PACIFIC
ENVIRONMENTAL
GROUP INC.

1139

August 19, 1997
Project 360-014.2B

Mr. Dennis Buran
Glascock Street Properties
425 Market Street
Oakland, California 94607

Re: Quarterly Report - Second Quarter 1997
Former Dorr-Olive Site
2901 Glascock Street, Oakland, California

Dear Mr. Buran:

The following presents the results of second quarter 1997 monitoring for the above referenced site (Figure 1). This letter has been prepared for Glascock Street Properties by Pacific Environmental Group, Inc. (PACIFIC). This report also includes a summary of remedial activities performed at the site during the second quarter of 1997, and a response to the Alameda County Health Care Services Agency (ACHCSA) letter dated July 17, 1997 regarding remedial activities at the site.

SCOPE OF WORK

All seven existing groundwater monitoring wells (MW–1 through MW-4, and MW-6 through MW–8; Figure 2) were gauged and sampled by PACIFIC on June 25, 1997. The depth-to-groundwater and groundwater analytical data are presented in Tables 1 through 3. The wells were sampled and analyzed for the presence of total extractable petroleum hydrocarbons quantified as diesel (TEPH-d), motor oil, total purgeable petroleum hydrocarbons quantified as gasoline (TPPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), and methyl tertiary butyl ether (MtBE). Wells MW-6 and MW-8 were also sampled and analyzed for volatile organic compounds (VOCs) and selected metals. Depth-to-groundwater, TEPH-d, and benzene concentrations for the second quarter 1997 sampling event are shown on Figure 2. The certified analytical reports (CARs), chain-of-custody documentation, and field data sheets are presented in Attachment A.

GROUNDWATER LEVELS

Groundwater levels in site monitoring wells decreased an average 1.22 feet since the last monitoring event (Table 1). Groundwater flow is still generally to the south/southwest (toward the Oakland Estuary), consistent with previous measurements, at a gradient of

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approximately 0.019 (Figure 2). Groundwater elevations were within the historic range for the site.

GROUNDWATER QUALITY

No measurable separate phase hydrocarbons were found in site monitoring wells this quarter. TEPH-d remains the primary constituent found in groundwater, and was detected in six wells at the site this quarter. The highest TEPH-d concentrations were found in wells MW-1 and MW-2 (Figure 2). TEPH-d found in samples from wells MW-1, MW-2, and MW-6 was characterized as a weathered diesel. The chromatograms for three other wells (MW-3, MW-4, and MW-7) contained unidentified hydrocarbons in the C9 through C24 range which did not match the diesel standard (see CARs in Attachment A).

Four wells (MW-1, MW-2, MW-3, and MW-6) were reported to have detectable concentrations of TPPH-g. The maximum concentration of TPPH-g in site wells this quarter was reported as 630 micrograms per liter (µg/L) in Well MW-2, and was reported as a weathered gasoline. The only benzene concentration was reported as 3.2 µg/L in Well MW-6. MtBE was detected in four wells this quarter (MW-1, MW-3, MW-6, and MW-7); the maximum concentration of MtBE detected was 580 µg/L in upgradient well MW-7.

No wells wells were reported to have detectable concentrations of motor oil. The laboratory quantified hydrocarbons in the C16 to C36 range while running the analysis for motor oil; however, the laboratory narrative at the end of the CARs specifically indicate that no motor oil was detected (see CARs in Attachment A). The hydrocarbons quantified in the motor oil analysis for wells MW-1, MW-2 and MW-6 are a combination of a portion of weathered diesel from C16 through C24 and unidentified hydrocarbons in the C24 through C36 range.

STATUS OF REMEDIAL ACTIVITIES

In May 1997, PACIFIC installed oxygen releasing compound (ORC) modules in wells MW-1, MW-2, and MW-6 to enhance groundwater remediation. PACIFIC measured and recorded dissolved oxygen concentrations in the wells prior to installation of the ORC modules and once during the second quarter groundwater monitoring event (Table 4). All wells showed a significant increase in dissolved oxygen concentration after installation of the ORC modules.

RESPONSE TO ACHCSA LETTER OF JULY 17, 1997

In a letter from ACHCSA dated July 17, 1997, Mr. Barney Chan requested that Glascock Street Properties perform analyses for certain metals and halogenated volatile organics on groundwater samples for wells MW-6 and MW-8. It had previously been agreed that the above analyses would be performed for the above wells at least once per year. As noted earlier in this report, these analyses were completed during the second quarter monitoring event and the results are contained in this report.

Mr. Chan also requested that Glascock Street Properties prepare a workplan for additional remediation activities at the site to address concentrations of TEPH-d and motor oil at the site. As noted earlier in this report, laboratory analysis of groundwater from the site indicates that no detectable quantities of motor oil are present. Therefore, the primary constituent of concern at the site is diesel. In response to his letter, I had several telephone conversations and a meeting with Mr. Chan to discuss site conditions and prepare a response. The following paragraphs outline our proposed remedial plan for this site.

In the *Site Assessment and Remedial Action Recommendations* report, dated February 29, 1996, PACIFIC proposed a remedial action program composed of: 1) limited excavation of soil with elevated hydrocarbon concentrations (i.e., source removal); 2) recovery of separate phase hydrocarbons (if present) through bioslurping, and; 3) enhanced bioremediation to address residual dissolved hydrocarbons. The proposed treatment was considered to be among the best available technologies and most cost beneficial for this site. PACIFIC also proposed a groundwater cleanup goal of 10 milligrams per liter (mg/L) total petroleum hydrocarbons (TPH) or until groundwater concentrations have decreased to asymptotic conditions. This cleanup goals was not accepted by ACHCSA, and no remedial goal for groundwater at the site has yet been established. Limited excavation of soil with elevated hydrocarbons has been completed to the cleanup levels accepted by ACHCSA, no SPH is present at the site, and enhanced bioremediation is in progress at the site.

PACIFIC believes it is prudent to establish groundwater cleanup goals for the site before pursuing further remedial action, to ensure that any remedial activities would minimize the likelihood of imposing a burden on the people of the state with the expense of remediation, and would not unreasonably affect the present and potential beneficial uses of water. In order to develop groundwater cleanup goals for the site, it is therefore necessary to understand the beneficial uses of groundwater at the site. PACIFIC does not believe groundwater at this site would be considered a source of drinking water (MUN), as the intrusion of water from the estuary would likely make it undesirable from a taste and odor standpoint, as well as from a total dissolved solids/salinity perspective. The anticipated beneficial uses of groundwater at the site are therefore considered to be recharge of estuarine environments (EST) and navigable waters (NAV); EST would likely be the more sensitive of these two beneficial uses.

PACIFIC reviewed the San Francisco Bay Region Regional Water Quality Control Plan (Basin Plan) prepared by the Cal/EPA San Francisco Bay Regional Water Quality Control Board (RWQCB) to develop groundwater cleanup goals based on EST beneficial use. The Basin Plan specifically addresses management of San Francisco Bay estuarine systems, stating that the RWQCB's strategy will be to implement a "wasteload allocation" (i.e., a numerical objective for each contributor based on the total amount of each pollutant which can safely enter the system without exceeding water quality goals). However, the Basin Plan goes on to say that since the wasteload allocation program has not been fully implemented, the objective for specific pollutants presented in the Basin Plan are considered reasonable for purposes of interim regulation. The Basin Plan establishes two main objectives relative to the dissolved

hydrocarbons at the site: 1) a numerical hydrocarbon objective, and; 2) a narrative toxicity objective.

The Basin Plan does not contain a water quality goal for diesel, but does establish a 10 mg/L water quality protection standard for oil and grease in point source effluent discharges, based on a 10 to 1 initial dilution of the effluent. Since the dilution of groundwater at initial dilution are estimated to be orders of magnitude higher than the 10 to 1 dilution, this standard should be considered very conservative as a cleanup goal for groundwater at the site.

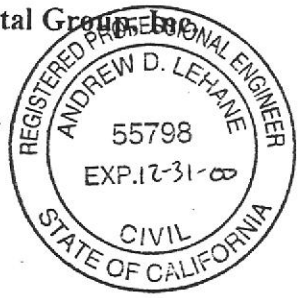
PACIFIC drew from several sources to establish a numerical objective related to preventing toxicity effects in the estuary: 1) *Aquatic Toxicity of Petroleum Products* (ATPP), Burns and McDonnell, March 1997, and; 2) *The California Ocean Plan* (Ocean Plan) in *A Compilation of Water Quality Goals*, Central Valley RWQCB, May 1993. The ATPP report recommended a numerical toxicity objective of 3 mg/L for diesel, based on bioassay tests and evaluation. However, Burns and McDonnell went on to conclude that since the RWQCB intended to set toxicity limits at the point of discharge of groundwater without accounting for initial dilution by surface water, this limit should be considered very conservative. For comparison, the Ocean Plan lists a water quality objective for oil and grease of 25 mg/L as a 30-day average for protection of marine aquatic life.

Balancing all of the above information, and recognizing that the ACHCSA was not comfortable approving the previous groundwater cleanup goal proposed, PACIFIC proposes a cleanup goal of 6.5 mg/L TPH for this site. Based on this cleanup goal, and the history of groundwater monitoring data for the site, PACIFIC proposes no further modification of the remedial plan. We propose to continue groundwater monitoring and enhanced biodegradation activities until reaching the above cleanup goal or until asymptotic conditions are achieved. We believed that this approach will provide reasonable protection of beneficial uses of groundwater at the site without undue burden to the people of the state.

If you have any questions regarding the contents of this report, please call.

Sincerely,

Pacific Environmental Group, Inc.



Andrew D. Lehane
Project Engineer
RCE 55798

Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Groundwater and Analytical Data - TPPH-g, BTEX Compounds, TEPH-d, Motor Oil, and MtBE

Table 3 - Groundwater Analytical Data - PCBs, Metals, and VOCs
Table 4 - Groundwater Sampling Data - Dissolved Oxygen

Figure 1 - Site Location Map
Figure 2 - Groundwater Monitoring Map - Second Quarter 1997

Attachment A - Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets

cc: Mr. Werner Sicvol, BP Oil Company
Mr. Barney Chan, ACHCSA

Table 1
Groundwater Elevation Data

Former Dorr-Oliver Site
2901 Glascock Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	10/06/94	10.76	NA	NA
	01/20/95		6.67	4.09
	05/15/96		7.08	3.68
	08/28/95		8.06	2.70
	12/06/95		8.24	2.52
	01/18/96	10.76	6.35	4.41
	03/08/96		6.52	4.24
	07/02/96		8.35	2.41
	12/17/97		6.85	3.91
	03/21/97		7.90	2.86
	06/25/97		9.20	1.56
MW-2	10/06/94	10.62	7.17	3.45
	01/20/95		4.64	5.98
	05/15/96		5.66	4.96
	08/28/95		6.26	4.36
	12/06/95		7.30	3.32
	01/18/96	10.63	4.85	5.78
	03/08/96		4.38	6.25
	07/02/96		6.60	4.03
	12/17/96		5.10	5.53
	03/21/97		6.25	4.38
	06/25/97		8.01	2.62
MW-3	10/06/94	9.87	6.57	3.30
	01/20/95		4.47	5.40
	05/15/96		5.08	4.79
	08/28/95		6.18	3.69
	12/06/95		6.44	3.43
	01/18/96	9.87	4.15	5.72
	03/08/96		4.76	5.11
	07/02/96		6.45	3.42
	12/17/96		4.92	4.95
	03/21/97		5.72	4.15
	06/25/97		6.35	3.52
MW-4	10/06/94	10.64	7.96	2.68
	01/20/95		5.95	4.69
	05/15/96		6.28	4.36
	08/28/95		7.38	3.26
	12/06/95		7.80	2.84
	01/18/96	10.64	5.60	5.04
	03/08/96		5.93	4.71
	07/02/96		7.95	2.69
	12/17/96		6.35	4.29
	03/21/97		7.30	3.34
	06/25/97		7.95	2.69
MW-5	05/15/96	10.61	7.54	3.07
	08/28/95		8.44	2.17
	12/06/95		8.34	2.27

Table 1
Groundwater Elevation Data

Former Dorr-Oliver Site
2901 Glascock Avenue
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
	01/18/96	10.61	7.15	3.46
	03/08/96		7.54	3.07
	07/02/96		9.45	1.16
	12/17/96		NA a	NA
MW-6	05/15/96	10.27	7.46	2.81
	08/28/95		8.06	2.21
	12/06/95		8.78	1.49
	01/18/96	10.28	7.85	2.43
	03/08/96		8.64	1.64
	07/02/96		11.50	-1.22
	12/17/96		9.40	0.88
	03/21/97		9.00	1.28
	06/25/97		11.50	-1.22
MW-7	05/15/96	9.85	3.46	6.39
	08/28/95		4.49	5.36
	12/06/95		5.04	4.81
	01/18/96	9.86	3.10	6.76
	03/08/96		3.18	6.68
	07/02/96		4.40	5.46
	12/17/96		3.45	6.41
	03/21/97		3.75	6.11
	06/25/97		4.75	5.11
MW-8	01/18/96	10.61	7.15	3.46
	03/08/96		NA	NA
	07/02/96		10.80	-0.19
	12/17/96		8.52	2.09
	03/21/97		8.60	2.01
	06/25/97		10.27	0.34

MSL = Mean Sea Level
TOC = Top Of Casing
NA = Not Available
a = Well MW-5 was destroyed in September 1996.

Table 2
Groundwater Analytical Data -
TPPH-g, BTEX Compounds, TEPH-d, Motor Oil, and MtBE

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TEPH-d (µg/L)	Motor Oil (µg/L)	MtBE (µg/L)
MW-1	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/95	670	5.3	ND	ND	1.1	1,900	NA	NA
	05/15/95	290	7.9	ND	ND	1.4	3,400	NA	NA
	08/28/95	250	5.4	ND	ND	1.1	1,800	NA	NA
	11/29/95	NA	NA	NA	NA	NA	ND	ND	NA
	12/06/95	770	4.8	ND	ND	1.3	39,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	23,000	NA	NA
	03/08/96	360	2,600	ND	ND	1.9	16,000	NA	24
	07/02/96	5,300 a	ND	ND	ND	ND	6,600	ND	ND
	12/17/96	540 b	3.4	ND	ND	0.83	2,800 c	1,600 d	60
	03/21/97	590	5.5	0.66	ND	ND	5,500 e	5,000 d	71
	06/25/97	470 h	ND	ND	ND	ND	39,000 e	26,000 d	45
MW-2	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/95	520	2.2	1.9	ND	1.3	4,000	NA	NA
	05/15/95	310	2.3	1.9	ND	1.4	5,100	NA	NA
	08/28/95	320	2.9	2.9	ND	2.6	4,100	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS
	12/06/95	210	2.0	2.2	ND	0.57	17,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	22,000	NA	NA
	03/08/96	310	2.4	1.9	ND	1.4	56,000	NA	ND
	07/02/96	9,300 a	ND	ND	ND	ND	19,000	ND	ND
	12/17/96	140 b	1.1	2.0	ND	1.4	10,000 e	5,400 d	ND
	03/21/97	230	2.1	1.9	ND	ND	17,000 e	16,000 d	ND
	06/25/97	630 h	ND	ND	ND	ND	16,000 e	13,000 d	ND
MW-3	10/06/94	NA	ND	ND	ND	ND	320	NA	NA
	01/20/95	86	ND	ND	ND	ND	460	NA	NA
	05/15/95	60	ND	ND	ND	ND	310	NA	NA
	08/28/95	ND	ND	ND	ND	ND	310	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS
	12/06/95	120	ND	ND	ND	ND	1,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	210	NA	NA
	03/08/96	67	ND	ND	ND	ND	1,000	NA	7.2
	07/02/96	230 a	ND	ND	ND	ND	640	ND	ND
	12/17/96	240 f	ND	ND	ND	ND	560 e	ND	ND
	03/21/97	760 h	ND	ND	ND	0.94	2,100 e	1900 d	5.6
	06/25/97	180 h	ND	ND	ND	0.58	610 g	ND	5.3
MW-4	10/06/94	NA	ND	ND	ND	ND	ND	NA	NA
	01/20/95	ND	ND	ND	ND	ND	ND	NA	NA
	05/15/95	ND	ND	ND	ND	ND	ND	NA	NA
	08/28/95	ND	ND	ND	ND	ND	ND	NA	NA
	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA
	12/06/95	ND	ND	ND	ND	ND	57	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA
	03/08/96	ND	ND	ND	ND	ND	100	NA	ND
	07/02/96	ND	ND	ND	ND	ND	ND	ND	ND
	12/17/96	ND	ND	ND	ND	ND	310 g	530 d	ND
	03/21/97	ND	ND	ND	ND	ND	180 g	500 d	ND
	06/25/97	ND	ND	ND	ND	ND	120 g	ND	ND

Table 2
Groundwater Analytical Data -
TPPH-g, BTEX Compounds, TEPH-d, Motor Oil, and MtBE

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TEPH-d (µg/L)	Motor Oil (µg/L)	MtBE (µg/L)
MW-5*	05/15/95	ND	ND	ND	ND	ND	490	NA	NA
	08/28/95	ND	ND	ND	ND	ND	170	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS
	12/06/95	ND	ND	ND	ND	ND	250	NA	NA
	01/18/96	NA	NA	NA	NA	NA	49	NA	NA
	03/08/96	ND	ND	ND	ND	ND	210	ND	12
	07/02/96	200 a	ND	ND	ND	ND	110	ND	ND
MW-6	05/15/95	120	5.6	0.88	ND	2.1	1,100	NA	NA
	08/28/95	140	6.1	0.77	ND	2.3	2,100	NA	NA
	11/29/95	NA	NA	NA	NA	NA	35,000	5,400	NA
	12/06/95	140	4.6	0.89	ND	1.7	38,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	59,000	NA	NA
	03/08/96	160	3.4	0.57	ND	1.9	14,000	NA	ND
	07/02/96	3,300 a	3.1	ND	ND	ND	2,300	1,300	ND
	12/17/96	150 b	3.4	0.93	ND	1.7	15,000 e	14,000 d	14
	03/21/97	300	3.5	0.91	ND	0.79	18,000 e	17,000 d	19
	06/25/97	590 h	3.2	ND	ND	ND	9,300 e	7,900 d	15
MW-7	05/15/95	110	ND	ND	ND	ND	ND	NA	NA
	08/28/95	ND	ND	ND	ND	ND	ND	NA	NA
	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA
	12/06/95	62	ND	ND	ND	ND	ND	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA
	03/08/96	ND	ND	ND	ND	ND	ND	NA	NA
	07/02/96	ND	ND	ND	ND	ND	ND	NA	ND
	12/17/96	ND	ND	ND	ND	ND	ND	ND	580
	03/21/97	ND	ND	ND	ND	ND	120 g	ND	100
	06/25/97	ND	ND	ND	ND	ND	79 g	ND	190
							58 g	ND	580
MW-8	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA
	03/08/96	NS	NS	NS	NS	NS	NS	NS	NS
	07/02/96	ND	0.74	0.88	ND	0.82	ND	ND	ND
	12/17/96	ND	ND	ND	ND	ND	53 g	ND	ND
	03/21/97	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/97	ND	ND	ND	ND	ND	ND	ND	ND

µg/L = micrograms per liter
NS = Not Sampled
ND = Not Detected (see CAR for detection limit)
NA = Not Analyzed
MW-5* = Well MW-5 was destroyed in September 1996.
a = Chromatogram pattern is not gasoline, but volatile fraction of diesel quantified as gasoline.
b = Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C12 range.
c = Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in C9 - C24 range.
d = Chromatogram pattern is not motor oil, but unidentified hydrocarbons in C16 - C36 range.
e = Chromatogram pattern is weathered diesel in C9 - C24 range.
f = Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C10.
g = Chromatogram pattern is not diesel, but unidentified hydrocarbons in the C9 - C24 range.
h = Chromatogram patter is weathered gasoline.

Table 3
Groundwater Analytical Data -
PCBs, Metals, and VOCs

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	PCB's (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)	VOCs (µg/L)	
MW-1	11/29/95	NA	NA	NA	NA	NA	NA	ND	
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-2	11/29/95	NA	NA	NA	NA	NA	NA	NA	
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-3	11/29/95	NA	NA	NA	NA	NA	NA	NA	
	01/18/96	NA	ND	ND	ND	ND	51.2	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-4	11/29/95	NA	NA	NA	NA	NA	NA	ND	a
	01/18/96	NA	ND	ND	ND	ND	20.5	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-5	11/29/95	NA	NA	NA	NA	NA	NA	NA	
	01/18/96	NA	ND	ND	ND	ND	22.6	NA	
MW-6	11/29/95	ND	ND	822	107	1,190	851	ND	
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	ND	0.14	ND	0.2	0.18	ND	d
MW-7	11/29/95	NA	NA	NA	NA	NA	NA	ND	b
	01/18/96	NA	ND	ND	ND	ND	25.1	NA	
	06/25/97	NA	NA	NA	NA	NA	NA	NA	
MW-8	11/29/95	ND	ND	319	42.0	381	309	ND	c
	01/18/96	NA	ND	ND	ND	ND	ND	NA	
	06/25/97	NA	ND	0.54	ND	0.69	0.42	ND	

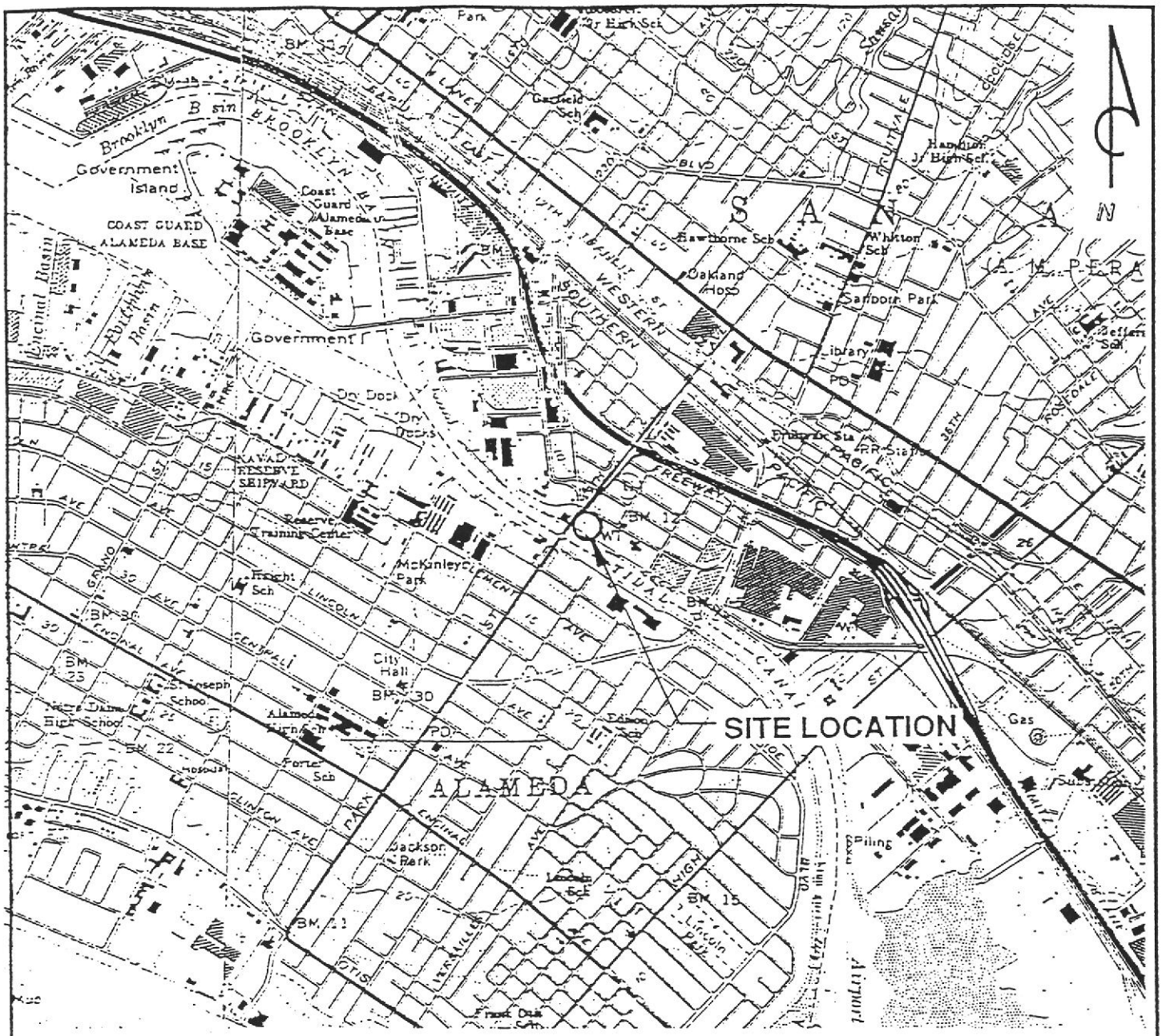
µg/L = micrograms per liter
PCBs = Polychlorinated Bi-Phenyls
VOCs = Volatile Organic Compounds
ND = Not Detected (see CAR for detection limit)
NA = Not Analyzed

a 0.61 µg/L 1,1-Dichloroethane
b 0.79 µg/L 1,1-Dichloroethane
0.74 µg/L *trans*-1,2-Dichloroethene
c 0.53 µg/L Vinyl Chloride
1.3 µg/L Trichloroethene
d 2.5 µg/L Chloroethene
0.97 µg/L 1,1-Dichloroethane
3.4 µg/L *trans*-1,2-Dichloroethene
1.4 µg/L Vinyl Chloride

Table 4
Groundwater Sampling Data
Dissolved Oxygen

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	Dissolved Oxygen (ppm)
MW-1	05/16/97	1
	06/25/97	3
MW-2	05/16/97	1
	06/25/97	3
MW-6	05/16/97	1
	06/25/97	4



QUADRANGLE LOCATION

REFERENCES:
USGS 7.5 MIN. TOPOGRAPHIC MAP
TITLED: OAKLAND EAST, CALIFORNIA
DATED: 1959 REVISED: 1980
TITLED: OAKLAND WEST, CALIFORNIA
DATED: 1959 REVISED: 1980

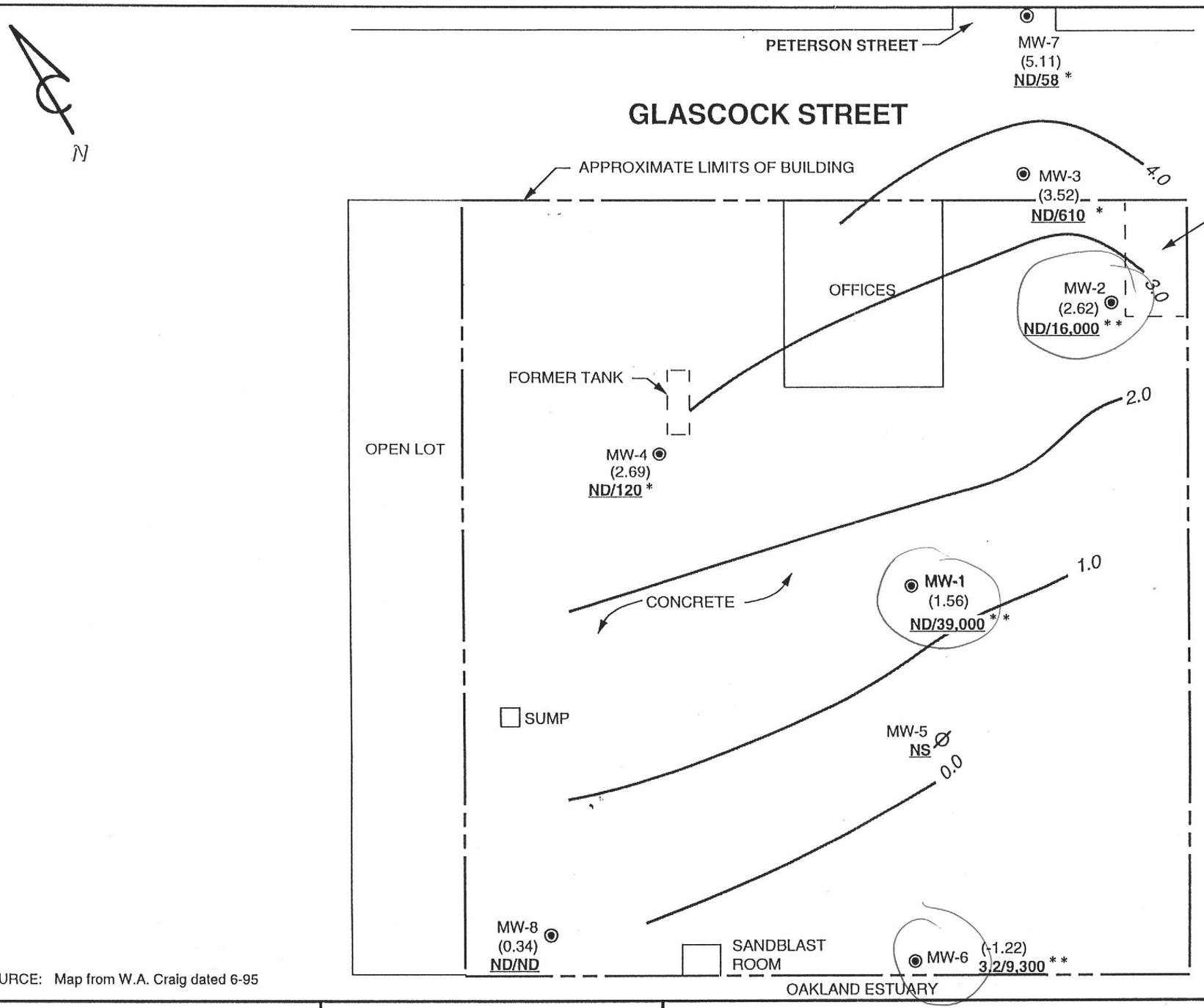
SCALE IN FEET
2000 0 2000

PACIFIC ENVIRONMENTAL GROUP, INC.

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

SITE LOCATION MAP

FIGURE: 1
PROJECT: 360-014.2B



LEGEND

MW-1 ◉	GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
MW-5 Ø	DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
(1.56)	GROUNDWATER ELEVATION IN FEET - MSL, 6-25-97
4.0	GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 6-25-97
ND/110	BENZENE/TEPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 6-25-97
ND	NOT DETECTED
NS	NOT SAMPLED
*	NOT DIESEL; UNIDENTIFIED HYDROCARBONS C9-C24
* *	WEATHERED DIESEL C9-C24

ØRC

SOURCE: Map from W.A. Craig dated 6-95

PACIFIC ENVIRONMENTAL GROUP, INC.

APPROXIMATE SCALE
0 40 80 FEET

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

GROUNDWATER MONITORING MAP - SECOND QUARTER 1997

FIGURE: 2
PROJECT: 360-014.2B

ATTACHMENT A

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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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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

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland

Lab Proj. ID: 9706F69

Sampled: 06/25/97
Received: 06/26/97
Analyzed: see below

Reported: 07/10/97

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9706F69-05				
Sample Desc : **LIQUID,MW-6**				
Cadmium	mg/L	07/08/97	0.010	N.D.
Chromium	**mg/L**	**07/08/97**	**0.010**	**0.14**
Lead	mg/L	07/08/97	0.10	N.D.
Nickel	**mg/L**	**07/08/97**	**0.050**	**0.20**
Zinc	**mg/L**	**07/08/97**	**0.010**	**0.18**
Lab No: 9706F69-07				
Sample Desc : **LIQUID,MW-8**				
Cadmium	mg/L	07/09/97	0.010	N.D.
Chromium	**mg/L**	**07/09/97**	**0.010**	**0.54**
Lead	mg/L	07/09/97	0.10	N.D.
Nickel	**mg/L**	**07/09/97**	**0.050**	**0.69**
Zinc	**mg/L**	**07/09/97**	**0.010**	**0.42**

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-01

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	2500	39000
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	280 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-01

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	25000	26000
Chromatogram Pattern: **Unidentified HC**		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	280 Q

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

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San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9706F69-01

Sampled: 06/25/97
Received: 06/26/97

Analyzed: 07/09/97
Reported: 07/10/97

QC Batch Number: GC070997BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**250**	**470**
Methyl t-Butyl Ether	**12**	**45**
Benzene	2.5	N.D.
Toluene	2.5	N.D.
Ethyl Benzene	2.5	N.D.
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		
Weathered Gas		C9-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	118

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

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9706F69-02

Sampled: 06/25/97
Received: 06/26/97

Analyzed: 07/09/97
Reported: 07/10/97

QC Batch Number: GC070997BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	630
Methyl t-Butyl Ether	12	N.D.
Benzene	2.5	N.D.
Toluene	2.5	N.D.
Ethyl Benzene	2.5	N.D.
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		
Weathered Gas		C10-C12

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

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 06/25/97
2025 Gateway Place, Suite 440	Sample Descript: MW-2	Received: 06/26/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 07/07/97
	Analysis Method: EPA 8015 Mod	Analyzed: 07/08/97
Attention: Andrew LeHane	Lab Number: 9706F69-02	Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	500	16000
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	164 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-02

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	5000	13000
Chromatogram Pattern: **Unidentified HC**		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	164 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-03

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/07/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	610
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	100

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-03

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/07/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	100

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

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Pacific Environmental Group
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San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9706F69-03

Sampled: 06/25/97
Received: 06/26/97

Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC070897BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	**180**
Methyl t-Butyl Ether	**2.5**	**5.3**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	**0.50**	**0.58**
Chromatogram Pattern:		
Weathered Gas		**C6-C12**

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

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Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-04

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	120
Chromatogram Pattern: **Unidentified HC**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9706F69-04

Sampled: 06/25/97
Received: 06/26/97

Analyzed: 07/07/97
Reported: 07/10/97

QC Batch Number: GC070797BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	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:		N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	81

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

SEQUOIA ANALYTICAL - ELAP #1210

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San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-04

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	91

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

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San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-05

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	250	9300
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	235 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-6
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-05

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/08/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	2500	7900
Chromatogram Pattern: **Unidentified HC**		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	235 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

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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 Attention: Andrew LeHane	Client Proj. ID: 360-014.2A/Oakland Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9706F69-05	Sampled: 06/25/97 Received: 06/26/97 Analyzed: 07/09/97 Reported: 07/10/97

QC Batch Number: GC070997BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	250	590
Methyl t-Butyl Ether	12	15
Benzene	2.5	3.2
Toluene	2.5	N.D.
Ethyl Benzene	2.5	N.D.
Xylenes (Total)	2.5	N.D.
Chromatogram Pattern:		
Weathered Gas		C9-C12

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

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Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 06/25/97
2025 Gateway Place, Suite 440	Sample Descript: MW-6	Received: 06/26/97
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: EPA 8010	Analyzed: 07/09/97
Attention: Andrew LeHane	Lab Number: 9706F69-05	Reported: 07/10/97

QC Batch Number: GC070897801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	**1.0**	**2.5**
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	**0.50**	**0.97**
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	**0.50**	**3.4**
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	**1.0**	**1.4**

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	95

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-06

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/07/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	58
Chromatogram Pattern: **Unidentified HC**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	99

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-7
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-06

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/07/97
Reported: 07/10/97

QC Batch Number: GC0703970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	99

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Pacific Environmental Group	Client Proj. ID: 360-014.2A/Oakland	Sampled: 06/25/97
2025 Gateway Place, Suite 440	Sample Descript: MW-7	Received: 06/26/97
San Jose, CA 95110	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/08/97
Attention: Andrew LeHane	Lab Number: 9706F69-06	Reported: 07/10/97

QC Batch Number: GC070897BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	N.D.
Methyl t-Butyl Ether	**10**	**580**
Benzene	2.0	N.D.
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern:		

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

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9706F69-07

Sampled: 06/25/97
Received: 06/26/97
Extracted: 07/07/97
Analyzed: 07/09/97
Reported: 07/10/97

QC Batch Number: GC0707970HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	105

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew LeHane	Client Proj. ID: 360-014.2A/Oakland Sample Descript: MW-8 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9706F69-07	Sampled: 06/25/97 Received: 06/26/97 Extracted: 07/07/97 Analyzed: 07/09/97 Reported: 07/10/97

QC Batch Number: GC0707970HBPEXA
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	500	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	105

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9706F69-07

Sampled: 06/25/97
Received: 06/26/97

Analyzed: 07/07/97
Reported: 07/10/97

QC Batch Number: GC070797BTEX01A
Instrument ID: GCHP01

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	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:		N.D.

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	88

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

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110

Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Sample Descript: MW-8
Matrix: LIQUID
Analysis Method: EPA 8010
Lab Number: 9706F69-07

Sampled: 06/25/97
Received: 06/26/97

Analyzed: 07/07/97
Reported: 07/10/97

QC Batch Number: GC070797801008A
Instrument ID: GCHP08

Halogenated Volatile Organics (EPA 8010)

Analyte	Detection Limit ug/L	Sample Results ug/L
Bromodichloromethane	0.50	N.D.
Bromoform	0.50	N.D.
Bromomethane	1.0	N.D.
Carbon Tetrachloride	0.50	N.D.
Chlorobenzene	0.50	N.D.
Chloroethane	1.0	N.D.
2-Chloroethylvinyl ether	1.0	N.D.
Chloroform	0.50	N.D.
Chloromethane	1.0	N.D.
Dibromochloromethane	0.50	N.D.
1,2-Dichlorobenzene	0.50	N.D.
1,3-Dichlorobenzene	0.50	N.D.
1,4-Dichlorobenzene	0.50	N.D.
1,1-Dichloroethane	0.50	N.D.
1,2-Dichloroethane	0.50	N.D.
1,1-Dichloroethene	0.50	N.D.
cis-1,2-Dichloroethene	0.50	N.D.
trans-1,2-Dichloroethene	0.50	N.D.
1,2-Dichloropropane	0.50	N.D.
cis-1,3-Dichloropropene	0.50	N.D.
trans-1,3-Dichloropropene	0.50	N.D.
Methylene chloride	5.0	N.D.
1,1,2,2-Tetrachloroethane	0.50	N.D.
Tetrachloroethene	0.50	N.D.
1,1,1-Trichloroethane	0.50	N.D.
1,1,2-Trichloroethane	0.50	N.D.
Trichloroethene	0.50	N.D.
Trichlorofluoromethane	0.50	N.D.
Vinyl chloride	1.0	N.D.

Surrogates	Control Limits %		% Recovery
1-Chloro-2-fluorobenzene	70	130	73

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2A / Oakland
Matrix: LIQUID
Work Order #: 9706F69 01-07

Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	1,1-Dichloro-ethene	Trichloro-ethene	Chloro-Benzene
QC Batch#:	GC070797801008A	GC070797801008A	GC070797801008A
Analy. Method:	EPA 8010	EPA 8010	EPA 8010
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9706F0702	9706F0702	9706F0702
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Dilution Factor:	1	1	1
Result:	22	22	21
MS % Recovery:	88	88	84
Dup. Result:	23	22	22
MSD % Recov.:	92	88	88
RPD:	4.4	0.0	4.7
RPD Limit:	0-25	0-25	0-25
LCS #:	BLK070797	BLK070797	BLK070797
Prepared Date:	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	23	22	22
LCS % Recov.:	92	88	88
MS/MSD Control Limits	60-140	60-140	60-140
LCS Control Limits	65-135	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granicher
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

Sequoia Analytical

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2A / Oakland
Matrix: LIQUID
Work Order #: 9706F69 01-07

Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Chloro-Benzene
QC Batch#:	GC070797802008A	GC070797802008A	GC070797802008A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9706F0702	9706F0702	9706F0702
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Dilution Factor:	1	1	1
Result:	24	23	22
MS % Recovery:	96	92	88
Dup. Result:	24	23	23
MSD % Recov.:	96	92	92
RPD:	0.0	0.0	4.4
RPD Limit:	0-25	0-25	0-25
LCS #:	BLK070797	BLK070797	BLK070797
Prepared Date:	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	24	23	22
LCS % Recov.:	96	92	88
MS/MSD Control Limits	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2A / Oakland
Matrix: LIQUID
Work Order #: 9706F69 01-07

Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Chloro-Benzene
QC Batch#:	GC070897802008A	GC070897802008A	GC070897802008A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030
Analyst:	J. Minkel	J. Minkel	J. Minkel
MS/MSD #:	9706F6802	9706F6802	9706F6802
Sample Conc.:	N.D.	N.D.	N.D.
Prepared Date:	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
Dilution Factor:	10	10	10
Result:	220	210	210
MS % Recovery:	88	84	84
Dup. Result:	230	230	220
MSD % Recov.:	92	92	88
RPD:	4.4	9.1	4.7
RPD Limit:	0-25	0-25	0-25
LCS #:	BLK070997	BLK070997	BLK070997
Prepared Date:	7/9/97	7/9/97	7/9/97
Analyzed Date:	7/9/97	7/9/97	7/9/97
Instrument I.D.#:	GCHP8	GCHP8	GCHP8
Conc. Spiked:	25 µg/L	25 µg/L	25 µg/L
LCS Result:	26	25	24
LCS % Recov.:	104	100	96
MS/MSD Control Limits	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130

SEQUOIA ANALYTICAL

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Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2A / Oakland
Matrix: LIQUID
Work Order #: 9706F69 01-07

Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070797BTEX01A	GC070797BTEX01A	GC070797BTEX01A	GC070797BTEX01A	GC070797BTEX01A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9706E6602	9706E6602	9706E6602	9706E6602	9706E6602
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.3	9.2	9.4	28	72
MS % Recovery:	93	92	94	93	120
Dup. Result:	9.6	9.5	9.8	29	76
MSD % Recov.:	96	95	98	97	127
RPD:	3.2	3.2	4.2	3.5	5.4
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK070797	BLK070797	BLK070797	BLK070797	BLK070797
Prepared Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Analyzed Date:	7/7/97	7/7/97	7/7/97	7/7/97	7/7/97
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.5	9.3	9.6	28	73
LCS % Recov.:	95	93	96	93	122
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2A / Oakland
Matrix: LIQUID
Work Order #: 9706F69 01-07

Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070897BTEX06A	GC070897BTEX06A	GC070897BTEX06A	GC070897BTEX06A	GC070897BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9706E6603	9706E6603	9706E6603	9706E6603	9706E6603
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.2	9.2	9.3	27	68
MS % Recovery:	92	92	93	90	113
Dup. Result:	9.1	9.0	9.3	27	67
MSD % Recov.:	91	90	93	90	112
RPD:	1.1	2.2	0.0	0.0	1.5
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK070897	BLK070897	BLK070897	BLK070897	BLK070897
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.7	9.5	9.7	28	71
LCS % Recov.:	97	95	97	93	118
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

Please Note:
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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2A / Oakland
Matrix: LIQUID
Work Order #: 9706F69 01-07
Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC070997BTEX06A	GC070997BTEX06A	GC070997BTEX06A	GC070997BTEX06A	GC070997BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9706E2023	9706E2023	9706E2023	9706E2023	9706E2023
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	7/9/97	7/9/97	7/9/97	7/9/97	7/9/97
Analyzed Date:	7/9/97	7/9/97	7/9/97	7/9/97	7/9/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	9.2	9.9	9.1	27	64
MS % Recovery:	92	89	91	90	107
Dup. Result:	8.8	8.7	9.0	26	62
MSD % Recov.:	88	87	90	87	103
RPD:	4.4	2.3	1.1	3.8	3.2
RPD Limit:	0-25	0-25	0-25	0-25	0-25
LCS #:	BLK070997	BLK070997	BLK070997	BLK070997	BLK070997
Prepared Date:	7/9/97	7/9/97	7/9/97	7/9/97	7/9/97
Analyzed Date:	7/9/97	7/9/97	7/9/97	7/9/97	7/9/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.0	8.8	9.0	26	62
LCS % Recov.:	90	88	90	87	103
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2A / Oakland
Matrix: LIQUID
Work Order #: 9706F69 01-07

Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Chromium	Cadmium	Thallium
QC Batch#:	ME0708976010MDA	ME0708976010MDA	ME0708976010MDA	ME0708976010MDA
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	R. Butler	R. Butler	R. Butler	R. Butler
MS/MSD #:	9706F0201	9706F0201	9706F0201	9706F0201
Sample Conc.:	N.D.	N.D.	N.D.	0.37
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.0	1.0	1.0	1.4
MS % Recovery:	100	100	100	100
Dup. Result:	1.0	1.0	1.0	1.4
MSD % Recov.:	100	100	100	100
RPD:	0.0	0.0	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	BLKk070897	BLKk070897	BLKk070897	BLKk070897
Prepared Date:	7/8/97	7/8/97	7/8/97	7/8/97
Analyzed Date:	7/8/97	7/8/97	7/8/97	7/8/97
Instrument I.D.#:	MTJA2	MTJA2	MTJA2	MTJA2
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.0	1.0	1.0	1.0
LCS % Recov.:	100	100	100	100
MS/MSD LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Project ID:	360-014.2A / Oakland	
2025 Gateway Place, Suite 440	Matrix:	LIQUID	
San Jose, CA 95110			
Attention: Andrew Lehane	Work Order #:	9706F69 01-07	Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0703970HBPEXA
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510
Analyst:	B. Sullivan
MS/MSD #:	9706F9909
Sample Conc.:	230
Prepared Date:	7/3/97
Analyzed Date:	7/4/97
Instrument I.D.#:	GCHP5A
Conc. Spiked:	1000 µg/L
Result:	930
MS % Recovery:	70
Dup. Result:	950
MSD % Recov.:	72
RPD:	2.1
RPD Limit:	0-50

LCS #:	BLK070797
Prepared Date:	7/7/97
Analyzed Date:	7/7/97
Instrument I.D.#:	GCHP4A
Conc. Spiked:	1000 µg/L
LCS Result:	820
LCS % Recov.:	82

MS/MSD	60-140
LCS	50-150
Control Limits	

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

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Pacific Environmental Group	Client Project ID:	360-014.2A / Oakland	
2025 Gateway Place, Suite 440	Matrix:	LIQUID	
San Jose, CA 95110			
Attention: Andrew Lehane	Work Order #:	9706F69 01-07	Reported: Jul 14, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	GC0707970HBPEXZ
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3520
Analyst:	G. Fish
MS/MSD #:	9706F9804
Sample Conc.:	N.D.
Prepared Date:	7/7/97
Analyzed Date:	7/9/97
Instrument I.D.#:	GCHP4B
Conc. Spiked:	1000 µg/L
Result:	810
MS % Recovery:	81
Dup. Result:	950
MSD % Recov.:	95
RPD:	16
RPD Limit:	0-50

LCS #:	BLK070797
Prepared Date:	7/7/97
Analyzed Date:	7/9/97
Instrument I.D.#:	GCHP4B
Conc. Spiked:	1000 µg/L
LCS Result:	740
LCS % Recov.:	74

MS/MSD	60-140
LCS	50-150
Control Limits	

SEQUOIA ANALYTICAL

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Pacific Environmental Group
2025 Gateway Place, Suite 440
San Jose, CA 95110
Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland

Lab Proj. ID: 9706F69

Received: 06/26/97

Reported: 07/10/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 39 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
REC. BY (PRINT): Abad
WORKORDER: 9706F69
DATE OF LOG-IN: 7:2 97

CIRCLE THE APPROPRIATE RESPONSE

1. Custody Seal(s): Present / (Absent) Intact / Broken*
2. Custody Seal #: Put in Remarks Section
3. Chain-of-Custody: (Present) / Absent*
4. Traffic Reports or Packing List: Present / (Absent)
5. Airbill: Airbill / Sticker Present / (Absent)
6. Airbill #:
7. Sample Tags: (Present) / Absent
   Sample Tags #s: (Listed) / Not Listed on Chain-of-Custody
8. Sample Condition: (Intact) / Broken* / Leaking*
9. Does information on custody reports, traffic reports and sample tags agree? (Yes) / No*
10. Proper Preservatives used: (Yes) / No*
11. Date Rec. at Lab: 6/26/97
12. Time Rec. at Lab: 1243
13. Temp Rec. at Lab: 10°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1	A-B	MW-1	2x 1L amber	LIQ	6/25	
	C-E	↓	3x VOA			
2	same	MW-2	same			
3	↓	↓ 3	↓			
4	↓	↓ 4	↓			
5	C-E	MW-6	4x VOA			
	A-B	↓	2x 1L amber			
	G	↓	1L metals			
6	A-B	MW-7	2x 1L amber			
	C-E	↓	3x VOA			
7	C-E	MW-8	4x VOA			
	A-B	↓	2x 1L amber			
	G	↓	1L metals	↓	↓	

6/26/97

*If Circled, contact Project Manager and attach record of resolution.

Revision 6/18/97
RCPTLOG.XLS

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 360014.01 | Facility No: Former Domino Beer Site | Facility Address: 2901 Glascock St Oakland CA
CLIENT engineer: Denise Duran | PACIFIC Point of Contact: Andrea Lehnus | Sampler: Pedro Perez
Billing Refence Number: 34521 | Laboratory Name: Severn Trent

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water, S=soil, A=air)	Type (G=grab, D=disc., C=comp.)	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020) MTBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Fuel Fingerprint as Diesel (Motor Oil)	Cadmium, Lead, Chromium, Nickel, Zinc, Chlorinated Hydrocarbons 8010
MW-1	5	40ml VOA	HCl to pH<2	W	G	6/25/97	11:55	X							X	
MW2							12:15									
MW3							10:35									
MW4							11:00									
MW6	7		HCl to pH<2 MW3				11:35									X X
MW7	5		HCl to pH<2				10:10									
MW8	7		HCl to pH<2 MW3				11:15									X X

Comments: 9706F69

TUE/FINGERPRINT AS DIESEL (MOTOROIL) SILICA GEL/CLEANUP

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
	6/25/97	13:00	Krissy Fleseras	6/26/97	825 AM
Krissy Fleseras	6/25/97	10:15	Steve Tan	6/26/97	10:15
Steve Tan	6/26/97				
			Received by laboratory	4/26/97	1243

Mail original Analytical Report to:

- [X] Pacific Environmental Group, 2025 Gateway Place #440, San Jose, CA 95110
- [ ] 620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523
- [ ] 25725 Jeronimo Rd. #576C, Mission Viejo, CA 92622
- [ ] 4020 148th Ave NE #B, Redmond, WA 98052

Turnaround Time:

- [ ] Priority Rush (1 day)
- [ ] Rush (2 days)
- [ ] Expedited (5 days)
- [X] Standard (10 days)
- [ ] As Contracted

RECEIVED 26 12 43

Sequoia Analytical

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Attention: Andrew LeHane

Client Proj. ID: 360-014.2A/Oakland
Lab Proj. ID: 9706F69

Received: 06/26/97
Reported: 07/10/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of_____ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TEPH note: Chromatograms for samples in this set conform to a weathered diesel pattern, and show evidence of additional non-diesel components. The chromatographic images display no evidence of a known motor oil pattern. Consequently, it appears that these samples contain no detectable quantities of motor oil.

SEQUOIA ANALYTICAL

Tod Granicher
Project Manager

SONNY

FIELD SERVICES / O&M REQUEST

Work Order # 6366

RECEIVED JUN 27 1997 PACIFIC ENVIRONMENTAL GROUP INC

SITE INFORMATION FORM

Identification

Project # 360-014.2A

Station # — N.A. —

Site Address: 2901 Glascock St. Oakland, CA

County: Alameda

Project Manager: ANDREW L.

Requestor: ANDREW L

Client: GLASCOCK STREET PROPERTIES

Project Type

- [ ] 1st Time Visit
- [x] Quarterly
  - [x] 1st 97 [x] 2nd 97 [ ] 3rd [x] 4th 96
- [ ] Monthly
- [ ] Semi-Monthly
- [ ] Weekly
- [ ] One time event
- [ ] Other: ______

Client P.O.C.: Dunn - Buron

Date of Request 12/6/96

Ideal field date(s): Fourth quarter 1996/01[illegible]

Check Appropriate Category

Budget Hrs. ______

Actual Hrs. 8 1/2

Mob de Mob ______

Field Tasks: For General Description

circle one:

Priority: 1. (emergency, must be done within 24 hrs); 2. (next visit); 3. (when available)

1) CONTACT [illegible] @ ICONCO [illegible] DERBY AVE @ GLASCOCK (510) 261-1900 TO ARRANGE FOR ACCESS TO SITE.

2) TAKE GROUNDWATER ~~[illegible]~~ DTW MEASUREMENTS FOR WELLS MW-1 THROUGH MW-8 (SEE ATTACHED FIGURE). NOTE THAT MW-5 HAS BEEN REMOVED. (USE TOC FOR DTW)

3) COLLECT GROUNDWATER SAMPLES FROM WELLS MW-1 THROUGH MW-8 (EXCEPT MW-5). SAMPLES TO BE ANALYZED BY SEQUOIA ANALYTICAL ON NORMAL TURN AROUND. ANALYSIS REQUIRED: QUARTERLY FOR ALL WELLS: TPH-g, TPH-d, TPH-[illegible], BTEX, MTBE + ANNUALLY FOR (MW-6 & MW-8) (FIRST QUARTER '97): CADMIUM, CHROMIUM, LEAD, NICKEL, ZINC & CHLORINATED HYDROCARBONS (8010).

4) IDEAL SAMPLING ORDER: MW-4, MW-7, MW-?, MW-3, MW-6, MW-1, MW-2

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

5) PURGE WATER TO BE DISPOSED @ SEAPORT. MATERIAL WAS PREVIOUSLY PROFILED FOR DISPOSAL @ SEAPORT, [illegible].

TASK COMPLETED H2O TO SEAPORT RWC.

- [x] Samples taken
- [ ] Samples not required
- [ ] Soil Vapor
- [ ] Groundwater
- [ ] Weekly
- [ ] Semi-Monthly
- [ ] Monthly
- [ ] Quarterly
- [ ] Semi-Annual

Completed by: [signature] Date: 6-25-97

Checked by: ______

PACIIFIC ENVIRONMENTAL GROUP, INC.

White Copy - Originator Yellow Copy - O & M Tech Pink Copy - File

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 360044.20 LOCATION: 2601 Glascock St DATE: 6-25-97

CLIENT/STATION NO.: Former Oliver site FIELD TECHNICIAN: RE DAY OF WEEK:

PROBE TYPE/ID No.
- [x] Oil/Water IF/ _____
- [x] H_2O level indicator _____
- [ ] Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SEPARATE-PHASE HYDROCARBONS (SPH) SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons) SPH / H_2O
	MW1	9:10	✓	✓	✓	✓	✓	19.80	9.23 / 9.23	9.40 / 9.40										
	MW2	9:18	✓	✓	✓	✓	✓	19.75	8.01 / 8.01	8.13 / 8.13										
	MW3	9:10	✓	✓	✓	✓	✓	19.80	6.35 / 6.35	6.72 / 6.70										
	MW4	9:14	✓	✓	✓	✓	✓	19.70	7.95 / 7.95	8.34 / 8.34										
	MW5							Destroyed.												
	MW6	9:32	✓	✓	✓	✓	✓	19.50	11.50 / 11.50	12.12 / 12.12										
	MW7	9:35	✓	✓	✓	✓	✓	17.75	4.75 / 4.75	5.15 / 5.15										
	MW8	9:17	✓	✓	✓	✓	✓	17.70	10.87 / 10.20	10.80 / 10.80										

Comments:

FIELD DATA SHEET

TER SAMPLE FIELD DATA SHEET

PROJECT No.: 360C192A LOCATION: 2901 Blossom St WELL ID #: MW-1

CLIENT/STATION No.: FORMER DOPPELHER SITE FIELD TECHNICIAN: PEDRO RUIZ

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 9.80 DTW 9.20 = 10.00 x Gal/Linear Foot .17 = 1.80 x Number of Casings 3 = Calculated Purge 5.40

DATE PURGED: 6-25-97 START: 11:15 END (2400 hr): _____ PURGED BY: RE

DATE SAMPLED: 6-25-97 START: 11:55 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:18	1.75	7.38	1220	66.4	BRN	Mod	Strong
11:51	3.5	7.40	1230	66.7	BRN	Mod	Strong
11:54	5.25	7.47	1250	66.1	BRN	Mod	Strong

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (NO)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-3
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-1	6-25-97	11:55	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb.	NP	TPHD, TPHmo
				1L	Plast.	H2SO4	METALS

REMARKS: 20:30pm

FIELD DATA SHEET

ER SAMPLE FIELD DATA SHEET

PROJECT No.: 360C192A LOCATION: 2901 Blanco St WELL ID #: MW-2

CLIENT/STATION No.: Former Dupont Site FIELD TECHNICIAN: Pedro Ruiz

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 19.75 - DTW 8.01 = 11.74 x Gal/Linear Foot .17 = 1.99 x Number of Casings 3 = Calculated Purge _____

DATE PURGED: 6-25-97 START: 12:04 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 6-25-97 START: 12:15 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
12:08	2	7.31	2010	67.7	Cloudy	Heavy	Strong
12:11	4	7.35	2040	67.3	Cloudy	Heavy	Strong
12:14	6	7.30	2010	67.4	Cloudy	Heavy	Strong

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: 15
- ☐ Dedicated: _____
- ☐ Other: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW2	6-25-97	12:15	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NO	TPHD, TPHmo
				1L	Plast.	HNO3	METALS

REMARKS: DO. 3ppm

FIELD DATA SHEET

ER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001924 LOCATION: 2901 Blanco St WELL ID #: MW-3

CLIENT/STATION No.: Former Dorchester Site FIELD TECHNICIAN: Pedro Ruiz

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 19.80 DTW 6.35 = 13.45 x Gal/Linear Foot .17 = 2.28 x Number of Casings 3 = Calculated Purge 6.85

DATE PURGED: 6.25.97 START: 10:25 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6.25.97 START: 10:35 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:28	2.25	7.12	1150	67.2	Cloudy	Mod	Faint
10:31	4.5	7.45	1200	67.5	Cloudy	Mod	Faint
10:34	6.75	7.50	1170	66.9	Cloudy	Mod	Faint

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (NO)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-7
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-3	6.25.97	10:35	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb.	NO	TPHD, TPHMO
				1L	Plast.	HNO3	METALS

REMARKS: _____

FIELD DATA SHEET

ER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2A LOCATION: 2901 Blaisdell St WELL ID #: MW-4

CLIENT/STATION No.: FORMER Dobbs TIRE FIELD TECHNICIAN: PEDRO RUIZ

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 19.70 - DTW 7.95 = 11.75 x Gal/Linear Foot .17 = 1.99 x Number of Casings 3 = Calculated Purge 5.99

DATE PURGED: 6-25-97 START: 10:45 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6-25-97 START: 11:00 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
10:49	2	7.51	750	65.8	Cloudy	Mod	Slight
10:52	4	7.48	760	66.5	Cloudy	Mod	None
10:55	6	7.54	727	66.4	Cloudy	Mod	None

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-11
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-4	6-25-97	11:00	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb.	NP	TPHD, TPHmo
				1L	Plast.	HNO3	METALS

REMARKS: _____

FIELD DATA SHEET

TER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2A LOCATION: 2901 Blanding St WELL ID #: MW-6

CLIENT/STATION No.: FORMER DOMINGUEZ SITE FIELD TECHNICIAN: PEDRO RUIZ

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 19.50 DTW 11.50 = 8 x Gal/Linear Foot .17 = 1.36 x Number of Casings 3 = Calculated Purge 4.08

DATE PURGED: 6-25-97 START: 11:23 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 6-25-97 START: 11:35 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:27	1.25	7.57	1380	65.7	BRN	Heavy	Strong
11:30	2.5	7.60	1350	65.2	BRN	Heavy	Strong
11:33	3.75	7.59	1340	65.1	BRN	Heavy	Strong

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

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: 15
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: Bigos
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW6	6-25-97	11:35	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb.	NO	TPHD, TPHmo
			1	1L	Plast.	HNO3	METALS

REMARKS: DO 4 ppm

FIELD DATA SHEET

TER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2A LOCATION: 2901 Blanco Ct WELL ID #: MW-7

CLIENT/STATION No.: FORMER DOMINGUEZ SITE FIELD TECHNICIAN: PEDRO RUIZ

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 17.75 - DTW 4.75 = 13 x Gal/Linear Foot .17 = 2.21 x Number of Casings 3 = Calculated Purge 6.63

DATE PURGED: 6.25.97 START: 10:00 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6.25.97 START: 10:10 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
10:03	2.25	7.57	1380	69.1	Cloudy	Mod	Mod
10:06	4.5	7.42	1400	69.2	Cloudy	Mod	Mod
10:10	6.75	7.32	1370	69.3	Cloudy	Mod	Mod

Pumped dry Yes / (No)

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-9
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-7	6.25.97	10:10	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo
				1L	Plast	HNO3	METALS

REMARKS: _____

FIELD DATA SHEET

GROUNDWATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2A LOCATION: 2901 Glacier St WELL ID #: MW-8

CLIENT/STATION No.: FORMER DOPPLER SITE FIELD TECHNICIAN: PEDRO RUIZ

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 17.70 - DTW 10.00 = 7.5 x Gal/Linear Foot .17 = 1.27 x Number of Casings 3 = Calculated Purge 3.82

DATE PURGED: 6.25.97 START: 11:03 END (2400 hr): ~~—~~ PURGED BY: RE

DATE SAMPLED: 6.25.97 START: 11:15 END (2400 hr): ~~—~~ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:06	1.25	7.04	2280	66.5	BRN	HEAVY	NONE
11:09	2.5	7.10	2200	66.8	BRN	HEAVY	NONE
11:12	3.75	7.09	2330	65.8	BRN	HEAVY	NONE

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

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-17
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW8	6.25.97	11:15	4	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NP	TPHD, TPHMO
			1	1L	Plast.	HNO3	METALS

REMARKS: _____

Chain of Custody

Pacific Environmental Group, Inc.
2025 Gateway Place #440, San Jose CA 95110
Phone 408 441 7790 Fax 408 441 7539

PROJECT No. 360014.01 | Facility Address: 2901 Glascock St Oakland CA | Billing Refence Number: 34521

Facility No: FORMER DOMS RIVER SITE | PACIFIC Point of Contact: Andrea Leblanc | Sampler: Pedro Lopez | Laboratory Name: Severn

CLIENT engineer: DENISE BORSN

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix (W=water, S=soil, A=air)	Type (G=grab, D=disc, C=comp.)	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020) MTBE	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Fuel Fingerprint as Diesel & Motor Oil	Cadmium, Lead, Chromium, Nickel, Zinc	Chlorinated Hydrocarbons 8010
MW1	5	40ml VOA	HCl NP	W	G	02597	11:55	X							X		
MW2							12:15										
MW3							10:35										
MW4							11:00										
MW6	7		HCl NP HNO3				11:35									X	X
MW7	5		HCl NP				10:10										
MW8	7		HCl NP HNO3				11:15									X	X

Comments: FUEL FINGERPRINT AS DIESEL & MOTOR OIL SILICA GEL CLEANUP

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
	02597	13:00			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory	Date	Time

Mail original Analytical Report to:
Pacific Environmental Group
2025 Gateway Place #440, San Jose, CA 95110 [X]
620 Contra Costa Blvd. #209, Pleasant Hill, CA 94523 [ ]
25725 Jeronimo Rd. #576C, Mission Viejo, CA 92022 [ ]
4020 148th Ave NE #B, Redmond, WA 98052 [ ]

Turnaround Time:
- Priority Rush (1 day) [ ]
- Rush (2 days) [ ]
- Expedited (5 days) [ ]
- Standard (10 days) [X]
- As Contracted [ ]