

GROUNDWATER MONITORING REPORT SECOND QUARTER 2006

Former Texaco Service Station
2523 Pacific Ave
Tacoma, Washington

GEOENGINEERS 

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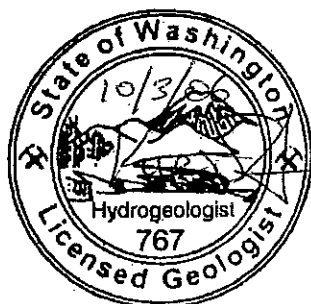
Report date:	October 4, 2006
GeoEngineers file no.:	9876-095-02
SAP Number :	121007
Client:	Carol Campagna, Shell Oil Products US 20945 S. Wilmington Avenue, Carson, CA 90810
GeoEngineers project manager:	Tony N. Orme, PE
Sample date:	May 18, 2006
Wells gauged:	MW-1, MW-7, MW-10 through MW-12
Free product (well/thickness):	N/A
Groundwater flow direction:	Northwest
Direction similar to previous events?:	Yes
Wells sampled:	MW-1, MW-7, MW-10 through MW-12
Purge/sample methods:	No purge, sample by hand bailing techniques
Chemical testing:	NWTPH-G and BETX by EPA 8021B
Results similar to previous events?:	Yes
Monitoring event frequency:	Semiannually
Notes:	Detected concentrations of analytes in all sampled wells were similar to historical detected concentrations.

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OCT 06 2006

Washington State
Department of Ecology

Prepared by:



Kurt S. Anderson

Kurt S. Anderson, LG, LRG
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: Groundwater Elevations
Historical Groundwater Data: Groundwater Sample Analytical Results
Wellhead Inspection Checklist

Distribution:

Client (one copy)

Carol Johnston
Washington State Department of Ecology (Southwest Regional Office)

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TABLE 1
SUMMARY OF GROUNDWATER MONITORING DATA
BETX, MTBE, AND GASOLINE-RANGE HYDROCARBONS
2523 PACIFIC AVENUE
TACOMA, WASHINGTON

Well Number	Date	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Volatile Aromatic Hydrocarbons (µg/l)				Gasoline-range Hydrocarbons (mg/l)	MTBE (µg/l)
				B	E	T	X		
MW-1	02/14/01	34.11	40.89	60.3	65.0	10.3	170	2.98	--
	07/26/01	34.25	40.75	53.4	42.8	7.03	88.3	2.59	<5.00
	03/26/02	15.26	59.74	<0.500	<0.500	<0.500	<1.00	<0.0500	--
	10/14/02	34.72	40.28	27	37	3.8	45	2	<1
	04/30/03	33.52	41.48	40	20	2.2	22.6	0.82	<1
	10/24/03	33.78	41.22	27	2.5	1.5	41	0.72	--
	04/01/04	33.58	41.42	30	24	1.6	17.3	0.71	--
	10/07/04	34.30	40.70	36	14	3.6	65.2	1.2	--
	04/21/05	33.25	41.75	14	2.9	<1	8.5	0.45	--
	10/07/05	34.56	40.44	10	<1	<1	2.5	0.26	--
	05/18/06	32.92	42.08	13.7	3.59	0.562	3.02	0.36	--
MW-7	02/14/01	29.20	45.33	<0.910	<0.500	<0.500	<2.57	0.121	--
	07/26/01	--	--	--	--	--	--	--	--
	03/26/02	16.39	58.14	73.9	83.6	7.03	198	5.53	--
	10/14/02	31.49	43.04	<1	30	1.4	51	0.74	<1
	04/30/03	17.04	57.49	2.1	4.9	<1	14.5	<0.25	<1
	10/24/03	16.51	58.02	<1	<1	<1	<1	<0.25	--
	04/01/04	19.57	54.96	3.7	16	1.1	48.5	0.86	--
	10/07/04	29.17	45.36	<1	52	3.1	72	2	--
	04/21/05	15.29	59.24	<1	<1	<1	<1	0.13	--
	10/07/05	31.84	42.69	1.9	26	2.4	29.5	0.76	--
	05/18/06	20.92	53.61	5.81	0.774	0.568	3.61	0.847	--
MW-10	02/14/01	--	--	--	--	--	--	--	--
	07/26/01	--	--	--	--	--	--	--	--
	03/26/02	--	--	--	--	--	--	--	--
	10/14/02	26.13	47.93	<1	<1	<1	<1	<0.25	<1
	04/30/03	22.96	51.10	<1	<1	<1	<1	<0.25	<1
	10/24/03	20.99	53.07	<1	<1	<1	<1	<0.25	--
	04/01/04	23.63	50.43	<1	<1	<1	<1	<0.25	--
	10/07/04	22.83	51.23	<1	<1	<1	<1	<0.25	--
	04/21/05	21.48	52.58	<1	<1	<1	<1	<0.05	--
	10/07/05	27.86	46.20	<1	<1	<1	<1	<0.05	--
	05/18/06	23.61	50.45	<0.500	<0.500	<0.500	<1	<0.05	--
MTCA Method A Cleanup Level				5.0	700	1,000	1,000	0.8	20

Well Number	Date	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Volatile Aromatic Hydrocarbons (µg/l)				Gasoline-range Hydrocarbons (mg/l)	MTBE (µg/l)
				B	E	T	X		
MW-11	02/14/01	--	--	--	--	--	--	--	--
	07/26/01	18.85	55.40	40.0	140	9.66	343	6.59	<5.00
	03/26/02	--	--	--	--	--	--	--	--
	10/14/02	22.57	51.68	<5	170	8	538	7.3	<5
	04/30/03	17.45	56.80	27	7.8	<1	7.6	0.58	<1
	10/34/03	16.89	57.36	<1	22	1.1	48	0.88	--
	04/01/04	17.64	56.61	15	6.8	<1	12	0.5	--
	10/07/04	18.88	55.37	35	89	<5	206	3.9	--
	04/21/05	16.47	57.78	<1	1.2	<1	1.6	0.2	--
	10/07/05	23.35	50.90	<1	81	5.5	151	5.1	--
	05/18/06	18.73	55.52	33.5	67.3	3.24	124	4.89	--
MW-12	02/14/01	--	--	--	--	--	--	--	--
	07/26/01	--	--	--	--	--	--	--	--
	03/26/02	45.08	27.55	4.73	<0.500	<0.500	1.20	0.0530	--
	10/14/02	45.41	27.22	3.5	<1	<1	<1	<0.25	<1
	04/30/03	45.58	27.05	2.7	<1	<1	<1	<0.25	<1
	10/24/03	45.67	26.96	1.6	<1	<1	<1	<0.25	--
	04/01/04	45.73	26.90	1.4	<1	<1	<1	<0.25	--
	10/07/04	45.92	26.71	<1	<1	<1	<1	<0.25	--
	04/21/05	45.92	26.71	<1	<1	<1	<1	<0.05	--
	10/07/05	46.00	26.63	<1	<1	<1	<1	<0.05	--
	05/18/06	45.83	26.80	<0.500	<0.500	<0.500	<1	<0.05	--
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. Analyzed using EPA Method 8021B.

Gasoline-range hydrocarbons analyzed using NWTPH-G_x or WTPH-G.

MTBE = methyl tert-butyl ether. Analyzed using EPA Method 8021B.

Surrogate 1,4-Difluorobenzene recovery outside advisable QC limits and matrix interference for gasoline-range hydrocarbons sample for MW-7 obtained on 10/07/04.

µg/l = micrograms per liter; mg/l = milligrams per liter; ppm = parts per million

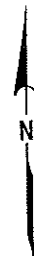
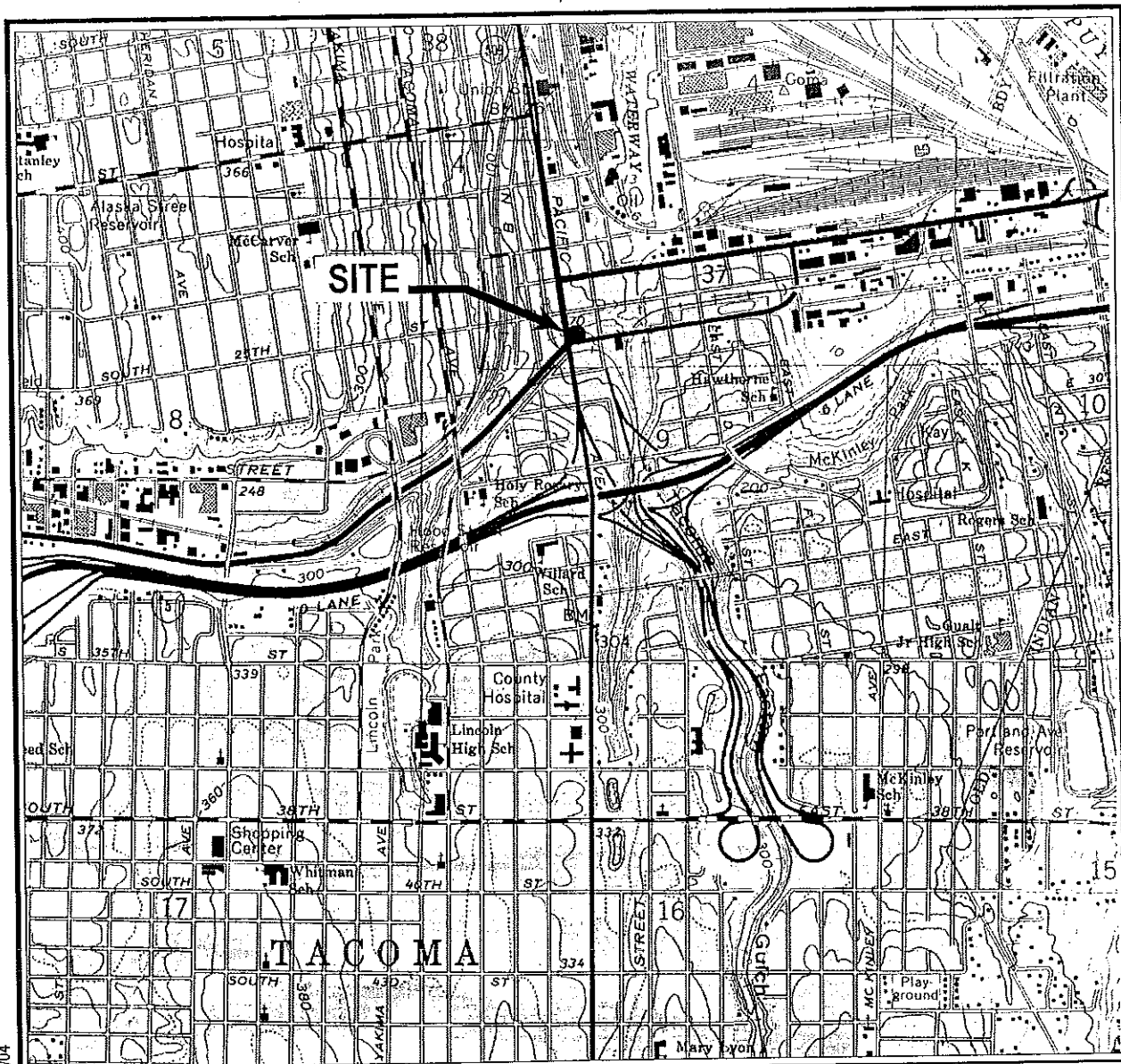
MTCA = Model Toxics Control Act

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10/27/04

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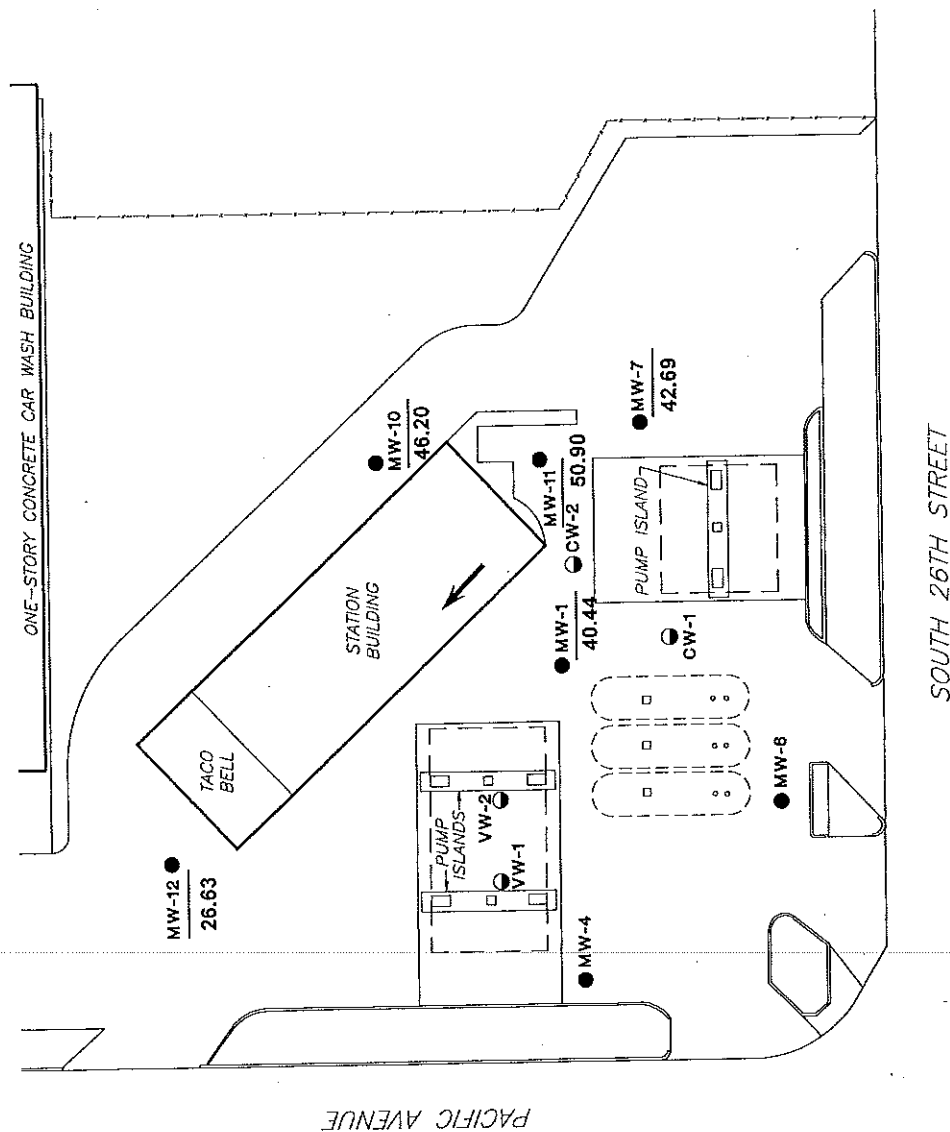
Shell Service Station No. 121526
2523 Pacific Avenue
Tacoma, Washington

Reference: USGS 7.5' minute series (topographic), South Tacoma, Washington, 1994

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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.

Reference: Drawing entitled "Groundwater Elevation Contour and Analytical Results (3/26/02), Former Shell Service Station SAP#121007" dated 05/08/02, by Secor.



SITE PLAN AND GROUNDWATER FLOW

FIGURE 2

May 25, 2006

Tony Orme
Geo Engineers - Redmond
8410 154th Ave NE
Redmond, WA/USA 98052

RE: Shell #121007

Enclosed are the results of analyses for samples received by the laboratory on 05/19/06 14:45.
The following list is a summary of the Work Orders contained in this report, generated on 05/25/06 12:53.

If you have any questions concerning this report, please feel free to contact me.

<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
BPE0634	Shell #121007	9876-095-02

TestAmerica - Seattle, WA

Jeff Gerdes

Jeff Gerdes, Project Manager

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.



Geo Engineers - Redmond

8410 154th Ave NE
Redmond, WA/USA 98052

Project Name: **Shell #121007**

Project Number: **9876-095-02**

Project Manager: **Tony Orme**

Report Created:

05/25/06 12:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	BPE0634-01	Water	05/18/06 13:45	05/19/06 14:45
MW-7	BPE0634-02	Water	05/18/06 13:55	05/19/06 14:45
MW-10	BPE0634-03	Water	05/18/06 14:05	05/19/06 14:45
MW-11	BPE0634-04	Water	05/18/06 14:15	05/19/06 14:45
MW-12	BPE0634-05	Water	05/18/06 14:30	05/19/06 14:45

TestAmerica - Seattle, WA

Jeff Gerdes

Jeff Gerdes, Project Manager

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Geo Engineers - Redmond	Project Name: Shell #121007	Report Created:
8410 154th Ave NE	Project Number: 9876-095-02	05/25/06 12:53
Redmond, WA/USA 98052	Project Manager: Tony Orme	

Volatile Petroleum Products by NWTPH-Gx

TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPE0634-01 (MW-1)		Water		Sampled: 05/18/06 13:45						
Gasoline Range Hydrocarbons	NWTPH-Gx	360	----	50.0	ug/l	1x	6E22023	05/22/06 11:15	05/22/06 22:37	
Surrogate(s): 4-BFB (FID)		95.7%		58 - 144 % "						
BPE0634-02 (MW-7)		Water		Sampled: 05/18/06 13:55						
Gasoline Range Hydrocarbons	NWTPH-Gx	847	----	50.0	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 04:16	
Surrogate(s): 4-BFB (FID)		104%		58 - 144 % "						
BPE0634-03 (MW-10)		Water		Sampled: 05/18/06 14:05						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 04:47	
Surrogate(s): 4-BFB (FID)		90.7%		58 - 144 % "						
BPE0634-04 (MW-11)		Water		Sampled: 05/18/06 14:15						
Gasoline Range Hydrocarbons	NWTPH-Gx	4890	----	50.0	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 08:23	
Surrogate(s): 4-BFB (FID)		180%		58 - 144 % "						SR-4
BPE0634-05 (MW-12)		Water		Sampled: 05/18/06 14:30						
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	----	50.0	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 07:21	
Surrogate(s): 4-BFB (FID)		88.3%		58 - 144 % "						

TestAmerica - Seattle, WA

Jeff Gerdes

Jeff Gerdes, Project Manager

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Geo Engineers - Redmond	Project Name: Shell #121007	Report Created:
8410 154th Ave NE	Project Number: 9876-095-02	05/25/06 12:53
Redmond, WA/USA 98052	Project Manager: Tony Orme	

BTEX by EPA Method 8021B
 TestAmerica - Seattle, WA

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
BPE0634-01 (MW-1)		Water						Sampled: 05/18/06 13:45		
Benzene	EPA 8021B	13.7	----	0.500	ug/l	1x	6E22023	05/22/06 11:15	05/22/06 22:37	
Toluene	"	0.562	----	0.500	"	"	"	"	"	
Ethylbenzene	"	3.59	----	0.500	"	"	"	"	"	
Xylenes (total)	"	3.02	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		99.3%				68 - 140 %	"			"
BPE0634-02 (MW-7)		Water						Sampled: 05/18/06 13:55		
Benzene	EPA 8021B	5.81	----	0.500	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 04:16	
Toluene	"	0.568	----	0.500	"	"	"	"	"	
Ethylbenzene	"	0.774	----	0.500	"	"	"	"	"	
Xylenes (total)	"	3.61	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		90.8%				68 - 140 %	"			"
BPE0634-03 (MW-10)		Water						Sampled: 05/18/06 14:05		
Benzene	EPA 8021B	ND	----	0.500	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 04:47	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		101%				68 - 140 %	"			"
BPE0634-04 (MW-11)		Water						Sampled: 05/18/06 14:15		
Benzene	EPA 8021B	33.5	----	0.500	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 08:23	
Toluene	"	3.24	----	0.500	"	"	"	"	"	
Ethylbenzene	"	67.3	----	0.500	"	"	"	"	"	
Xylenes (total)	"	124	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		99.7%				68 - 140 %	"			"
BPE0634-05 (MW-12)		Water						Sampled: 05/18/06 14:30		
Benzene	EPA 8021B	ND	----	0.500	ug/l	1x	6E22023	05/22/06 11:15	05/23/06 07:21	
Toluene	"	ND	----	0.500	"	"	"	"	"	
Ethylbenzene	"	ND	----	0.500	"	"	"	"	"	
Xylenes (total)	"	ND	----	1.00	"	"	"	"	"	
Surrogate(s): 4-BFB (PID)		102%				68 - 140 %	"			"

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Jeff Gerdes

Jeff Gerdes, Project Manager



Geo Engineers - Redmond	Project Name: Shell #121007	Report Created:
8410 154th Ave. NE	Project Number: 9876-095-02	05/25/06 12:53
Redmond, WA/USA 98052	Project Manager: Tony Orme	

Volatile Petroleum Products by NWTPH-Gx - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6E22023 **Water Preparation Method:** EPA 5030B (P/T)

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes	
QC Batch: 05/22/06 11:15															
Blank (6E22023-BLK1)										Extracted:		05/22/06 11:15			
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	--	--	--	--	--	--	05/22/06 12:22		
Surrogate(s): 4-BFB (FID)		Recovery:	86.5%	Limits: 58-144%		"		05/22/06 12:22							
LCS (6E22023-BS1)										Extracted:		05/22/06 11:15			
Gasoline Range Hydrocarbons	NWTPH-Gx	955	---	50.0	ug/l	1x	--	1000	95.5%	(80-120)	--	--	05/22/06 15:21		
Surrogate(s): 4-BFB (FID)		Recovery:	94.3%	Limits: 58-144%		"		05/22/06 15:21							
Duplicate (6E22023-DUP1)										QC Source:		BPE0607-01		Extracted: 05/22/06 11:15	
Gasoline Range Hydrocarbons	NWTPH-Gx	ND	---	50.0	ug/l	1x	ND	--	--	--	NR (25)	--	05/22/06 13:28		
Surrogate(s): 4-BFB (FID)		Recovery:	87.3%	Limits: 58-144%		"		05/22/06 13:28							
Duplicate (6E22023-DUP2)										QC Source:		RPE0634-01		Extracted: 05/22/06 11:15	
Gasoline Range Hydrocarbons	NWTPH-Gx	363	---	50.0	ug/l	1x	360	--	--	--	0.830% (25)	--	05/22/06 22:06		
Surrogate(s): 4-BFB (FID)		Recovery:	95.3%	Limits: 58-144%		"		05/22/06 22:06							
Matrix Spike (6E22023-MS1)										QC Source:		BPE0607-01		Extracted: 05/22/06 11:15	
Gasoline Range Hydrocarbons	NWTPH-Gx	1100	---	50.0	ug/l	1x	ND	1000	110%	(75-131)	--	--	05/22/06 18:16		
Surrogate(s): 4-BFB (FID)		Recovery:	97.8%	Limits: 58-144%		"		05/22/06 18:16							

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Jeff Gerdes

Jeff Gerdes, Project Manager



Geo Engineers - Redmond	Project Name: Shell #121007	Report Created:
8410 154th Ave NE	Project Number: 9876-095-02	05/25/06 12:53
Redmond, WA/USA 98052	Project Manager: Tony Orme	

BTEX by EPA Method 8021B - Laboratory Quality Control Results
 TestAmerica - Seattle, WA

QC Batch: 6E22023	Water Preparation Method: EPA 5030B (P/T)
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Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
---------	--------	--------	------	-----	-------	-----	---------------	-----------	-------	----------	-------	----------	----------	-------

Blank (6E22023-BLK1)													
										Extracted: 05/22/06 11:15			
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	--	--	--	--	--	--	05/22/06 12:22
Toluene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"
Ethylbenzene	"	ND	---	0.500	"	"	--	--	--	--	--	--	"
Xylenes (total)	"	ND	---	1.00	"	"	--	--	--	--	--	--	"
Surrogate(s): 4-BFB (PID) Recovery: 99.2% Limits: 68-140% "													

LCS (6E22023-BS1)													
										Extracted: 05/22/06 11:15			
Benzene	EPA 8021B	11.1	---	0.500	ug/l	1x	--	9.65	115%	(80-120)	--	--	05/22/06 15:21
Toluene	"	69.9	---	0.500	"	"	--	83.5	83.7%	"	--	--	"
Ethylbenzene	"	14.8	---	0.500	"	"	--	16.7	88.6%	"	--	--	"
Xylenes (total)	"	81.4	---	1.00	"	"	--	96.3	84.5%	"	--	--	"
Surrogate(s): 4-BFB (PID) Recovery: 92.8% Limits: 68-140% "													

Duplicate (6E22023-DUP1)													
										QC Source: BPE0607-01 Extracted: 05/22/06 11:15			
Benzene	EPA 8021B	ND	---	0.500	ug/l	1x	ND	--	--	--	NR (25)	--	05/22/06 13:28
Toluene	"	ND	---	0.500	"	"	ND	--	--	--	"	--	"
Ethylbenzene	"	ND	---	0.500	"	"	ND	--	--	--	NR	--	"
Xylenes (total)	"	ND	---	1.00	"	"	ND	--	--	--	"	--	"
Surrogate(s): 4-BFB (PID) Recovery: 99.2% Limits: 68-140% "													

Duplicate (6E22023-DUP2)													
										QC Source: BPE0634-01 Extracted: 05/22/06 11:15			
Benzene	EPA 8021B	13.9	---	0.500	ug/l	1x	13.7	--	--	--	1.45% (25)	--	05/22/06 22:06
Toluene	"	0.589	---	0.500	"	"	0.562	--	--	--	4.69%	--	"
Ethylbenzene	"	3.62	---	0.500	"	"	3.59	--	--	--	0.832%	--	"
Xylenes (total)	"	3.04	---	1.00	"	"	3.02	--	--	--	0.660%	--	"
Surrogate(s): 4-BFB (PID) Recovery: 99.2% Limits: 68-140% "													

Matrix Spike (6E22023-MS1)													
										QC Source: BPE0607-01 Extracted: 05/22/06 11:15			
Benzene	EPA 8021B	11.7	---	0.500	ug/l	1x	ND	9.65	121%	(46-130)	--	--	05/22/06 18:16
Toluene	"	73.8	---	0.500	"	"	ND	83.5	88.4%	(60-124)	--	--	"
Ethylbenzene	"	15.6	---	0.500	"	"	ND	16.7	93.4%	(56-141)	--	--	"
Xylenes (total)	"	86.3	---	1.00	"	"	ND	96.3	89.6%	(66-132)	--	--	"
Surrogate(s): 4-BFB (PID) Recovery: 91.3% Limits: 68-140% "													

TestAmerica - Seattle, WA

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.

Jeff Gerdes

Jeff Gerdes, Project Manager



Geo Engineers - Redmond

8410 154th Ave NE
Redmond, WA/USA 98052

Project Name: **Shell #121007**

Project Number: 9876-095-02

Project Manager: Tony Orme

Report Created:

05/25/06 12:53

Notes and Definitions

Report Specific Notes:

SR-4 - Due to sample matrix effects, the surrogate recovery was outside laboratory control limits.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B.
*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.
Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.
Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica - Seattle, WA

Jeff Gerdcs

Jeff Gerdcs, Project Manager

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.



TEST AMERICA

11720 North Creek Pkwy #400, Redmond, WA

9405 S.W. Nimbus Ave., Beaverton, OR 97008

8411115 Montgomery, Suite B, Spokane, WA 99206



Shell Oil Products US Chain Of Custody Record

SOP US Project Manager to be invoiced:

☐ SCIENCE & ENGINEERING☐ TECHNICAL SERVICES☐ CRUIT HOUSTON☐ BILL CONSULTANT

NAME OF PM TO BILL: CAROL CAMPAGNA

DATE: 5-18-06

NAME OF TS TO BILL: TONY ORME

PAGE: 1 of 1

CONSULTANT COMPANY:

GEOENGINEERS

ADDRESS: 8410 159TH AVE. NE.

CITY: REDMOND, WA. 98052

TELEPHONE: 425-861-6000 FAX: 425-861-6050

E-MAIL: TONY.ORME@GEOENGINEERS.COM

TURNAROUND TIME (CALENDAR DAYS): 5 DAYS

TEMPERATURE ON RECEIPT °C

SITE ADDRESS (Street and City):

2523 PACIFIC AVE., TACOMA, WA.

PROJECT CONTACT (Name and Title):

TONY ORME

SUPPLIER NAME (Name and Title):

BRIAN ANDERSON

CONSULTANT PROJECT NO.: 9876-095-02

DATE OF ANALYSIS: 5-18-06

REQUESTED ANALYSIS (If more than one method is listed, circle one)

RESULTS NEEDED ON WEEKEND

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DATE SUBMITTAL: While with final report. Green to PM, Yellow and Pink to Client.

05/101 Revision

38.0

Historical Groundwater Data: Cumulative Summary of Groundwater Elevations
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
MW-1 75.00	01/14/98	33.27	0.00	0.00	41.73	--
	02/18/99	34.35	0.00	0.00	40.65	-1.08
	07/07/99	34.03	0.00	0.00	40.97	0.32
	03/23/00	33.37	0.00	0.00	41.63	0.66
	08/13/00	34.43	0.00	0.00	40.57	-1.06
	02/14/01	34.11	0.00	0.00	40.89	0.32
	07/26/01	34.25	0.00	0.00	40.75	-0.14
	03/26/02	15.26	0.00	0.00	59.74	18.99
MW-2 73.14	01/14/98	43.61	0.00	0.00	29.53	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
	07/26/01	Well Destroyed				
MW-3 74.71	01/14/98	30.52	0.00	0.00	44.19	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
	07/26/01	Well Destroyed				
MW-4 73.98	01/14/98	31.66	0.00	0.00	42.32	--
	02/18/99	31.02	0.00	0.00	42.96	0.64
	07/07/99	32.31	0.00	0.00	41.67	-1.29
	03/23/00	31.73	0.00	0.00	42.25	0.58
	08/13/00	32.69	0.00	0.00	41.29	-0.96
	02/14/01	32.40	0.00	0.00	41.58	0.29
	07/26/01	32.53	0.00	0.00	41.45	-0.13
	03/26/02	31.47	0.00	0.00	42.51	1.06

Historical Groundwater Data: Cumulative Summary of Groundwater Elevations
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
MW-5 68.10	01/14/98	29.21	0.00	0.00	38.89	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
	07/26/01	Well Destroyed				--
MW-6 76.56	01/14/98	34.01	0.00	0.00	42.55	--
	02/18/99	33.50	0.00	0.00	43.06	0.51
	07/07/99	34.45	0.00	0.00	42.11	-0.95
	03/23/00	33.61	0.00	0.00	42.95	0.84
	08/13/00	35.67	0.00	0.00	40.89	-2.06
	02/14/01	34.18	0.00	0.00	42.38	1.49
	07/26/01	34.65	0.00	0.00	41.91	-0.47
	03/26/02	33.52	0.00	0.00	43.04	1.13
MW-7 74.53	01/14/98	30.08	0.00	0.00	44.45	--
	02/18/99	21.20	0.00	0.00	53.33	8.88
	07/07/99	28.87	0.00	0.00	45.66	-7.67
	03/23/00	18.90	0.00	0.00	55.63	9.97
	08/13/00	31.27	0.00	0.00	43.26	-12.37
	02/14/01	29.20	0.00	0.00	45.33	2.07
	07/26/01	--	--	--	--	--
	03/26/02	16.39	0.00	0.00	58.14	--
MW-8 71.53	01/14/98	40.03	0.00	0.00	31.50	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
	07/26/01	Well Destroyed				--

Historical Groundwater Data: Cumulative Summary of Groundwater Elevations
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number/ TOC Elevation	Date of Measurement	DTW (feet)	DTFP (feet)	FPT (feet)	SWL (feet)	Change in SWL (feet)
MW-9 74.69	01/14/98	16.80	0.00	0.00	57.89	--
	02/18/99	--	--	--	--	--
	07/07/99	--	--	--	--	--
	03/23/00	--	--	--	--	--
	08/13/00	--	--	--	--	--
	02/14/01	--	--	--	--	--
	07/26/01	Well Destroyed				--
MW-10 74.06	08/13/00	23.29	0.00	0.00	50.77	--
	02/14/01	--	--	--	--	--
	07/26/01	--	--	--	--	--
	03/26/02	--	--	--	--	--
MW-11 74.25	08/13/00	20.78	0.00	0.00	53.47	--
	02/14/01	--	--	--	--	--
	07/26/01	18.85	0.00	0.00	55.40	--
	03/26/02	--	--	--	--	--
MW-12 72.63	08/13/00	44.08	--	--	28.55	--
	02/14/01	--	--	--	--	--
	07/26/01	--	--	--	--	--
	03/26/02	45.08	0.00	0.00	27.55	--

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
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethyl-benzene	Total Xylenes		
MW-1	01/23/97	33	12	65	519	10,300	--
	01/15/98	189	19	76	528	8,880	29
	02/18/99	105	20.6	62	187	3,410	<25.0
	07/07/99	7.4	0.946	4.18	13.4	333	--
	03/23/00	70.6	6.6	38	95.5	1,490	--
	08/13/00	48.3	7.35	32.4	75.1	4,090	11.8
	02/14/01	60.3	10.3	65.0	170	2,980	--
	07/26/01	53.4	7.03	42.8	88.3	2,590	<5.00
	03/26/02	<0.500	<0.500	<0.500	<1.00	<50.0	--
MW-2	01/23/97	2.9	3.6	2.4	3.6	139	--
	01/15/98	0.53	ND	ND	ND	54	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
	07/26/01	Well Destroyed					
MW-3	01/23/97	1.4	1.3	1.6	18	473	--
	01/15/98	14	1.4	2.2	14	806	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
	07/26/01	Well Destroyed					
MW-4	01/23/97	ND	ND	ND	ND	ND	--
	01/15/98	3.5	ND	ND	ND	139	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
	07/26/01	--	--	--	--	--	--
	03/26/02	--	--	--	--	--	--

Historical Groundwater Data: Cumulative Summary of Groundwater Sample Analytical Results
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethyl-benzene	Total Xylenes		
MW-5	01/23/97	ND	ND	ND	ND	156	--
	01/15/98	1.6	ND	ND	2.1	112	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
	07/26/01	Well Destroyed					
MW-6	01/23/97	ND	ND	ND	ND	ND	--
	01/15/98	35	ND	ND	ND	66	ND
	02/18/99	<0.5	2.59	<0.5	<1.0	85.9	<5.00
	07/07/99	6.41	<0.5	<0.5	<1.0	<50	--
	03/23/00	<0.5	<0.5	<0.5	<1.0	<50	--
	08/13/00	<0.5	<0.5	<0.5	1.0	<50	<5.00
	02/14/01	<0.500	<0.500	<0.500	<1.00	<50.0	--
	07/26/01	<0.500	<0.500	<0.500	<1.00	<50.0	--
MW-7	03/26/02	<0.500	<0.500	<0.500	<1.00	<50.0	--
	01/23/97	16	14	113	308	7,860	--
	01/15/98	88	12	101	271	5,170	ND
	02/18/99	2.87	18.5	67	176	3,020	<25.0
	07/07/99	20	16.9	143	425	6,700	--
	03/23/00	85.1	20.1	150	418	3,370	--
	08/13/00	<3.37	13.9	146	363	5,280	<25.0
	02/14/01	<0.910	<0.500	<0.500	<2.57	121	--
MW-8	07/26/01	--	--	--	--	--	--
	03/26/02	73.9	7.03	83.6	198	5,530	--
	01/23/97	0.91	ND	ND	ND	ND	--
	01/15/98	ND	ND	0.73	ND	68	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
	07/26/01	Well Destroyed					

Historical Groundwater Data: Cumulative Summary of Groundwater Sample Analytical Results
Former Shell Station SAP No. 121007
2523 Pacific Avenue, Tacoma, Washington

Well Number	Sample Date	BTEX (µg/L)				TPH-G (µg/L)	MTBE (µg/L)
		Benzene	Toluene	Ethylbenzene	Total Xylenes		
MW-9	01/23/97	ND	14	31	174	2,870	--
	01/15/98	10	10	80	271	2,050	ND
	02/18/99	--	--	--	--	--	--
	07/07/99	--	--	--	--	--	--
	03/23/00	--	--	--	--	--	--
	08/13/00	--	--	--	--	--	--
	02/14/01	--	--	--	--	--	--
	07/26/01	Well Destroyed					
MW-10	07/26/01	--	--	--	--	--	--
	03/26/02	--	--	--	--	--	--
MW-11	07/26/01	40.0	9.66	140	343	6,590	<5.00
	03/26/02	--	--	--	--	--	--
MW-12	07/26/01	--	--	--	--	--	--
	03/26/02	4.73	<0.500	<0.500	1.20	53.0	--
Current Quarter Quality Assurance/Quality Control Samples							
MW-1 (Duplicate)		<0.500	<0.500	<0.500	<1.00	<50.0	--
Trip Blank		--	--	--	--	--	--

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.

MTBE = Methyl tert-butyl ether.

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.

WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client

Shell

Inspection Date

5-18-06

Site Address

2523 PACIFIC AVE
TACOMA, WA.

Inspected By

JBA

1. Lid on box?	6. Casing secure?	12. Water standing in wellbox?	15. Well cap functional?
2. Lid broken?	7. Casing cut level?	12a. Standing above the top of casing?	16. Can cap be pulled loose?
3. Lid bolts missing?	8. Debris in wellbox?	12b. Standing below the top of casing?	17. Can cap seal out water?
4. Lid bolts stripped?	9. Wellbox is too far above grade?	12c. Water even with the top of casing?	18. Padlock present?
5. Lid seal intact?	10. Wellbox is too far below grade?	13. Well cap present?	19. Padlock functional?
	11. Wellbox is crushed/damaged?	14. Well cap found secure?	



Check box if no deficiencies were found. Note below deficiencies you were able to correct.

Well I.D.

Deficiency

Corrective Action Taken

[illegible]

Note below all deficiencies that could not be corrected and still need to be corrected.

[illegible]