



April 25, 2002

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Greater Bay Trust Company
Hanson, Bridgett, Marcus, Vlahos & Rudy
333 Market Street, Suite 2300
San Francisco, California 94105-2173

Attention: Rory Campbell, Esq.

**QUARTERLY GROUNDWATER MONITORING
NOVEMBER 2001 QUARTERLY EVENT
FORMER COX CADILLAC FACILITY
230 BAY PLACE
OAKLAND, CALIFORNIA**

Dear Mr. Campbell:

This report presents the results of groundwater monitoring conducted by PES Environmental, Inc. (PES) on November 20, 2001 at the former Bill Cox Cadillac facility at 230 Bay Place, Oakland, California. The work is being performed as part of a response action to address releases from a former 10,000-gallon gasoline underground storage tank (UST) operated at the site by Bill Cox Cadillac. The location of the site is shown on Plate 1. The work was performed on behalf of Greater Bay Trust Company, trustee for the Robert Shepard Trust, Brian F. Shepard Trust, Douglas C. Shepard Trust, and the Lisa C. Shepard Trust, the former owners of the property. The current owner of the site is Avalon Bay Communities.

In a letter to The Greater Bay Trust Company dated April 6, 2001, ACEHS requested that groundwater monitoring at the site be continued. The objective of the groundwater monitoring program at this site is to evaluate the presence of petroleum hydrocarbons in groundwater. The monitoring is performed in accordance with California Regional Water Quality Control Board (RWQCB) guidelines.

BACKGROUND INFORMATION

One groundwater monitoring well (Well MW-1) and seven temporary monitoring wells (Wells TW-1 through TW-7) were installed at the site by PES in 1993 to investigate subsurface conditions following removal of a 3,000-gallon waste oil storage tank in December 1988.

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MW-1 was installed in February 1993 down gradient of the former waste oil tank and a groundwater sample was collected from it in March 1993. Elevated concentrations of total petroleum hydrocarbons quantified as gasoline (TPHg) were detected in the sample analyzed from Well MW-1. Gasoline detected in groundwater was characterized as "fresh" and no waste oil constituents were detected. Temporary wells, Wells TW-1 through TW-7 were subsequently installed in March 1993 to investigate the degree and extent, and the likely source of the gasoline contamination in groundwater. Results of the additional investigation indicated that elevated TPHg and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were detected in groundwater samples from four of the temporary wells and in Well MW-1. MTBE was not detected in the samples. The highest concentrations of petroleum hydrocarbon constituents were detected in groundwater samples from two wells (TW-5 and TW-7) closest to a 10,000-gallon gasoline tank and associated product piping located to the west of the former waste oil tank. The results of the investigations were presented in PES' report, *Soil and Groundwater Investigation, Bill Cox Cadillac, 230 Bay Place, Oakland, California* dated December 23, 1993. The well locations and former waste oil tank location are shown on Plate 2.

The 10,000-gallon underground gasoline tank and product piping were removed by DECON Environmental Services of Hayward, California and observed and documented by Eisenberg, Olivieri & Associates (EOA) of Oakland, California in January 1994. During removal, a hole was observed in the product piping between the tank and dispenser. Floating free-phase product was observed on the groundwater surface in the tank excavation. EOA, on behalf of Bill Cox, subsequently performed limited investigations to evaluate the lateral downgradient extent of gasoline contamination. EOA performed quarterly groundwater monitoring of wells MW-1, TW-2, TW-6 and TW-7 between December 1994 and February 1996.

Soil and groundwater remediation was subsequently requested by ACEHS in a letter to the Harold Shepard Trust and Bill Cox Cadillac dated October 24, 1996. In the letter, ACEHS specified that soil remediation consisting of excavation of hydrocarbon-affected soil, and groundwater remediation consisting of oxygen introduction was required. PES developed a Remedial Plan in response to that request. PES' Remedial Plan consisted of a *Revised Interim Remedial Action Plan (IRAP)* dated October 31, 1996 and an *Addendum, Revised Interim Remedial Action Plan* dated November 26, 1996. As part of the Remedial Plan, site characterization, additional well installation, soil remediation, baseline groundwater monitoring, and initial groundwater remediation were conducted by PES between June 1997 and April 1999. The results of work conducted between June 1997 and April 1999 were previously submitted to ACEHS in PES' report, *Site Characterization and Interim Remedial Actions, Former Cox Cadillac Facility, Oakland, California*, dated September 30, 1999.

A pilot program commenced in January 1999 to remediate groundwater by applying a combination of in-situ bioremediation methods to introduce oxygen and nutrients into groundwater at the site to enhance natural biodegradation rates of petroleum hydrocarbons.

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The methods included: (1) adding a nutrient- and hydrogen peroxide-enriched water (hereinafter referred to as enriched water); and (2) placement of Oxygen Releasing Compound (ORC) in selected wells at the site. There were a total of eight applications of enriched water from March 1999 to November 1999. Application of hydrogen peroxide-enriched water and ORC in selected wells was not conducted in the current quarter.

The November 2001 monitoring is the seventh monitoring event since the groundwater remediation program and baseline monitoring was initiated by PES in January 1999. The results of the November 2001 groundwater monitoring are presented below.

GROUNDWATER MONITORING ACTIVITIES

Depth to Groundwater Measurements

Water levels were measured by Blaine Tech Services (Blaine Tech) of San Jose, California at monitoring wells MW-1, MW-2, TW-2, TW-4, TW-5, TW-6, and TW-7 on November 20, 2001. Depth-to-groundwater measurements were obtained using an electronic water-level indicator and recorded to the nearest 0.01-foot. The water-level indicator was cleaned with a solution of non-phosphate detergent and de-ionized water and then rinsed before each use. Groundwater elevation data are presented in Table 1 and groundwater elevation contours are presented on Plate 3. Dissolved oxygen concentrations were measured by Blaine Tech in the five wells to be sampled prior to measuring groundwater levels.

Groundwater Sampling and Analyses

Groundwater samples were collected from wells MW-1, MW-2, TW-2, TW-6, and TW-7 by Blaine Tech on November 20, 2001. After dissolved oxygen and water-level measurements were obtained, the wells were purged by bailing until approximately three well volumes of water were removed. During purging, the water was monitored for pH, temperature, conductivity, and turbidity. Purge water was collected in DOT-approved 55-gallon steel drums and stored on site. Following well purging, a groundwater sample was collected from each well using a disposable bailer. The sample was transferred to the appropriate laboratory sample containers using a bottom draining bailer stopcock. The sample containers were filled slowly to minimize sample volatilization and ensure that the sample was free of air bubbles. The sample containers were labeled with project site, well identification number, sample number, sampling date and time, and requested analyses. Well sampling documentation is presented in Appendix A.

The groundwater samples were transported in a chilled, thermally insulated cooler under chain-of-custody protocol to Entech Analytical Labs, Inc. of Santa Clara, California, a California Department of Health Services-certified laboratory. The groundwater samples were analyzed

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for TPHg using EPA Test Method 8015 modified, BTEX and methyl tertiary butyl ether (MTBE) using EPA Test Method 8020. MTBE confirmation on the sample from well MW-1 was performed by EPA Test Method 8260. Groundwater sample analytical results are presented in Table 2 and shown on Plate 4. Copies of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

Dissolved Oxygen Measurements

Total dissolved oxygen was measured on November 20, 2001 in wells MW-1, MW-2, TW-2, TW-4, TW-5, TW-6, and TW-7, at the start of the day before measuring groundwater levels and purging and sampling. The measurements were collected from each well within the middle portion of the water column using a YSI, Inc., Model 51B Dissolved Oxygen (DO) Meter. The equipment was calibrated according to the manufacturer's specifications before use. Prior to each measurement, the portion of the equipment submerged in the well was cleaned with a solution of non-phosphate detergent and de-ionized water then rinsed with de-ionized water. Total dissolved oxygen measurements through November 20, 2001 are summarized in Table 3 and are included with the well sampling documentation presented in Appendix A.

GROUNDWATER MONITORING RESULTS

Groundwater Elevation Measurements

Depth-to-groundwater data collected from wells MW-1, MW-2, TW-2, TW-4, TW-5, TW-6 and TW-7 on November 20, 2001 were converted to groundwater elevations referenced to site datum. Groundwater elevations ranged from 92.59 feet in well MW-2 to 99.58 feet in well TW-2. Groundwater flow direction at the site is to the southwest, at a hydraulic gradient of approximately 0.046-foot per foot. No separate-phase free product or hydrocarbon sheen was observed in the wells. Groundwater elevation data are presented in Table 1 and elevation contours are presented on Plate 3.

Groundwater Sample Analytical Results

The analytical results of the groundwater samples collected on November 20, 2001 are presented in Table 2 and shown on Plate 4. TPHg was detected in the samples from wells MW-1, MW-2, and TW-7 at concentrations of 33,000 $\mu\text{g/L}$, 12,000 $\mu\text{g/L}$, and 26,000 $\mu\text{g/L}$, respectively. MTBE was detected in the samples from wells MW-2 and TW-7 at concentrations of 8,700 $\mu\text{g/L}$ and 1,600 $\mu\text{g/L}$. Benzene was detected in the samples from wells MW-1, MW-2, TW-7 at concentrations of 2,100 $\mu\text{g/L}$, 870 $\mu\text{g/L}$, and 6,400 $\mu\text{g/L}$, respectively. The highest concentration of toluene was detected in the sample from well TW-7 at 1,100 $\mu\text{g/L}$. The highest concentrations of ethylbenzene and total xylenes were detected in

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the sample from well MW-1 at 2,500 $\mu\text{g/L}$, and 3,600 $\mu\text{g/L}$, respectively. Copies of the laboratory reports and chain-of-custody documentation are presented in Appendix B.

SUMMARY AND CONCLUSIONS

Results of the November 20, 2001 groundwater elevations indicate a hydraulic gradient of approximately 0.046-foot per foot. As with historical observations, the groundwater flow direction continues to be toward the southwest.

Concentrations of TPHg and BTEX detected in the wells in November 2001 are similar to those detected in July 2001. Hydrocarbon concentrations in groundwater from well TW-6 remained below the laboratory reporting limit, further indicating that previous biodegradation activities were effective in the vicinity of this well. Consistent with historical findings, the highest concentrations of petroleum hydrocarbons were detected in the groundwater from wells nearest to the former gasoline UST and product piping, specifically Wells MW-1 and TW-7.

MTBE remained undetected in the sample from well MW-1, but showed increases in concentrations in samples from wells MW-2 and TW-7. The highest detection of MTBE is in groundwater from the furthest downgradient well, MW-2. MTBE was not previously detected in groundwater from any of the site wells from sampling conducted by PES in 1993. These data suggest that MTBE may be flowing to the downgradient well from a cross gradient source through potential preferential pathways within Bay Place. PES has proposed the installation of a new monitoring well northeast of wells MW-2 and TW-7 to test for this possibility and to provide additional hydrogeologic data for the site and vicinity (as indicated on Plate 2). The well has been proposed in a Workplan dated August 29, 2001 and specifications for the proposed well were presented in an Addendum to Workplan dated December 17, 2001.

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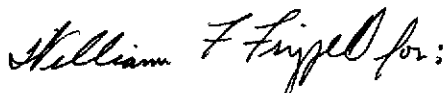
If you have any questions or comments, please do not hesitate to call either of the undersigned.

Yours very truly,

PES ENVIRONMENTAL, INC.



François Bush
Project Geologist



Robert S. Creps, P. E.
Principal Engineer

Attachments: Table 1 Groundwater Elevation Data Through November 20, 2001
Table 2 Groundwater Sample Analytical Results Through
November 20, 2001
Table 3 Summary of Total Dissolved Oxygen Measurements
Plate 1 Site Location Map
Plate 2 Site Plan and Well Location Map
Plate 3 Groundwater Elevation Contours on November 20, 2001
Plate 4 Distribution of Dissolved Hydrocarbons in Groundwater-
November 20, 2001
Appendix A Well Sampling Documentation
Appendix B Laboratory Analytical Reports and Chain of Custody
Documentation

cc: Ms. Cheryl Howell - Greater Bay Trust Company
Mr. Don Huang - Alameda County Environmental Health Services
Mr. Mark Owens - California UST Cleanup Fund
Ms. Lita Freeman - LFR

Table 2
Groundwater Sample Analytical Results Through November 20, 2001
Quarterly Monitoring
Former Cox Cadillac, 230 Bay Place
Oakland, California

Well Number	Sample Date	TPH as Gasoline (µg/L)	MTBE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)
MW-1	3/3/93	110,000	NA	8,500	7,500	4,400	15,000
	10/13/93	74,000	NA	6,100	4,800	4,000	11,000
	12/22/94	110,000	NA	18,000	11,000	2,000	16,000
	3/24/95	25,000	NA	3,700	1,800	2,200	4,700
	6/29/95	28,000	NA	5,300	2,100	3,200	7,500
	9/29/95	43,000	NA	5,600	2,200	3,800	7,400
	2/23/96	46,000	NA	4,800	3,000	3,400	7,700
	1/12/99	39,000	800	2,600	970	2,900	5,700
	4/13/99	29,000	520	1,500	500	<50	4,000
	7/7/99	31,000	<250	1,900	870	1,600	3,900
	10/6/99	32,000	<250	2,100	910	1,800	4,400
	1/11/00	2,400	<5.0	52	3.9	63	12
	4/6/01	32,000	470	4,300	3,200	2,600	7,300
	7/25/01	24,000	<25	2,300	1,300	2,500	6,200
11/20/01	33,000	<100*	2,100	890	2,500	3,600	
MW-2	1/12/99	<50	2,900	1.5	<0.50	<0.50	<0.50
	4/13/99	<50	3,800	0.76	<0.50	<0.50	<0.50
	7/7/99	<2,500	7000*	<25	<25	<25	<25
	10/6/99	2,800	300*	73	<25	<25	<25
	1/11/00	11,000	8400*	890	<100	<100	<100
	4/6/01	2,800	3,800	210	<25	<25	<25
	7/25/01	3,400	4,200*	250	<12.5	<12.5	<12.5
	11/20/01	12,000	8,700	870	<100	<100	200
TW-2	10/13/93	<50	NA	<0.5	<0.5	<0.5	<0.5
	1/12/99	<50	<5	<0.5	<0.5	<0.5	<0.5
	4/13/99	<50	<5	<0.5	<0.5	<0.5	<0.5
	7/7/99	<50	<5	<0.5	<0.5	<0.5	<0.5
	10/6/99	<50	<5	<0.5	<0.5	<0.5	<0.5
	1/11/00	<50	<5	<0.5	<0.5	<0.5	<0.5
	4/6/01	<50	<5	<0.5	<0.5	<0.5	<0.5
	7/25/01	<50	<5	<0.5	<0.5	<0.5	<0.5
	11/20/01	<50	<5	<0.5	<0.5	<0.5	<0.5
TW-6	10/14/93	4,100	NA	3,800	1,600	110	540
	12/22/94	24,000	NA	5,000 5,400	2,000 2,100	3,000 3,100	6,000 6,800
	3/24/95	10,000	NA	4,900	530	270	380
	6/29/95	28,000	NA	12,000	6,600	1,000	3,000
	9/29/95	47,000	NA	19,000	5,200	1,500	4,000
	2/23/96	25,000	NA	13,000	5,200	1,100	2,770
	1/12/99	29,000	210	9,900	4,100	1,000	4,000
	4/13/99	<50	22	0.70	<0.5	<0.5	0.62
	7/7/99	55	8.1*	13	<0.5	<0.5	2.2
	10/6/99	<50	<5	0.59	<0.5	<0.5	<0.5
	1/11/00	<50	<5	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Sample Analytical Results Through November 20, 2001
Quarterly Monitoring
Former Cox Cadillac, 230 Bay Place
Oakland, California

Well Number	Sample Date	TPH as Gasoline ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
TW-6 (Cont.)	4/6/01	<50	<5	<0.5	<0.5	<0.5	<0.5
	7/25/01	<50	<5	<0.5	<0.5	<0.5	<0.5
	11/20/01	<50	<5	<0.5	<0.5	<0.5	<0.5
TW-7	10/14/93	100,000	NA	48,000	15,000	3,400	16,000
	12/22/94	210,000	NA	49,000	33,000	7,300 3,000	28,000
	3/24/95	56,000	NA	13,000	7,000	1,500	5,600
	6/29/95	100,000	NA	39,000	8,100	3,000	8,300
	9/29/95	74,000	NA	32,000	8,700	2,900	8,600
	2/23/96	50,000	NA	22,000	8,400	2,700	5,100
	1/12/99	29,000	<100	7,300	670	2,700	960
	4/13/99	54,000	1,200	4,500	1,800	180	8,200
	7/7/99	42,000	2200*	8,000	4,500	1,200	3,500
	10/6/99	29,000	580*	9,700	1,600	1,600	2,100
	1/11/00	52,000	2600*	8,500	7,100	1,600	6,700
	4/6/01	22,000	990	4,800	1,800	2,200	3,400
	7/25/01	20,000	700*	5,100	660	1,400	2,100
11/20/01	26,000	1,600	6,400	1,100	1,000	2,400	

Notes:

TPH - Total Petroleum Hydrocarbons

MTBE - Methyl tert-butyl ether

 $\mu\text{g/L}$ = Micrograms per liter.

<0.50 = Not detected at or above indicated laboratory reporting limit.

Samples analyzed by EPA Method 8020 for BTEX and MTBE and by EPA Method 8015 for TPH/gas.

*MTBE confirmation by EPA Method 8260.

NA= Not Analyzed

Table 1
Groundwater Elevation Data Through November 20, 2001
Quarterly Monitoring
Former Cox Cadillac, 230 Bay Place
Oakland, California

Well Number	Date Measured	Top-of-Casing Reference Elevation (feet*)	Depth to Water (feet BTOC)	Groundwater Elevation (feet*)
MW-1	12/22/94	100.00	2.96	97.04
	3/24/95		2.21	97.79
	6/29/95		2.44	97.56
	9/29/95		3.00	97.00
	2/23/96		2.18	97.82
	1/12/99		2.79	97.21
	4/13/99		2.00	98.00
	7/7/99		2.60	97.40
	10/6/99		2.94	97.06
	1/11/00		2.69	97.31
	4/6/01		2.99	97.01
	7/25/01		6.00	94.00
11/20/01	3.32	96.68		
MW-2	1/12/99	97.48	5.62	91.86
	4/13/99		5.30	92.18
	7/7/99		5.80	91.68
	10/6/99		5.99	91.49
	1/11/00		5.73	91.75
	4/6/01		5.65	91.83
	7/25/01		6.41	92.07
	11/20/01		5.89	92.59
TW-2	12/22/94	100.43	2.88	97.55
	3/24/95		1.87	98.56
	6/29/95		2.10	98.33
	9/29/95		3.02	97.41
	2/23/96		2.13	98.30
	1/12/99		1.91	98.52
	4/13/99		2.51	97.92
	7/7/99		1.89	98.54
	10/6/99		1.97	98.46
	1/11/00		1.79	98.64
	4/6/01		3.46	96.97
	7/25/01		2.60	98.83
11/20/01	1.85	99.58		
TW-4	4/13/99	99.35	1.82	97.53
	7/7/99		2.36	96.99
	1/11/00		2.63	96.72
	4/6/01		3.97	95.38
	7/25/01		2.55	96.80
	11/20/01		2.33	97.02
TW-5	4/13/99	99.40	1.96	97.44
	7/7/99		3.12	92.28
	1/11/00		1.03	98.37

Table 1
Groundwater Elevation Data Through November 20, 2001
Quarterly Monitoring
Former Cox Cadillac, 230 Bay Place
Oakland, California

Well Number	Date Measured	Top-of-Casing Reference Elevation (feet*)	Depth to Water (feet BTOC)	Groundwater Elevation (feet*)
TW-5 (Cont.)	4/6/01	99.40	3.04	96.36
	7/25/01		3.90	95.50
	11/20/01		2.55	96.85
TW-6	12/22/94	98.75	4.66	94.09
	3/24/95		3.81	94.94
	6/29/95		5.25	93.50
	9/29/95		6.12	92.63
	2/23/96		3.66	95.09
	1/12/99		5.52	93.23
	4/13/99		4.91	93.84
	7/7/99		6.04	92.71
	10/6/99		6.64	92.11
	1/11/00		6.41	92.34
	4/6/01		4.93	93.82
	7/25/01		6.72	92.03
	11/20/01		5.44	93.31
TW-7	12/22/94	97.96	4.50	93.46
	3/24/95		2.98	94.98
	6/29/95		4.30	93.66
	9/29/95		5.19	92.77
	2/23/96		3.45	94.51
	1/12/99		4.81	93.15
	4/13/99		4.73	93.23
	7/7/99		5.17	92.79
	10/6/99		5.70	92.26
	1/11/00		5.42	92.54
	4/6/01		4.63	93.33
	7/25/01		6.80	91.16
	11/20/01		4.75	93.21

Notes:

* = Referenced to site datum
 BTOC = Below top of casing

NA = Data not available
 NM = Depth to water not measured

Table 3
Summary of Total Dissolved Oxygen Measurements
Quarterly Monitoring
Former Cox Cadillac, 230 Bay Place
Oakland, California

Well Number	Date Measured	Time of Day	Total Dissolved Oxygen (mg/L)	Notes
MW-1	1/12/99	15:30	3.4	(1)
	3/11/99	15:46	0.72	(1)
	3/17/99	12:30	14.1	(2)
	3/17/99	18:13	>15.0	(3)
	4/13/99	9:44	8.9	(2)
	6/1/99	14:59	6.2	(2)
	6/1/99	18:46	>15.0	(3)
	7/7/99	9:20	3.55	(2)
	7/7/99	19:38	>18.0	(3)
	8/19/99	10:45	1.0	(2)
	8/19/99	18:48	>15.0	(3)
	10/6/99	10:42	10.3	(2)
	10/6/99	17:11	>15.0	(3)
	11/17/99	11:13	4.4	(2)
	11/17/99	17:34	>15.0	(3)
	1/11/00	NA	4.0	(2)
	4/6/01	10:55	0.45	(4)
7/25/01	11:25	3.60	(4)	
11/20/01	12:30	10.3	(4)	
MW-2	1/12/99	12:30	3	(1)
	4/13/99	9:17	0.2	(2)
	4/13/99	19:11	0.6	(3)
	7/7/99	8:56	1.03	(2)
	7/7/99	19:13	7.22	(3)
	10/6/99	10:10	1.2	(2)
	10/6/99	16:58	0.5	(3)
	1/11/00	NA	3.9	(2)
	4/6/01	10:21	0.69	(4)
	7/25/01	11:25	3.10	(4)
11/20/01	13:20	5.00	(4)	
TW-2	1/12/99	15:03	5.5	(1)
	4/13/99	9:10	2.6	(2)
	4/13/99	19:06	5.8	(3)
	7/7/99	8:50	0.65	(2)
	7/7/99	19:01	5.14	(3)
	10/6/99	9:59	3.2	(2)
	10/6/99	16:48	2.6	(3)
	1/11/00	NA	4.6	(2)
	4/6/01	9:45	2.9	(4)
	7/25/01	11:25	3.0	(4)
11/20/01	11:00	10.3	(4)	
TW-4	3/11/99	15:20	3.4	(1)
	3/17/99	12:18	14.4	(2)

Table 3
Summary of Total Dissolved Oxygen Measurements
Quarterly Monitoring
Former Cox Cadillac, 230 Bay Place
Oakland, California

Well Number	Date Measured	Time of Day	Total Dissolved Oxygen (mg/L)	Notes
TW-4 (Cont.)	3/17/99	17:54	12.6	(3)
	4/13/99	9:00	12.2	(2)
	4/13/99	19:03	>15.0	(3)
	6/1/99	14:29	9.3	(2)
	6/1/99	18:33	>15.0	(3)
	7/7/99	9:09	>18.0	(2)
	7/7/99	19:36	>18.0	(3)
	8/19/99	10:41	13.4	(2)
	8/19/99	18:27	>15.0	(3)
	10/6/99	9:50	>15.0	(2)
	10/6/99	16:40	>15.0	(3)
	11/17/99	11:16	10.6	(2)
	11/17/99	17:35	>15.0	(3)
	7/25/01	11:25	17.0*	(4)
11/20/01	NA	15.3*	(4)	
TW-5	1/12/99	16:40	1.7	(1)
	3/11/99	15:36	0.58	(1)
	3/17/99	12:20	14.3	(2)
	3/17/99	17:57	14.6	(3)
	4/13/99	9:39	3.8	(2)
	4/13/99	19:28	>15.0	(3)
	6/1/99	14:40	5.4	(2)
	6/1/99	18:38	>15.0	(3)
	7/7/99	9:05	0.25	(2)
	7/7/99	19:32	>18.0	(3)
	8/19/99	10:38	1.0	(2)
	8/19/99	18:33	>15.0	(3)
	10/6/99	10:31	0.2	(2)
	10/6/99	17:08	>15.0	(3)
	11/17/99	11:22	0.8	(2)
	11/17/99	17:37	>15.0	(3)
7/25/01	11:25	0.7	(4)	
11/20/01	NA	5.0	(4)	
TW-6	1/12/99	15:02	3.9	(1)
	3/11/99	15:39	0.62	(1)
	3/17/99	12:23	14.1	(2)
	3/17/99	18:06	>15.0	(3)
	4/13/99	9:35	14.2	(2)
	4/13/99	19:23	>15.0	(3)
	6/1/99	14:48	11.1	(2)
	6/1/99	18:40	>15.0	(3)
	7/7/99	9:00	>18.0	(2)
	7/7/99	19:21	>18.0	(3)
	8/19/99	10:35	14.8	(2)
	8/19/99	18:38	>15.0	(3)

Table 3
Summary of Total Dissolved Oxygen Measurements
Quarterly Monitoring
Former Cox Cadillac, 230 Bay Place
Oakland, California

Well Number	Date Measured	Time of Day	Total Dissolved Oxygen (mg/L)	Notes
TW-6 (Cont.)	10/6/99	10:27	3.8	(2)
	10/6/99	17:06	>15.0	(3)
	11/17/99	11:24	1.5	(2)
	11/17/99	17:39	>15.0	(3)
	1/11/00	NA	4.9	(2)
	4/6/01	10:00	0.78	(4)
	7/25/01	11:25	2.70	(4)
	11/20/01	11:30	9.40	(4)
TW-7	1/12/99	13:10	2.7	(1)
	3/11/99	15:42	0.74	(1)
	3/17/99	12:25	6.5	(2)
	3/17/99	18:12	14	(3)
	4/13/99	9:25	0.4	(2)
	4/13/99	19:16	>15.0	(3)
	6/1/99	14:52	0.7	(2)
	6/1/99	18:43	>15.0	(3)
	7/7/99	9:15	0.26	(2)
	7/7/99	19:26	>18.0	(3)
	8/19/99	10:30	0.9	(2)
	8/19/99	18:46	>15.0	(3)
	10/6/99	10:19	0.5	(2)
	10/6/99	17:03	>15.0	(3)
	11/17/99	11:28	1.1	(2)
	11/17/99	17:40	>15.0	(3)
	1/11/00	NA	5.2	(2)
	4/6/01	11:25	0.53	(4)
7/25/01	11:25	2.0	(4)	
11/20/01	13:00	4.6	(4)	

Notes:

>15 = Above indicated equipment quantification maximum

(1) = Baseline measurement taken before initial introduction of enriched water

(2) = Measured prior to enriched water introduction, and water-level measurement and well purging

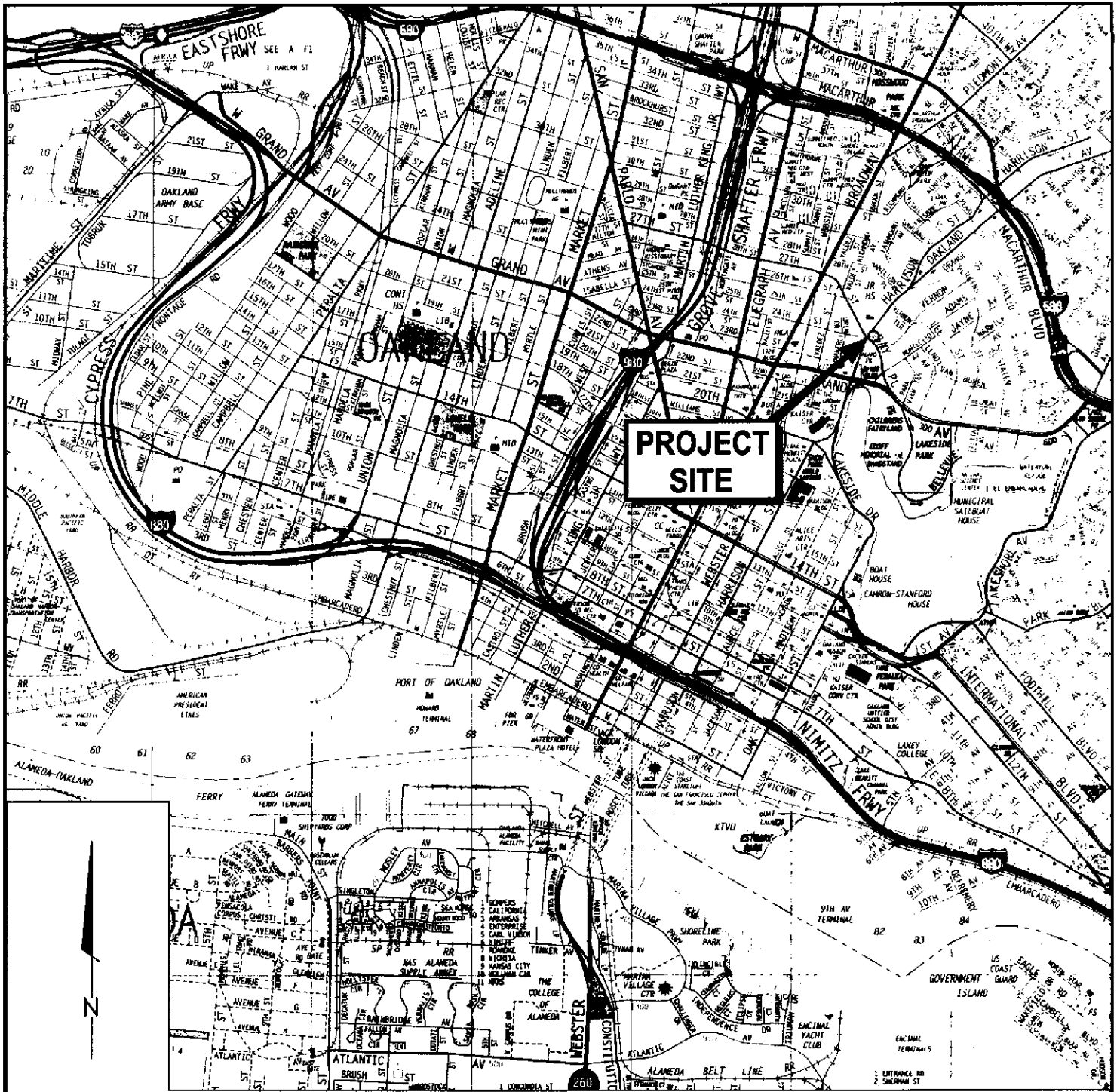
(3) = Measured after enriched water introduction

(4) = Measured prior to water-level measurement and well purging

mg/L = milligrams per liter

NA = information not available

* Concentration exceeds DO saturation concentration.



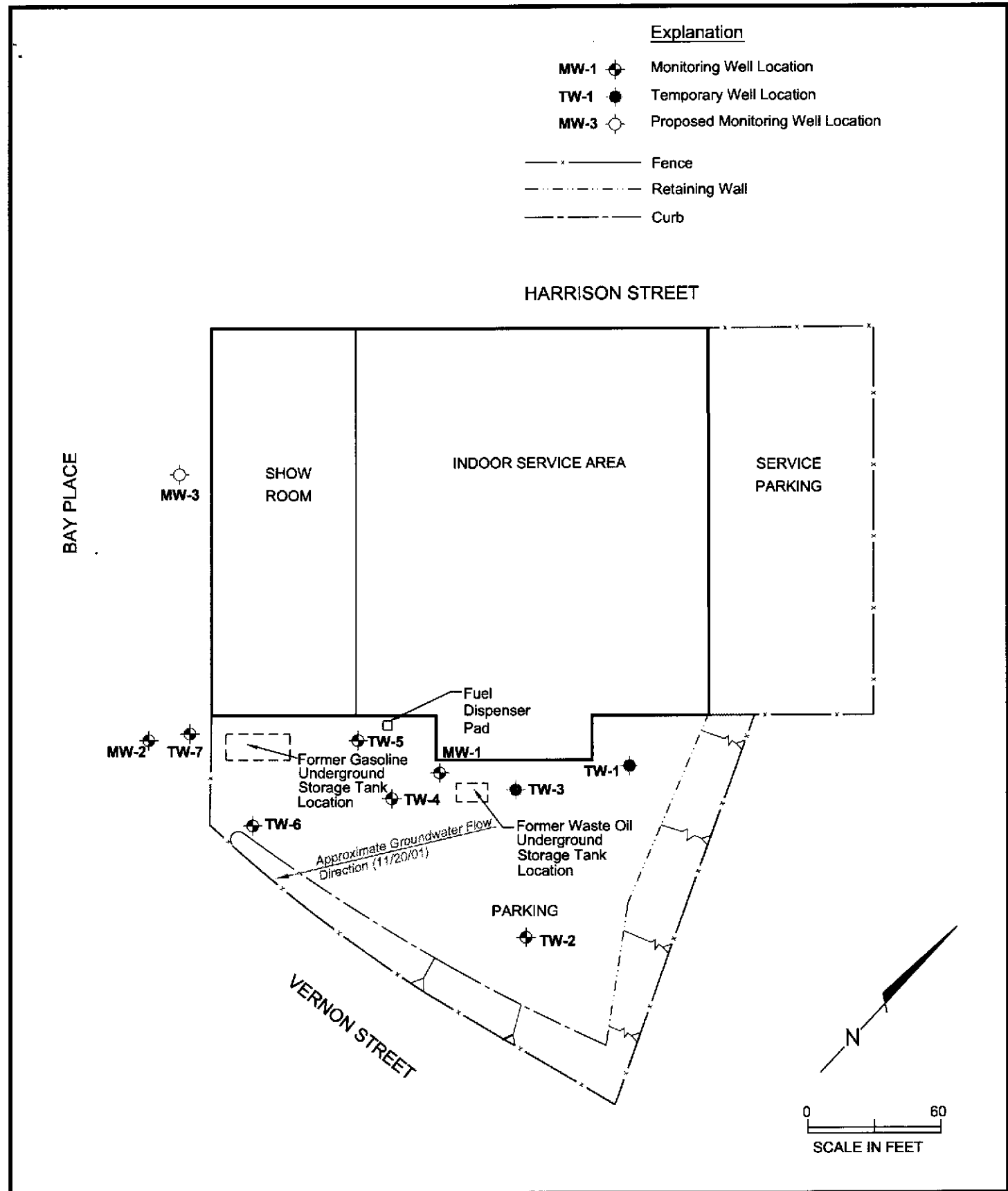
Ref: "The Thomas Guide- Alameda/Contra Costa Counties Street Guide and Directory" 1998 Edition



Site Location Map
 Quarterly Groundwater Monitoring
 Former Cox Cadillac-230 Bay Place
 Oakland, California

PLATE
1

FAS



PES Environmental, Inc.
Engineering & Environmental Services

Site Plan and Well Location Map
Quarterly Groundwater Monitoring
Former Cox Cadillac-230 Bay Place
Oakland, California

PLATE

2

167.002.01.006

1670200006_4QTR-2001.dwg

FAS
REVIEWED BY

4/02

DATE





JOB NUMBER

DRAWING NUMBER

REVIEWED BY

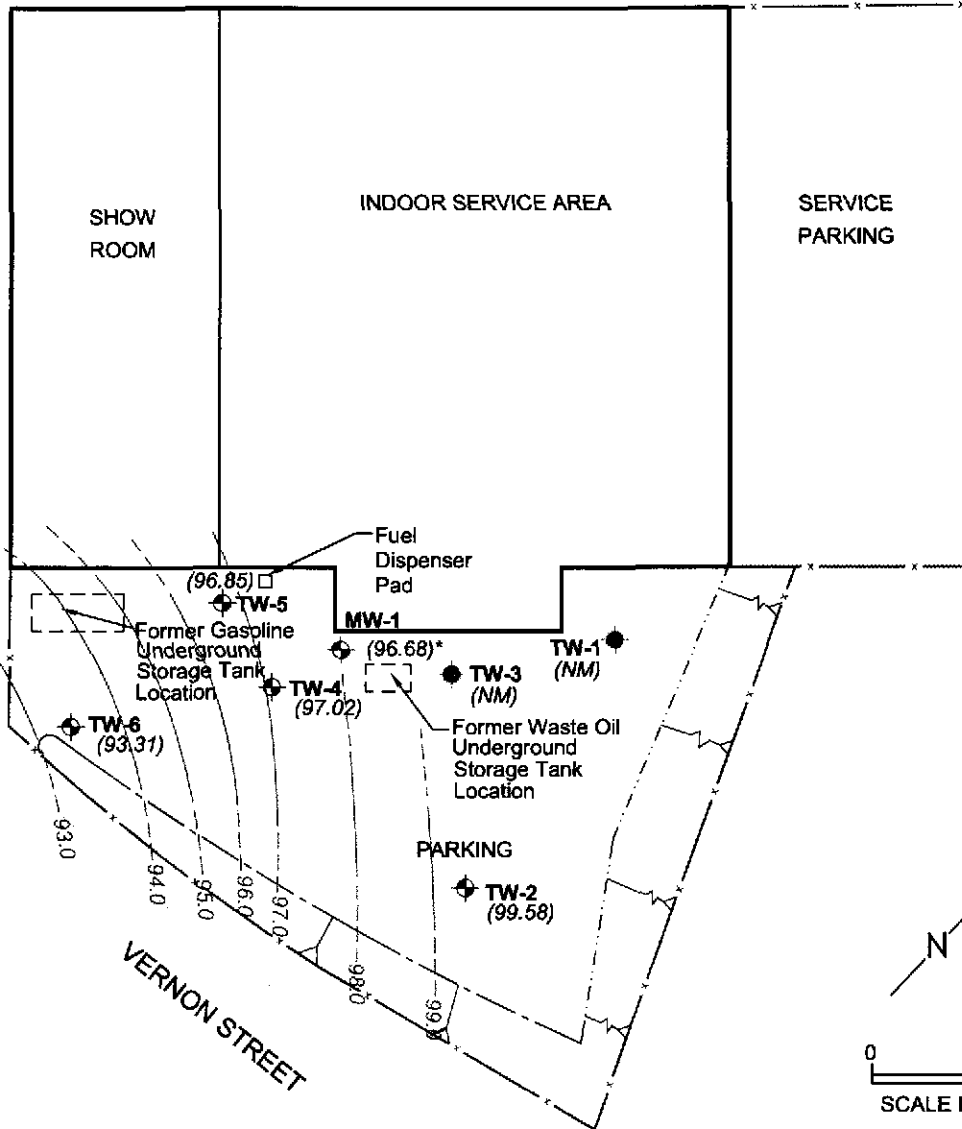
DATE

Explanation

- MW-1  Monitoring Well Location
- TW-1  Temporary Well Location
-  Former UST Location
- (96.68) Groundwater Elevation (Referenced to Site Datum) measured November 20, 2001
-  Groundwater Elevation Contour, Dashed where Inferred (Contour Interval is 1.00 feet)
- (NM) Water-level not measured
- * MW-1 not included in groundwater elevation contours

HARRISON STREET

BAY PLACE



PES Environmental, Inc.
Engineering & Environmental Services

Groundwater Elevation Contours on November 20, 2001
Quarterly Groundwater Monitoring
Former Cox Cadillac-230 Bay Place
Oakland, California

PLATE

3

167.0201.006

167020006_4QTR-2001.dwg

FAS
REVIEWED BY

4/02

DATE

JOB NUMBER

DRAWING NUMBER

REVIEWED BY

DATE

Explanation

- MW-1 Monitoring Well Location
- TW-1 Temporary Well Location
- Former UST Location
- (NS) Not Sampled

Concentrations of Dissolved Hydrocarbons in Micrograms per liter ($\mu\text{g/l}$) in Groundwater

Groundwater ($\mu\text{g/L}$)	
Total Petroleum Hydrocarbons as Gasoline	26,000
Benzene	6,400
Toluene	1,100
Ethylbenzene	1,000
Total Xylenes	2,400
Methyl Tert-Butyl Ether	1,600

<0.50 Not detected at or above indicated laboratory reporting limit

TW-7

Groundwater ($\mu\text{g/L}$)	
26,000	
6,400	
1,100	
1,000	
2,400	
1,600	

BAY PLACE

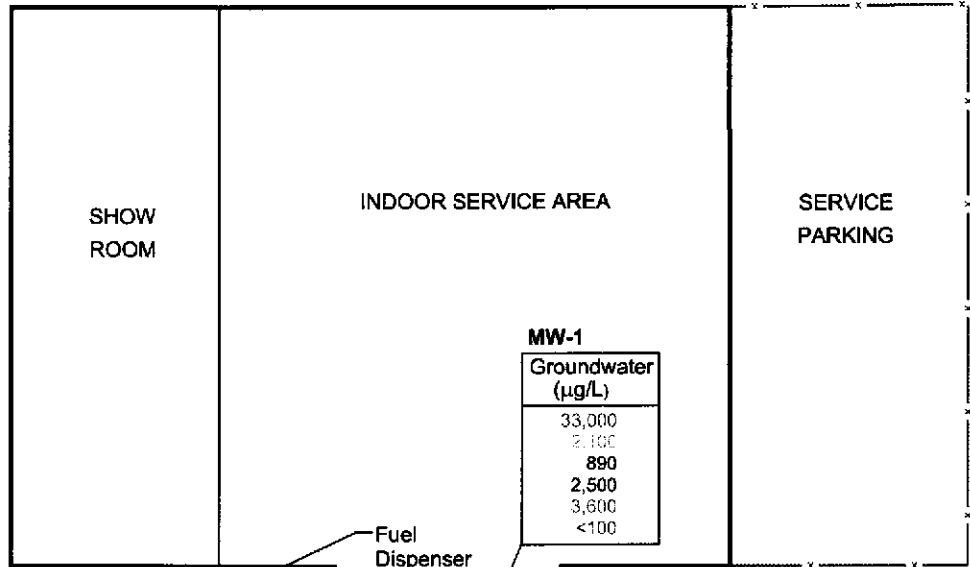
MW-2

Groundwater ($\mu\text{g/L}$)	
12,000	
875	
<100	
<100	
200	
8,700	

MW-2

TW-7

HARRISON STREET



MW-1

Groundwater ($\mu\text{g/L}$)	
33,000	
2,100	
890	
2,500	
3,600	
<100	

Fuel Dispenser Pad

SHOW ROOM

INDOOR SERVICE AREA

SERVICE PARKING

(NS) TW-5
Former Gasoline Underground Storage Tank Location

TW-4 (NS)

MW-1

TW-1 (NS)

TW-2

Groundwater ($\mu\text{g/L}$)	
<50	
<0.5	
<0.5	
<0.5	
<0.5	
<5	

Former Waste Oil Underground Storage Tank Location

PARKING

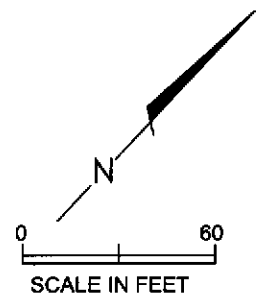
TW-2

VERNON STREET

TW-6

Groundwater ($\mu\text{g/L}$)	
<50	
<0.5	
<0.5	
<0.5	
<0.5	
<5	

Approximate Groundwater Flow Direction (11/20/01)



PES Environmental, Inc.
Engineering & Environmental Services

Distribution of Dissolved Hydrocarbons in Groundwater - November 20, 2001
Quarterly Groundwater Monitoring
Former Cox Cadillac-230 Bay Place
Oakland, California

PLATE

4

APPENDIX A

WELL SAMPLING DOCUMENTATION

WELL GAUGING DATA

Project # 011120-50-1 Date 11/20/01 Client Equiva

Site 230 Bay Place Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	D.O
TW-2	2					1.85	9.50 7.20	TOC	10.3
TW-4	2					2.33	8.65		15.3
TW-5	2	Odor				2.55	7.60		5.0
TW-6	2					5.44	7.60		9.4
TW-7	2					4.75	19.67		4.6
MW-1	2					3.32	19.80		5.4
MW-2	2					5.29	19.67 19.67	↓	5.0 9.4
		* removed OEC for gauging *							
		✓ confirmed calibration							

WELL MONITORING DATA SHEET

Project #: <u>01120-SD-1</u>	Client: <u>PES</u>
Sampler: <u>O'Bryan</u>	Start Date: <u>11/20/01</u>
Well I.D.: <u>TW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>780</u>	Depth to Water: <u>1.85</u>
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

Bailer Waterra

Disposable Bailer Peristaltic

Middleburg Extraction Pump

Electric Submersible Other _____

Sampling Method:

Bailer

Disposable Bailer

Extraction Port

Dedicated Tubing

Other: _____

<u>1.0</u> (Gals.) X <u>3</u> = <u>3.0</u> Gals.
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1114</u>	<u>66.1</u>	<u>5.1</u>	<u>4979</u>	<u>36.6</u>	<u>.25</u>	
<u>1115</u>	<u>66.2</u>	<u>5.8</u>	<u>5033</u>	<u>27</u>	<u>.5</u>	
<u>1116</u>	<u>66.1</u>	<u>6.0</u>	<u>5064</u>	<u>190</u>	<u>1.0</u>	<u>Column Shrank</u>
						<u>dramatically</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>1.0</u>
Sampling Time: <u>1120</u>	Sampling Date: <u>11/20/01</u>
Sample I.D.: <u>TW-2</u>	Laboratory: <u>Entech</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> TPH-D Other:	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other:	
D.O. (if req'd):	Pre-purge: <u>See gauge sheet</u> Post-purge: _____ mg/L
ORP (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

WELL MONITORING DATA SHEET

Project #: <u>011120-50-1</u>	Client: <u>PES</u>
Sampler: <u>O Bryan</u>	Start Date: <u>11/20/01</u>
Well I.D.: <u>TW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>7.60</u>	Depth to Water: <u>5.47</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

<u>.3</u> (Gals.) X <u>3</u> = <u>.9</u> Gals.
1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1144</u>	<u>68.0</u>	<u>7.4</u>	<u>532</u>	<u>7200</u>	<u>.25</u>	
<u>1145</u>	<u>68.1</u>	<u>7.2</u>	<u>502</u>	<u>7200</u>	<u>.5</u>	
<u>1146</u>	<u>68.2</u>	<u>7.1</u>	<u>473</u>	<u>7200</u>	<u>1.0</u>	

Did well dewater? Yes No Gallons actually evacuated: 1.0

Sampling Time: 1150 Sampling Date: 11/20/01

Sample I.D.: TW-6 Laboratory: Entech

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ Time _____ Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	<input checked="" type="checkbox"/> Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	<input checked="" type="checkbox"/> Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>011120-50-1</u>	Client: <u>PES</u>
Sampler: <u>O'Bryan</u>	Start Date: <u>11/20/01</u>
Well I.D.: <u>TW-7</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.67</u> <u>9.50</u>	Depth to Water: <u>4.75</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method: Middleburg Bailer
 Disposable Bailer
 Electric Submersible

Watera
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Disposable Bailer Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

2.4 (Gals.) X 3 = 7.2 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1308</u>						<u>Well dewatered. 2 gallons removed</u>
<u>1356</u>					<u>2.25</u>	
<u>DTW = 5.67</u>						

Did well dewater? Yes No Gallons actually evacuated: 2.25

Sampling Time: 1356 Sampling Date: 11/20/01

Sample I.D.: TW-7 Laboratory: Entech

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>01120-S0-1</u>	Client: <u>PES</u>
Sampler: <u>O'Bryan</u>	Start Date: <u>11/20/01</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.80</u>	Depth to Water: <u>3.32</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method: Bailer Disposable Bailer <u>Middleburg</u> Electric Submersible	Waterra Peristaltic Extraction Pump Other: _____
Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

$$\frac{2.6 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = \frac{7.8 \text{ Gals.}}{\text{Specified Volumes}} \text{ Calculated Volume}$$

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1232	69.2	7.0	2278	7200	2.75	Grey / Odor
1235	69.2	7.1	2654	7200	5.5	
1238	69.5	6.8	3084	7200	8	

Did well dewater? Yes <u>(No)</u>	Gallons actually evacuated: <u>8</u>
Sampling Time: <u>12:19</u>	Sampling Date: <u>11/20/01</u>
Sample I.D.: <u>MW-1</u>	Laboratory: <u>Entech</u>
Analyzed for: <u>(TPH-G) (BTEX) (MTBE)</u> TPH-D Other: _____	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
ORP (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV

WELL MONITORING DATA SHEET

Project #: <u>011120-S0-1</u>	Client: <u>Entech</u>
Sampler: <u>O'Bryan</u>	Start Date: <u>11/20/01</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>19.67</u>	Depth to Water: <u>5.89</u>
Before: _____ After: _____	Before: _____ After: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other _____

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing

Other: _____

$$\frac{2.2 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = \frac{6.6 \text{ Gals.}}{\text{Calculated Volume}}$$

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1330	68.7	7.1	2371	>200	2.25	
1332	69.2	6.8	2059	>200	4.5	
1335	69.6	6.7	2005	>200	6.75	

Did well dewater? Yes No Gallons actually evacuated: 6.75

Sampling Time: 1338 Sampling Date: 11/20/01

Sample I.D.: MW-2 Laboratory: Entech

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

Equipment Blank I.D.: _____ @ _____ Time Duplicate I.D.: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

APPENDIX B

**LABORATORY ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION**

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

December 02, 2001

Francois Bush
PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947

Order: 27860

Date Collected: 11/20/01

Project Name:

Date Received: 11/21/01

Project Number: BTS# 011120-SO-1

P.O. Number: BTS# 011120-SO-1

Project Notes: MTBE confirmations by EPA 8260B to follow.

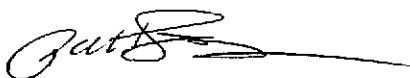
On November 21, 2001, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	Gas/BTEX/MTBE	EPA 8015 MOD. (Purgeable) EPA 8020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,



Michelle L. Anderson
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Francois Bush

Date: 12/02/01
Date Received: 11/21/01
Project Name:
Project Number: BTS# 011120-SO-1
P.O. Number: BTS# 011120-SO-1
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 27860	Lab Sample ID: 27860-001	Client Sample ID: MW-1								
Sample Time: 12:42 PM	Sample Date: 11/20/01	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	2100		200	0.5	100	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Toluene	890		200	0.5	100	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Ethyl Benzene	2500		200	0.5	100	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Xylenes, Total	3600		200	0.5	100	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							97		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		200	5	1000	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							97		65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	33000		200	50	10000	µg/L	N/A	11/28/01	WGC42237	EPA 8015 MOD. (Purgeable)
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							96		65 - 135	

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201


PES Environmental, Inc.
 1682 Novato Boulevard, Suite 100
 Novato, CA 94947
 Attn: Francois Bush

Date: 12/02/01
 Date Received: 11/21/01
 Project Name:
 Project Number: BTS# 011120-SO-1
 P.O. Number: BTS# 011120-SO-1
 Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 27860	Lab Sample ID: 27860-002	Client Sample ID: MW-2								
Sample Time: 1:38 PM	Sample Date: 11/20/01	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	870		200	0.5	100	µg/L	N/A	11/29/01	WGC42240	EPA 8020
Toluene	ND		200	0.5	100	µg/L	N/A	11/29/01	WGC42240	EPA 8020
Ethyl Benzene	ND		200	0.5	100	µg/L	N/A	11/29/01	WGC42240	EPA 8020
Xylenes, Total	200		200	0.5	100	µg/L	N/A	11/29/01	WGC42240	EPA 8020
Surrogate						Surrogate Recovery			Control Limits (%)	
aaa-Trifluorotoluene						98			65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	8700		200	5	1000	µg/L	N/A	11/29/01	WGC42240	EPA 8020
Surrogate						Surrogate Recovery			Control Limits (%)	
aaa-Trifluorotoluene						98			65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	12000	x	200	50	10000	µg/L	N/A	11/29/01	WGC42240	EPA 8015 MOD. (Purgeable)
Surrogate						Surrogate Recovery			Control Limits (%)	
aaa-Trifluorotoluene						100			65 - 135	

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit
 Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


 Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

PES Environmental, Inc.
 1682 Novato Boulevard, Suite 100
 Novato, CA 94947
 Attn: Francois Bush

Date: 12/02/01
 Date Received: 11/21/01
 Project Name:
 Project Number: BTS# 011120-SO-1
 P.O. Number: BTS# 011120-SO-1
 Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 27860

Lab Sample ID: 27860-003

Client Sample ID: TW-2

Sample Time: 11:20 AM

Sample Date: 11/20/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							96		65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							96		65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	11/28/01	WGC42237	EPA 8015 MOD. (Purgeable)
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							98		65 - 135	

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


 Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Francois Bush

Date: 12/02/01
Date Received: 11/21/01
Project Name:
Project Number: BTS# 011120-SO-1
P.O. Number: BTS# 011120-SO-1
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 27860	Lab Sample ID: 27860-004	Client Sample ID: TW-6								
Sample Time: 11:50 AM	Sample Date: 11/20/01	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		98		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	N/A	11/28/01	WGC42237	EPA 8020
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		98		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L	N/A	11/28/01	WGC42237	EPA 8015 MOD. (Purgeable)
				Surrogate		Surrogate Recovery		Control Limits (%)		
				aaa-Trifluorotoluene		98		65 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

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PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Francois Bush

Date: 12/02/01
Date Received: 11/21/01
Project Name:
Project Number: BTS# 011120-SO-1
P.O. Number: BTS# 011120-SO-1
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 27860	Lab Sample ID: 27860-005	Client Sample ID: TW-7								
Sample Time: 1:56 PM	Sample Date: 11/20/01	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	6400		100	0.5	50	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Toluene	1100		100	0.5	50	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Ethyl Benzene	1000		100	0.5	50	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Xylenes, Total	2400		100	0.5	50	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Surrogate aaa-Trifluorotoluene							Surrogate Recovery 99		Control Limits (%) 65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	1600		100	5	500	µg/L	N/A	11/28/01	WGC42237	EPA 8020
Surrogate aaa-Trifluorotoluene							Surrogate Recovery 99		Control Limits (%) 65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	26000		100	50	5000	µg/L	N/A	11/28/01	WGC42237	EPA 8015 MOD. (Purgeable)
Surrogate aaa-Trifluorotoluene							Surrogate Recovery 97		Control Limits (%) 65 - 135	

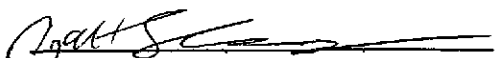
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

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Quality Control Results Summary

QC Batch #: WMS11287B
Matrix: Liquid

Units: µg/L
Date Analyzed: 12/03/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		17	LCS	85.0			65.0 - 135.0
Benzene	EPA 8260B	ND		20		20.4	LCS	102.0			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		19.7	LCS	98.5			65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		22.7	LCS	113.5			56.0 - 135.0
Toluene	EPA 8260B	ND		20		18.6	LCS	93.0			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		18.4	LCS	92.0			65.0 - 135.0
Surrogate			Surrogate Recovery			Control Limits (%)					
4-Bromofluorobenzene			104			65 - 135					
Dibromofluoromethane			106			57 - 139					
Toluene-d8			102			65 - 135					
Test: EPA 8260B											
1,1-Dichloroethene	EPA 8260B	ND		20		21.2	LCSD	106.0	21.99	25.00	65.0 - 135.0
Benzene	EPA 8260B	ND		20		23	LCSD	115.0	11.98	25.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		22	LCSD	110.0	11.03	25.00	65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		22.4	LCSD	112.0	1.33	25.00	56.0 - 135.0
Toluene	EPA 8260B	ND		20		21.7	LCSD	108.5	15.38	25.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		22.1	LCSD	110.5	18.27	25.00	65.0 - 135.0
Surrogate			Surrogate Recovery			Control Limits (%)					
4-Bromofluorobenzene			103			65 - 135					
Dibromofluoromethane			104			57 - 139					
Toluene-d8			100			65 - 135					

Entech Analytical Labs, Inc.

RECEIVED DEC 10 2001

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

December 04, 2001

Francois Bush

PES Environmental, Inc.

1682 Novato Boulevard, Suite 100

Novato, CA 94947

Order: 27860

Date Collected: 11/20/01

Project Name:

Date Received: 11/21/01

Project Number: BTS# 011120-SO-1

P.O. Number: BTS# 011120-SO-1

Project Notes:


On November 21, 2001, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	MTBE by EPA 8260B	EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,



Michelle L. Anderson
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Francois Bush

Date: 12/04/01
Date Received: 11/21/01
Project Name:
Project Number: BTS# 011120-SO-1
P.O. Number: BTS# 011120-SO-1
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 27860

Lab Sample ID: 27860-001

Client Sample ID: MW-1

Sample Time: 12:42 PM

Sample Date: 11/20/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		20	5	100	µg/L	12/03/01	WMS11287B	EPA 8260B
	Surrogate			Surrogate Recovery			Control Limits (%)		
	4-Bromofluorobenzene			99			65 - 135		
	Dibromofluoromethane			105			57 - 139		
	Toluene-d8			97			65 - 135		

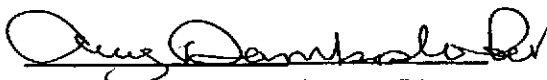
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director *Environmental Analysis Since 1983*

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB Entech

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
 LIA
 OTHER
- RWQCB REGION _____

CHAIN OF CUSTODY
 BTS # 01120-50-1

CLIENT
PES

SITE
230 Bay Place

Oakland, CA

MATRIX CONTAINERS

SAMPLE I.D. DATE TIME S=SOIL W=H₂O TOTAL

MW-1 11/20/01 1242 W 3 HCLVDA

MW-2 1338

TW-2 1120

TW-6 1150

TW-7 1356

C = COMPOSITE ALL CONTAINERS

TPH - Gas (8015)

BTEX (8020)

MTBE (8020) *

SPECIAL INSTRUCTIONS

Invoice and Report to : PES
 Attn: FRANCOIS BUSH
 * Confirm MTBE hits by EPA 8260

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
27860-001			
002			
003			
004			
005			

01 NOV 21 17:30

SAMPLING COMPLETED DATE TIME SAMPLING PERFORMED BY

RELEASSED BY DATE TIME RECEIVED BY

RELEASSED BY DATE TIME RECEIVED BY

RELEASSED BY DATE TIME RECEIVED BY

RESULTS NEEDED NO LATER THAN Per Client

DATE TIME RECEIVED BY DATE TIME

DATE TIME RECEIVED BY DATE TIME

DATE TIME RECEIVED BY DATE TIME

SHIPPED VIA DATE SENT TIME SENT COOLER #