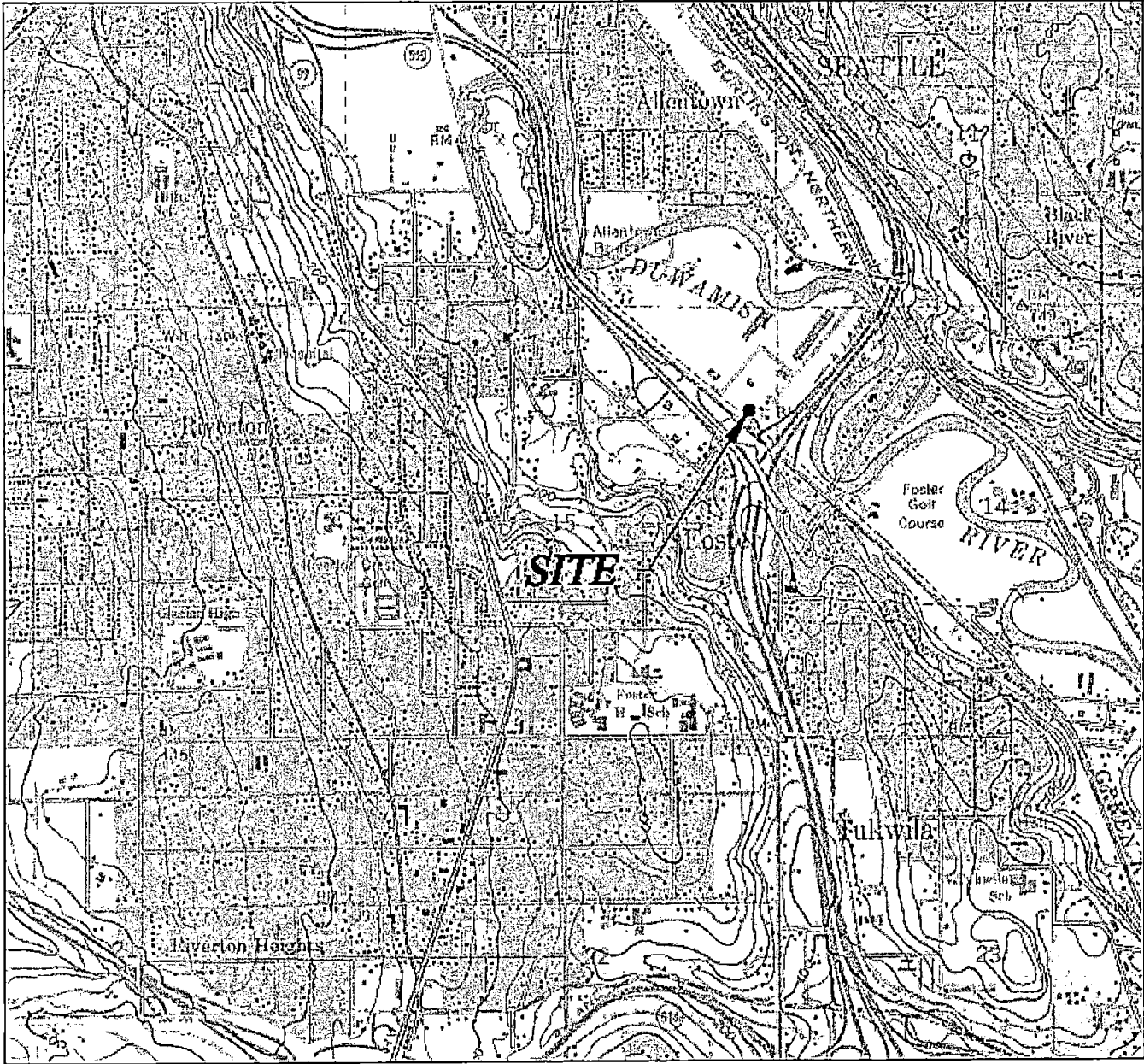
TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
BETX AND GASOLINE-RANGE HYDROCARBONS
 13138 INTERURBAN AVENUE SOUTH
 TUKWILA, WASHINGTON

Well Number	Date	Depth to Ground-water (feet)	Ground-water Elevation (feet)	Volatile Aromatic Hydrocarbons (µg/l)				Gasoline-range Hydrocarbons (mg/l)	MTBE (µg/l)
				B	E	T	X		
AGW-1	04/12/01	11.81	84.57	55.3	<0.500	<0.500	2.08	0.120	<1.00
	10/09/01	13.23	83.15	1.91	<0.500	<0.500	6.34	0.0960	<0.500
	05/07/02	11.63	84.75	6.16	0.706	<0.500	15.1	0.116	--
	10/11/02	12.87	83.51	<1.0	<1.0	<1.0	7.6	<0.25	--
	04/24/03	11.41	84.97	11	<1	<1	17.3	<0.25 ✓	<1
	10/20/03	12.38	84.00	<1	<1	<1	4.7	<0.25 ✓	--
	04/13/04	12.14	84.24	<5	<5	<5	<5	<1.2 ✗	--
	11/23/04	13.19	83.19	<5	<5	<5	<5	<1.2 ✗	--
	05/26/05	12.36	84.02	<1	<1	<1	5.4	0.32 ✓	--
	10/26/05	12.63	83.75	<1	<1	<1	3	0.2 ✓	--
AGW-2	04/12/01	10.92	84.55	--	--	--	--	--	--
	10/09/01	12.35	83.12	--	--	--	--	--	--
	05/07/02	--	--	--	--	--	--	--	--
	10/11/02	--	--	--	--	--	--	--	--
	04/24/03	10.47	85.00	<1	<1	<1	<1	<0.25 ✓	<1
	10/20/03	11.56	83.91	<1	<1	<1	<1	<0.25 ✓	--
	04/13/04	11.22	84.29	<5	<5	<5	<5	<1.2	--
	11/23/04	12.24	83.23	<5	<5	<5	<5	<1.2	--
	05/26/05	11.42	84.05	<1	<1	<1	<1	0.053 ✓	--
	10/26/05	11.72	83.75	<1	<1	<1	<1	<0.05 ✓	--
AGW-3	04/12/01	11.72	84.67	0.978	<0.500	0.752	3.58	0.0839	<1.00
	10/09/01	13.19	83.20	1.60	<0.500	<0.500	2.16	0.242	--
	05/07/02	11.66	84.73	3.37	<0.500	0.651	4.28	0.258	--
	10/11/02	12.82	83.57	<1.0	<1.0	<1.0	1	<0.25	--
	04/24/03	11.44	84.95	8.1	<1	<1	4.7	<0.25	<1
	10/20/03	12.32	84.07	<1	<1	<1	<1	<0.25	--
	04/13/04	12.10	84.29	<5	<5	<5	<5	<1.2	--
	11/23/04	13.22	83.17	<1	<1	<1	<1	<0.25	--
	05/26/05	12.44	83.95	<1	<1	<1	2.8	0.34 ✓	--
	10/26/05	12.56	88.83	<1	<1	<1	2.2	0.34 ✓	--
AGW-4	04/12/01	13.00	84.61	4,090	1,070	634	5,650	28.1	<1.00
	10/09/01	14.48	83.13	9,570	3,520	4,200	20,900	100	<0.500
	05/07/02	12.87	84.74	8,010	2,370	1,500	12,600	70.6	--
	10/11/02	14.16	83.45	9,800	2,300	1,900	11,900	76	--
	04/24/03	12.63	84.98	8,800	1,800	1,200	12,200	70	120
	10/20/03	13.67	83.94	13,000	2,200	1,000	10,300	60	--
	04/13/04	13.36	84.25	11,000	2,500	1,300	12,200	77 ✗	--
	11/23/04	14.42	83.19	13,000	2,100	810	7,400	37 ✗	--
	05/26/05	13.64	83.97	9,700	2,200	710	9,500	62 ✗	--
	10/26/05	13.85	83.76	13,000	2,300	1,000	8,400	53 ✗	--
MTCA Method A Cleanup Level				5.0	700	1,000	1,000	0.8	20

Notes:

Well locations are shown in Figure 2.
 Depth to water from top of well casing.
 B = benzene, E = ethylbenzene, T = toluene, X = xylenes, MTBE = methyl tert-butyl ether. Analyzed using EPA Method 8021B.
 Gasoline-range hydrocarbons analyzed using NWTPH-G_x or WTPH-G.
 µg/l = micrograms per liter; mg/l = milligrams per liter; ppm = parts per million
 NA = Not available.
 MTCA = Model Toxics Control Act

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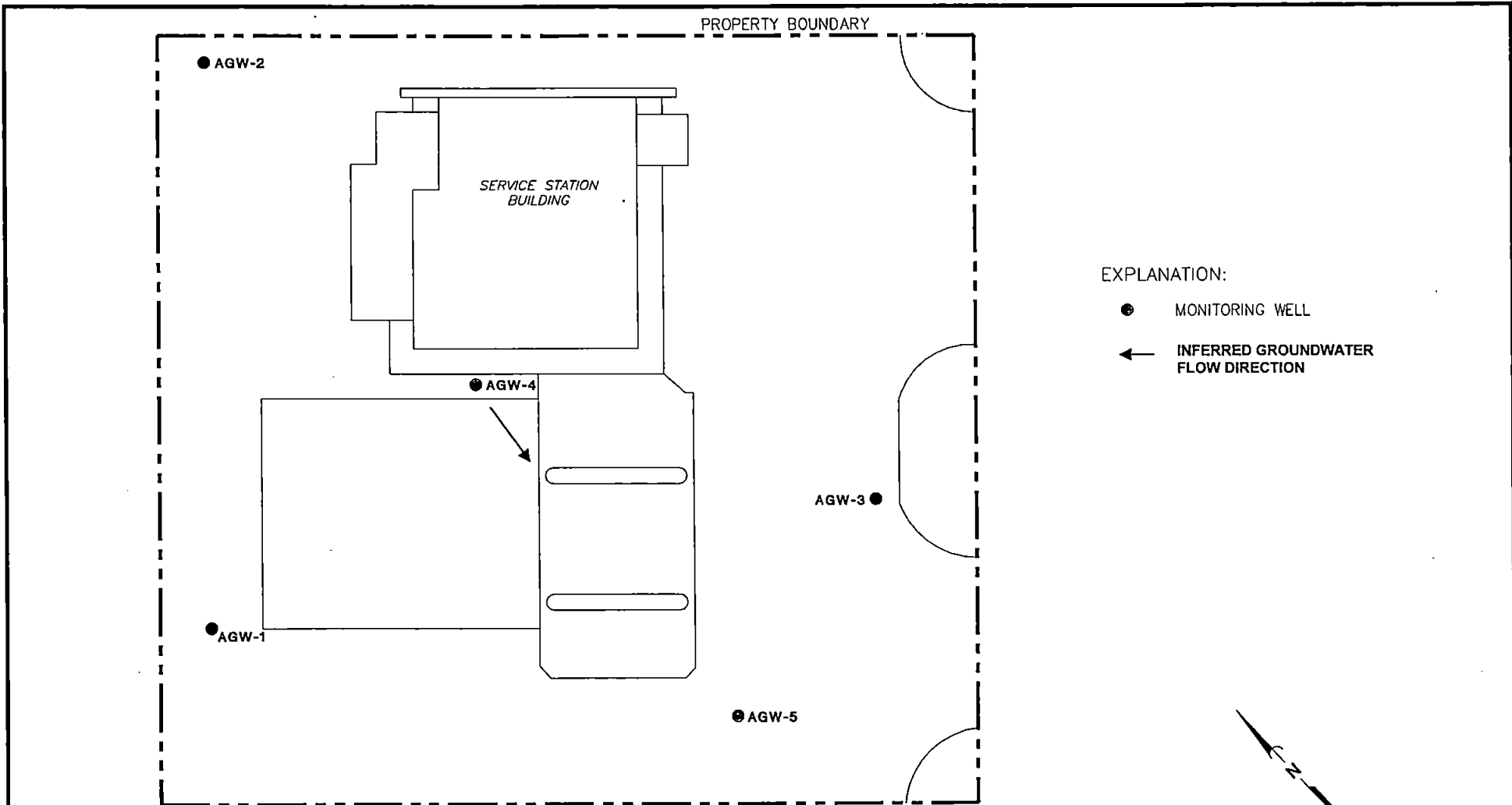
TEXACO STATION SAP NO. 120598
 13138 INTERURBAN AVENUE SOUTH
 TUKWILA, WASHINGTON

Reference: USGS 7.5' topographic quadrangle map "Des Moines, Wash." 1978.



VICINITY MAP

FIGURE 1



Notes: 1. The locations of all features shown are approximate.
2. This figure is for informational purposes only. It is intended to assist in the identification of features discussed in a related document. Data were compiled from sources as listed in this figure. The data sources do not guarantee these data are accurate or complete. There may have been updates to the data since the publication of this figure. This figure is a copy of a master document. The master hard copy is stored by GeoEngineers, Inc. and will serve as the official document of record.

Reference: Drawing entitled "Groundwater Elevation Contour and Analytical Results (5/7/02), Texaco Station SAP#120598" dated 06/06/02, by Secor.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US

Certificate of Analysis Number:

05101332

Report To: Geo Engineers Inc. Tony Orme 8410 154th Avenue Northeast Redmond WA 98052- ph: (425) 861-6076 fax:	Project Name: INC#95995044/SAP# 120598 Site: 13138 Interurban Ave. S. Site Address: 13138 Interurban Ave. S. Tukwila WA PO Number: State: Washington State Cert. No.: C156 Date Reported: 11/8/2005
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This Report Contains A Total Of 12 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

11/9/2005

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
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Case Narrative for:
Shell Oil Products US

Certificate of Analysis Number:
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Report To: Geo Engineers Inc. Tony Orme 8410 154th Avenue Northeast Redmond WA 98052- ph: (425) 861-6076 fax:	Project Name: INC#95995044/SAP# 120598 Site: 13138 Interurban Ave. S. Site Address: 13138 Interurban Ave. S. Tukwila WA PO Number: State: Washington State Cert. No.: C156 Date Reported: 11/8/2005
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Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg/kg-dry " or " ug/kg-dry ").

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

11/9/2005

Erica Cardenas
 Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

Date



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Shell Oil Products US

Certificate of Analysis Number:
05101332

Report To: Geo Engineers Inc.
 Tony Orme
 8410 154th Avenue Northeast

 Redmond
 WA
 98052-
 ph: (425) 861-6076 fax:

Project Name: INC#95995044/SAP# 120598
Site: 13138 Interurban Ave. S.
Site Address: 13138 Interurban Ave. S.
 Tukwila WA
PO Number:
State: Washington
State Cert. No.: C156
Date Reported: 11/8/2005

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
097AGW01102605	05101332-01	Water	10/26/2005 4:15:00 PM	10/28/2005 9:30:00 AM		<input type="checkbox"/>
097AGW02102605	05101332-02	Water	10/26/2005 4:30:00 PM	10/28/2005 9:30:00 AM		<input type="checkbox"/>
097AGW03102605	05101332-03	Water	10/26/2005 4:45:00 PM	10/28/2005 9:30:00 AM		<input type="checkbox"/>
097AGW04102605	05101332-04	Water	10/26/2005 5:00:00 PM	10/28/2005 9:30:00 AM		<input type="checkbox"/>

Erica Cardenas

11/9/2005

Erica Cardenas
 Project Manager

Date

Joel Grice
 Laboratory Director

Ted Yen
 Quality Assurance Officer



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:097AGW01102605

Collected: 10/26/2005 16:15 SPL Sample ID: 05101332-01

Site: 13138 Interurban Ave. S.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/L	
Gasoline Range Organics	0.2		0.05	1	11/05/05 8:43	DY	3012631
Surr: 1,4-Difluorobenzene	103		% 60-155	1	11/05/05 8:43	DY	3012631
Surr: 4-Bromofluorobenzene	94.7		% 50-158	1	11/05/05 8:43	DY	3012631
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	11/05/05 8:43	DY	3012610
Toluene	ND		1	1	11/05/05 8:43	DY	3012610
Ethylbenzene	ND		1	1	11/05/05 8:43	DY	3012610
m,p-Xylene	3		1	1	11/05/05 8:43	DY	3012610
o-Xylene	ND		1	1	11/05/05 8:43	DY	3012610
Xylenes, Total	3		1	1	11/05/05 8:43	DY	3012610
Surr: 1,4-Difluorobenzene	97.2		% 39-163	1	11/05/05 8:43	DY	3012610
Surr: 4-Bromofluorobenzene	99.9		% 57-157	1	11/05/05 8:43	DY	3012610

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/9/2005 3:38:00 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:097AGW02102605

Collected: 10/26/2005 16:30 SPL Sample ID: 05101332-02

Site: 13138 Interurban Ave. S.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/L	
Gasoline Range Organics	ND		0.05	1	11/05/05 9:10	DY	3012632
Surr: 1,4-Difluorobenzene	99.7		% 60-155	1	11/05/05 9:10	DY	3012632
Surr: 4-Bromofluorobenzene	96.3		% 50-158	1	11/05/05 9:10	DY	3012632
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	11/05/05 9:10	DY	3012611
Toluene	ND		1	1	11/05/05 9:10	DY	3012611
Ethylbenzene	ND		1	1	11/05/05 9:10	DY	3012611
m,p-Xylene	ND		1	1	11/05/05 9:10	DY	3012611
o-Xylene	ND		1	1	11/05/05 9:10	DY	3012611
Xylenes, Total	ND		1	1	11/05/05 9:10	DY	3012611
Surr: 1,4-Difluorobenzene	101		% 39-163	1	11/05/05 9:10	DY	3012611
Surr: 4-Bromofluorobenzene	99.8		% 57-157	1	11/05/05 9:10	DY	3012611

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/9/2005 3:38:00 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:097AGW03102605

Collected: 10/26/2005 16:45 SPL Sample ID: 05101332-03

Site: 13138 Interurban Ave. S.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/L	
Gasoline Range Organics	0.34		0.05	1	11/05/05 9:37	DY	3012633
Surr: 1,4-Difluorobenzene	154		% 60-155	1	11/05/05 9:37	DY	3012633
Surr: 4-Bromofluorobenzene	101		% 50-158	1	11/05/05 9:37	DY	3012633
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1	1	11/05/05 9:37	DY	3012612
Toluene	ND		1	1	11/05/05 9:37	DY	3012612
Ethylbenzene	ND		1	1	11/05/05 9:37	DY	3012612
m,p-Xylene	1.2		1	1	11/05/05 9:37	DY	3012612
o-Xylene	1		1	1	11/05/05 9:37	DY	3012612
Xylenes, Total	2.2		1	1	11/05/05 9:37	DY	3012612
Surr: 1,4-Difluorobenzene	109		% 39-163	1	11/05/05 9:37	DY	3012612
Surr: 4-Bromofluorobenzene	101		% 57-157	1	11/05/05 9:37	DY	3012612

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/9/2005 3:38:00 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID:097AGW04102605

Collected: 10/26/2005 17:00 SPL Sample ID: 05101332-04

Site: 13138 Interurban Ave. S.

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	NWTPH-GX	Units: mg/L	
Gasoline Range Organics	53		25	500	11/05/05 10:04	DY	3012634
Surr: 1,4-Difluorobenzene	106		% 60-155	500	11/05/05 10:04	DY	3012634
Surr: 4-Bromofluorobenzene	95.5		% 50-158	500	11/05/05 10:04	DY	3012634
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	13000		500	500	11/05/05 10:04	DY	3012613
Toluene	1000		500	500	11/05/05 10:04	DY	3012613
Ethylbenzene	2300		500	500	11/05/05 10:04	DY	3012613
m,p-Xylene	7100		500	500	11/05/05 10:04	DY	3012613
o-Xylene	1300		500	500	11/05/05 10:04	DY	3012613
Xylenes, Total	8400		500	500	11/05/05 10:04	DY	3012613
Surr: 1,4-Difluorobenzene	104		% 39-163	500	11/05/05 10:04	DY	3012613
Surr: 4-Bromofluorobenzene	104		% 57-157	500	11/05/05 10:04	DY	3012613

Qualifiers:

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J - Estimated Value between MDL and PQL

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11/9/2005 3:38:00 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US
INC#95995044/SAP# 120598

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 05101332
Lab Batch ID: R154639

Method Blank

Samples in Analytical Batch:

RunID: VARD_051105A-3012641 Units: ug/L
Analysis Date: 11/05/2005 4:41 Analyst: DY
Preparation Date: 11/05/2005 4:41 Prep By: Method SW5030B

Lab Sample ID Client Sample ID
05101332-01A 097AGW01102605
05101332-02A 097AGW02102605
05101332-03A 097AGW03102605
05101332-04A 097AGW04102605

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Benzene, Ethylbenzene, Toluene, m,p-Xylene, o-Xylene, Xylenes, Total, and two Surr: entries.

Laboratory Control Sample (LCS)

RunID: VARD_051105A-3012603 Units: ug/L
Analysis Date: 11/05/2005 4:15 Analyst: DY
Preparation Date: 11/05/2005 4:15 Prep By: Method SW5030B

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include Benzene, Ethylbenzene, Toluene, m,p-Xylene, o-Xylene, and Xylenes, Total.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 05101307-01
RunID: VARD_051105A-3012605 Units: ug/L
Analysis Date: 11/05/2005 5:08 Analyst: DY

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include Benzene, Ethylbenzene, and Toluene.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US
INC#95995044/SAP# 120598

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 05101332
Lab Batch ID: R154639

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 05101307-01
RunID: VARD_051105A-3012605 Units: ug/L
Analysis Date: 11/05/2005 5:08 Analyst: DY

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	37.9	94.7	40	41.2	103	8.39	27	51	155
o-Xylene	ND	20	19.0	95.0	20	20.9	105	9.77	25	58	151
Xylenes, Total	ND	60	56.9	94.8	60	62.1	104	8.85	27	51	155

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
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 J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Shell Oil Products US
INC#95995044/SAP# 120598

Analysis: Gasoline Range Organics
Method: NWTPH-Gx

WorkOrder: 05101332
Lab Batch ID: R154640

Method Blank

Samples in Analytical Batch:

RunID: VARD_051105B-3012627 Units: mg/L
Analysis Date: 11/05/2005 4:41 Analyst: DY
Preparation Date: 11/05/2005 4:41 Prep By: Method SW5030B

Lab Sample ID Client Sample ID
05101332-01A 097AGW01102605
05101332-02A 097AGW02102605
05101332-03A 097AGW03102605
05101332-04A 097AGW04102605

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Gasoline Range Organics, Surr: 1,4-Difluorobenzene, and Surr: 4-Bromofluorobenzene.

Laboratory Control Sample (LCS)

RunID: VARD_051105B-3012639 Units: mg/L
Analysis Date: 11/05/2005 3:48 Analyst: DY
Preparation Date: 11/05/2005 3:48 Prep By: Method SW5030B

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row for Gasoline Range Organics.

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 05101307-02
RunID: VARD_051105B-3012628 Units: mg/L
Analysis Date: 11/05/2005 6:02 Analyst: DY

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row for Gasoline Range Organics.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
 HOUSTON, TX 77054
 (713) 660-0901

Sample Receipt Checklist

Workorder:	05101332	Received By:	R_R
Date and Time Received:	10/28/2005 9:30:00 AM	Carrier name:	FedEx
Temperature:	5.0°C	Chilled by:	Blue Ice Pack

- 1. Shipping container/cooler in good condition? Yes No Not Present
- 2. Custody seals intact on shipping container/cooler? Yes No Not Present
- 3. Custody seals intact on sample bottles? Yes No Not Present
- 4. Chain of custody present? Yes No
- 5. Chain of custody signed when relinquished and received? Yes No
- 6. Chain of custody agrees with sample labels? Yes No
- 7. Samples in proper container/bottle? Yes No
- 8. Sample containers intact? Yes No
- 9. Sufficient sample volume for indicated test? Yes No
- 10. All samples received within holding time? Yes No
- 11. Container/Temp Blank temperature in compliance? Yes No
- 12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
- 13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

Historical Groundwater Data: Cumulative Summary of Groundwater Elevations
Texaco-Branded Station SAP No. 120598
13138 Interurban Avenue South, Tukwila, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
AGW-1 96.38	4/23/1997	9.63	0.00	0.00	86.75	--
	7/14/1997	12.20	0.00	0.00	84.18	-2.57
	10/22/1997	12.31	0.00	0.00	84.07	-0.11
	1/22/1998	10.30	0.00	0.00	86.08	2.01
	4/9/1998	12.04	0.00	0.00	84.34	-1.74
	7/14/1998	12.51	0.00	0.00	83.87	-0.47
	5/11/1999	13.17	0.00	0.00	83.21	-0.66
	11/3/1999	14.49	0.00	0.00	81.89	-1.32
	5/13/2000	11.90	0.00	0.00	84.48	2.59
	10/21/2000	12.55	0.00	0.00	83.83	-0.65
	4/12/2001	11.81	0.00	0.00	84.57	0.74
	10/9/2001	13.23	0.00	0.00	83.15	-1.42
	5/7/2002	11.63	0.00	0.00	84.75	1.60
	AGW-2 95.47	4/23/1997	9.76	0.00	0.00	85.71
7/14/1997		11.30	0.00	0.00	84.17	-1.54
10/22/1997		11.36	0.00	0.00	84.11	-0.06
1/22/1998		9.40	0.00	0.00	86.07	1.96
4/9/1998		11.18	0.00	0.00	84.29	-1.78
7/14/1998		11.67	0.00	0.00	83.80	-0.49
5/11/1999		12.25	0.00	0.00	83.22	-0.58
11/3/1999		13.53	0.00	0.00	81.94	-1.28
5/13/2000		11.03	0.00	0.00	84.44	2.50
10/21/2000		11.64	0.00	0.00	83.83	-0.61
4/12/2001		10.92	0.00	0.00	84.55	0.72
10/9/2001		12.35	0.00	0.00	83.12	-1.43
5/7/2002		--	--	--	--	--
AGW-3 96.39		4/23/1997	9.50	0.00	0.00	86.89
	7/14/1997	12.28	0.00	0.00	84.11	-2.78
	10/22/1997	12.35	0.00	0.00	84.04	-0.07
	1/22/1998	10.25	0.00	0.00	86.14	2.10
	4/9/1998	12.02	0.00	0.00	84.37	-1.77
	7/14/1998	12.49	0.00	0.00	83.90	-0.47
	5/11/1999	13.18	0.00	0.00	83.21	-0.69
	11/3/1999	14.60	0.00	0.00	81.79	-1.42
	5/13/2000	9.01	0.00	0.00	87.38	5.59
	10/21/2000	12.51	0.00	0.00	83.88	-3.50
	4/12/2001	11.72	0.00	0.00	84.67	0.79
	10/9/2001	13.19	0.00	0.00	83.20	-1.47
	5/7/2002	11.66	0.00	0.00	84.73	1.53

**Historical Groundwater Data: Cumulative Summary of Groundwater Elevations
 Texaco-Branded Station SAP No. 120598
 13138 Interurban Avenue South, Tukwila, Washington**

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
AGW-4 97.61	4/23/1997	10.95	0.00	0.00	86.66	-
	7/14/1997	13.70	0.00	0.00	83.91	-2.75
	10/22/1997	13.43	0.00	0.00	84.18	0.27
	1/22/1998	11.53	0.00	0.00	86.08	1.90
	4/9/1998	13.58	0.00	0.00	84.03	-2.05
	7/14/1998	14.02	0.00	0.00	83.59	-0.44
	5/11/1999	14.46	0.00	0.00	83.15	-0.44
	11/3/1999	15.88	0.00	0.00	81.73	-1.42
	5/13/2000	13.14	0.00	0.00	84.47	2.74
	10/21/2000	13.81	0.00	0.00	83.80	-0.67
	4/12/2001	13.00	0.00	0.00	84.61	0.81
	10/9/2001	14.48	0.00	0.00	83.13	-1.48
	5/7/2002	12.87	0.00	0.00	84.74	1.61
AGW-5 97.35	4/23/1997	10.52	0.00	0.00	86.83	-
	7/14/1997	13.25	0.00	0.00	84.10	-2.73
	10/22/1997	13.35	0.00	0.00	84.00	-0.10
	1/22/1998	11.20	0.00	0.00	86.15	2.15
	4/9/1998	13.00	0.00	0.00	84.35	-1.80
	7/14/1998	13.48	0.00	0.00	83.87	-0.48
	5/11/1999	14.19	0.00	0.00	83.16	-0.71
	11/3/1999	15.56	0.00	0.00	81.79	-1.37
	5/13/2000	12.87	0.00	0.00	84.48	2.69
	10/21/2000	13.45	0.00	0.00	83.90	-0.58
	4/12/2001	12.71	0.00	0.00	84.64	0.74
	10/9/2001	14.17	0.00	0.00	83.18	-1.46
	5/7/2002	12.62	0.00	0.00	84.73	1.55

TOC = Top of casing.
 DTW = Depth to water.
 DTFP = Depth to free product
 FPT = Free product thickness.
 SWL = Static water level.
 - = Not monitored.

Historical Groundwater Data: Cumulative Summary of Groundwater Sample Analytical Results
Texaco-Branded Station SAP No. 120598
13138 Interurban Avenue South, Tukwila, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethyl-benzene	Total Xylenes		
AGW-1	4/23/1997	728	113	0.65	47.5	439	--
	7/14/1997	425	53	ND	44.6	960	--
	10/22/1997	320	31.1	ND	13.9	ND	--
	1/22/1998	752	53.5	ND	28.1	ND	--
	4/9/1998	371	58.1	ND	ND	ND	--
	7/14/1998	309	16.8	ND	9.51	ND	--
	5/11/1999	429	8.75	<5.0	22.9	<500	<50
	11/3/1999	207	1.78	<0.5	7.86	75.1	--
	5/13/2000	262	0.96	0.87	8.15	<250	--
	10/21/2000	130	<2.50	<2.50	8.12	362	--
	4/12/2001	55.3	<0.500	<0.500	2.08	120	<1.00
	10/9/2001	1.91	<0.500	<0.500	6.34	96.0	<0.500
	5/7/2002	6.16	<0.500	0.706	15.1	116	--
AGW-2	4/23/1997	ND	ND	ND	ND	ND	--
	7/14/1997	ND	ND	ND	ND	ND	--
	10/22/1997	ND	ND	ND	ND	ND	--
	1/22/1998	ND	ND	ND	ND	ND	--
	4/9/1998	ND	ND	ND	ND	ND	--
	7/14/1998	ND	ND	ND	ND	ND	--
	5/11/1999	--	--	--	--	--	--
	11/3/1999	--	--	--	--	--	--
	5/13/2000	--	--	--	--	--	--
	10/21/2000	--	--	--	--	--	--
	4/12/2001	--	--	--	--	--	--
	10/9/2001	--	--	--	--	--	--
	5/7/2002	--	--	--	--	--	--
AGW-3	4/23/1997	12.8	0.591	ND	6.76	ND	--
	7/14/1997	38.9	1.6	0.504	18	363	--
	10/22/1997	6.35	1.14	ND	11.4	83.9	--
	1/22/1998	16.5	1.06	ND	5.68	65.9	--
	4/9/1998	12.2	ND	ND	12.4	ND	--
	7/14/1998	ND	1.24	ND	11.2	79.5	--
	5/11/1999	5.65	0.93	<0.5	10.4	<50	<25
	11/3/1999	<3.38	1.51	<0.5	3.79	72.1	--
	5/13/2000	14.6	1.69	0.70	9.3	92.1	--
	10/21/2000	<2.53	<0.660	<0.500	2.46	189	--
	4/12/2001	0.978	0.752	<0.500	3.58	83.9	<1.00
	10/9/2001	1.60	<0.500	<0.500	2.16	242	--
	5/7/2002	3.37	0.651	<0.500	4.28	258	--

**Historical Groundwater Data: Cumulative Summary of Groundwater Sample Analytical Results
 Texaco-Branded Station SAP No. 120598
 13138 Interurban Avenue South, Tukwila, Washington**

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethyl-benzene	Total Xylenes		
AGW-4	4/23/1997	--	--	--	--	--	--
	7/14/1997	--	--	--	--	--	--
	10/22/1997	--	--	--	--	--	--
	1/22/1998	--	--	--	--	--	--
	4/9/1998	--	--	--	--	--	--
	7/14/1998	--	--	--	--	--	--
	5/11/1999	9,830	10,500	3,440	22,200	129,000	<2,500
	11/3/1999	8,280	5,600	2,320	13,800	86,300	--
	5/13/2000	9,000	4,550	2,560	15,100	74,300	--
	10/21/2000	8,930	3,830	2,320	13,200	68,700	--
	4/12/2001	4,090	634	1,070	5,650	28,100	<1.00
	10/9/2001	9,570	4,200	3,520	20,900	100,000	<0.500
	5/7/2002	8,010	1,500	2,370	12,600	70,600	--
AGW-5	4/23/1997	ND	ND	ND	ND	ND	--
	7/14/1997	ND	ND	ND	ND	ND	--
	10/22/1997	ND	ND	ND	ND	ND	--
	1/22/1998	ND	ND	ND	ND	ND	--
	4/9/1998	ND	ND	ND	ND	ND	--
	7/14/1998	ND	ND	ND	ND	ND	--
	5/11/1999	--	--	--	--	--	--
	11/3/1999	--	--	--	--	--	--
	5/13/2000	--	--	--	--	--	--
	10/21/2000	--	--	--	--	--	--
	4/12/2001	--	--	--	--	--	--
	10/9/2001	--	--	--	--	--	--
	5/7/2002	--	--	--	--	--	--
Current Quarter Quality Assurance/Quality Control Samples							
AGW-4 (Duplicate)		9,410	1,760	2,820	14,800	74,300	--
Trip Blank		<0.500	<0.500	<0.500	<1.00	<50.0	--

µg/L = Micrograms per liter; approximate parts per billion.

-- = Not sampled or not analyzed.

TPH-G = Analytical Method changed to NW-TPH-Gx in 2000.

Benzene, toluene, ethylbenzene, and total xylene (BTEX) analysis by EPA 8021B.

ND = Not detected at a concentration above laboratory method reporting limit as previously reported by others.

The exact laboratory method reporting limits were not available to SECOR.

Historical Groundwater Data: Summary of Volatile Organic Compounds Analytical Results
Texaco Station SAP No. 120598
13138 Interurban Avenue, Tukwila, WA

Well Number	Sample Date	Ethanol (mg/L)	1,2-Dibromoethane (mg/L)	1,2-Dichloroethane (mg/L)	Diisopropyl Ether (mg/L)	Ethyl tert-butyl ether (mg/L)	Methyl tert-butyl ether (mg/L)	tert-Amyl Methyl Ether (mg/L)	tert-Butyl Alcohol (mg/L)
AGW-1	10/09/01	--	--	--	<1.00	<1.00	<0.500	2.21	<50.0
AGW-4	10/09/01	--	--	--	<1.00	<1.00	<0.500	<1.00	<50.0

µg/L = Micrograms per liter; approximate parts per billion.

-- = Not sampled or not analyzed.

