A Report Prepared For:

Pacific Electric Motor Company 1009 66th Avenue Oakland, California 94601

Attention: Mr. Rand Perry

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FOURTH QUARTER 2001 GROUNDWATER MONITORING REPORT PACIFIC ELECTRIC MOTOR COMPANY 1009 66TH AVENUE OAKLAND, CALIFORNIA

JANUARY 29, 2002

By:

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618.001.02.002

No. 5647

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1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring performed by PES Environmental, Inc. (PES) during the Fourth Quarter of 2001 at Pacific Electric Motor Company (PEM) in Oakland, California (Plate 1). The current groundwater monitoring program consists of measuring the depth to groundwater in four onsite monitoring wells, and purging and sampling the monitoring wells (Wells MW-1, MW-2, MW-3, and MW-4) on a quarterly basis.

The purpose of the groundwater monitoring program is to: (1) assess the presence and concentration trends of petroleum hydrocarbons in groundwater; and (2) monitor water-level variations at the site.

2.0 BACKGROUND INFORMATION

The site is located in a residential and light industrial area in Oakland, California and is presently used to repair large electric motors. PEM formerly operated a 2,000-gallon steel gasoline underground storage tank (UST) on the east side of the warehouse building (Plate 2). The tank was reportedly installed in approximately 1975 (ENVIRON, 1997). In February 1995, the UST was removed by W. A. Craig, Inc. (WAC). Observations at the time of removal indicated that the tank was in good condition and no holes were evident. However, free-phase gasoline product was observed on the water surface in the tank excavation. Soil samples collected from the UST excavation and associated piping trenches detected total petroleum hydrocarbons as gasoline (TPH-g) at concentrations up to 10,000 milligrams per kilogram.

In April 1995, WAC performed a soil investigation consisting of the drilling and sampling of nine soil borings to delineate the lateral and vertical extent of the petroleum hydrocarbons in soil. On the basis of the results of the soil investigation, WAC prepared and implemented a remediation program to remove soil affected by petroleum hydrocarbons. Approximately 1,500 cubic yards of soil were excavated and stockpiled onsite, and 116,000 gallons of petroleum hydrocarbon-affected water were pumped from the excavation and disposed. A dewatering sump installed by WAC during soil excavation was later converted to groundwater monitoring well WAC-1 (Plate 2). Because of its uncertain construction, ACEHS stated that no monitoring of Well WAC-1 is required (ACEHS, 1997). WAC summarized the results of their remediation program in a report entitled *Excavation and Sampling Report, Pacific Electric Motor Co., 1009 66th Avenue, Oakland, California*, dated May 12, 1997 (WAC, 1997).

ENVIRON, Inc. (ENVIRON) installed and sampled three shallow monitoring wells (MW-1, MW-2, MW-3) in June 1997 to evaluate groundwater conditions in the vicinity of the former UST. Well completion details are summarized in Table 1. The well installation program and associated soil and groundwater sampling program was summarized in the ENVIRON report

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Soil and Ground Water Investigation, Summary Report, Pacific Electric Motor Co., 1009-66th Avenue, Oakland, California, dated July 17, 1997 (ENVIRON, 1997). ENVIRON concluded that the remediation performed had successfully removed the source of the petroleum hydrocarbons (i.e., the former UST), and that residual concentrations of petroleum hydrocarbons in soil and groundwater were present only in the immediate vicinity of the former UST.

In September 1998 PES conducted additional soil and groundwater sampling in the vicinity of the former UST, as requested by the ACEHS in a May 13, 1998 letter to PEM (ACEHS, 1998a). Two soil borings were drilled within the backfill of the former UST excavation, and one monitoring well was installed downgradient of the former UST. Petroleum hydrocarbons were generally not detected in the excavation backfill, although groundwater samples collected from both soil borings indicated the presence of methyl tert-butyl ether (MTBE), a gasoline additive. Elevated petroleum hydrocarbons were found in soil and groundwater downgradient of the UST excavation during installation and groundwater sampling of monitoring well MW-4. On the basis of the elevated concentrations of petroleum hydrocarbons, PES recommended performing periodic groundwater monitoring. The additional investigation was summarized in the PES report Results of Additional Soil and Groundwater Investigation, 1009 66th Avenue, Oakland, California, dated November 11, 1998 (PES, 1998a).

3.0 WATER-LEVEL MEASUREMENTS

Water levels in four onsite groundwater monitoring wells (Wells MW-1, MW-2, MW-3, and MW-4) were measured by Blaine Tech Services, Inc. (Blaine Tech) of San Jose, California, prior to sampling on November 28, 2001. Depth-to-water in the monitoring wells was measured from the top-of-casing (TOC) reference benchmark to a precision of 0.01-feet using an electronic water-level indicator/interface probe. Depth-to-water measurements were converted to water-level elevations by subtracting the depth to water from the TOC elevation referenced to a site datum established by ENVIRON (ENVIRON, 1997). The monitoring well construction details and TOC elevations are compiled in Table 1. Free product was not observed in any of the monitoring wells.

To prevent cross-contamination between wells, the portion of the water-level indicator that was submerged in the well was cleaned between well measurements using a phosphate-free detergent/deionized water solution and double rinsed with deionized water.

4.0 GROUNDWATER SAMPLING

On November 28, 2001, Blaine Tech, collected groundwater samples from Wells MW-1, MW-2, MW-3, and MW-4. Groundwater samples were collected from each well after removing approximately three well volumes of water with disposable bailers. During well

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purging, the discharged water was monitored for pH, temperature, electrical conductivity, and turbidity.

Following purging, samples were collected from the wells using a stainless steel or Teflon disposable bailer and transferred to the appropriate laboratory sample containers. The sample containers were filled slowly to minimize sample volatilization and to ensure that the sample was free of air bubbles. The samples were labeled to designate sample number, time and date collected, and analysis required. The samples were immediately placed in a chilled, thermally-insulated cooler. To prevent cross-contamination between wells, the pump and stainless steel bailer were decontaminated using a high-pressure steam cleaner prior to initial use and after sampling at each well. Sampling procedures are documented in the groundwater sampling report prepared by Blaine Tech, included in Appendix A.

Groundwater samples were transported under chain-of-custody protocol to a state-certified laboratory. Chromalab, Inc. of Pleasanton, California analyzed samples for: (1) total petroleum hydrocarbons quantified as gasoline (TPH-g) using EPA Test Method 8015 Modified; (2) benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Test Method 8021B; and (3) methyl tert-butyl ether (MTBE) using EPA Test Method 8021B. If detected, the presence of MTBE was confirmed using EPA Test Method 8260. The laboratory reports and chain-of-custody records are included in Appendix B.

5.0 DISCUSSION OF MONITORING RESULTS

This section presents a summary of water-level measurements and groundwater analyses results from the November 2001 sampling event.

5.1 Water-Level Measurements

Depth-to-water measurements taken on November 28, 2001 ranged from 4.92 feet (MW-3) to 5.67 feet (MW-4) below TOC. Groundwater-level elevations calculated from the November 2001 water levels ranged from 94.70 feet (MW-2) to 95.36 feet (MW-1) referenced to site datum established by ENVIRON (ENVIRON, 1997). Current and historical depth-to-water measurements and calculated water-level elevations are presented in Table 2.

Plate 3 presents water-level elevation contours developed from water levels measured on November 28, 2001. Groundwater elevations generally indicate a southwesterly flow direction, consistent with historical observations of southerly to southwesterly groundwater flow direction. The water-level elevation for Well MW-3 was not used in contouring; it may be anomalous or indicate a minor tidal effect. The groundwater gradient is approximately 0.0125 foot per foot (ft/ft) between MW-1 and MW-4.

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5.2 Groundwater Chemistry

A summary of current and historical laboratory chemical results for petroleum hydrocarbons is presented in Table 3. The analytical laboratory reports and chain-of-custody forms are presented in Appendix B.

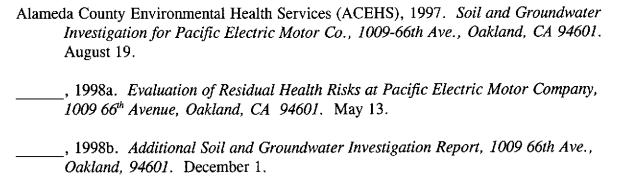
During the current monitoring period petroleum hydrocarbon compounds were detected in groundwater samples from wells MW-1 and MW-4; no petroleum hydrocarbon compounds were detected in the samples collected from wells MW-2 and MW-3.

At well MW-1, petroleum hydrocarbons were detected at the following concentrations: TPH-g at 1,800 micrograms per liter (μ g/L), benzene at 27 μ g/L, ethyl benzene at 72 μ g/L, xylenes at 160 μ g/L, and MTBE was not detected above laboratory reporting limits. Although petroleum hydrocarbon concentrations in well MW-1 have fluctuated over the past year, concentrations have generally decreased since June 1997.

At well MW-4, TPH-g was detected at 67,000 μ g/L, benzene at 8,100 μ g/L, toluene at 3,300 μ g/L, ethyl benzene at 1,400 μ g/L, xylenes at 5,600 μ g/L, and MTBE at 57,000 μ g/L. These data are generally consistent with historical conditions.

Current data from the downgradient monitoring wells (MW-2 and MW-3) indicate no detected petroleum hydrocarbons and are consistent with previous sampling events. These data appear to indicate that the petroleum hydrocarbon plume associated with the former UST remains stable and localized.

6.0 REFERENCES



- ENVIRON Corporation, 1997. Soil and Groundwater Investigation, Summary Report, Pacific Electric Motor Co., 1009-66th Avenue, Oakland, California. July 17.
- PES Environmental, Inc. (PES), 1998a. Results of Additional Soil and Groundwater Investigation, 1009 66th Avenue, Oakland, California. November 11.

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- ______, 1998b. Proposal, Quarterly Groundwater Sampling, Pacific Electric Motor Company, Oakland, California. December 11.
- W. A. Craig, Inc. (WAC), 1997. Excavation and Sampling Report, Pacific Electric Motor Co., 1009 66th Avenue, Oakland, California. May 12. (Partial)

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Table 1. Monitoring Well Completion Details Quarterly Monitoring Report Fourth Quarter 2001 Pacific Electric Motor Company 1009 66th Avenue, Oakland, California

Well	Date	Installed	TOC Elevation	Boring Diameter	Casing Diameter	Total Depth Boring	Total Depth of Casing		d Interval feet bgs)
Number	Installed	Ву	(feet*)	(inches)	(inches)	(feet bgs)	(feet bgs)	Тор	Bottom
MW-1	6/10/97	ENVIRON	100.67	8	2	26.5	25.5	5	25
MW-2	6/10/97	ENVIRON	99.85	8	2	25.5	25.5	5	25
MW-3	6/10/97	ENVIRON	99.93	8	2	25.5	25.5	5	25
MW-4	9/14/98	PES	100.32	8	2	25.0	25.0	15	25

Notes

^{* =} Referenced to site datum established by ENVIRON (1997) bgs = Below ground surface

Table 2. Water-Level Elevation Data Quarterly Monitoring Report Fourth Quarter 2001 Pacific Electric Motor Company 1009 66th Avenue, Oakland, California

Well Number	Date	Measured By	Top of Casing Elevation (feet*)	Depth to Water (feet BTOC)	Water-level Elevation (feet*)
MW-1	6/19/97	ENVIRON	100.67	5.87	94.80
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7/1/97	ENVIRON	100.67	5.88	94.79
	9/29/97	PES	100.67	6.45	94.22
	12/16/97	PES	100.67	3.42	97.25
	3/10/98	PES	100.67	3.06	97.61
	10/1/98	PES	100.67	6.36	94.31
	1/19/99	PES	100.67	5.33	95.34
	4/15/99	PES	100.67	3.23	97.44
	5/6/99	PES	100.67	4.36	96.31
	7/30/99	PES	100.67	5.49	95.18
	11/15/99	PES	100.67	6.30	94.37
	3/24/00	PES	100.67	3.47	97.20
	5/18/00	PES	100.67	4.34	96.33
	7/26/00	PES	100.67	5.28	95.39
	10/30/00	PES	100.67	5.68	94.99
	11/14/00	PES	100.67	5.53	95.14
	7/24/01	PES	100.67	5.52	95.15
	11/28/01	PES	100.67	5.31	95.36
MW-2	6/19/97	ENVIRON	99.85	5.30	94.55
	7/1/97	ENVIRON	99.85	5.37	94.48
	9/29/97	PES	99.85	6.05	93.80
	12/16/97	PES	99.85	3.81	96.04
	3/10/98	PES	99.85	2.89	96.96
	10/1/98	PES	99.85	5.83	94.02
	1/19/99	PES	99.85	5.26	94.59
	4/15/99	PES	99.85	3.19	96.66
	5/6/99	PES	99.85	3.91	95.94
	7/30/99	PES	99.85	4.79	95.06
	11/15/99	PES	99.85	5.92	93.93
	3/24/00	PES	99.85	3.55	96.30
	5/18/00	PES	99.85	4.04	95.81
	7/26/00	PES	99.85	4.85	95.00
	10/30/00	PES	99.85	5.31	94.54
	11/14/00	PES	99,85	5.14	94.71
	7/24/01	PES	99.85	5.12	94.73
	11/28/01	PES	99.85	5.15	94.70
MW-3	6/19/97	ENVIRON	99.93	5.50	94.43
14144-0	7/1/97	ENVIRON	99.93	5.52	94.41
	9/29/97	PES	99.93	6.16	93.77
	12/16/97	PES	99.93	5.52	94.41
	3/10/98	PES	99.93	3.11	96.82
	10/1/98	PES	99.93	5.96	93.97
	1/19/99	PES	99.93	5.45	94.48
	4/15/99	PES	99.93	3.85	96.08
	5/6/99	PES	99.93	4.12	95.81
	7/30/99	PES	99.93	5.14	94.79
	11/15/99	PES	99.93	6.35	93.58
	3/24/00	PES	99.93	3.29	96.64
	5/18/00	PES	99.93	4.16	95.77

Table 2. Water-Level Elevation Data Quarterly Monitoring Report Fourth Quarter 2001 Pacific Electric Motor Company 1009 66th Avenue, Oakland, California

Well Number	Date	Measured By	Top of Casing Elevation (feet*)	Depth to Water (feet BTOC)	Water-leve Elevation (feet*)
MW-3 Cont.	7/26/00	PES	99.93	5.14	94.79
	10/30/00	PES	99.93	5.43	94.50
	11/14/00	PES	99.93	5.25	94.68
	7/24/01	PES	99.93	5.29	94.64
	11/28/01	PES	99.93	4.92	95.01
MW-4	10/1/98	PES	100.32	6.32	94.00
	1/19/99	PES	100.32	5.59	94.73
	4/15/99	PES	100.32	7.71 #	92.61 #
	5/6/99	PES	100.32	4.50	95.82
	7/30/99	PES	100.32	5.18	95.14
	11/15/99	PES	100.32	6.27	94.05
	3/24/00	PES	100.32	3.59	96.73
	5/18/00	PES	100.32	4.40	95.92
	7/26/00	PES	100.32	5.65	94.67
	10/30/00	PES	100.32	5.89	94.43
	11/14/00	PES	100.32	5.61	94.71
	7/24/01	PES	100.32	5.34	94.98
	11/28/01	PES	100.32	5.67	94.65

Notes:

BTOC = Below top of casing

^{* =} Referenced to site datum established by ENVIRON (1997)

^{# =} Anomalous data, not used for water-level elevation contouring

Table 3. Analytical Results for Groundwater Samples Quarterly Monitoring Report Fourth Quarter 2001 Pacific Electric Motor Company 1009 66th Avenue, Oakland, California

	<u> </u>					Ethyl-		MTBE	MTBE
Sample	Date	Sampled	TPH-g	Benzene	Toluene	benzene	Xylenes	EPA 8020	EPA 8260
Location	Sampled	By	(μg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Location	Sampled	Бу	<u>(µg/c/</u>	<u> (µg, L)</u>	(Pg/L/				(F3: -/
MW-1	6/19/97	ENVIRON	18,000	3,300	200	1,100	4,900	<250	
	9/29/97	PES	29,000	4,800	<25	2,000	3,500	<250	
	12/16/97	PES	<50	1.3	<0.5	0.6	0.7	<5	
	3/10/98	PES	190	2.0	<0.5	5.7	1.7	<5	
	1/19/99	PES	1,000	40	<0.5	18	68	8.3	6.9
	4/15/99	PES	<50	0.92	0.9	0.7	0.87	<5.0	
	7/30/99	PES	1,400	60	<0.5	63	120	13	<5.0
	11/15/99	PES	3,600	120	<0.5	150	620	<5.0	
	3/24/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	5/18/00	PES	1,300	10	1.2	38	130	8.6	<5.0
	7/26/00	PES	6,400	100	7.4	260	680	<5.0	NA
	10/30/00	PES	6,000	130	14	330	950	<100	NA
	7/24/01	PES	1,200	13	<0.5	70	39	13	NA
	11/28/01	PES	1,800	27	0.93	72	160	<5.0	NA
MW-2	6/19/97	ENVIRON	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	9/29/97	PES	<50	< 0.5	< 0.5	<0.5	<0.5	<5	
	12/16/97	PES	<50	<0.5	<0.5	<0.5	<0.5	<5	
	3/10/98	PES	<50	< 0.5	<0.5	<0.5	<0.5	<5.0	
	1/19/99	PES	<50	< 0.5	<0.5	<0.5	<0.5	<5.0	<5.0
	4/15/99	PES	<50	0.75	0.64	<0.5	0.74	<5.0	
	7/30/99	PES	<50	< 0.5	<0.5	<0.5	<0.5	<5.0	
	11/15/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/24/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	5/18/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	7/26/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/30/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	7/24/01	PES	<50	<0.5	<0.5	<0.5	<0.5	7.6	
	11/28/01	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
MW-3	6/19/97	ENVIRON	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	9/29/97	PES	<50	<0.5	<0.5	<0.5	<0.5	<5	
	12/16/97	PES	<50	<0.5	<0.5	<0.5	<0.5	<5	
	3/10/98	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	1/19/99	PES	<50	0.78	<0.5	<0.5	<0.5	8.7	<5.0
	4/15/99	PES	<50	5.4	3.9	1.7	5.6	23	25
	7/30/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	11/15/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/24/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	

Table 3. Analytical Results for Groundwater Samples Quarterly Monitoring Report Fourth Quarter 2001 Pacific Electric Motor Company 1009 66th Avenue, Oakland, California

						Ethyl-		MTBE	MTBE
Sample	Date	Sampled	TPH-g	Benzene	Toluene	benzene	Xylenes	EPA 8020	EPA 8260
Location	Sampled	Ву	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3	5/18/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
(cont.)	7/26/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
, ,	10/30/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-
	7/24/01	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	11/28/01	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
MW-4	9/15/98	PES	170,000	26,000	32,000	2,900	18,000	26,000	
	1/19/99	PES	2,600	1,700	3.8	25	29	13,000	16,000
	4/15/99	PES	210,000	28,000	15,000	3,700	19,000	52,000	67,000
	7/30/99	PES	91,000	16,000	7,500	2,300	8,500	68,000	67,000
	11/15/99	PES	63,000	8,500	2,400	1,400	4,000	57,000	58,000
	3/24/00	PES	95,000	16,000	13,000	2,500	12,000	44,000	NA
	5/18/00	PES	91,000	15,000	10,000	2,200	9,600	64,000	77,000
	7/26/00	PES	130,000	11,000	6,400	1,700	6,500	80,000	NA
	10/30/00	PES	59,000	6,700	2,200	750	3,100	68,000	68,000*
	7/24/01	PES	180,000	25,000	23,000	3,500	20,000	44,000	44,000*
	11/28/01	PES	67,000	8,100	3,300	1,400	5,600	57,000	57,000*

Notes:

TPH-g = Total petroleum hydrocarbons quantified as gasoline (EPA 8015M)

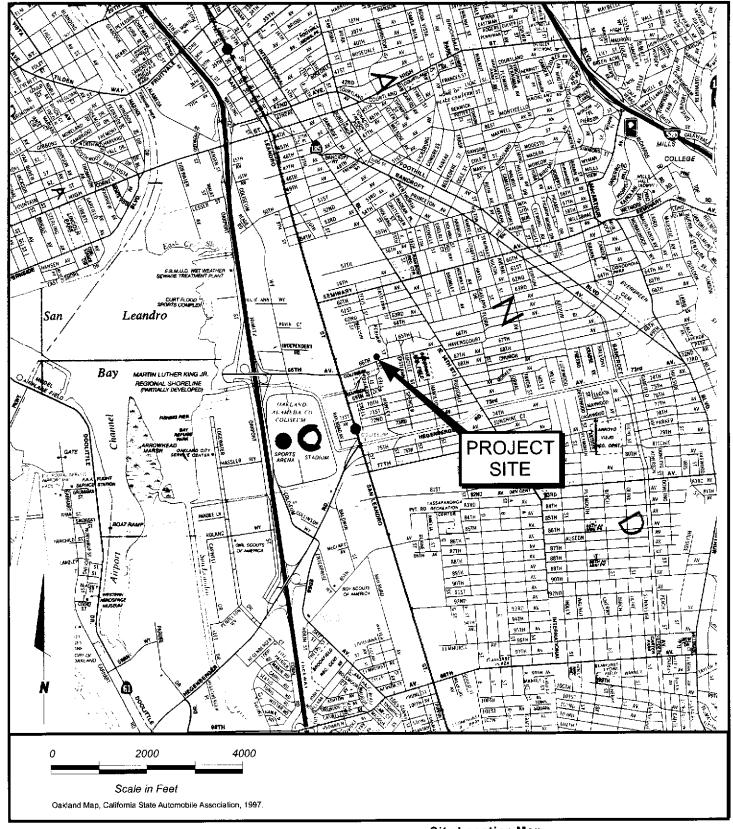
MTBE = Methyl tert-butyl ether (EPA 8020; detected concentrations were confirmed by EPA 8260)

μg/L = Micrograms per liter

<50 = Not detected at or above the indicated laboratory reporting limit

NA = Not analyzed

^{* =} MTBE result confirmed but not requantified by EPA Method 8260





PES Environmental, Inc. Engineering & Environmental Services

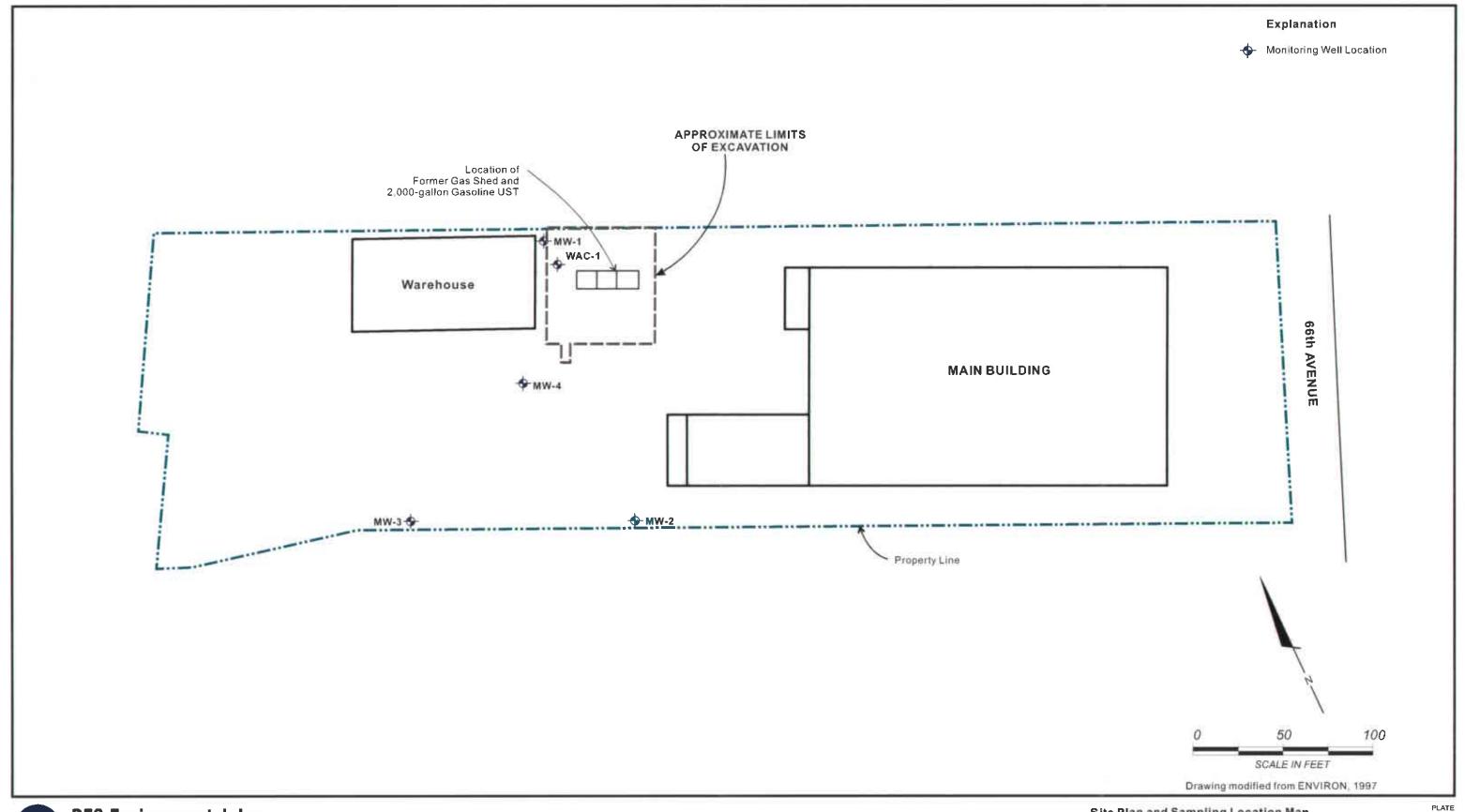
Site Location Map Fourth Quarter Groundwater **Monitoring Report** Pacific Electric Motor Company 1009 66th Avenue, Oakland, California

PLATE

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PES Environmental, Inc.
Engineering & Environmental Services

Site Plan and Sampling Location Map Fourth Quarter 2001 Groundwater Monitoring Report Pacific Electric Motor Company 1009 66th Avenue, Oakland, California

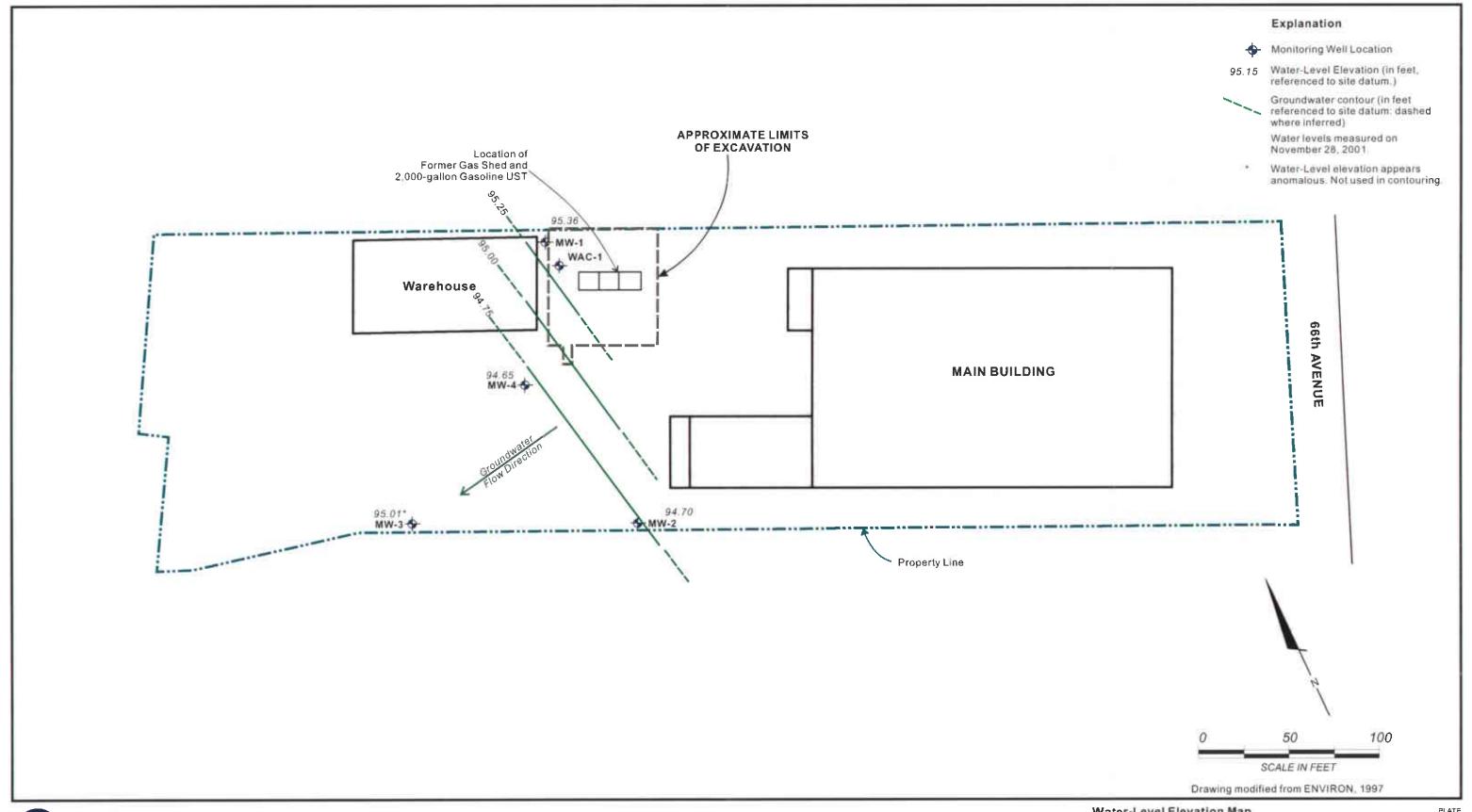
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1/02 DATE



PES Environmental, Inc.
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Water-Level Elevation Map
Fourth Quarter 2001 Groundwater Monitoring Report
Pacific Electric Motor Company
1009 66th Avenue, Oakland, California

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REVIEWED BY

1/02 DATE

APPENDIX A

GROUNDWATER SAMPLING REPORT



1680 ROGERS AVENUE SAN JOSE, CA 95112-1105 (408) 573-7771 FAX (408) 573-0555 PHONE CONTRACTOR'S LICENSE #746684 www.blainetech.com

December 10, 2001

PES Environmental, Inc. 1682 Novato Blvd., Suite 100 Novato, CA 94947

ATTN: Saul Germanis

Site: Pacific Electric Motor Company 1099 66th Ave. Oakland, California

Date: November 28, 2001

GROUNDWATER SAMPLING REPORT 011128-CW-2

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results, or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection, well evacuation and sample collection. Measurements include the total depth of the well and the depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, turbidity, and temperature readings were obtained during well evacuation and at the time of sample collection.

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STANDARD PRACTICES

Evacuation and Sampling Equipment

As shown in the TABLE OF WELL MONITORING DATA, the wells at this site were evacuated according to a protocol requirement for the removal of three case volumes of water, before sampling. The wells were evacuated using bailers.

Samples were collected using bailers.

Bailers: A bailer, in its simplest form, is a hollow tube that has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up and out of the well. Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near surface liquids, in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of Teflon or stainless steel, and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also, where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water deeper in the well.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

Effluent Materials

The evacuation process creates a volume of effluent water that must be contained. Blaine Tech Services, Inc. will place this water in appropriate containers of the client's choice or bring new 55-gallon DOT 17 E drums to the site, which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

Sample Containers

Sample containers are supplied by the laboratory performing the analyses.

Sample Handling Procedures

Following collection, samples are promptly placed in an ice chest containing ice or an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days, as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date and signature of person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were analyzed at STL Chromalab in Pleasanton, California. STL Chromalab is certified by the California Department of Health Services under the Environmental Laboratory Accreditation Program (ELAP), and is listed as ELAP #1094.

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Reportage

Submission to the Regional Water Quality Control Board and the local implementing agency should include copies of the sampling report, the chain of custody and the certified analytical report issued by the Hazardous Materials Testing Laboratory.

Please call if we can be of any further assistance.

William Jon

WRJ/mb

attachments: table of well monitoring data

chain of custody

TABLE OF WELL MONITORING DATA

Well I.D. Date Sampled	MW-1 11/28/2001	1		MW-2 11/28/20	01		MW-3 11/28/20	001		MW-4 11/28/20	001	
Well Diameter (in.) Total Well Depth (ft.) Depth To Water (ft.)	2 24.90 5.31			2 24.88 5.15			2 24.71 4.92			2 24.74 5.67		
Free Product (in.) Reason If Not Sampled	NONE -			NONE 			NONE			NONE 		
Case Volume (gal.) Did Well Dewater? Gallons Actually Evacuated	3.1 NO 9.3			3.1 NO 9.3			3.1 NO 9.3			3.0 NO 9.0		
Purging Device Sampling Device	BAILER BAILER			BAILER BAILER			BAILER BAILER			BAILER BAILER		
Time Temperature (Fahrenheit) pH Conductivity (micromhos/cm) Nephelometric Turbidity Units	64.8 7.2 475	14:07 64.6 7.0 516 107	14:12 64.6 7.0 545 68	14:47 62.5 7.1 1193 43	14:52 63.4 7.1 1152 68	14:57 63.2 7.1 1109 74	15:20 60.8 7.1 2340 32	15:25 62.0 7.1 3311 32	15:32 62.0 7.0 5710 10	16:11 62.4 6.8 5446 21	16:17 67.4 6.7 5780 24	16:23 68.1 6.7 5852 22
BTS Chain of Custody BTS Sample I.D. DOHS HMTL Laboratory Analysis	011128-CV MW-1 CHROMO TPH-G, BT	LAB	3E	011128- MW-2 CHROM TPH-G, I		B E	011128- MW-3 CHROM TPH-G,		ВЕ	011128- MW-4 CHROM TPH-G,		BE

APPENDIX B

LABORATORY REPORTS
AND
CHAIN-OF-CUSTODY RECORDS

Date: January 28, 2002



PES

1682 Novato Blvd., Suite 10 Novato, CA 94947-7021

Attn:

Mr. Saul Germanas

Project: 011128-CW-2

Pacific Electric Motor

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com CA DHS ELAP#1094

Dear Sal,

Attached is our report for your samples received on Thursday November 29, 2001 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after January 13, 2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: asalimpour@chromalab.com Sincerely,

Afsaneh Salimpour

Atsanch. Salingroe

Project Manager

Date: January 28, 2002



CASE NARRATIVE

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com CA DHS ELAP#1094

General and Sample Comments

We (STL San Francisco) received 4 Water samples, on Nov 29 2001 6:50PM.

MTBE for sample MW-4 was confirmed by 8260 GC/MS. This conformation is a qualitative analysis n quantitative.

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STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 www.sti-inc.com www.chromalab.com

CA DHS ELAP#1094

011128-CW-2

Project: Pacific Electric Motor

Samples Reported

Sample ID	Matrix	Date Sampled	Lab#
MW-1	Water	11/28/2001 14:28	1
MW-2	Water	11/28/2001 15:06	2
MW-3	Water	11/28/2001 15:50	3
MW-4	Water	11/28/2001 16:41	

Gas/BTEX Compounds by 8015M/8021

Test Method:

8021B

SERVICES

TRENT

PES

Attn: Saul Germanas

8015M

Prep Method: 5030 STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 www.sti-inc.com

www.chromalab.com

CA DHS ELAP#1094

Sample ID: MW-1

011128-CW-2 Pacific Electric Motor

11/28/2001 14:28

Lab Sample ID: Received:

2001-11-0587-001

11/29/2001 18:50

Extracted:

12/05/2001 17:38

QC-Batch:

2001/12/05-01.02

Sampled: Matrix:

Project:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1800	50	ug/L	1.00	12/05/2001 17:38	
Benzene	27	0.50	ug/L	1.00	12/05/2001 17:38	
Toluene	0.93	0.50	ug/L	1.00	12/05/2001 17:38	
Ethyl benzene	72	0.50	ug/L	1.00	12/05/2001 17:38	
Xylene(s)	160	0.50	ug/L	1.00	12/05/2001 17:38	
МТВЕ	ND	5.0	ug/L	1.00	12/05/2001 17:38	
Surrogate(s)						
Trifluorotoluene	87.9	58-124	%	1.00	12/05/2001 17:38	
4-Bromofluorobenzene-FID	100.8	50-150	%	1.00	12/05/2001 17:38	

Gas/BTEX Compounds by 8015M/8021

PES

Test Method:

8021B

8015M

Prep Method: 5030

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

SERVICES

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP#1094

Attn: Saul Germanas

Sample ID:

MW-2

011128-CW-2

Pacific Electric Motor

11/28/2001 15:06

Lab Sample ID: 2001-11-0587-002

Received:

11/29/2001 18:50

Extracted:

12/05/2001 18:10

QC-Batch:

2001/12/05-01.02

Sampled: Matrix:

Project:

Water

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/05/2001 18:10	
Benzene	ND	0.50	ug/L	1.00	12/05/2001 18:10	
Toluene	ND	0.50	ug/L	1.00	12/05/2001 18:10	
Ethyl benzene	ND	0.50	ug/L	1.00	12/05/2001 18:10	
Xylene(s)	ND	0.50	ug/L	1.00	12/05/2001 18:10	
MTBE	ND	5.0	ug/L	1.00	12/05/2001 18:10	
Surrogate(s)						
Trifluorotoluene	85.8	58-124	%	1.00	12/05/2001 18:10	
4-Bromofluorobenzene-FID	98.8	50-150	%	1.00	12/05/2001 18:10	_

Gas/BTEX Compounds by 8015M/8021

PE\$

Test Method:

8021B

8015M

Attn: Saul Germanas

Prep Method:

5030

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

SERVICES

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP#1094

Sample ID: Project:

Sampled: Matrix:

MW-3

011128-CW-2

Pacific Electric Motor

Received:

Lab Sample ID:

2001-11-0587-003

11/29/2001 18:50

Extracted:

12/05/2001 18:41

11/28/2001 15:50

Water

QC-Batch:

2001/12/05-01.02

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/05/2001 18:41	
Benzene	ND	0.50	ug/L	1.00	12/05/2001 18:41	
Toluene	ND	0.50	ug/L	1.00	12/05/2001 18:41	
Ethyl benzene	ND	0.50	ug/L	1.00	12/05/2001 18:41	
Xylene(s)	ND	0.50	ug/L	1.00	12/05/2001 18:41	
MTBE	ND	5.0	ug/L	1.00	12/05/2001 18:41	
Surrogate(s)						
Trifluorotoluene	84.5	58-124	%	1.00	12/05/2001 18:41	
4-Bromofluorobenzene-FID	99.5	50-150	%	1.00	12/05/2001 18:41	

Gas/BTEX Compounds by 8015M/8021

PES

Attn: Saul Germanas

Sample ID: MW-4

8021B 8015M

STL Chromalab 1220 Quarry Lane

SERVICES

Pleasanton, CA 94566 Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com

www.chromalab.com CA DHS ELAP#1094

Test Method:

Prep Method: 5030

2001-11-0587-004 Lab Sample ID:

Received:

11/29/2001 18:50

Extracted:

12/06/2001 12:48

QC-Batch:

2001/12/06-01.02

Sampled: Matrix:

Project:

Water

011128-CW-2

Pacific Electric Motor

11/28/2001 16:41

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	67000	25000	ug/L	500.00	12/06/2001 12:48	
Benzene	8100	250	ug/L	500.00	12/06/2001 12:48	
Toluene	3300	250	ug/L	500.00	12/06/2001 12:48	
Ethyl benzene	1400	250	ug/L	500.00	12/06/2001 12:48	
Xylene(s)	5600	250	ug/L	500.00	12/06/2001 12:48	
MTBE	57000	2500	ug/L	500.00	12/06/2001 12:48	
Surrogate(s)						
Trifluorotoluene	92.4	58-124	%	500.00	12/06/2001 12:48	
4-Bromofluorobenzene-FID	103.6	50-150	%	500.00	12/06/2001 12:48	

Water

Batch QC report

Test Method:

8015M

8021B

Prep Method: 5030

QC Batch # 2001/12/05-01.02

Date Extracted: 12/05/2001 08:35

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

TRENT

SERVICES

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP#1094

Method Blank

MB: 2001/12/05-01.02-003

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/05/2001 08:35	
Benzene	ND	0.5	ug/L	12/05/2001 08:35	İ
Toluene	ND	0.5	ug/L	12/05/2001 08:35	
Ethyl benzene	ND	0.5	ug/L	12/05/2001 08:35	
Xylene(s)	ND	0.5	ug/L	12/05/2001 08:35	1
MTBE	ИD	5.0	ug/L	12/05/2001 08:35	
Surrogate(s)					
Trifluorotoluene	93.3	58-124	%	12/05/2001 08:35	
4-Bromofluorobenzene-FID	103.6	50-150	%	12/05/2001 08:35	

Water

Batch QC report

Test Method:

Method Blank

MB: 2001/12/06-01.02-003

8015M

8021B

Prep Method:

5030

QC Batch # 2001/12/06-01.02

Date Extracted: 12/06/2001 08:11

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/06/2001 08:11	
Benzene	ND	0.5	ug/L	12/06/2001 08:11	
Toluene	ND	0.5	ug/L	12/06/2001 08:11	
Ethyl benzene	ND	0.5	ug/L	12/06/2001 08:11	
Xylene(s)	ND	0.5	ug/L	12/06/2001 08:11	
MTBE	ND	5.0	ug/L	12/06/2001 08:11	
Surrogate(s)					
Trifluorotoluene	96.2	58-124	%	12/06/2001 08:11	
4-Bromofluorobenzene-FID	107.8	50-150	%	12/06/2001 08:11	_

Batch QC report

Extracted:

Extracted:

Water

12/05/2001 09:07

12/05/2001 09:39

Test Method:

LCS:

8021B

Laboratory Control Spike (LCS/LCSD)

2001/12/05-01.02-004

LCSD: 2001/12/05-01.02-005

Prep Method:

5030

QC Batch # 2001/12/05-01.02

Analyzed: 12/05/2001 09:07

Analyzed: 12/05/2001 09:39

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

SERVICES

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com

Compound	Conc. [Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery (%)		Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	94.0	91.0	100.0	100.0	94.0	91.0	3.2	77-123	20		
Toluene	89.7	86.6	100.0	100.0	89.7	86.6	3.5	78-122	20		
Ethyl benzene	94.3	91.1	100.0	100.0	94.3	91.1	3.5	70-130	20		
Xylene(s)	280	271	300	300	93.3	90.3	3.3	75-125	20		
Surrogate(s)											
Trifluorotoluene	477	456	500	500	95.4	91.2		58-124			

Batch QC report

Test Method:

8015M

Prep Method: 5030

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

> Tel 925 484 1919 Fax 925 484 1096 www.stf-inc.com www.chromatab.com

SEVERN

TRENT

SERVICES

l	Laborat	tory Control Spike (LCS/i	_CSD)	Water	QC Batch	# 2001/12/05-01.02
١	LCS:	2001/12/05-01.02-006	Extracted:	12/05/2001 10:10		12/05/2001 10:10
l	LCSD:	2001/12/05-01.02-007	Extracted:	12/05/2001 10:42	Analyzed:	12/05/2001 10:42

Compound	Conc. [ug/L]		Exp.Conc. [u	Exp.Conc. [ug/L]		Recovery [%]		Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	433	451	500	500	86.6	90.2	4.1	75-125	20		
Surrogate(s)							<u> </u>				
4-Bromoftuorobenzene-	524	537	500	500	104.8	107.4		50-150			

Batch QC report

Extracted:

Extracted:

Water

12/06/2001 08:43

12/06/2001 09:15

Test Method:

LCS:

8021B

Laboratory Control Spike (LCS/LCSD)

2001/12/06-01.02-004

LCSD: 2001/12/06-01.02-005

Prep Method: 5030

QC Batch # 2001/12/06-01.02

Analyzed: 12/06/2001 08:43

Analyzed: 12/06/2001 09:15

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

SERVICES

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com

Compound	Conc.	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		Ctrl.Limits (%)		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	95.2	90.5	100.0	100.0	95.2	90.5	5.1	77-123	20		
Toluene	90.7	86.4	100.0	100.0	90.7	86.4	4.9	78-122	20		
Ethyl benzene	95.0	90.4	100.0	100.0	95.0	90.4	5.0	70-130	20		
Xyfene(s)	281	268	300	300	93.7	89.3	4.8	75-125	20		
Surrogate(s)			1								
Trifluorotoluene	487	451	500	500	97.4	90.2		58-124			

Batch QC report

Extracted:

Extracted:

Water

12/06/2001 09:47

12/06/2001 10:18

Test Method:

LCS:

8015M

Laboratory Control Spike (LCS/LCSD)

2001/12/06-01.02-006

LCSD: 2001/12/06-01.02-007

Prep Method:

5030

QC Batch # 2001/12/06-01.02

Analyzed: 12/06/2001 09:47

Analyzed: 12/06/2001 10:18

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

SEVERN

TRENT

SERVICES

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Compound	Conc. [ug/L]		Exp.Conc.	Exp.Conc. [ug/L]		Recovery [%]		Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	441	481	500	500	88.2	96.2	8.7	75-125	20		
Surrogate(s)									1		
4-Bromofluorobenzene-	527	540	500	500	105.4	108.0		50-150			

Batch QC Report

Test Method: 8021B

MS:

Prep Method: 5030

QC Batch # 2001/12/05-01.02 Water Matrix Spike (MS / MSD)

MW-2 >> MS Sample ID:

2001/12/05-01.02-023

Lab ID:

2001-11-0587-002

Extracted: 12/05/2001 19:45 Analyzed: 12/05/2001 19:45

Dilution:

1

1

MSD: 2001/12/05-01.02-024

Extracted: 12/05/2001 20:17

Analyzed: Dilution:

12/05/2001 20:17

SERVICES

STL Chromalab 1220 Quarry Lane Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 www.stl-inc.com www.chromalab.com

Compound		Conc. [ug/L]			Exp.Conc. [ug/L] Recovery [%]				Ctrl.Limits [%]		Flag	ıs
	мѕ	MSD	Sample	мѕ	MSD	MS	MSD	[%]	Recovery	RPD	мѕ	MSD
Benzene	81.9	88.1	ND	100.0	100.0	81.9	88.1	7.3	65-135	20		İ
Toluene	77.7	82.7	ND	100.0	100.0	77.7	82.7	6.2	65-135	20		
Ethyl benzene	81.3	85.6	ND	100.0	100.0	81.3	85.6	5.2	65-135	20		
Xylene(s)	241	251	ND	300	300	80.3	83.7	4.1	65-135	20		
Surrogate(s)												
Trifluorotoluene	391	428		500	500	78.2	85.6		58-124			

Batch QC Report

Test Method: 8015M

Prep Method: 5030

Matrix Spike (MS / MSD)

Water

QC Batch # 2001/12/05-01.02

Sample ID: MW-2 >> MS

Lab ID:

2001-11-0587-002

2001/12/05-01.02-025 MS:

Extracted: 12/05/2001 20:48

Analyzed:

12/05/2001 20:48

Dilution:

1

MSD: 2001/12/05-01.02-026

Extracted: 12/05/2001 21:20

Analyzed:

12/05/2001 21:20

1

Dilution:

CA DHS ELAP#1094

www.chromalab.com

SERVICES

STL Chromalab

1220 Quarry Lane Pleasanton, CA 94566

Tel 925 484 1919

Fax 925 484 1096

www.stl-inc.com

Compound		Conc. [ug/L]			Exp.Conc. [ug/L] Recovery [%]				Ctrl.Limits (%)		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	410	406	ND	500	500	82.0	81.2	1.0	65-135	20		
Surrogate(s) 4-Bromofluorobenz	511	512		500	500	102.	102.4		50-150			

DIA	INIE	0.44	005		GERS AVEN		CONDUCT ANAL				YSIS TO DETECT				LAB STL	Chromalab	6338	3 6 DHS#
BLAINE SAN JO TECH SERVICES, INC.				FAX	NIA 95112-11 (408) 573-77 (408) 573-05	7771							1	- 1	ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND PROCESS REGION LIA			
CHAIN OF		BTS#	0111	28-0	:w-Z	ွ							:		OTHER			
CLIENT	PES					CONTAINERS									SPECIAL INSTRUCTION	DNS		
SITE Pacific Electric Motor				ONTA									Invoice and Repo	ort to: PES				
1099 66th Avenue					ALL O	(8015)	(8020)	(8020) *						Attn: Saul Germ	anis			
Oakland, CA					SIE									* Confirm MTB	E hits by EP	A 8240/82	60-	
			MATRIX	X CON	ITAINERS	COMPOSITE	- Gas								* Confirm MTB	-//-	058) '
SAMPLE I.D.	DATE	TIME	S= SOIL W=H ₂ 0	TOTAL		0=0	TPH	BTEX	MTBE					İ	ADD'L INFORMATION	STATUS	CONDITION	
Mw - 1	11/28	1428	W	6			X	X	×									,
MW-2	1/20	1506	1			_	X	X	X									
MW-3	1/28	1550					1	X	X									
P-4M	1/20	(641	1	V														
			<u> </u>			-			ļ									
			<u> </u>			_												
						-	1											*
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