



PACIFIC
ENVIRONMENTAL
GROUP INC.

ENVIRONMENTAL
PROTECTION

15 MAY -3 PM 1:12

May 2, 1995
Project 330-084.2B

Mr. Michael Whelan
ARCO Products Company
2155 South Bascom Avenue, Suite 202
Campbell, California 95008

Re: Quarterly Report - First Quarter 1995
Remedial System Performance Evaluation
ARCO Service Station 0374
6407 Telegraph Avenue at Alcatraz Avenue
Oakland, California

Dear Mr. Whelan:

This letter, prepared by Pacific Environmental Group, Inc. (PACIFIC) on behalf of ARCO Products Company, presents the results of the first quarter 1995 groundwater monitoring and performance evaluation of the groundwater extraction (GWE) system at the site referenced above. In addition, a summary of work performed and anticipated at the site is included.

QUARTERLY GROUNDWATER MONITORING RESULTS

Groundwater samples were collected by PACIFIC on February 23, 1995 and analyzed for the presence of total petroleum hydrocarbons calculated as gasoline (TPH-g), benzene, toluene, ethylbenzene, xylenes (BTEX compounds). The certified analytical report, chain-of-custody documentation, and field data sheets are presented as Attachment A. Field and laboratory procedures are presented as Attachment B.

Depth to water data collected on February 23, 1995 indicate that groundwater levels across the site have fallen an average of 0.75 foot since November 12, 1994. Groundwater flow was to the southwest with an approximate gradient of 0.04. This flow direction and gradient are consistent with historical data. Groundwater elevation data are presented in Table 1. A liquid surface elevation contour map based on the February 23, 1995 data is shown on Figure 1.

Results of groundwater monitoring this quarter are generally consistent with previous results. TPH-g and benzene were not detected in Wells MW-1, MW-5, and MW-6. TPH-g was not detected in Well MW-2. TPH-g concentrations in Wells MW-3 and MW-4 were 120 and 1,700 parts per billion (ppb), respectively. Benzene concentrations in Wells MW-2, MW-3, and MW-4 were 1.8, 1.3, and 340 ppb, respectively. Separate-phase hydrocarbons were not observed in any site well this quarter, or during any sampling event since December 1991. Groundwater analytical data are presented in Table 2. A TPH-g and benzene concentration map is shown on Figure 2.

REMEDIAL PERFORMANCE EVALUATION

Remedial action consisting of GWE is currently in progress at this site. The GWE system has been in operation since December 21, 1993.

Remedial objectives for the site include: (1) migration control of the impacted groundwater plume, and (2) petroleum hydrocarbon mass reduction. To evaluate GWE system performance, PACIFIC monitors groundwater levels, instantaneous and average flow rate, evaluates and analyzes samples of system influent and effluent for TPH-g and BTEX compounds.

Below is a brief description of the GWE system and an evaluation of its performance from December 16, 1994 to March 3, 1995.

GROUNDWATER EXTRACTION SYSTEM

Description

The GWE system utilizes an electric pump in Well W-2, and three 200-pound granular activated carbon (GAC) vessels arranged in series to treat the extracted groundwater. The carbon vessels are connected and valved so that the vessel order can be rotated, following a GAC vessel change-out. Sample ports are located at the treatment system influent, between the GAC vessels, at the effluent, and at the extraction well head. GWE system effluent is discharged into the East Bay Municipal Utility District (EBMUD) sanitary sewer system under a sewer discharge permit that is effective through December 31, 1997.

Migration Control

Progress toward meeting the migration control objective is evaluated by comparison of the groundwater elevation contour map (Figure 1) and TPH-g and benzene concentration map (Figure 2) from previous and current groundwater monitoring events.

As indicated by Figures 1 and 2, although no hydraulic control was observed, TPH-g and benzene concentrations in downgradient off-site groundwater monitoring wells were either non-detectable or decreased compared to previous quarters.

Mass Reduction

Progress toward meeting the mass reduction objective is determined by evaluating the GWE system mass removal data and the TPH-g concentration trends in associated groundwater monitoring wells. GWE system operational data are collected monthly. The system flow and influent sample analysis data are used to estimate TPH-g mass removal values. During the reporting period, GWE removed approximately 0.33 pound (0.05 gallon) of TPH-g and 0.05 pound (0.01 gallon) of benzene from impacted groundwater beneath the site. To date, GWE has removed approximately 2.08 pounds (0.34 gallon) of TPH-g and 0.29 pound (0.04 gallon) of benzene from impacted groundwater beneath the site. GWE system performance data are presented in Table 3. Treatment system certified analytical reports and chain-of-custody documentation are presented as Attachment C. Progress toward site remediation is presented in the following table.

Analyte	Mass Removed			
	12/16/94 through 03/03/95		Cumulative	
	(lbs)	(gal)	(lbs)	(gal)
<u>Groundwater Extraction</u>				
TPH-g	0.33	0.05	2.08	0.34
Benzene	0.05	0.01	0.29	0.04
lbs	= Pounds			
gal	= Gallons			
TPH-g	= Total petroleum hydrocarbons calculated as gasoline.			

Groundwater Extraction System Operational Data

The GWE system was restarted on January 10, 1995, following completion of repairs and was approximately 86 percent operational during the period following start-up. During the reporting period, the GWE system discharged treated groundwater at an average flow rate of approximately 0.24 gallon per minute (gpm) for a period discharge of 17,783 gallons. Instantaneous flow rates from Well W-2 ranged from 0 to 8.0 gpm. Concentrations for TPH-g and benzene in Well W-2 ranged from 1,100 to 3,500 ppb.

Carbon loading is currently estimated at approximately 2.6 percent by weight (assumes an 8 percent isotherm). During this quarter, the GWE system was in compliance with all conditions stipulated in the discharge permit. Treatment system analytical data are presented in Table 4. On the certified analytical reports, the data have been labeled by sample port number which correspond to the following process points: SP-105 is the

influent, SP-106 is between the first and second GAC vessels, SP-107 is between the second and third GAC vessels, and SP-108 is the effluent. Operation and maintenance field data sheets are presented as Attachment B.

SUMMARY OF WORK

Work Performed First Quarter 1995

- Prepared and submitted fourth quarter 1994 groundwater monitoring and remedial system performance evaluation.
- Replaced lids to GAC vessels 1 and 2.
- Compound was caulked at edge of secondary containment to prevent leakage into service station.
- Repaired telephone line.
- Repaired Parafax telemetry system.
- Sampled site wells for first quarter 1995 groundwater monitoring program. Sampling performed by PACIFIC.
- Reactivated system and performed troubleshooting on GWE system.
- Repaired transfer pump.

Work Anticipated Second Quarter 1995

- Continue to monitor and optimize GWE system.
- Prepare and submit first quarter 1995 groundwater monitoring and remedial system performance evaluation report.
- Sample site wells for second quarter 1995 groundwater monitoring program. Sampling to be performed by PACIFIC.
- Prepare second quarter 1995 groundwater monitoring and remedial system performance evaluation report.
- Issue quarterly self-monitoring report to the EBMUD.

May 2, 1995

Page 5

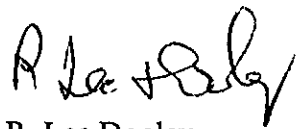
If there are any questions regarding the contents of this letter, please call.

Sincerely,

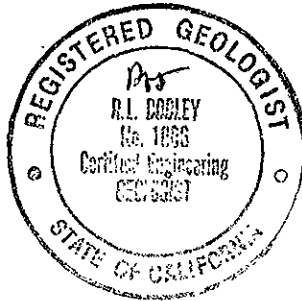
Pacific Environmental Group, Inc.



Shaw Garakani
Project Engineer



R. Lee Dooley
Senior Geologist
CEG 1006



- Attachments:
- Table 1 - Liquid Surface Elevation Data
 - Table 2 - Groundwater Analytical Data - Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)
 - Table 3 - Groundwater Extraction System Performance Data
 - Table 4 - Treatment System Analytical Data - Total Petroleum Hydrocarbons (TPH as Gasoline and BTEX Compounds)
 - Figure 1 - Liquid Surface Elevation Contour Map
 - Figure 2 - TPH-g/Benzene Concentration Map
 - Attachment A - Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets
 - Attachment B - Field and Laboratory Procedures
 - Attachment C - Treatment System Certified Analytical Reports and Chain-of-Custody Documentation

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency
Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region

Table 1
Liquid Surface Elevation Data

ARCO Service Station 0374
6407 Telegraph Avenue at Alcatraz Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-1	07/20/89	159.44	8.04	--	151.40
	08/30/89		8.47	--	150.97
	10/04/89		8.50	--	150.94
	01/10/90		6.74	--	152.70
	08/07/90		6.87	--	152.57
	12/06/90		7.35	--	152.09
	12/19/90		7.22	--	152.22
	01/29/91		8.28	--	151.16
	02/20/91		7.98	--	151.46
	04/25/91		6.89	--	152.55
	05/31/91		7.64	--	151.80
	07/08/91		8.17	--	151.27
	08/09/91		8.58	--	150.86
	09/25/91		8.82	--	150.62
	10/17/91		8.96	--	150.48
	11/20/91		8.60	--	150.84
	12/27/91		8.71	--	150.73
	01/19/92		7.83	--	151.61
	02/19/92		6.68	--	152.76
	03/09/92		4.47	--	154.97
	04/15/92	158.91	6.44	--	152.47
	05/12/92		7.31	--	151.60
	06/16/92		7.97	--	150.94
	07/14/92		8.22	--	150.69
	08/07/92		8.46	--	150.45
	09/22/92		6.76	--	152.15
	10/12/92		7.13	--	151.78
11/23/92		7.24	--	151.67	
12/16/92		6.44	--	152.47	
01/21/93		5.03	--	153.88	
02/22/93		4.93	--	153.98	
03/25/93		5.13	--	153.78	
04/27/93		5.68	--	153.23	
08/04/93		7.91	--	151.00	
10/13/93		8.81	--	150.10	
02/03/94		7.51	--	151.40	
04/29/94		7.20	--	151.71	
08/02/94		8.02	--	150.89	
11/12/94		6.70	--	152.21	
02/23/95		7.77	--	151.14	
MW-2	07/20/89	158.46	8.15	--	150.31
	08/30/89		8.42	--	150.04
	10/04/89		8.40	--	150.06
	01/10/90		6.12	--	152.34
	08/07/90		6.35	--	152.11
	12/06/90		7.15	--	151.31
	12/19/90		7.38	--	151.08
	01/29/91		8.41	--	150.05
	02/20/91		8.26	--	150.20
	04/25/91		7.70	--	150.76
	05/31/91		8.10	--	150.36
	07/08/91		8.34	--	150.12
	08/09/91		8.51	--	149.95
	09/25/91		8.66	--	149.80
10/17/91		8.80	--	149.66	

Table 1 (continued)
Liquid Surface Elevation Data

ARCO Service Station 0374
6407 Telegraph Avenue at Alcatraz Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-2 (cont.)	11/20/91	157.92	8.66	--	149.80
	12/27/91		8.57	Sheen	149.89
	01/19/92		8.25	--	150.21
	02/19/92		7.50	--	150.96
	03/09/92		7.40	--	151.06
	04/15/92		7.72	--	150.20
	05/12/92		8.01	--	149.91
	06/16/92		8.25	--	149.67
	07/14/92		8.33	--	149.59
	08/07/92		8.42	--	149.50
	09/22/92		6.13	--	151.79
	10/12/92		6.80	--	151.12
	11/23/92		7.15	--	150.77
	12/16/92		6.66	--	151.26
	01/21/93		5.93	--	151.99
	02/22/93		6.01	--	151.91
	03/25/93		5.91	--	152.01
	04/27/93		6.63	--	151.29
	08/04/93		8.02	--	149.90
	10/13/93		8.64	--	149.28
	02/03/94		8.08	--	149.84
	04/29/94		8.14	--	149.78
	08/02/94		8.31	--	149.61
11/12/94	7.74	--	150.18		
02/23/95	7.53	--	150.39		
MW-3	07/20/89	154.18	7.58	--	146.60
	08/30/89		8.00	--	146.18
	10/04/89		7.73	Emulsion	146.45
	01/10/90		7.78	--	146.40
	08/07/90		7.66	--	146.52
	12/06/90		7.75	--	146.43
	12/19/90		7.58	--	146.60
	01/29/91		7.60	--	146.58
	02/20/91		7.51	--	146.67
	04/25/91		6.37	--	147.81
	05/31/91		7.19	--	146.99
	07/08/91		7.60	--	146.58
	08/09/91		7.94	--	146.24
	09/25/91		8.23	--	145.95
	10/17/91		8.44	--	145.74
	11/20/91		8.78	--	145.40
	12/27/91		8.05	Sheen	146.13
	01/19/92		7.65	--	146.53
	02/19/92		6.48	--	147.70
	03/09/92		5.45	--	148.73
	04/15/92		7.75	--	145.89
	05/12/92		7.45	--	146.19
	06/16/92		7.51	--	146.13
	07/14/92		7.60	--	146.04
	08/07/92		7.85	--	145.79
	09/22/92		7.73	--	145.91
	10/12/92		7.83	--	145.81
	11/23/92		6.98	--	146.66
	12/16/92		5.96	--	147.68
	01/21/93		4.62	--	149.02

Table 1 (continued)
Liquid Surface Elevation Data

ARCO Service Station 0374
6407 Telegraph Avenue at Alcatraz Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-3 (cont.)	02/22/93		5.15	--	148.49
	03/25/93		5.45	--	148.19
	04/27/93		5.79	--	147.85
	08/04/93		7.24	--	146.40
	10/13/93		8.03	--	145.61
	02/03/94		6.66	--	146.98
	04/29/94		7.70	--	145.94
	08/02/94		7.47	--	146.17
	11/12/94		5.91	--	147.73
02/23/95		7.18	--	146.46	
MW-4	07/20/89	157.08	8.09	--	148.99
	08/30/89		8.45	Sheen	148.63
	10/04/89		8.57	Sheen	148.51
	01/10/90		7.26	--	149.82
	08/07/90		6.87	--	150.21
	12/06/90		8.02	Sheen	149.06
	12/19/90		7.69	--	149.39
	01/29/91		8.39	Sheen	148.69
	02/20/91		8.16	--	148.92
	04/25/91		7.14	--	149.94
	05/31/91		7.64	--	149.44
	07/08/91		8.34	--	148.74
	08/09/91		8.60	--	148.48
	09/25/91		8.80	--	148.28
	10/17/91		8.98	--	148.10
	11/20/91		8.78	--	148.30
	12/27/91		8.82	--	148.26
	01/19/92		8.18	--	148.90
	02/19/92		7.62	--	149.46
	03/09/92		6.68	--	150.40
	04/15/92	156.53	6.96	--	149.57
	05/12/92		7.45	--	149.08
	06/16/92		7.94	--	148.59
	07/14/92		8.21	--	148.32
	08/07/92		8.41	--	148.12
	09/22/92		6.14	--	150.39
	10/12/92		6.45	--	150.08
	11/23/92		7.48	--	149.05
	12/16/92		6.95	--	149.58
	01/21/93		5.53	--	151.00
	02/22/93		5.83	--	150.70
	03/25/93		5.96	--	150.57
	04/27/93		6.30	--	150.23
08/04/93		7.71	--	148.82	
10/13/93		8.53	--	148.00	
02/03/94		9.27	--	147.26	
04/29/94		9.50	--	147.03	
08/02/94		8.69	--	147.84	
11/12/94		6.88	--	149.65	
02/23/95		9.38	--	147.15	
MW-5	04/15/92	151.33	8.05	--	143.28
	05/12/92		8.44	--	142.89
	06/16/92		8.74	--	142.59
	07/14/92		9.70	--	141.63

Table 1 (continued)
Liquid Surface Elevation Data

ARCO Service Station 0374
6407 Telegraph Avenue at Alcatraz Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	SPH Thickness (feet)	Liquid Surface Elevation (feet, MSL)
MW-5 (cont.)	08/07/92		9.10	--	142.23
	09/22/92		9.26	--	142.07
	10/25/92		9.24	--	142.09
	11/23/92		Well Inaccessible		
	12/16/92		8.20	--	143.13
	01/21/93		7.89	--	143.44
	02/22/93		7.29	--	144.04
	03/25/93		7.51	--	143.82
	04/27/93		7.72	--	143.61
	08/05/93		8.66	--	142.67
	10/13/93		9.00	--	142.33
	02/03/94		9.38	--	141.95
	04/29/94		Well Inaccessible		
	08/02/94		8.71	--	142.62
	11/12/94		8.65	--	142.68
	02/23/95		9.23	--	142.10
MW-6	04/15/92	153.84	4.55	--	149.29
	05/12/92		5.32	--	148.52
	06/16/92		5.91	--	147.93
	07/14/92		6.08	--	147.76
	08/07/92		6.36	--	147.48
	09/22/92		6.53	--	147.31
	10/25/92		6.54	--	147.30
	11/23/92		5.75	--	148.09
	12/16/92		4.69	--	149.15
	01/21/93		3.82	--	150.02
	02/22/93		3.78	--	150.06
	03/25/93		3.93	--	149.91
	04/27/93		4.30	--	149.54
	08/05/93		5.39	--	148.45
	10/13/93		7.12	--	146.72
	02/03/94		5.17	--	148.67
04/29/94		4.66	--	149.18	
08/02/94		5.64	--	148.20	
11/12/94		6.32	--	147.52	
02/23/95		5.60	--	148.24	
SPH	= Separate-phase hydrocarbons				
MSL	= Mean sea level				
TOC	= Top of casing				

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and Oil and Grease)

ARCO Service Station 0374
 6407 Telegraph Avenue at Alcatraz Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Oil and Grease (ppb)
MW-1	07/21/89	33	0.77	1.6	15	5	NA	NA
	08/30/89	<20	<0.50	<0.50	<0.50	<0.50	NA	NA
	10/04/89	<20	<0.50	<0.50	<0.50	<0.50	NA	NA
	01/10/90	<20	<0.50	<0.50	<0.50	<0.50	NA	NA
	08/07/90	<20	<0.50	<0.50	<0.50	<0.50	NA	NA
	12/06/90	<50	3.6	2.7	0.60	5.8	NA	NA
	02/20/91	<50	<0.50	<0.50	<0.50	<0.50	NA	NA
	07/08/91	<30	<0.30	<0.30	<0.30	<0.30	NA	NA
	09/25/91	<30	57	57	54	1.7	NA	NA
	11/20/91	57	9.2	3.7	0.63	25	NA	NA
	03/09/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	04/15/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	07/14/92	<50	<0.5	0.7	<0.5	1.3	NA	NA
	10/12/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	01/21/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	04/27/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	08/04/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	10/13/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/03/94	<50	1.4	2.1	<0.5	2	NA	NA
	04/29/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
08/02/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
11/12/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
02/23/95	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	
MW-2	07/21/89	4,200	280	210	38	24	NA	NA
	08/30/89	4,200	160	260	45	240	NA	NA
	10/04/89	4,300	860	300	29	330	NA	NA
	01/10/90	8,000	890	710	120	760	NA	NA
	08/07/90	6,000	880	76	25	80	NA	NA
	12/06/90	1,600	330	69	18	63	NA	NA
	02/20/91	1,300	160	46	13	48	NA	NA
	07/08/91	310	76	18	7.7	24	NA	NA
	09/25/91	83	17	0.69	2.2	4.1	NA	NA
	11/20/91	180	46	6.1	3	8.7	NA	NA
	03/09/92	690	170	25	21	58	NA	NA
	04/15/92	86	20	2.3	3.8	85	NA	NA
	07/14/92	160	46	1.4	1.2	35	NA	NA
	10/12/92	230	59	7	55	11	NA	NA
	01/21/93	450	70	6.6	22	54	NA	NA
	04/27/93	<50	6.6	<0.5	0.7	1.1	NA	NA
	08/04/93	<50	2.1	<0.5	<0.5	<0.5	NA	NA
	10/13/93	<50	14	<0.5	<0.5	<0.5	NA	NA
	02/03/94	<50	4.4	<0.5	<0.5	0.8	NA	NA
	04/29/94	150	38	0.7	4.3	4.8	NA	NA
08/02/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
11/12/94	95	28	0.7	2.5	7.5	NA	NA	
02/23/95	<50	1.8	<0.50	<0.50	<0.50	NA	NA	
MW-3	07/21/89	430	9	4.8	<0.50	50	NA	NA
	08/30/89	1,200	85	46	84	55	NA	NA
	10/04/89	7,000	580	900	120	670	NA	NA
	01/10/90	940	130	59	21	73	NA	NA
	08/07/90	2,300	180	64	59	120	NA	NA

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and Oil and Grease)

ARCO Service Station 0374
 6407 Telegraph Avenue at Alcatraz Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Oil and Grease (ppb)	
MW-3 (cont.)	12/06/90	460	52	55	14	39	350	NA	
	02/20/91	470	36	30	9.3	31	<100	<5,000	
	07/08/91	2500	240	470	74	320	NA	NA	
	09/25/91	1,100	120	110	34	120	NA	NA	
	11/20/91	1,000	180	140	43	140	NA	NA	
	03/10/92	1,200	200	110	53	130	NA	NA	
	04/15/92	1,600	200	13	110	81	NA	NA	
	07/14/92	5,200	620	44	310	250	NA	NA	
	10/12/92	850	150	5.2	55	46	NA	NA	
	01/21/93	620	100	12	35	35	NA	NA	
	04/27/93	1,700	180	83	64	100	NA	NA	
	08/04/93	380	70	12	29	41	NA	NA	
	10/13/93	780	90	6	40	31	NA	NA	
	02/03/94	340	42	8.7	9.2	28	NA	NA	
	04/29/94	830	150	38	27	48	NA	NA	
	08/02/94	220	25	1.7	7.6	8.3	NA	NA	
	11/12/94	160	6.0	<0.5	3.2	4.1	NA	NA	
02/23/95	120	1.3	<0.50	1.1	1.6	NA	NA		
MW-4	07/21/89	8,700	720	360	120	640	NA	NA	
	08/30/89	7,300	630	220	N/A	320	NA	NA	
	10/04/89	21,000	2,300	1,300	280	1,300	NA	NA	
	01/10/90	4,300	470	250	63	430	NA	NA	
	08/07/90	69,000	8,700	4,200	540	4,600	28,000	<5,000	
	12/06/90	Separate-Phase Hydrocarbon Sheen							
	02/20/91	5,200	690	200	95	580	<100	<5,000	
	07/08/91	1,700	280	68	37	170	NA	NA	
	09/25/91	6,300	2,100	290	210	590	NA	NA	
	11/20/91	2,700	1,200	200	110	320	NA	NA	
	03/10/92	690	180	80	18	43	NA	NA	
	04/15/92	8,500	2,100	750	280	1,000	NA	NA	
	07/14/92	10,000	2,900	530	290	930	NA	NA	
	10/12/92	19,000	5,200	1,600	490	1,800	690	NA	
	01/21/93	22,000	4,400	1,300	580	2,200	1,400	NA	
	04/27/93	21,000	4,800	1,200	630	2,400	1,100	NA	
	08/04/93	23,000	6,600	1,700	770	2,600	1500	NA	
	10/13/93	16,000	3,500	800	470	1,800	670	NA	
	02/03/94	850	140	84	7.9	59	59	NA	
	04/29/94	68	1.1	<0.5	<0.5	1.7	<50	NA	
08/02/94	52	5.7	<0.5	1.2	1.9	<50	NA		
11/12/94	1,600	230	51	81	190	90	NA		
02/23/95	1,700	340	81	52	130	NA	NA		
MW-5	04/15/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
	07/14/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
	10/25/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
	01/21/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
	04/27/93	<50	0.5	1	<0.5	0.8	NA	NA	
	08/05/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
	10/14/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	
	02/03/94	<50	0.8	1.7	<0.5	15	NA	NA	
	04/29/94	Well Inaccessible							
	08/02/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	

Table 2 (continued)
Groundwater Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline, BTEX Compounds, TPH as Diesel, and Oil and Grease)

ARCO Service Station 0374
 6407 Telegraph Avenue at Alcatraz Avenue
 Oakland, California

Well Number	Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH as Diesel (ppb)	Oil and Grease (ppb)
MW-5 (cont.)	11/12/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/23/95	<50	<0.50	0.56	<0.50	0.50	NA	NA
MW-6	04/15/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	07/15/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	10/25/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	01/21/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	04/27/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	08/05/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	10/13/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	02/03/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	04/29/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	08/02/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	11/12/94	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
02/23/95	<50	<0.50	<0.50	<0.50	<0.50	NA	NA	
ppb = Parts per billion								
NA = Not analyzed								
N/A = Not available								

**Table 3
Groundwater Extraction System Performance Data**

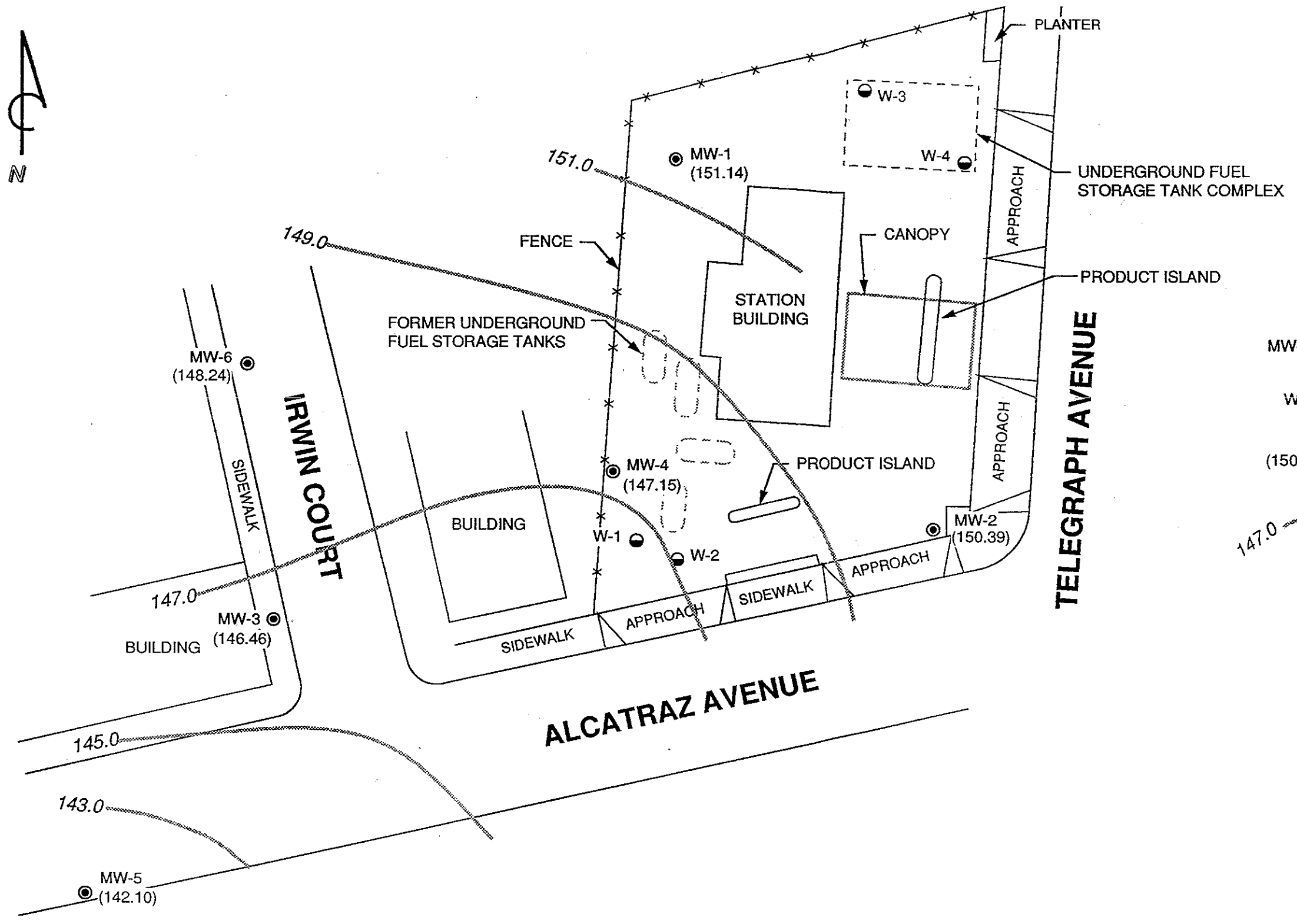
ARCO Service Station 0374
6407 Telegraph Avenue at Alcatraz Avenue
Oakland, California

Sample I.D.	Date Sampled	Totalizer Reading (gallons)	Net Volume (gallons)	Average Flow Rate (gpm)	TPH as Gasoline			Benzene			Primary Carbon Loading (percent)
					Influent Concentration (µg/L)	Net Removed (lbs)	Removed to Date (lbs)	Influent Concentration (µg/L)	Net Removed (lbs)	Removed to Date (lbs)	
INFL 12/21/93 a		22	22	0.21	NS	0.00	0.00	NS	0.000	0.00	0.0
INFL 12/23/93 a		4,855	4,833	1.6	9,300	0.38	0.38	1,200	0.024	0.02	0.5
INFL 12/27/93 a		6,871	2,016	0.36	5,700	0.13	0.51	820	0.017	0.04	0.6
INFL 12/29/93 a		7,192	371	0.13	5,800	0.02	0.53	950	0.003	0.04	0.7
INFL 01/03/94 a		7,925	733	0.10	6,500	0.01	0.54	860	0.006	0.05	0.7
INFL 01/05/94 a		8,162	237	0.08	5,200	0.01	0.55	970	0.002	0.05	0.7
INFL 01/11/94 a		8,907	745	0.08	6,300	0.03	0.58	900	0.006	0.06	0.7
INFL 01/13/94 a		9,175	268	0.09	8,600	0.02	0.60	950	0.002	0.06	0.7
INFL 01/24/94 a		9,306	131	0.08	NS	0.01	0.60	NS	0.001	0.06	0.8
INFL 02/24/94 a		14,555	5,249	0.21	4,200	0.28	0.88	520	0.011	0.07	1.1
INFL 03/24/94 a		23,723	9,168	0.24	6,200	0.40	1.40	1,100	0.062	0.13	1.8
INFL 04/26/94 b		29,543	5,820	0.12	6,400	0.15	1.55	1,400	0.061	0.19	1.9
INFL 05/24/94 c		35,082	5,539	0.14	NS	0.20	1.75	NS	0.043	0.24	2.2
INFL 11/17/94 d		35,507	425	N/A	2,100	0.00	1.75	460	0.001	0.24	2.2
INFL 01/10/95 e		36,493	986	0.01	1,100	0.01	1.76	180	0.003	0.24	2.2
INFL 02/07/95		41,399	4,906	0.12	3,500	0.09	1.86	370	0.011	0.25	2.3
INFL 03/03/95 f		53,290	11,891	0.34	NS	0.22	2.08	NS	0.035	0.29	2.6
REPORTING PERIOD: 12/16/94 - 3/03/95 (f)											
TOTAL POUNDS REMOVED:								2.08			0.29
TOTAL GALLONS REMOVED:								0.34			0.04
PERIOD POUNDS REMOVED:								0.33			0.05
PERIOD GALLONS REMOVED:								0.05			0.01
TOTAL GALLONS EXTRACTED:					53,340						
PERIOD GALLONS EXTRACTED:					17,783						
PERIOD AVERAGE FLOW RATE (gpm):					0.24						
PRIMARY BED CAPACITY REMAINING:					97.4%						
TPH = Total petroleum hydrocarbons gpm = Gallons per minute µg/L = Micrograms per liter lbs = Pounds NS = Not sampled N/A = Not available or not applicable					a. All data prior to 9/1/94 provided by prior consultant. b. Samples taken 4/21/94; totalizer reading from 4/26/94. c. Last site visit by RESNA on 5/24/94. d. Pacific Environmental Group, Inc. became consultant for the site 9/1/94. e. System started on January 10, 1995. f. Pounds removed of TPH and Benzene estimated from previous data.						
System operation began December 21, 1993, under RESNA Industries, Inc.; system shut down 4/27/94 - 11/17/94. Pounds of hydrocarbons removed to date through March 24, 1994 provided by prior consultant. Benzene mass removal from 12/21/93 through 4/27/94 estimated from data provided by prior consultant. Carbon loading assumes an 8% isotherm. See certified analytical reports for detection limits.											

Table 4
Treatment System Analytical Data
 Total Petroleum Hydrocarbons
 (TPH as Gasoline and BTEX Compounds)

ARCO Service Station 0374
 6407 Telegraph Avenue at Alcatraz Avenue
 Oakland, California

Date Sampled	TPH as Gasoline (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)
Influent Sample (INFL)					
11/17/94	2,100	460	6	37	82
01/10/95	1,100	180	2.7	26	51
02/07/95	3,500	370	120	67	230
Mid-Point Sample (Mid-point)					
11/17/94	<50	<0.50	<0.50	<0.50	<0.50
01/10/95	<50	<0.50	<0.50	<0.50	<0.50
02/07/95	<50	<0.50	<0.50	<0.50	<0.50
Mid-Point Sample (Mid-point)					
11/17/94	<50	<0.50	<0.50	<0.50	<0.50
01/10/95	<50	<0.50	<0.50	<0.50	<0.50
02/07/95	<50	<0.50	<0.50	<0.50	<0.50
Effluent Sample (EFFL)					
11/17/94	<50	<0.50	<0.50	<0.50	<0.50
01/10/95	<50	<0.50	<0.50	<0.50	<0.50
02/07/95	<50	<0.50	<0.50	<0.50	<0.50
ppb	= Parts per billion				
<	= Analyte was not present above the stated detection limit				



LEGEND

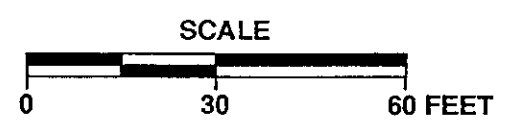
- MW-1 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- W-1 ● TANK PIT GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- (150.39) LIQUID SURFACE ELEVATION IN FEET - MSL, 2-23-95
- 147.0 LIQUID SURFACE ELEVATION CONTOUR IN FEET - MSL, 2-23-95



APPROXIMATE DIRECTION OF GROUNDWATER FLOW
 APPROXIMATE GRADIENT = 0.04



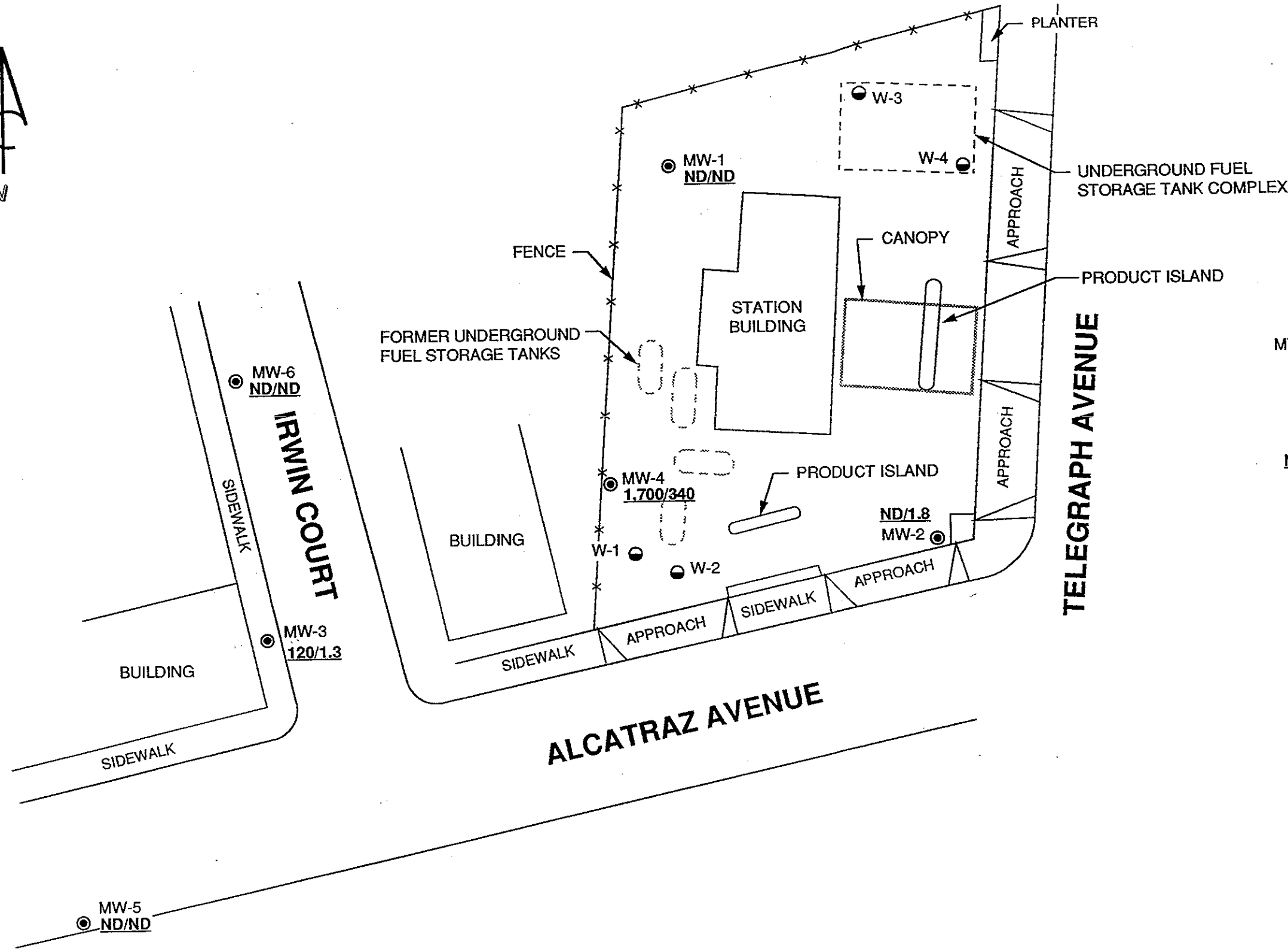
PACIFIC ENVIRONMENTAL GROUP, INC.



ARCO SERVICE STATION 0374
 6407 Telegraph Avenue at Alcatraz Avenue
 Oakland, California

LIQUID SURFACE ELEVATION CONTOUR MAP

FIGURE: 1
 PROJECT: 330-084.2B



LEGEND

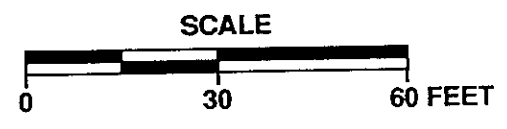
- MW-1 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- W-1 ● TANK PIT GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- ND/1.8 TPH-g/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 2-23-95
- ND NOT DETECTED



APPROXIMATE DIRECTION OF GROUNDWATER FLOW



PACIFIC ENVIRONMENTAL GROUP, INC.



ARCO SERVICE STATION 0374
6407 Telegraph Avenue at Alcatraz Avenue
Oakland, California

TPH-g/BENZENE CONCENTRATION MAP

FIGURE:
2
PROJECT:
330-084.2B

ATTACHMENT A

**CERTIFIED ANALYTICAL REPORTS,
CHAIN-OF-CUSTODY DOCUMENTATION,
AND FIELD DATA SHEETS**



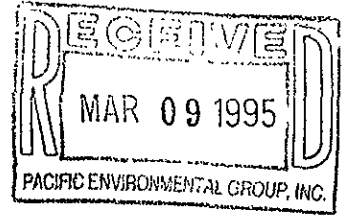
Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100



Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Project: 330-084.2G/0374, Berkeley

Enclosed are the results from samples received at Sequoia Analytical on February 24, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
9502G3701	LIQUID, MW-1	2/23/95	TPHGB Purgeable TPH/BTEX
9502G3702	LIQUID, MW-2	2/23/95	TPHGB Purgeable TPH/BTEX
9502G3703	LIQUID, MW-3	2/23/95	TPHGB Purgeable TPH/BTEX
9502G3704	LIQUID, MW-4	2/23/95	TPHGB Purgeable TPH/BTEX
9502G3705	LIQUID, MW-5	2/23/95	TPHGB Purgeable TPH/BTEX
9502G3706	LIQUID, MW-6	2/23/95	TPHGB Purgeable TPH/BTEX
9502G3707	LIQUID, TB-1	2/23/95	TPHGB Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

Arabella Caniba
Quality Assurance Department



**Sequoia
Analytical**

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite B

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.2G/0374, Berkeley Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502G37-01	Sampled: 02/23/95 Received: 02/24/95 Analyzed: 03/02/95 Reported: 03/08/95
Attention: Maree Doden		

QC Batch Number: GC030295BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.2G/0374, Berkeley Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502G37-02	Sampled: 02/23/95 Received: 02/24/95 Analyzed: 03/02/95 Reported: 03/08/95
Attention: Maree Doden		

QC Batch Number: GC030295BTEX17A

Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	1.8
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.2G/0374, Berkeley Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502G37-03	Sampled: 02/23/95 Received: 02/24/95 Analyzed: 03/02/95 Reported: 03/08/95
Attention: Maree Doden		

QC Batch Number: GC030295BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	120
Benzene	0.50	1.3
Toluene	0.50	N.D.
Ethyl Benzene	0.50	1.1
Xylenes (Total)	0.50	1.6
Chromatogram Pattern:		Gas
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.2G/0374, Berkeley Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502G37-04	Sampled: 02/23/95 Received: 02/24/95 Analyzed: 03/02/95 Reported: 03/08/95
Attention: Maree Doden		

QC Batch Number: GC030295BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	1700
Benzene	5.0	340
Toluene	5.0	81
Ethyl Benzene	5.0	52
Xylenes (Total)	5.0	130
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



**Sequoia
Analytical**

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.2G/0374, Berkeley Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502G37-05	Sampled: 02/23/95 Received: 02/24/95 Analyzed: 03/03/95 Reported: 03/08/95
Attention: Maree Doden		

QC Batch Number: GC030295BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	0.56
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	0.50
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Maree Doden	Client Proj. ID: 330-084.2G/0374, Berkeley Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502G37-06	Sampled: 02/23/95 Received: 02/24/95 Analyzed: 03/02/95 Reported: 03/08/95
--	--	---

QC Batch Number: GC030295BTEX20B
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600 FAX (510) 686-9689
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.2G/0374, Berkeley Sample Descript: TB-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502G37-07	Sampled: 02/23/95 Received: 02/24/95 Analyzed: 03/02/95 Reported: 03/08/95
--	--	---

QC Batch Number: GC030295BTEX20B
 Instrument ID: GCHP20

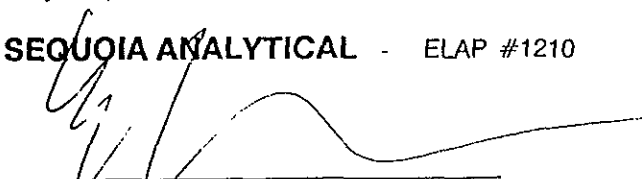
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	112

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Eileen Manning
 Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600

FAX (415) 364-9233
 FAX (510) 686-9689
 FAX (916) 921-0100

Pacific Environmental Group Client Project ID: 330-084.2G/0374, Berkeley
 2025 Gateway Place, Suite 440 Matrix: LIQUID
 San Jose, CA 95110
 Attention: Maree Doden Work Order #: 9502G37 01-05 Reported: Mar 8, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC030295BTEX17A	GC030295BTEX17A	GC030295BTEX17A	GC030295BTEX17A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9502G2001	9502G2001	9502G2001	9502G2001
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/2/95	3/2/95	3/2/95	3/2/95
Analyzed Date:	3/2/95	3/2/95	3/2/95	3/2/95
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	10	10	10	31
MS % Recovery:	100	100	100	103
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD	71-133	72-128	72-130	71-120
LCS				
Control Limits				

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Eileen A. Manning
 Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9502G37.PPP <1>



Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-084.2G/0374, Berkeley
Matrix: LIQUID

Work Order #: 9502G37 06-07

Reported: Mar 8, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC030295BTEX20B	GC030295BTEX20B	GC030295BTEX20B	GC030295BTEX20B
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9502D6104	9502D6104	9502D6104	9502D6104
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/2/95	3/2/95	3/2/95	3/2/95
Analyzed Date:	3/2/95	3/2/95	3/2/95	3/2/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L

Result:	10	11	11	32
MS % Recovery:	100	110	110	107

Dup. Result:	10	11	11	32
MSD % Recov.:	100	110	110	107

RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Eileen A. Manning
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9502G37.PPP <2>

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
 REC. BY (PRINT): CA

WORKORDER: 9502637
 DATE OF LOG-IN: 2/27/95

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION(ETC.)
1. Custody Seal(s)	Present / <u>Absent</u> Intact / Broken*	01	ABC	MW-1	3VOAS	LQ	2/23	
2. Custody Seal Nos.:	Put in Remarks Section	02		-2	↓	↓	↓	
3. Chain-of-Custody Records:	<u>Present</u> / Absent*	03		-3	↓	↓	↓	
4. Traffic Reports or Packing List:	Present / <u>Absent</u>	04		-4	↓	↓	↓	
5. Airbill:	Airbill / Sticker Present / <u>Absent</u>	05		-5	2VOAS	↓	↓	Should be 2 VOAS according to COC
6. Airbill No.:		06	g	-6	3VOAS	↓	↓	
7. Sample Tags:	<u>Present</u> / Absent*	07	AB	TB-1	2VOAS	↓	↓	
Sample Tag Nos.:	<u>Listed</u> / Not Listed on Chain-of-Custody	<div style="font-size: 2em; font-family: cursive;">Chris Allen</div>						
8. Sample Condition:	<u>Intact</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<u>Yes</u> / No*							
10. Proper preservatives used:	<u>Yes</u> / No*							
11. Date Rec. at Lab:	<u>2-24-95</u>							
12. Temp. Rec. at Lab:	<u>13°</u>							
13. Time Rec. at Lab:	<u>1610</u>							

* if Circled, contact Project manager and attach record of resolution

WELL SAMPLING REQUEST

952912

SITE INFORMATION FORM

Identification

Project # 330 084 26
Station # 00374
Site Address: 6047 Telegraph Av Berkeley
County: Alameda
Project Manager: K Brown
Requestor:
Client: ArcO
Client P.O.C.:
Date of request:

Project Type

- 1st Time visit
Quarterly
1st 2nd 3rd 4th
Monthly
Semi-Monthly
Weekly
One time event
Other:
Ideal field date(s):

Prefield Contacts/Permits

- Cal Trans
County
City
Private
Multi-Consultant Scheduling
Date(s):

Table with columns: Initials, Date. Row 1: F/S, RT, 2/27/95. Row 2: Copy/Dist, RT, ↓

FILE COPY

Purge Water Containment:

- Drums
Treatment System
Other Describe:

Field Tasks

- H2O levels All wells TOC
H2O Sampling MW1 thru MW7 Gas BTEX

Well Development

Other:

Site Safety

Wells

Concerns

- Flash Safety
Flagman
Cones
Barricades
No Turn/Lane Closed sign

Other:

Comments, remarks, etc. from Field Staff

(include problems encountered and out-of-scope work)

Describe task (i.e. Well groups and analytical params):

Activities occurring on site

(ie: remedial system construction, ongoing projects, etc.)

(Please attach: Site Map, Well Information Data, Site Safety Plan, Well logs as appropriate)

Budgeted hours:
Actual hours; On-Site: 4 1/2 } 6
Mob-de-Mob: 1 1/2 }

All Wells secured

Completed by: Paul W Date: 2-23-95

ARCO Products Company
Division of AtlanticRichfieldCompany

330 084 26

Task Order No.

17018 00

Chain of Custody

ARCO Facility no. 0374	City (Facility) Berkeley	Project manager (Consultant) K. Brown	Laboratory name SEQUOIA
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 408 441 7790	Contract number
Consultant name Pacific Environmental	Address (Consultant) 2025 GATEWAY PI #440 San Jose		Method of shipment
Fax no. (Consultant) 408 441 7531			Special detection Limit/reporting

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA 862/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/MS03E	EPA 801/8010	EPA 624/8240	EPA 625/8270	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals EPA 821/8000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA <input type="checkbox"/> 7420/7421 <input type="checkbox"/>	Special QA/QC	Remarks	Lab number	Turnaround time		
			Soil	Water	Other	Ice	Acid																			
MW1		3	X			ALL	2-23-95	10:05		X																
MW2		↓	↓																							
MW3		↓	↓																							
MW4		↓	↓																							
MW5		↓	↓																							
MW6		↓	↓																							
TB-1		2	↓																							

Condition of sample:	Temperature received:	Priority Rush 1 Business Day <input type="checkbox"/>
Relinquished by sampler Paul Weinhardt	Date 2-23-95 Time 15:30	Rush 2 Business Days <input type="checkbox"/>
Relinquished by	Date	Expedited 5 Business Days <input type="checkbox"/>
Relinquished by	Date	Standard 10 Business Days <input type="checkbox"/>

FIELD REPORT

PTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 330 084 26 LOCATION: 6407 Telegraph Av Berkeley CA DATE: 2-23-95
 CLIENT/STATION NO.: 374 FIELD TECHNICIAN: PAUL W DAY OF WEEK: THUR

PROBE TYPE/ID No.
 Oil/Water IF/ _____
 H₂O level indicator #2
 Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet)	Second Depth to Water (feet)	SEPARATE-PHASE HYDROCARBONS (SPH)											
											SPH Depth (feet)	SPH Thickness (feet)	Fresh	Weathered	Gas	Oil	VISCOSITY		Liquid Removed (gallons)			
									TOB/TOC	TOB/TOC	COLOR											
									TOB/TOC	TOB/TOC												
																SPH	H ₂ O					
	MW1	8:45	✓	✓	✓	✓	✓	26.57	7.77	7.96												
	MW2	8:55	✓	✓	✓	✓	✓	26.04	7.53	7.80												
	MW3	9:01	✓	✓	✓	✓	✓	26.72	7.18	7.46												
	MW4	8:51	✓	✓	✓	✓	✓	26.75	9.38	10.24												
	MW5	9:10	✓	✓	✓	✓	✓	22.05	9.23	9.68												
	MW6	9:06	✓	✓	✓	✓	✓	14.50	5.60	6.05												

Comments: _____

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 08426 LOCATION: 6407 Telegraph Berkeley WELL ID #: MW1

CLIENT/STATION No.: 0374 FIELD TECHNICIAN: Paul W

WELL INFORMATION

Depth to Liquid: --- TOB --- TOC ---
 Depth to water: 7.96 TOB 7.77 TOC ---
 Total depth: --- TOB 26.57 TOC ---
 Date: 2-23-95 Time (2400): 8:45

Probe Type and I.D. #
 Oil/Water interface
 Electronic Indicator # 2
 Other: ---

CASING DIAMETER **GAL/LINEAR FT.**

<input type="checkbox"/>	2	-----	<u>0.17</u>
<input type="checkbox"/>	3	-----	<u>0.38</u>
<input checked="" type="checkbox"/>	4	-----	<u>0.66</u>
<input type="checkbox"/>	4.5	-----	<u>0.83</u>
<input type="checkbox"/>	5	-----	<u>1.02</u>
<input type="checkbox"/>	6	-----	<u>1.5</u>
<input type="checkbox"/>	8	-----	<u>2.6</u>

SAMPLE TYPE

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: ---

TO 26.57 DTW 7.77 = 18.80 Gal/Linear Foot 1.66 = 12.40 x Casings 3 = Purge 37.22

DATE PURGED: 2-23-95 START: 9:50 END (2400 hr): 10:02 PURGED BY: PW
 DATE SAMPLED: 2-23-95 START: 10:02 END (2400 hr): 10:07 SAMPLED BY: PW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:53</u>	<u>12.50</u>	<u>7.46</u>	<u>2070</u>	<u>62.7</u>	<u>clear</u>	<u>19.6</u>	<u>none</u>
<u>9:58</u>	<u>25.0</u>	<u>7.53</u>	<u>2390</u>	<u>62.3</u>	<u>clear</u>	<u>11.4</u>	<u>none</u>
<u>10:02</u>	<u>37.50</u>	<u>7.60</u>	<u>2510</u>	<u>62.5</u>	<u>clear</u>	<u>17.9</u>	<u>none</u>

Pumped dry Yes No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: --- TOB/TOC ---

PURGING EQUIPMENT/I.D. #

Bailer: --- Airlift Pump: ---
 Centrifugal Pump: #4 Dedicated: ---
 Other: ---

SAMPLING EQUIPMENT/I.D. #

Bailer: 4-9
 Dedicated: ---
 Other: ---

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW1</u>	<u>2-23-95</u>	<u>10:05</u>	<u>3</u>	<u>40ML</u>	<u>VOA</u>	<u>HCC</u>	<u>Gas Bten</u>

REMARKS: ---

SIGNATURE: Paul W. Winbush



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 084 26 LOCATION: 6407 Telegraph Berkeley WELL ID #: MW 2
 CLIENT/STATION No.: 0374 FIELD TECHNICIAN: Paul W

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC _____
 Depth to water: 7.80 TOB 7.53 TOC _____
 Total depth: _____ TOB 26.04 TOC _____
 Date: 2-23-95 Time (2400): 8:55

Probe Type Oil/Water interface _____
 and Electronic Indicator #2
 I.D. # Other: _____

CASING
DIAMETER
 2 _____ 0.17
 3 _____ 0.38
 4 _____ 0.66
 4.5 _____ 0.83
 5 _____ 1.02
 6 _____ 1.5
 8 _____ 2.6

GAL/
LINEAR FT.
 Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

TD 26.04 - DTW 7.53 = 18.51 Gal/Linear
 x Foot 66 = 12.21 x Casings 3 = Purge 36.64

DATE PURGED: 2-23-95 START: 11:08 END (2400 hr): 11:19 PURGED BY: PW
 DATE SAMPLED: 2-23-95 START: 11:19 END (2400 hr): 11:23 SAMPLED BY: PW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>11:12</u>	<u>12.25</u>	<u>8.17</u>	<u>630</u>	<u>65.7</u>	<u>clear</u>	<u>19.9</u>	<u>none</u>
<u>11:15</u>	<u>24.50</u>	<u>8.16</u>	<u>640</u>	<u>66.2</u>	<u>clear</u>	<u>17.9</u>	<u>none</u>
<u>11:18</u>	<u>36.75</u>	<u>8.17</u>	<u>680</u>	<u>66.4</u>	<u>clear</u>	<u>14.7</u>	<u>none</u>

Pumped dry Yes / No

Cobalt 0-100
 Clear
 Cloudy
 Yellow
 Brown
 NTU 0-200
 Heavy
 Moderate
 Light
 Trace
 Strong
 Moderate
 Faint
 None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

Bailor: _____ Airlift Pump: _____
 Centrifugal Pump: #7 Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailor: 13-5
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW 2</u>	<u>2-23-95</u>	<u>11:22</u>	<u>3</u>	<u>40ml</u>	<u>V04</u>	<u>HCL</u>	<u>Gas Bta</u>

REMARKS: _____

SIGNATURE: _____

Paul Wemhardt



PACIFIC ENVIRONMENTAL GROUP, INC.

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 084 26 LOCATION: 6407 Telegraph Berkeley WELL ID #: MW3

CLIENT/STATION No.: 0374 FIELD TECHNICIAN: Paul W

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC _____
 Depth to water: 7.46 TOB 7.18 TOC _____
 Total depth: _____ TOB 26.72 TOC _____
 Date: 2-23-95 Time (2400): _____

Probe Type and I.D. #
 Oil/Water interface
 Electronic Indicator A-2
 Other: _____

CASING DIAMETER GAL/ LINEAR FT.
 2 _____ 0.17
 3 _____ 0.38
 4 _____ 0.66
 4.5 _____ 0.83
 5 _____ 1.02
 6 _____ 1.5
 8 _____ 2.6

SAMPLE TYPE
 Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

TD 26.72 - DTW 7.18 = 19.54 Gal/Linear Foot 66 = 1289 Number of Casings 3 = Calculated Purge 3868

DATE PURGED: 2-23-95 START: 10:32 END (2400 hr): 10:46 PURGED BY: PW
 DATE SAMPLED: 2-23-95 START: 10:46 END (2400 hr): 10:50 SAMPLED BY: PW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:37</u>	<u>13.0</u>	<u>7.82</u>	<u>720</u>	<u>61.7</u>	<u>clear</u>	<u>33.4</u>	<u>PAINT</u>
<u>10:41</u>	<u>26.0</u>	<u>7.90</u>	<u>780</u>	<u>62.6</u>	<u>clear</u>	<u>21.9</u>	<u>none</u>
<u>10:45</u>	<u>39.0</u>	<u>8.00</u>	<u>760</u>	<u>62.8</u>	<u>clear</u>	<u>109.4</u>	<u>none</u>

Pumped dry: Yes No
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
 Bailor: _____
 Centrifugal Pump: #4
 Other: _____
 Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
 Bailor: 17-6
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW3</u>	<u>2-23-95</u>	<u>10:48</u>	<u>3</u>	<u>40ml</u>	<u>VOA</u>	<u>HCL</u>	<u>GHG BTEX</u>

REMARKS: _____

SIGNATURE: Paul Wembert



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 084 26 LOCATION: 6407 Telegraph Berkeley WELL ID #: MW4
 CLIENT/STATION No.: 0374 FIELD TECHNICIAN: Paul W

WELL INFORMATION

Depth to Liquid: TOB TOC
 Depth to water: 10.24 TOB 9.38 TOC
 Total depth: TOB 26.75 TOC
 Date: 7-23-95 Time (2400): 8:51

CASING DIAMETER

- 2 _____ 0.17
- 3 _____ 0.38
- 4 _____ 0.66
- 4.5 _____ 0.83
- 5 _____ 1.02
- 6 _____ 1.5
- 8 _____ 2.6

GAL/ LINEAR FT.

SAMPLE TYPE

- Groundwater
- Duplicate
- Extraction well
- Trip blank
- Field blank
- Equipment blank
- Other: _____

Probe Type and I.D. #
 Oil/Water interface
 Electronic Indicator # 2
 Other: _____

TD 26.75 - DTW 9.38 = 17.37 Gal/Linear x Foot 1.66 = 11.46 x Casings 3 = Calculated Purge 34.39

DATE PURGED: 7-23-95 START: 11:24 END (2400 hr): 11:34 PURGED BY: PW

DATE SAMPLED: 7-23-95 START: 11:34 END (2400 hr): 11:40 SAMPLED BY: PW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:27	11.50	8.10	980	65.0	clear	24.7	None
11:30	23.0	8.02	1050	66.1	clear	12.9	None
11:33	34.50	7.99	1140	68.2	clear	20.4	None

Pumped dry Yes No

Cobalt 0-100
 Clear
 Cloudy
 Yellow
 Brown
 NTU 0-200
 Heavy
 Moderate
 Light
 Trace
 Strong
 Moderate
 Faint
 None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

SAMPLING EQUIPMENT/I.D. #

- Bailer: _____
- Centrifugal Pump: 44
- Other: _____
- Airlift Pump: _____
- Dedicated: _____

- Bailer: 15-2
- Dedicated: _____
- Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW4</u>	<u>7-23-95</u>	<u>11:38</u>	<u>3</u>	<u>40ml</u>	<u>WH</u>	<u>HCL</u>	<u>Gas Blue</u>

REMARKS: _____

SIGNATURE: _____

Paul W. [Signature]



PACIFIC ENVIRONMENTAL GROUP, INC.

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 084 26 LOCATION: 6407 Telegraph Av Berkeley WELL ID #: MWS

CLIENT/STATION No.: _____ FIELD TECHNICIAN: Paul W

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC _____
 Depth to water: 9.68 TOB 9.23 TOC _____
 Total depth: _____ TOB 22.05 TOC _____
 Date: 2.23.95 Time (2400): 9:10

Probe Type and I.D. #
 Oil/Water interface
 Electronic indicator # 2
 Other: _____

CASING DIAMETER GAL/LINEAR FT.

- 2 _____ 0.17
- 3 _____ 0.38
- 4 _____ 0.66
- 4.5 _____ 0.83
- 5 _____ 1.02
- 6 _____ 1.5
- 8 _____ 2.6

- SAMPLE TYPE
- Groundwater
 - Duplicate
 - Extraction well
 - Trip blank
 - Field blank
 - Equipment blank
 - Other: _____

TD 22.05 - DTW 9.23 = 12.82 Gal/Linear Foot 1.66 = 8.46 x Casings 3 = Purge 25.38

DATE PURGED: 2.23.95 START: 10:52 END (2400 hr): 11:05 PURGED BY: PW
 DATE SAMPLED: 2.23.95 START: 11:05 END (2400 hr): 11:09 SAMPLED BY: PW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:56</u>	<u>8.50</u>	<u>8.24</u>	<u>650</u>	<u>63.5</u>	<u>clear</u>	<u>29.7</u>	<u>none</u>
<u>11:00</u>	<u>17.0</u>	<u>8.08</u>	<u>620</u>	<u>63.9</u>	<u>clear</u>	<u>21.6</u>	<u>none</u>
<u>11:04</u>	<u>25.50</u>	<u>8.10</u>	<u>640</u>	<u>64.7</u>	<u>clear</u>	<u>28.4</u>	<u>none</u>

Pumped dry Yes / No
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
 Bailor: _____
 Centrifugal Pump: #4
 Other: _____

SAMPLING EQUIPMENT/I.D. #
 Bailor: 17-6
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MWS</u>	<u>2-23-95</u>	<u>11:07</u>	<u>3</u>	<u>400ml</u>	<u>WHA</u>	<u>HEC</u>	<u>Gas Blank</u>

REMARKS: _____

SIGNATURE: Paul Wentland



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 084 26 LOCATION: 6407 Telegraph Berkeley WELL ID #: MW6

CLIENT/STATION No.: 0374 FIELD TECHNICIAN: Paul W

WELL INFORMATION

Depth to Liquid: TOB TOC
 Depth to water: 6.05 TOB 5.60 TOC
 Total depth: TOB 14.50 TOC
 Date: 7-23-95 Time (2400): 9:06

Probe Type and I.D. #
 Oil/Water interface
 Electronic indicator #2
 Other:

CASING DIAMETER GAL/LINEAR FT.

- 2 _____ 0.17
- 3 _____ 0.38
- 4 _____ 0.66
- 4.5 _____ 0.83
- 5 _____ 1.02
- 6 _____ 1.5
- 8 _____ 2.6

SAMPLE TYPE

- Groundwater
- Duplicate
- Extraction well
- Trip blank
- Field blank
- Equipment blank
- Other:

TD 14.50 - DTW 5.60 = 8.90 x Foot 66 = 5.87 x Casings 3 = Purge 17.66

DATE PURGED: 7-23-95 START: 10:17 END (2400 hr): 10:28 PURGED BY: PW
 DATE SAMPLED: 7-23-95 START: 10:28 END (2400 hr): 10:31 SAMPLED BY: PW

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:20</u>	<u>6.0</u>	<u>8.08</u>	<u>850</u>	<u>60.6</u>	<u>clear</u>	<u>27.6</u>	<u>none</u>
<u>10:23</u>	<u>12.0</u>	<u>7.97</u>	<u>550</u>	<u>60.5</u>	<u>clear</u>	<u>14.7</u>	<u>none</u>
<u>10:27</u>	<u>18.0</u>	<u>7.92</u>	<u>550</u>	<u>60.9</u>	<u>clear</u>	<u>23.1</u>	<u>none</u>

Pumped dry: Yes No
 FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: TOB/TOC

PURGING EQUIPMENT/I.D. #
 Bailer: Airlift Pump:
 Centrifugal Pump: #4 Dedicated:
 Other:

SAMPLING EQUIPMENT/I.D. #
 Bailer: 15-2
 Dedicated:
 Other:

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW6</u>	<u>7-23-95</u>	<u>10:30</u>	<u>3</u>	<u>Yall</u>	<u>VDA</u>	<u>HCL</u>	<u>Grp Bkg</u>

REMARKS:

SIGNATURE: Paul Wemboldt



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 330 084 26 LOCATION: 6409 Telegraph Berkeley WELL ID #: TB-1

CLIENT/STATION No.: 0374 FIELD TECHNICIAN: Paul W.

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC _____
 Depth to water: _____ TOB _____ TOC _____
 Total depth: _____ TOB _____ TOC _____
 Date: _____ Time (2400): _____

Probe Type and I.D. #
 Oil/Water interface _____
 Electronic indicator _____
 Other: _____

CASING DIAMETER GAL/ LINEAR FT.
 2 _____ 0.17
 3 _____ 0.38
 4 _____ 0.66
 4.5 _____ 0.83
 5 _____ 1.02
 6 _____ 1.5
 8 _____ 2.6

SAMPLE TYPE
 Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other: _____

TD _____ - DTW _____ = _____ Gal/Linear x Foot _____ = _____ Number of x Casings _____ = Calculated Purge _____

DATE PURGED: _____ START: _____ END (2400 hr): _____ PURGED BY: _____
 DATE SAMPLED: _____ START: _____ END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2.5°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
----------------	---------------	------------	-------------------------	------------------	-------	-----------	------

TRIP BLANK

Pumped dry Yes / No _____

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: _____ Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>TB-1</u>	<u>2-23-95</u>	<u>N/A</u>	<u>2</u>	<u>4oz</u>	<u>WHA</u>	<u>HCC</u>	<u>Gas BTEX</u>

REMARKS: _____

SIGNATURE: _____

Paul W. [Signature]



PACIFIC ENVIRONMENTAL GROUP, INC.

ATTACHMENT B
FIELD AND LABORATORY PROCEDURES

ATTACHMENT B

FIELD AND LABORATORY PROCEDURES

Sampling Procedures

The sampling procedure for each well consists first of measuring the water level and checking for the presence of separate-phase hydrocarbons (SPH), using either an electronic indicator and a clear Teflon® bailer or an oil-water interface probe. Wells not containing SPH are then purged of approximately four casing volumes of water (or to dryness) using a centrifugal pump, gas displacement pump, or bailer. Equipment used for the current sampling event is noted on the attached field data sheets. During purging, temperature, pH, and electrical conductivity are monitored in order to document that these parameters are stable prior to collecting samples. After purging, water levels are allowed to partially recover. Groundwater samples are collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to a California State-certified laboratory.

Laboratory Procedures

The groundwater samples were analyzed for the presence of total petroleum hydrocarbons calculated as gasoline, benzene, toluene, ethylbenzene, and xylenes. The analyses were performed according to EPA Methods 8015 (modified), 8020, and 5030 utilizing a purge-and-trap extraction technique. Final detection was by gas chromatography using flame- and photo-ionization detectors. The methods of analysis for the groundwater samples are documented in the certified analytical report. The certified analytical report, chain-of-custody documentation, and field data sheets are presented as Attachment A.

ATTACHMENT C

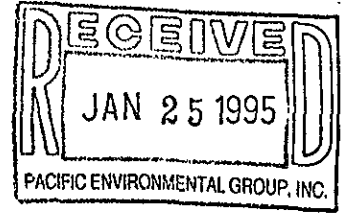
**TREATMENT SYSTEM
CERTIFIED ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600

FAX (415) 364-9233
 FAX (510) 686-9689
 FAX (916) 921-0100



Pacific Environmental Group
 2025 Gateway Place, Suite 440
 San Jose, CA 95110
 Attention: Maree Doden

Project: 330-084.5A/0374, Oakland

Enclosed are the results from samples received at Sequoia Analytical on January 11, 1995.
 The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9501553 -01	LIQUID, SP-108	01/10/95	TPHGBW Purgeable TPH/BTEX
9501553 -02	LIQUID, SP-107	01/10/95	TPHGBW Purgeable TPH/BTEX
9501553 -03	LIQUID, SP-106	01/10/95	TPHGBW Purgeable TPH/BTEX
9501553 -04	LIQUID, SP-105	01/10/95	TPHGBW Purgeable TPH/BTEX
9501553 -05	LIQUID, SP-102	01/10/95	TPHGBW Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA/ANALYTICAL

Eileen Manning
 Project Manager

Quality Assurance Department



Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.5A/0374, Oakland Sample Descript: SP-108 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9501553-01	Sampled: 01/10/95 Received: 01/11/95 Analyzed: 01/12/95 Reported: 01/24/95
--	---	---

QC Batch Number: GC011295BTEX02A
Instrument ID: GCHP2

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	79

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.5A/0374, Oakland Sample Descript: SP-107 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9501553-02	Sampled: 01/10/95 Received: 01/11/95 Analyzed: 01/12/95 Reported: 01/24/95
Attention: Maree Doden		

QC Batch Number: GC011295BTEX02A
Instrument ID: GCHP2

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	76

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Maree Doden	Client Proj. ID: 330-084.5A/0374, Oakland Sample Descript: SP-106 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9501553-03	Sampled: 01/10/95 Received: 01/11/95 Analyzed: 01/13/95 Reported: 01/24/95
--	---	---

QC Batch Number: GC011295BTEX02A
Instrument ID: GCHP2

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	74

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Pacific Environmental Group	Client Proj. ID: 330-084.5A/0374, Oakland	Sampled: 01/10/95
2025 Gateway Place, Suite 440	Sample Descript: SP-105	Received: 01/11/95
San Jose, CA 95110	Matrix: LIQUID	
Attention: Marea Doden	Analysis Method: 8015Mod/8020	Analyzed: 01/13/95
	Lab Number: 9501553-04	Reported: 01/24/95

QC Batch Number: GC011295BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	1100
Benzene	2.5	180
Toluene	2.5	2.7
Ethyl Benzene	2.5	26
Xylenes (Total)	2.5	51
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Pacific Environmental Group	Client Proj. ID: 330-084.5A/0374, Oakland	Sampled: 01/10/95
2025 Gateway Place, Suite 440	Sample Descript: SP-102	Received: 01/11/95
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 01/13/95
Attention: Maree Doden	Lab Number: 9501553-05	Reported: 01/24/95

QC Batch Number: GC011295BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2400
Benzene	5.0	320
Toluene	5.0	7.4
Ethyl Benzene	5.0	53
Xylenes (Total)	5.0	120
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600 FAX (510) 686-9689
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

Pacific Environmental Group Client Project ID: 330-084.5A/0374, Oakland
 2025 Gateway Place, Suite 440 Matrix: Liquid
 San Jose, CA 95110
 Attention: Maree Doden Work Order #: 9501553 -01-05 Reported: Jan 24, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011195BTEX02A	GC011195BTEX02A	GC011195BTEX02A	GC011195BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	N.A.	N.A.	N.A.	N.A.

Analyst:	R. Vincent	R. Vincent	R. Vincent	R. Vincent
MS/MSD #:	950104901	950104901	950104901	950104901
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	N.A.	N.A.	N.A.	N.A.
Analyzed Date:	1/12/95	1/12/95	1/12/95	1/12/95
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	10 ug/L	10 ug/L	10 ug/L	30 ug/L
Result:	10	10	10	30
MS % Recovery:	100	100	100	100
Dup. Result:	10	10	10	31
MSD % Recov.:	100	100	100	103
RPD:	0.0	0.0	0.0	3.3
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
 Analyzed Date:
 Instrument I.D.#:
 Conc. Spiked:

LCS Result:
 LCS % Recov.:

MS/MSD	71-133	72-128	72-130	71-120
LCS				
Control Limits				

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:
 The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Eileen A. Manning
 Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9501553.PPP · 1>

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG, Area 350-08 A.5A
 REC. BY (PRINT): SA

WORKORDER: 9501553
 DATE OF LOG-IN: 1/12/95

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION(ETC.)
1. Custody Seal(s)	Present / <u>Absent</u> Intact / Broken*	1	AIC	SP-108	3VCA	LIQ	1-10	
2. Custody Seal Nos.:	Put in Remarks Section	2	↓	SP-107	↓	↓	↓	
3. Chain-of-Custody Records:	Present / <u>Absent</u> *	3	↓	SP-106	↓	↓	↓	
4. Traffic Reports or Packing List:	Present / <u>Absent</u>	4	A-B	SP-105	2VCA	↓	↓	
5. Airbill:	Airbill / Sticker Present / <u>Absent</u>	5	A-C	SP-102	3VCA	↓	↓	
6. Airbill No.:	_____							
7. Sample Tags:	Present / <u>Absent</u> *							
Sample Tag Nos.:	<u>Listed</u> / Not Listed on Chain-of-Custody							
8. Sample Condition:	<u>Intact</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<u>Yes</u> / No*							
10. Proper preservatives used:	<u>Yes</u> / No*							
11. Date Rec. at Lab:	<u>1-11-95</u>							
12. Temp. Rec. at Lab:	<u>110</u>							
13. Time Rec. at Lab:	<u>1225</u>							

* if Circled, contact Project manager and attach record of resolution

ARCO Facility no. 0374	City (Facility) OAKLAND	Project manager (Consultant) Shaw Graciani	Laboratory name Sequoia
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) (408) 441-7500	Contract number
Consultant name Pacific Environmental		Address (Consultant) 2025 Gateway Place Suite 446 San Jose CA 95110	
			Method of shipment

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX EPA 8020	TPH EPA 8010	TPH EPA 418.1/SM503E	EPA 624/8240	EPA 625/8270	TCLP Metals	Semi VOA	CAM Metals EPA 6010/7000	Lead Org. / DHS	Lead EPA 7420/1421
			Soil	Water	Other	Ice	Acid												
SP-108	3		X			X		11-0-95	1400	X									
SP-107	3		↓			↓			1405	↓									
SP-106	3		↓			↓			1410	↓									
SP-105	32		↓			↓			1415	↓									
SP-102	3		↓			↓			1420	↓									

Special detection Limit/reporting
Special QA/QC
Remarks
Lab number
Turnaround time

Condition of sample:				Temperature received:			
Relinquished by sampler Paul Prieb	Date 1-11-95	Time 8:00	Received by M. D. Dode	Date 1/11/95	Time	Received by laboratory	
Relinquished by M. D. Dode	Date 1/11/95	Time 10:50	Received by Shaw Graciani	Date	Time	Received by laboratory	
Relinquished by	Date	Time	Received by laboratory	Date	Time	Received by laboratory	

Priority Rush 1 Business Day	<input type="checkbox"/>
Rush 2 Business Days	<input type="checkbox"/>
Expedited 5 Business Days	<input type="checkbox"/>
Standard 10 Business Days	<input checked="" type="checkbox"/>



Sequoia Analytical

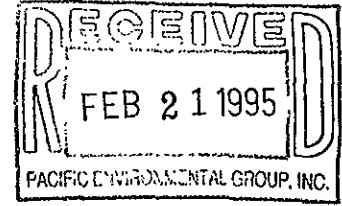
680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden



Project: 330-084.5B/374, Oakland

Enclosed are the results from samples received at Sequoia Analytical on February 8, 1995. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
950258301	LIQUID, SP 105	2/7/95	TPHGB Purgeable TPH/BTEX
950258302	LIQUID, SP 106	2/7/95	TPHGB Purgeable TPH/BTEX
950258303	LIQUID, SP 107	2/7/95	TPHGB Purgeable TPH/BTEX
950258304	LIQUID, SP 108	2/7/95	TPHGB Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager


Quality Assurance Department



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Maree Doden	Client Proj. ID: 330-084.5B/374, Oakland Sample Descript: SP105 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502583-01	Sampled: 02/07/95 Received: 02/08/95 Analyzed: 02/13/95 Reported: 02/17/95
--	---	---

QC Batch Number: GC021395BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	3500
Benzene	5.0	370
Toluene	5.0	120
Ethyl Benzene	5.0	67
Xylenes (Total)	5.0	230
Chromatogram Pattern:		Gas

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	118

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.5B/374, Oakland Sample Descript: SP106 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502583-02	Sampled: 02/07/95 Received: 02/08/95 Analyzed: 02/13/95 Reported: 02/17/95
Attention: Maree Doden		

QC Batch Number: GC021395BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	113

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.5B/374, Oakland Sample Descript: SP107 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502583-03	Sampled: 02/07/95 Received: 02/08/95 Analyzed: 02/13/95 Reported: 02/17/95
--	---	---

QC Batch Number: GC021395BTEX20A
Instrument ID: GCHP20

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	113

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Eileen Manning
Project Manager



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 330-084.5B/374, Oakland Sample Descript: SP108 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502583-04	Sampled: 02/07/95 Received: 02/08/95 Analyzed: 02/13/95 Reported: 02/17/95
Attention: Maree Doden		

QC Batch Number: GC021395BTEX20A
Instrument ID: GCHP20

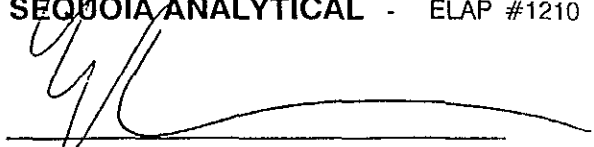
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Eileen Manning
Project Manager



Sequoia Analytical

680 Chesapeake Drive
1900 Bates Avenue, Suite L
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Maree Doden

Client Project ID: 330-084.5B/374, Oakland
Matrix: LIQUID

Work Order #: 9502583 01

Reported: Feb 17, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC021395BTEX20A	GC021395BTEX20A	GC021395BTEX20A	GC021395BTEX20A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Minkel	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	950208501	950208501	950208501	950208501
Sample Conc.:	N.D.	0	0	0
Prepared Date:	2/13/95	2/13/95	2/13/95	2/13/95
Analyzed Date:	2/13/95	2/13/95	2/13/95	2/13/95
Instrument I.D.#:	GCHP20	GCHP20	GCHP20	GCHP20
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L
Result:	8.9	8.7	8.9	26
MS % Recovery:	89	87	89	87
Dup. Result:	9.1	8.9	9.1	27
MSD % Recov.:	91	89	91	90
RPD:	2.2	2.3	2.2	3.8
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:

Prepared Date:
Analyzed Date:
Instrument I.D.#:
Conc. Spiked:

LCS Result:
LCS % Recov.:

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Eileen A. Manning
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9502583.PPP <1>



SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: A-CCC
 REC. BY (PRINT): Chie

WORKORDER: 7502 583
 DATE OF LOG-IN: 2/10/95

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION(ETC.)
1. Custody Seal(s)	Present / Absent ¹ Intact / Broken*	1	105	SP 105	Urn	Liquid	2/7/95	
2. Custody Seal Nos.:	Put in Remarks Section	2		SP 106				
3. Chain-of-Custody Records:	Present ¹ / Absent*	3		107				
		4		108				
4. Traffic Reports or Packing List:	Present / Absent ¹							
5. Airbill:	Airbill / Sticker Present / Absent ¹							
6. Airbill No.:								
7. Sample Tags:	Present / Absent*							
Sample Tag Nos.:	Listed / Not Listed on Chain-of-Custody							
8. Sample Condition:	(Intact ¹ / Broken* / Leaking*)							
9. Does information on custody reports, traffic reports and sample tags agree?	Yes / No*							
10. Proper preservatives used:	Yes ¹ / No*							
11. Date Rec. at Lab:								
12. Temp. Rec. at Lab:								
13. Time Rec. at Lab:								

* if Circled, contact Project manager and attach record of resolution

ARCO Facility no. 374	City (Facility) Oak Brook	Project manager (Consultant) SHAW GATAKANI
ARCO engineer Mike Whelan	Telephone no. (ARCO)	Telephone no. (Consultant) 441 7500
Consultant name PACIFIC Env Corp	Address (Consultant) 2025 Gate Lany pl # 440 San Jose	Fax no. (Consultant) 441 7539

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA 1602/9020/8015	TPH Modified 5015 Gas Diesel	Oil and Grease 413.1 413.2	TPH EPA 418.1/SH503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCMP Metals VOA VOA	Cadm Metals EPA 6010/7000 TLIC STLC	Lead Org./DHS Lead EPA 7420/7421	Method of shipment	
			Soil	Water	Other	Ice	Acid															
Sp105		3		X		X	1166	2-7-95	13:10		X											
Sp106		X		Y		X					X											-01
Sp107		X		Y		Y					X											-02
Sp108		Y		X		Y					X											-03

Condition of sample: G-000	Temperature received: no
Relinquished by sampler [Signature] Date 2-8-95 Time 7:00	Received by M Doer 2/8/95
Relinquished by M Doer Date 2/8/95 Time	Received by [Signature]
Relinquished by [Signature] Date 2/8/95 Time	Received by laboratory [Signature] Date 2/8/95 Time 1343

TYPE INFORMATION FORM

Identification

Project # 330-094.SA
 Station # 0374
 Site Address: Water Treatment Plant
1000 N. 10th St.
ONKAWAN
 County: Alameda
 Project Manager: SHAW G.
 Requestor: ERIC W.
 Client: ARCO
 Client P.O.C.: MIKE WHELAN
 Date of request: 12/20/94

Project Type

- 1st Time visit
- Quarterly
 - 1st 2nd 3rd 4th
- Monthly
- Semi-Monthly
- Weekly
- One time event
- Other: _____

Ideal field date(s): THE WEEK OF THE 27 OF DEC.

Prefield Contacts/Permits

- Cal Trans _____
- County _____
- City FIS Wheles
- Private _____
- Multi-Consultant Scheduling Copy/Dist. RT ↓

Check Appropriate Category

Budget Hrs. _____
 Actual Hrs. 2.5
 Mob de Mob .57
2

Field Tasks: For General Description

- (1) CONTACT ME IN OFFICE IF PARAFAX IS CAUSING PROBLEMS Seen OK
- (2) TAKE LIDS INTO FIELD FOR SITE VISIT
- (3) REPLACE LIDS ON VESSELS #1 AND #2
- (4) LOCATE AUTO SHUT DOWN SWITCH AND SET AT 10 PSE
- (5) LOCATE STUB-UP FOR SVE LINEAGE OF COMPOUND
- (6) LOCATE BREAKER FOR SVE SYSTEM AND RECORD THE AMPERAGE OF THE FUSE OR BREAKER no Breaker
- (7) OPERATE IRRIGATION SYSTEM ~~AS~~ AS A CHECK ON SYSTEMS FUNCTION
- (8) SET TIMER ON IRRIGATION SYSTEM, BUT KEEP SYSTEM IRRIG. SYSTEM OFF
- (9) WATER PLANTS AROUND SYSTEM COMPOUND
- (10) TURN ON SYSTEM
- (11) IDENTIFY LEAKS (if you find some, SHUT IT DOWN? no major Leaks LEAKS Raining Hard to Spot Small Leaks)
- (12) WHAT IS SYSTEM FLOW RATE 8.5 gpm Small leak in next st.
- (13) DOES PUMP NEED SERVICING no Carbon Lid
- (14) FILL OUT DATA SHEET
- (15) PERFORM MONTHLY

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

- (16) LEAVE SITE SAFETY PLAN

Completed by: PJP Date: 1-11-95
 Checked by: _____

SITE INFORMATION FORM

Identification

Project # 330-084.5A
 Station # 0374
 Site Address: 6407 TITUS WAY
OAKLAND
 County: ALAMEDA
 Project Manager: SHAW G.
 Requestor: ERIC W.
 Client: ARCO
 Client P.O.C.: MIKE WHELAN
 Date of request: 1/9/95

Project Type

- 1st Time visit
- Quarterly
 - 1st 2nd 3rd 4th
- Monthly
- Semi-Monthly
- Weekly
- One time event
- Other: _____

Ideal field date(s): _____

Prefield Contacts/Permits

	Initials	Date
<input type="checkbox"/> Cal Trans		
<input type="checkbox"/> County		
<input type="checkbox"/> City	<u>FIS</u>	<u>RL 1/16/95</u>
<input type="checkbox"/> Private		
<input type="checkbox"/> Multi-Cons	<u>Copy/Dist</u>	<u>By 1/16/95</u>
date(s):	<u>Scheduling</u>	<u>1/16/95</u>

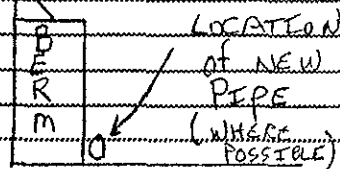
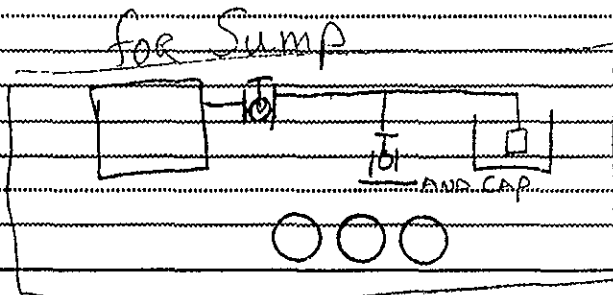
Check Appropriate Category

Budget Hrs. _____
 Actual Hrs. 7
 Mob de Mob 2

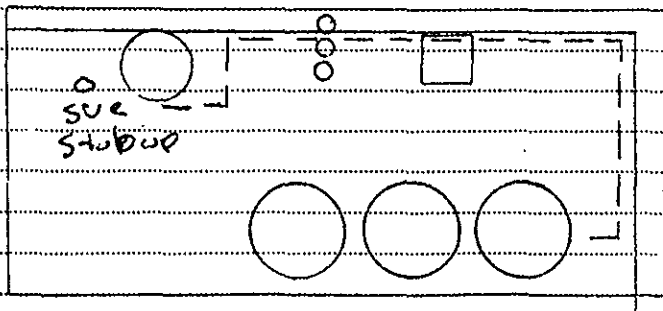
Field Tasks: For General Description

IN ADDITION to STARTUP,
PLUMB SUMP, AND PLUMB SURGE TANK to
TO DRUMS.

PURCHASE 2 VALVES, 1"
AND 1" SCHEDULE 80
PEPING



Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)



PLAN VIEW

NEW PEPING

Completed by: PSJ Date: 1-9-95

Checked by: _____

W10 2738

Groundwater Extraction System

ARCO Service Station 0374
 6407 Telegraph at Alcatraz Avenue
 Oakland, California
 330-084.5A

	Initials	Date
F/S	RL	1/13/95
Copy/Dist.	RL	↓

Name: PSP

Date/Time: 1-10-95 2:40

Treatment System Readings			
System On Upon Arrival?	Start up	Electric Meter (kw-hrs)	01371
Effluent Totalizer (gallons)	00036493	Effluent Flowrate (gpm)	8
W-2 Totalizer (gallons)	NA	Bag Filter INFL Pressure (psi)	8
W-2 Flowrate (gpm)	NA	Bag Filter EFFL Pressure (psi)	7
W-2 Hourmeter (hours)	NA	MID Pressure (1) Psi	3.5
		MID Pressure (2) Psi	1.5
W-2 Throttle Valve Position	100° open	EFFL Pressure (psi)	NA
Does Sump Pump Work?	Yes	DOES TRANSFER PUMP WORK?	Yes
Number of Spare Filters On-Site	5 Bup Corse	DOES PRESSURE SWITCH SHUT DOWN SYSTEM?	Yes
Enclosure Swept and Bleached?	NO	IRRIGATION SYST. TESTED?	
		PLANTS WATERED?	Yes
Does iPARAFAX Work?	? Yes	SYSTEM FLOW RATE?	8
Batteries Replaced?	?	COMPRESSOR SEC. NEED?	NO oilless
SURGE TANK CLEANED?	NO	SURGE TANK LEVEL SWITCHES TESTED?	Yes

Comments _____

SITE INFORMATION FORM

Identification
 Project # 330-084.SA
 Station # 0374
 Site Address: 6407 FULTON ST
AVATREAS
OAKLAND
 County: ALAMEDA
 Project Manager: SHAW G.
 Requestor: ERIC W.
 Client: ARCO
 Client P.O.C.: MIKE WHELAN
 Date of request: 1/9/95

Project Type
 1st Time visit
 Quarterly
 1st 2nd 3rd 4th
 Monthly
 Semi-Monthly
 Weekly
 One time event
 Other: _____

Prefield Contacts/Permits
 Cal Trans
 County
 City
 Private
 Multi-Consultant Scheduling

	Initials	Date
F/S	RY	1/2/95
Copy/Dist.	RY	↓

Check Appropriate Category

Budget Hrs. _____
 Actual Hrs. 25
 Mob de Mob _____

Ideal field date(s): 1/9/95

Field Tasks: For General Description

SAMPLE SYSTEM

MONTHLY GAS/BTEX
BEFORE BAG FILTER and surge tank
MED-1 LABEL AS
MED-2
ATEFFL
AT INF.

SP Labeled
as
↓
SP-102 SP-102
SP-105 SP-106
SP-106 SP-107
SP-107 SP-108
SP-108 SP-105

FILL OUT DATA SHEET

MAKE SURE PRESSURE CAN NOT EXCEED 10 PSI

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

Totalizer 000 36493 no Data Sheet
APPROX B.G.P.M
PST 8 7.5 6 3.5 1.5

Labeled sample as
Per E.W.

2/7

SITE INFORMATION FORM

Identification

Project # 330-084.5A

Station # _____

Site Address: 6407 TELEGRAPH
ALCATRA ST
AKKLANDS
County: ALABAMA

Project Manager: SHAWG

Requestor: ERIE W.

Client: ARCO

Client P.O.C.: MIKI WITELAN

Date of request: 1/25/95

Project Type

- 1st Time visit
- Quarterly
 - 1st 2nd 3rd 4th
- Monthly
- Semi-Monthly
- Weekly
- One time event
- Other: _____

Ideal field date(s): _____
DURING MONTHLY

Prefield Contacts/Permits

- | | Initials | Date |
|--|------------------|-------------------|
| <input type="checkbox"/> Cal Trans | | |
| <input type="checkbox"/> County | | |
| <input type="checkbox"/> City | <u>F/S</u> | <u>RT 2/18/95</u> |
| <input type="checkbox"/> Private | <u>Copy/Dist</u> | <u>RT</u> |
| <input type="checkbox"/> Multi-Consultant Scheduling | | <u>↓</u> |
- date(s): _____

Check Appropriate Category

Budget Hrs. _____

Actual Hrs. 1

Mob de Mob _____

Field Tasks: For General Description

COME TO ME FOR PARAFAX DISK

WHEN IN FIELD, GIVE ME A CALL.

WHILE ON PHONE I WILL CONTACT PARAFAX IF WE CAN'T SOLVE PROBLEM OURSELVES

CHECK LEADS FOR DAMAGE: Carbon vessel #1 is bowed NO Leaks

CHECK PRESSURE SETTING ON Cutoff for System - 8 psi

REDUCE SETTING IF SYSTEM BEING DAMAGED OK

CHECK FOR PROBLEMS SEEN YES

HOW ARE THE LEADS FOR THE FIRST TWO DRUMS? IS THERE A LEAK? (How much water does LEAK? If YES ABOUT)

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

TASK completed

Completed by: JU Date: 2-7-95

Checked by: _____

SITE INFORMATION FORM

Identification

Project # 330-084.5B

Station # 0374

Site Address: 1407 TELEGRAPH AVE. @ ACCATON AVE
ORLANDO
ALAMEDA

Project Type

- 1st Time visit
- Quarterly
 - 1st 2nd 3rd 4th
- Monthly
- Semi-Monthly
- Weekly
- One time event
- Other: _____

Ideal field date(s): _____
Monthly

Prefield Contacts/Permits

	Initials	Date
<input type="checkbox"/> Cal Trans		
<input type="checkbox"/> County		
<input type="checkbox"/> City	<u>F/S</u>	<u>RH 2/8/95</u>
<input type="checkbox"/> Private	<u>Copy/Dist.</u>	<u>et</u>
<input type="checkbox"/> Multi-Consultant Scheduling		<u>↓</u>

Check Appropriate Category

Budget Hrs. _____
Actual Hrs. 2
Mob de Mob 1.5

Project Manager: SHAWG.
Requestor: ERIC W.
Client: ARCO
Client P.O.C.: MIKE WHELAN
Date of request: 2/5/95

Field Tasks: For General Description

SAMPLE
SP105 GAS/BTEX BI MONTHLY
SP106 BI MONTHLY
SP107 BI MONTHLY
SP108 BI MONTHLY
FILL OUT DATA SHEET

BI MONTHLY IS EVERY OTHER MONTH (FEB, APRIL, JUNE, AUGUST, OCT, DEC)

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

Sp105 (INFL) → SP106 (MED1) → Sp107 (MED2) → SP108 (EFFL)
Monthly Sampling Completed

Groundwater Extraction System

ARCO Service Station 0374
6407 Telegraph at Alcatraz Avenue
Oakland, California

Name: SV

Date/Time: 2-7-95

Treatment System Readings			
System On Upon Arrival?	NO AIR COMPRESSOR SWITCH WAS TURNED OFF	Electric Meter (kw-hrs)	01565
Effluent Totalizer (gallons)	0041399	Effluent Flowrate (gpm)	6
W-2 Totalizer (gallons)	N/A	Bag Filter INFL Pressure (psi)	7
W-2 Flowrate (gpm)	N/A	Bag Filter EFFL Pressure (psi)	7
W-2 Hourmeter (hours)	N/A	MID Pressure (1) Psi	3.5
		MID Pressure (2) Psi	1.5
W-2 Throttle Valve Position	Full open	EFFL Pressure (psi)	0
Does Sump Pump Work?	yes	DOES TRANSFER PUMP WORK?	Yes
Number of Spare Filters On-Site	5	DOES PRESSURE SWITCH SHUT DOWN SYSTEM?	Yes
Enclosure Swept and Bleached?	ok	IRRIGATION SYST. TESTED?	NO
		PLANTS WATERED?	NO
Does PARAFAX Work?	NO	SYSTEM FLOW RATE?	6 gpm
Batteries Replaced?	Where	COMPRESSOR SERVICED?	NOT THIS VISIT
SURGE TANK CLEANED?	NO	SURGE TANK LEVEL SWITCHES TESTED?	Yes

Comments _____

ARCO Facility no.	374	City (Facility)	OAKLAND	Project manager (Consultant)	SHAW GAIAKANI	Laboratory name	Sequoia
ARCO engineer	Mike Whelan	Telephone no. (ARCO)		Telephone no. (Consultant)	441 7500 (40's)	Contract number	
				Fax no. (Consultant)	441 7539		
Consultant name	PACIFIC ENV GROUP		Address (Consultant)	2025 GATEWAY PL #440 SAN JOSE			

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8020	BTEX/TPH EPA 1602/8020/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	EPA 601/8010	EPA 624/8240	EPA 625/8270	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOC <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/>	CERCLA Metals EPA 601/7000 TLC <input type="checkbox"/> STLC <input type="checkbox"/>	Lead/Cu/Zn/Pb Lead EPA 7420/7421 <input type="checkbox"/>	Method of shipment			
			Soil	Water	Other	Ice	Acid																		
Sp105		3		X		X	HCL	2-7-85	13:10		X												Special detection Limit/reporting		
Sp106		X		X		X				X														Special QA/QC	
Sp107		X		X		X				X															Remarks
Sp108		X		X		X				X															
																							Turnaround time		
																								Priority Rush 1 Business Day <input type="checkbox"/>	
																									Rush 2 Business Days <input type="checkbox"/>
																							Standard 10 Business Days <input checked="" type="checkbox"/>		

Condition of sample:				Temperature received:			
Relinquished by sampler	Date	Time	Received by				
	2-8-85	7:00					
Relinquished by	Date	Time	Received by				
Relinquished by	Date	Time	Received by laboratory	Date	Time		

SITE INFORMATION FORM

Identification
 Project # 330-084.5B
 Station # 0374
 Site Address: 60407 TELEGRAPH
ALBERTA
CAKLAND
 County: ALBERTA
 Project Manager: SHAWG.
 Requestor: ERIC W.
 Client: ARCO
 Client P.O.C.: MIKE WILSON
 Date of request: 2/9/95

Project Type
 1st Time visit
 Quarterly
 1st 2nd 3rd 4th
 Monthly
 Semi-Monthly
 Weekly
 One time event
 Other: _____
 Ideal field date(s): 2/13/95

Prefield Contacts/Permits
 Cal Trans _____ Initials _____ Date _____
 County _____
 City F/S RY 2/15/95
 Private _____
 Multi-Consultant Scheduling _____
 date(s): _____
 Copy/Dist. RC ↓

Check Appropriate Category
 Budget Hrs. _____
 Actual Hrs. 3
 Mob de Mob .5

Field Tasks: For General Description

- Restart System
System Shutdown on High Tank Pressure. Call from Field
with Pressure Switch Settings (Raise to 8 PSI if not that High)
Manually activate Parafax

Backflush 1st Drum and Second Drum
Call from Field

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)
 22141
 Arco Station Closed Fenced
 Pressure still on site Pole in Road
 Pca Filter 4 psi Pca C1 3 psi Pca C2 1 psi C3 0 psi
 at 5:5pm

Pressure switch set 8 PSI
 Back flush 1st Carbon no change
 Parafax Fax to Office

SITE INFORMATION FORM

Identification

Project # 330-084.5B

Station # 1 0374r

Site Address: 14107 TELEGRAPH

Alameda

OAKLAND

County: ALAMEDA

Project Manager: SHAWG.

Requestor: ERIC W.

Client: ARCO

Client P.O.C.: MIKE WHELAN

Date of request: 2/6/95

Project Type

- 1st Time visit
- Quarterly
 - 1st 2nd 3rd 4th
- Monthly
- Semi-Monthly
- Weekly
- One time event
- Other: _____

Ideal field date(s): _____

MONTHLY

Prefield Contacts/Permits

- | | Initials | Date |
|--|----------------------|------------------|
| <input type="checkbox"/> Cal Trans | | |
| <input type="checkbox"/> County | | |
| <input type="checkbox"/> City | <u>FIS</u> | <u>RT 3/8/95</u> |
| <input type="checkbox"/> Private | | |
| <input type="checkbox"/> Multi-Consultant Scheduling | <u>Copy/Dist. RT</u> | <u>↓</u> |

Check Appropriate Category

Budget Hrs. _____

Actual Hrs. 2

Mob de Mob 2

Field Tasks: For General Description

SAMPLE

Sp105

GAS/BTEX
BI MONTHLY

BI MONTHLY IS EVERY OTHER
MONTH
(FEB, APRIL, JUNE, AUGUST
OCT, DEC)

Sp106

BI MONTHLY

Sp107

BI MONTHLY

Sp108

BI MONTHLY

FILL OUT DATA SHEET

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

Sp105 (INFL) → Sp106 (MFD1) → Sp107 (MFD2) → Sp108 (EFFL)

System down on arrival High Tank Level
check out system Found Transfer Pump to
be burnt out Removed transfer pump and
Took it to be repaired

Completed by: JV Date: 3-3-95

Checked by: _____

Groundwater Extraction System

ARCO Service Station 0374
6407 Telegraph at Alcatraz Avenue
Oakland, California

Name: JV Date/Time: 3-3-95

Treatment System Readings			
System On Upon Arrival?	NO High Level	Electric Meter (kw-hrs)	—
Effluent Totalizer (gallons)	IN TRANSFER TANK 000.53290	Effluent Flowrate (gpm)	—
W-2 Totalizer (gallons)	—	Bag Filter INFL Pressure (psi)	—
W-2 Flowrate (gpm)	—	Bag Filter EFFL Pressure (psi)	—
W-2 Hourmeter (hours)	—	MID Pressure (1) Psi	—
		MID Pressure (2) Psi	—
W-2 Throttle Valve Position	—	EFFL Pressure (psi)	—
Does Sump Pump Work?	YES	DOES TRANSFER PUMP WORK?	NO
Number of Spare Filters On-Site	—	DOES PRESSURE SWITCH SHUT DOWN SYSTEM?	—
Enclosure Swept and Bleached?	—	IRRIGATION SYST. TESTED?	✓
		PLANTS WATERED?	—
Does PARAFAX Work?	—	SYSTEM FLOW RATE?	—
Batteries Replaced?	—	COMPRESSOR SERVICED?	—
SURGE TANK CLEANED?	—	SURGE TANK LEVEL SWITCHES TESTED?	—

Comments System down do to High Tank Level
Check out system Found TRANSFER pump
MOTOR to BE BURNED OUT I removed it to
Take it FOR REPAIRS