PACIFIC
ENVIRONMENTAL
GROUP, INC.

AN IT COMPANY

September 11, 1998
Project 360-014.2B

#1138

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

Re: **Quarterly Report - Second Quarter 1998**
Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Dear Mr. Buran:

This letter has been prepared for Glascock Street Properties by Pacific Environmental Group, Inc. (PEG). The following presents the results of second quarter 1998 groundwater monitoring program for the site referenced above (Figure 1). In addition, PEG has included a response to letters from the Alameda County Health Care Services Agency (ACHCSA) dated July 9 and August 18, 1998.

QUARTERLY GROUNDWATER MONITORING PROGRAM

All seven existing groundwater monitoring wells (MW-1 through MW-4, and MW-6 through MW-8; Figure 2) were gauged and sampled by PEG on June 26, 1998. 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 purgeable petroleum hydrocarbons quantified as gasoline (TPPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), total extractable petroleum hydrocarbons quantified as diesel (TEPH-d), total extractable petroleum hydrocarbons quantified as motor oil, and methyl tert-butyl ether (MtBE). Groundwater elevations, benzene, and TEPH-d concentrations for the second quarter 1998 sampling event are shown on Figure 2. The certified analytical reports, chain-of-custody documentation, and field data sheets are presented as Attachment A.

Groundwater Levels

The average groundwater elevation in site monitoring wells decreased approximately 1.27 feet compared to 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 approximately 0.022 (Figure 2). Groundwater elevations were within the historic range for the site.

Groundwater Quality

Detectable TEPH-d concentrations were found in Wells MW-1, MW-2, and MW-6, and were characterized as weathered diesel. A concentration of TEPH-d was reported for Well MW-3, however it was not characterized as diesel but as unidentified hydrocarbons in the C_9 through C_{24} range. The highest TEPH-d concentration detected was in the sample from Well MW-2 at 11,000 micrograms per liter (µg/L).

Concentrations of total extractable petroleum hydrocarbons quantified as motor oil were reported in samples from Wells MW-1, MW-2, and MW-6. However, laboratory analysis characterized the samples as unidentified hydrocarbons in the C_{16} to C_{36} range and not motor oil.

Wells MW-1, MW-2, MW-3, and MW-6 were reported to have detectable TPPH-g, however, the analytical reports characterized all results as unidentified hydrocarbons in the C_6 through C_{12} range or greater than C_{10}. None of the results were reported to be gasoline. Benzene was detected in Wells MW-1 and MW-6 this quarter. Benzene concentrations were reported as 2.6 µg/L for Well MW-1 and 5.3 µg/L for Well MW-6. MtBE concentrations were detected in Wells MW-6 and MW-7 at 11 µg/L and 110 µg/L respectively. Well MW-7 is an upgradient well located off-site at the intersection of Glascock and Peterson Streets.

Results of analyses for TEPH-d and benzene are shown on Figure 2.

RESPONSE TO ACHCSA LETTERS

Letters from the ACHCSA dated July 9 and August 18, 1998, provided guidance on proposed cleanup goals for the site, indicated that additional source removal should be considered, and requested a work plan for additional groundwater remediation. The following paragraphs respond to the ACHCSA's letters.

Proposed Cleanup Goals

The ACHCSA letters propose both qualitative and quantitative cleanup goals for the site. The qualitative goals set forth for considering site closure included:

1) Demonstrating the extent of hydrocarbon-impacted groundwater at the site is stabilized or shrinking.

2) Removing or remediating the source of contamination.

3) Abating risks to human health or the environment.

The quantitative goals included proposed cleanup goals for TEPH-d ranging from 100 ppb to 570 ppb. PEG also understands that concentrations considerably higher than these have been proposed to the Regional Water Quality Control Board (RWQCB) as cleanup goals for sites similar in nature to this site (e.g., the San Francisco International Airport). The RWQCB is currently without formal guidance for standard cleanup goals at sites such as this, since the *Enclosed Bays and Estuaries Plan* (EBEP) adopted in 1991 was voided by the Sacramento Superior Court in 1994. The US EPA has proposed standards under the *California Toxics Rule*, but this rule is still draft. In the meantime, State Water Resources Control Board (SWRCB) is developing an *Implementation Policy* for operating under the *California Toxics Rule*, once finalized, while continuing to develop a new EBEP.

Given the uncertain nature of numerical cleanup goals at this point, PEG recommends the qualitative objectives be used to guide the remedial effort at this time.

Consideration of Additional Source Removal

Per the request of the ACHCSA, PEG has reviewed the site data in relation to further source removal. PEG reviewed the site background and found that 2 underground storage tanks (USTs) were removed from the site in February of 1993, along with about 200 cubic yards of hydrocarbon-impacted soil. Overexcavation in the vicinity of the former UST at the south-east corner of the warehouse was stopped when the extent of the excavation threatened structural integrity of the building. In the fourth quarter of 1996, approximately 150 additional cubic yards of hydrocarbon-impacted soil were excavated and removed from the site, based on the findings of soil sampling from 7 site monitoring wells and 32 soil borings performed between 1993 and 1995. All confirmation samples taken in 1996 were in compliance with the soil cleanup goals approved by the ACHCSA.

In summary, the primary source of hydrocarbons (i.e., the USTs) have been removed, the site has been extensively characterized and any areas identified as containing elevated concentrations of residual hydrocarbons (i.e., "secondary source areas") have been excavated to achieve the cleanup goals approved by the ACHCSA, to the extent feasible. Therefore, it is our opinion that additional source removal is not warranted.

Work Plan for Additional Groundwater Remediation

PEG has reviewed several alternatives for remediating residual petroleum hydrocarbons in groundwater at the site, and found that the most feasible alternative for this site is the use of enhanced bioremediation. PEG proposes to install 5 remedial wells, as described in the *Work Plan for Additional Remediation* (PEG, November 12, 1997), and equip the wells with oxygen releasing compound (ORC®) units (Figure 3).

The location of the proposed remedial wells was selected to create a treatment "fence" through which the hydrocarbon plume will migrate, while maintaining a monitoring point between the remedial wells and the site boundary. The distribution of the remedial wells is designed to cover the lateral extent of the plume at this location, based on quarterly monitoring data.

The ACHCSA suggested that we provide a estimate of the amount of residual hydrocarbons and a calculation of the amount of oxygen needed to react with the hydrocarbons to complete remediation. While PEG could predict the amount of ORC® required to remediate the residual hydrocarbons at the site, this calculation is highly sensitive to the estimated mass of hydrocarbons. Given the site conditions (e.g., fluctuating groundwater elevations and concentrations), the assumptions which must be made to estimate residual hydrocarbon mass, and our experience with similar sites, PEG believes the residual mass cannot be accurately calculated. The resulting prediction of ORC® consumption would likewise be unreliable. However, since PEG does not intend to construct a grid of borings backfilled with an ORC® slurry, this issue is not critical. The construction of wells will allow for monitoring and replacement of ORC® material as oxygen-releasing ability is depleted. The ORC® will be replaced periodically to continue stimulation of the residual hydrocarbon plume until the remedial objectives have been met, or asymptotic conditions are achieved.

CONCLUSION

PEG believes that this alternative is the most technically and economically feasible alternative for remediating residual hydrocarbons at the site to meet the qualitative cleanup goals proposed for the site. PEG proposes to stimulate enhanced bioremediation of the residual hydrocarbon plume until the qualitative remedial objectives have been met, or asymptotic conditions are achieved. Groundwater monitoring and sampling will continue on the existing schedule until site conditions warrant a modification to the program.

1) gw velocity < 10'/yr
Or radially by diffusion

2 ortho & load ft/day

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
	05/15/95		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
	12/17/96		6.85	3.91
	03/21/97		7.90	2.86
	06/25/97		9.20	1.56
	09/29/97		8.90	1.86
	12/11/97		7.10	3.66
	03/27/98		7.50	3.26
	06/26/98		8.65	2.11
MW-2	10/06/94	10.62	7.17	3.45
	01/20/95		4.64	5.98
	05/15/95		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
	09/29/97		8.45	2.18
	12/11/97		5.63	5.00
	03/27/98		6.50	4.13
	06/26/98		7.55	3.08
MW-3	10/06/94	9.87	6.57	3.30
	01/20/95		4.47	5.40
	05/15/95		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
	09/29/97		6.35	3.52
	12/11/97		4.70	5.17
	03/27/98		5.15	4.72
	06/26/98		6.17	3.70
MW-4	10/06/94	10.64	7.96	2.68
	01/20/95		5.95	4.69

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-4	05/15/95		6.28		4.36
(cont.)	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
	09/29/97		7.65		2.99
	12/11/97		5.75		4.89
	03/27/98		6.60		4.04
	06/26/98		7.85		2.79
MW-5	05/15/95	10.61	7.54		3.07
	08/28/95		8.44		2.17
	12/06/95		8.34		2.27
	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	05/15/95	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
	09/29/97		9.95		0.33
	12/11/97		8.50		1.78
	03/27/98		10.10		0.18
	06/26/98		12.10		-1.82
MW-7	05/15/95	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
	09/29/97		5.05		4.81
	12/11/97		3.45		6.41
	03/27/98		3.45		6.41
	06/26/98		4.00		5.86

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-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
	09/29/97		8.75	1.86
	12/11/97		7.20	3.41
	03/27/98		8.85	1.76
	06/26/98		10.70	-0.09

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
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, Motor Oil, and MtBE)

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (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
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	470 h	ND	ND	ND	ND	39,000 e	26,000 d	45
	09/29/97	510 h	2.2	ND	ND	ND	5,000 e	4,000 d	37
	12/11/97	ND	ND	ND	ND	ND	1,900 e	1,300 d	ND
	03/27/98	280 k	5.0	0.60	ND	ND	4,600 e	3,900 d	890
	06/26/98	450 f	2.6	ND	ND	ND	1,700 e	1,300 d	41
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
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	630 h	ND	ND	ND	ND	16,000 e	13,000 d	ND
	09/29/97	300 h	1.3	0.66	ND	ND	32,000 e	20,000 d	ND
	12/11/97	ND	ND	ND	ND	ND	4,800 e	4,000 d	ND
	03/27/98	94 k	1.3	1.30	ND	ND	15,000 e	11,000 d	18
	06/26/98	490 b	ND	ND	ND	ND	11,000 e	5,900 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
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	180 h	ND	ND	ND	0.58	610 g	ND	5.3
	09/29/97	84 i	ND	ND	ND	ND	470 g	ND	ND

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, Motor Oil, and MtBE)

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (µg/L)	Motor Oil (µg/L)	MtBE (µg/L)
MW-3	12/11/97	ND	ND	ND	ND	ND	380 e	ND	ND
(cont.)	03/27/98	ND	ND	ND	ND	ND	220 g	ND	ND
	06/26/98	68 b	ND	ND	ND	ND	210 g	ND	ND
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
	09/29/97	ND	ND	ND	ND	ND	130 g	ND	ND
	12/11/97	ND	ND	ND	ND	ND	57 g	ND	ND
	03/27/98	ND	ND	ND	ND	ND	ND	ND	ND
	06/26/98	ND	ND	ND	ND	ND	ND	ND	ND
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
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	590 h	3.2	ND	ND	ND	9,300 e	7,900 d	15
	09/29/97	490 h	2.6	0.83	ND	1.5	7,900 e	7,900 d	13
	12/11/97	ND	ND	ND	ND	ND	5,600 e	5,100 j	ND
	03/27/98	ND	ND	ND	ND	ND	1,500 e	1,400 d	ND
	06/26/98	290 f	5.3	ND	ND	1.1	9,200 e	6,400 d	11
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

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, TEPH as Diesel, Motor Oil, and MtBE)

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (µg/L)	Motor Oil (µg/L)	MtBE (µg/L)
MW-7	03/08/96	ND	ND	ND	ND	ND	ND	NA	ND
(cont.)	07/02/96	ND	ND	ND	ND	ND	ND	ND	580
	12/17/96	ND	ND	ND	ND	ND	120 g	ND	100
	03/21/97	ND	ND	ND	ND	ND	79 g	ND	190
	06/25/97	ND	ND	ND	ND	ND	58 g	ND	580
	09/29/97	ND	ND	ND	ND	ND	ND	ND	310
	12/11/97	ND	ND	ND	ND	ND	ND	ND	ND
	03/27/98	ND	ND	ND	ND	ND	ND	ND	ND
	06/26/98	ND	ND	ND	ND	ND	ND	ND	110
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
	09/29/97	ND	ND	ND	ND	ND	ND	ND	ND
	12/11/97	270	8.0	1.8	5.7	14	ND	ND	72
	03/27/98	ND	ND	ND	ND	ND	ND	ND	ND
	06/26/98	ND	ND	ND	ND	ND	ND	ND	ND

TPPH = Total purgeable petroleum hydrocarbons
TEPH = Total extractable petroleum hydrocarbons
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter
NS = Not sampled
ND = Not detected (see certified analytical reports for detection limits)
NA = Not analyzed
* = 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 pattern is weathered gasoline.
i. Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C8 range.
j. Chromatogram pattern is not motor oil, but unidentified hydrocarbons in the C16 to C34 range.
k. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C5.

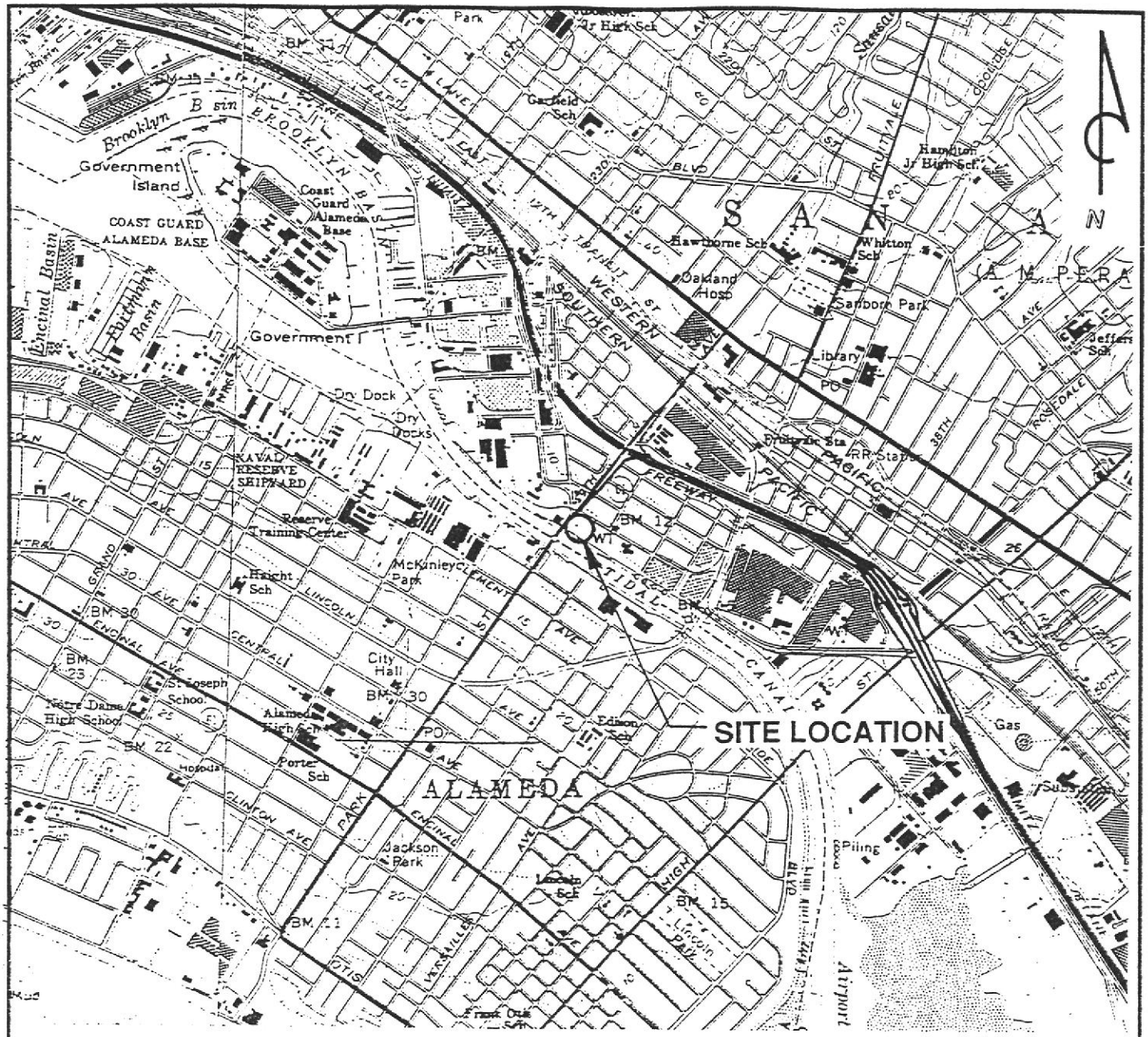
Table 3
Groundwater Analytical Data
PCBs, Metals, and VOCs

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Sampled	PCBs (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	
	03/27/98	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	
	03/27/98	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	
	03/27/98	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	
	03/27/98	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
	03/27/98	NA	ND	ND	ND	ND	0.017	ND	e
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	
	03/27/98	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	
	03/27/98	NA	ND	0.013	ND	ND	0.02	ND	

PCBs = Polychlorinated bi-phenyls
VOCs = Volatile organic compounds
µg/L = Micrograms per liter
NA = Not analyzed
ND = Not detected (see certified analytical reports for detection limits)

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
e. 2.1 µg/L Chloroethene
   1.1 µg/L 1,1-Dichloroethane
   0.85 µg/L cis-1,2-Dichloroethene
   3.2 µg/L *trans*-1,2-Dichloroethene



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

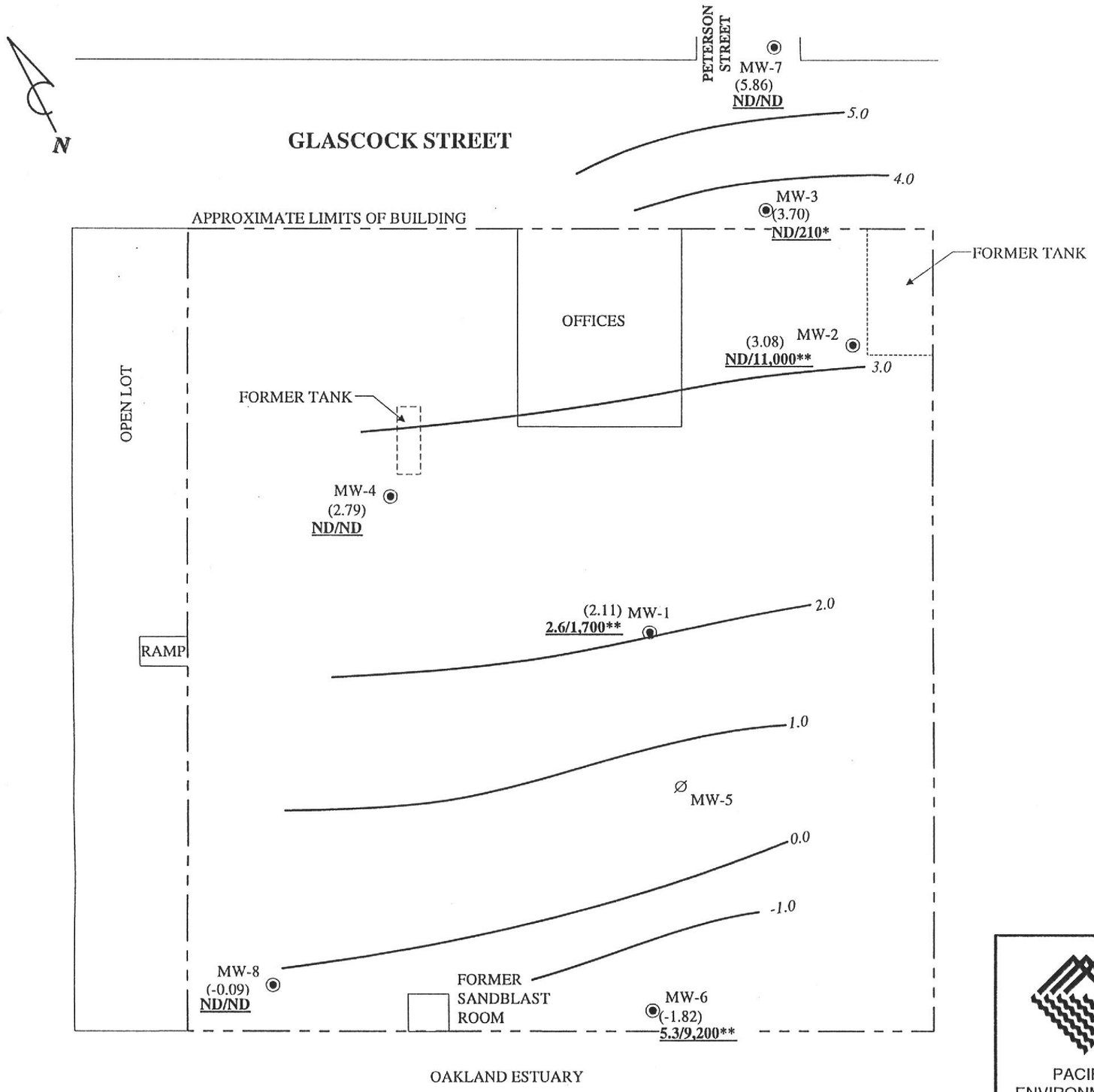
PACIFIC ENVIRONMENTAL GROUP, INC.

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

SITE LOCATION MAP

FIGURE: 1

PROJECT: 360-014.2B



Reference: 360/014/Sitemp40.vsd

LEGEND

MW-1 ◉ GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

MW-5 Ø DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

(-1.82) GROUNDWATER ELEVATION IN FEET - MSL, 6-26-98

-1.0 GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 6-26-98

ND/220 BENZENE/TEPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 6-26-98

ND NOT DETECTED

* NOT DIESEL; UNIDENTIFIED HYDROCARBONS C9-C24

** WEATHERED DIESEL C9-C24

APPROXIMATE GRADIENT = 0.022

APPROXIMATE SCALE

0 40 80 FEET

PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE:

GROUNDWATER MONITORING MAP - SECOND QUARTER 1998

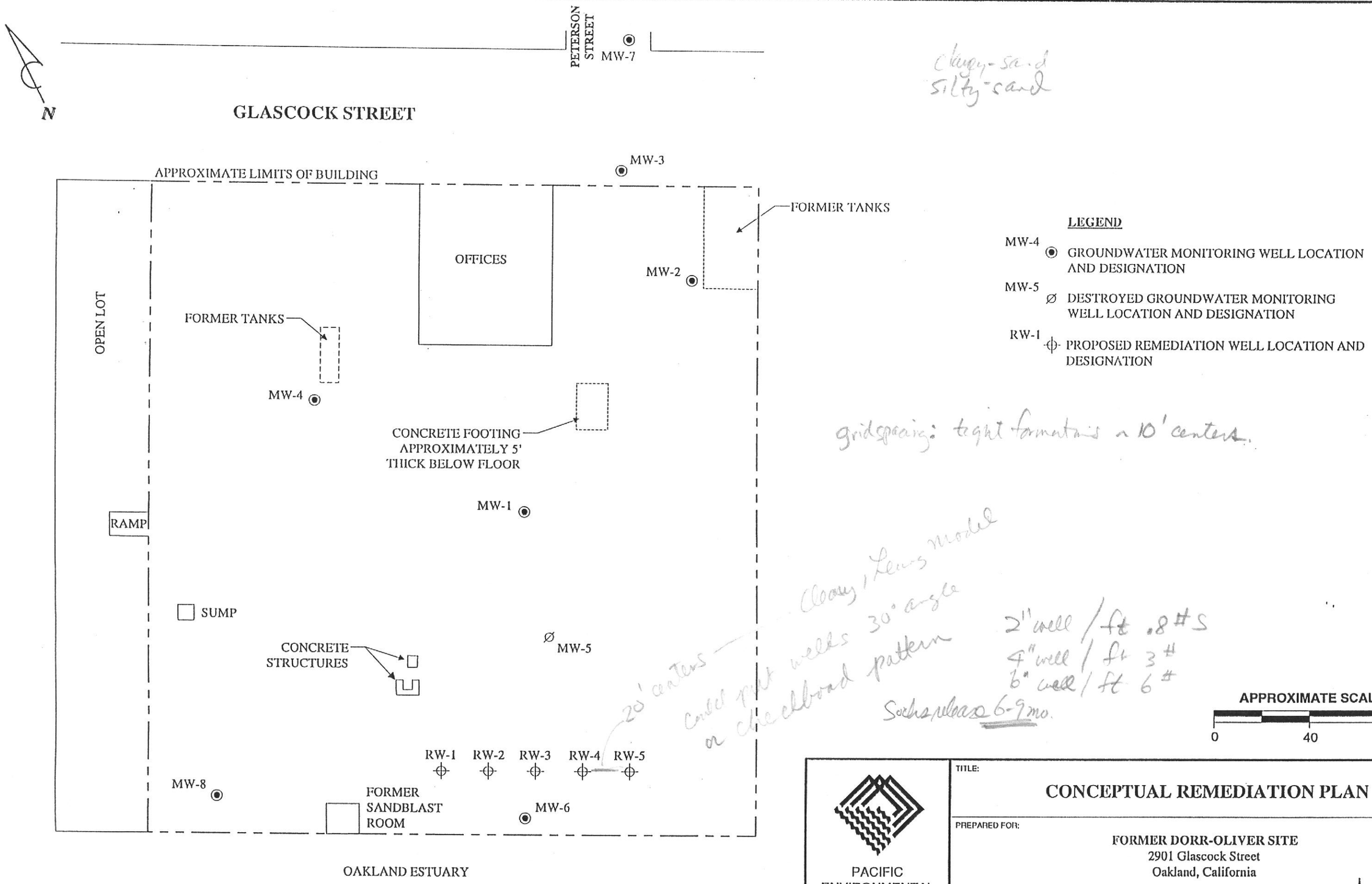
PREPARED FOR:

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

DATE:

PROJECT: 360-014.2B

FIGURE: 2



clayey-sand
silty-sand

gridspacing: eight formations @ 10' centers

20' centers
Could put wells 30° angle or checkboard pattern
Clearly, Lewis model

2" well / ft .8 #s
4" well / ft 3 #
6" well / ft 6 #

Sachs plans 6-9 mo.

PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE:

CONCEPTUAL REMEDIATION PLAN

PREPARED FOR:

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

DATE: 5-1-97 | PROJECT: 360-014.2B | FIGURE: 3

Reference: 360/014/Sitemp40.vsd

ATTACHMENT A

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

JUL 22 1998

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-014.2B/Former Dorr-Oliver Sample Descript: MW1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9806l57-01	Sampled: 06/26/98 Received: 06/29/98 Extracted: 07/06/98 Analyzed: 07/07/98 Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	1700
Chromatogram Pattern: **Weathered Diesel**	C18-C24	C9-C24+

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
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-014.2B/Former Dorr-Oliver Sample Descript: MW1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9806I57-01	Sampled: 06/26/98 Received: 06/29/98 Extracted: 07/06/98 Analyzed: 07/07/98 Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	500	1300
Chromatogram Pattern:		
Unidentified HC		C16-C36

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
Project Manager

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

Attention: Andrew Lehane

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW1
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806157-01

Sampled: 06/26/98
Received: 06/29/98

Analyzed: 07/08/98
Reported: 07/17/98

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	450
Methyl t-Butyl Ether	2.5	41
Benzene	0.50	2.6
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		>C10

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

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-014.2B/Former Dorr-Oliver Sample Descript: MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9806157-02	Sampled: 06/26/98 Received: 06/29/98 Extracted: 07/06/98 Analyzed: 07/08/97 Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	500	11000
Chromatogram Pattern: **Weathered Diesel**	C18-C24	C9-C24+

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	120

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Andrew Lehane

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW2
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806I57-02

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/08/97
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	5000	**5900**
Chromatogram Pattern:		
Unidentified HC		**C16-C36**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	120

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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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Andrew Lehane

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806I57-02

Sampled: 06/26/98
Received: 06/29/98

Analyzed: 07/10/98
Reported: 07/17/98

QC Batch Number: GC071098BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	200	490
Methyl t-Butyl Ether	10	N.D.
Benzene	2.0	N.D.
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern:		
Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-014.2B/Former Dorr-Oliver Sample Descript: MW3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9806157-03	Sampled: 06/26/98 Received: 06/29/98 Extracted: 07/06/98 Analyzed: 07/07/98 Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	210
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	81

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-014.2B/Former Dorr-Oliver Sample Descript: MW3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9806157-03	Sampled: 06/26/98 Received: 06/29/98 Extracted: 07/06/98 Analyzed: 07/07/98 Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

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	81

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite B, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Andrew Lehane

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW3
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806157-03

Sampled: 06/26/98
Received: 06/29/98

Analyzed: 07/08/98
Reported: 07/17/98

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	68
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:		
Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Andrew Lehane

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806157-04

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	55	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	86

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Andrew Lehane

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW4
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806157-04

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern:	550	N.D.

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	86

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-014.2B/Former Dorr-Oliver Sample Descript: MW4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9806I57-04	Sampled: 06/26/98 Received: 06/29/98 Analyzed: 07/07/98 Reported: 07/17/98

QC Batch Number: GC070798BTEX03A
Instrument ID: GCHP03

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	107

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: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW6
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806157-05

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	500	9200
Chromatogram Pattern: **Weathered Diesel**	C18-C24	C9-C24+

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	152 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

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

Attention: Andrew Lehane

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW6
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806157-05

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP5B

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil	5000	6400
Chromatogram Pattern:		
Unidentified HC		C16-C36

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	152 Q

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: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW6
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806157-05

Sampled: 06/26/98
Received: 06/29/98

Analyzed: 07/08/98
Reported: 07/17/98

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	290
Methyl t-Butyl Ether	2.5	11
Benzene	0.50	5.3
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	1.1
Chromatogram Pattern: Gas & Unidentified HC		>C10

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	90

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	Client Proj. ID: 360-014.2B/Former Dorr-Oliver	Sampled: 06/26/98
2025 Gateway Place, Suite 440	Sample Descript: MW7	Received: 06/29/98
San Jose, CA 95110	Matrix: LIQUID	Extracted: 07/06/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/07/98
Attention: Andrew Lehane	Lab Number: 9806157-06	Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

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	86

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: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW7
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806157-06

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

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	86

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: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW7
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806I57-06

Sampled: 06/26/98
Received: 06/29/98

Analyzed: 07/08/98
Reported: 07/17/98

QC Batch Number: GC070898BTEX02A
Instrument ID: GCHP02

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**	**110**
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

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: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW8
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806157-07

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

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

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	84

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: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW8
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9806157-07

Sampled: 06/26/98
Received: 06/29/98
Extracted: 07/06/98
Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC0706980HBPEXB
Instrument ID: GCHP4B

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

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	84

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: 360-014.2B/Former Dorr-Oliver
Sample Descript: MW8
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806157-07

Sampled: 06/26/98
Received: 06/29/98

Analyzed: 07/07/98
Reported: 07/17/98

QC Batch Number: GC070798BTEX03A
Instrument ID: GCHP03

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	90

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, Ste. 440
San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2B/Former Dorr-Oliver

QC Sample Group: 9806157

Reported: Jul 21, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: B. Burton

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #: GC071098BTEX21A				
Sample No.: GW9806147-2				
Date Prepared:	7/10/98	7/10/98	7/10/98	7/10/98
Date Analyzed:	7/10/98	7/10/98	7/10/98	7/10/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	10	9.8	9.8	30
% Recovery:	104	98	98	99
Matrix Spike Duplicate, ug/L:	10	9.6	9.6	29
% Recovery:	102	96	96	96
Relative % Difference:	1.9	2.1	2.1	3.1
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GWBLK071098AS

Date Prepared:	7/10/98	7/10/98	7/10/98	7/10/98
Date Analyzed:	7/10/98	7/10/98	7/10/98	7/10/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	9.8	9.4	9.7	28
LCS % Recovery:	98	94	97	95

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

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

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.

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 6, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
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Pacific Environmental Group
2025 Gateway Place, Ste. 440
San Jose, CA 95110
Attention: Andrew Lehane

Client Project ID: 360-014.2B/Former Dorr-Oliver

QC Sample Group: 9806157

Reported: Jul 21, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	N. Herrera
ANALYTE	Gasoline

QC Batch #: GC070798BTEX03A

Sample No.:	GW9806G23-6
Date Prepared:	7/7/98
Date Analyzed:	7/7/98
Instrument I.D.#:	GCHP03
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	200
% Recovery:	82
Matrix Spike Duplicate, ug/L:	260
% Recovery:	103
Relative % Difference:	23
RPD Control Limits:	0-25

LCS Batch#: GWBLK070798ABS

Date Prepared:	7/7/98
Date Analyzed:	7/7/98
Instrument I.D.#:	GCHP03
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	230
LCS % Recovery:	93

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

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

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.

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

Client Project ID: 360-014.2B/Former Dorr-Oliver

QC Sample Group: 9806157

Reported: Jul 21, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. PORTER
ANALYTE	Diesel

QC Batch #: GC0706980HBPEXB SG

Sample No.:	9806157-7 SG
Date Prepared:	7/6/98
Date Analyzed:	7/7/98
Instrument I.D.#:	GCHP4B
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	600
% Recovery:	60
Matrix Spike Duplicate, ug/L:	680
% Recovery:	68
Relative % Difference:	12
RPD Control Limits:	0-50

LCS Batch#: BLK070698BS

Date Prepared:	7/6/98
Date Analyzed:	7/7/98
Instrument I.D.#:	GCHP4B
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	590
LCS % Recovery:	59

Percent Recovery Control Limits:

MS/MSD	40-140
LCS	40-140

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

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.

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

Client Proj. ID: 360-014.2B/Former Dorr-Oliver
Lab Proj. ID: 9806157

Received: 06/29/98
Reported: 07/17/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 20 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

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. 360 01/02B

Facility No. Former Doerr Liver Site | Facility Address: 2901 Glascock St Oakland CA | Billing Refence Number: 268

CLIENT engineer: Denis Burns | PACIFIC Point of Contact: Andrew Leftwich | Sampler: Pedro Ruiz | Laboratory Name: Sequoia

W=water, S=soil, A=air | G=grab, D=disc, C=comp.

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPH gas (8015/ 8020)	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
98506-F57								MTBE							
MW1	5	40ml	HCl	W	G	6/26/98	10:30	X							X
MW2							11:10								
MW3							9:35								
MW4							9:55								
MW6							10:50								
MW7							9:15								
MW8							10:10								

Fuel Fingerprint As Diesel & Motor Oil w/ Silica Gel Clean Up

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
	6/26/98	15:00	Kenny Ellsworth	6/26/98	1520
Kenny Ellsworth	6/29/98			6/29/98	9:35
	6/29/98				
			Received by laboratory	7/29/98	1217

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 92622 — [ ]
- 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 [ ]

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG 360 014213
REC. BY (PRINT) Aura

WORKORDER: 98-06-E57
DATE OF LOG-IN: 6-29-98

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: 6/29/98
12. Time Rec. at Lab: 1217
13. Temp Rec. at Lab: 5°C

LAB SAMPLE #	DASH #	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
01	A-E	MW1	2xL glass amber	L	6/26/98	
↓	✱	↓	3xVOA HCL	↓	↓	
02	A-E	MW2	SAME			
03		MW3	↓			
04		MW4				
05		MW6				
06		MW7				
07	↓	MW8				

6/29/98

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

Revision 6/18/97
RCPTLOG.XLS

565

FIELD SERVICES REQUEST

SITE INFORMATION FORM

Identification

Project # 350-014.2B
Station ID Former Dorr-Olive Site
Site Address: 2901 Glascock St.
Oakland
Lab: Sequoia
County: Alameda
Project Manager: Andrew D. Lehane
Requester: J. Nelligan / E. Noolandi
Client: Glascock Street Properties
Client P.O.C: Dennis Buran
Date of Request: June 1, 1998

Project Type

☐ Operation & Maintenance
☐ Sampling
☐ 1st time visit
☒ Quarterly
☐ 1st ☒ 2nd ☐ 3rd ☐ 4th
☐ Monthly
☐ Semi- Monthly
☐ Weekly
☐ One time event
☐ Other:

Ideal field date: **June event**

Site Check Appropriate Categor

☒ In Budget Visit
☐ Out of Budget Site Visit

Budget Hours:
Actual Hours:
Mob de Mob:

Site Safety Concerns

STANDARD

Field Tasks General Description

Quarterly M&S, Months 3,6,9,12

1. Contact Gary or Bill @ ICONCO, 303 Derby Ave. @ Glascock, (510) 261-1900 to arrange for site access.
2. Take groundwater DTW (TOC) measurements for Wells MW-1 through MW-4, MW-6 through MW-8.
3. Collect groundwater samples from Wells MW-1 through MW-4, MW-6 through MW-8. Take dissolved oxygen (DO) readings from MW-1, 2, and 6. Request analysis for the following on normal TAT:

   Quarterly, all wells — TPPH-g, TEPH-d*, TEPH-mo*, BTEX, MtBE
   Annually, MW-6 and MW-8 — cadmium, chromium, lead, nickel, zinc, and chlorinated hydrocarbons (8010)

   * Request on COC "Fuel Fingerprint as diesel and motor oil with silica gel clean-up"
4. Ideal sampling order: MW-4, MW-7, MW-8, MW-3, MW-6, MW-1, MW-2
5. Purge water to be disposed of at Seaport, Redwood City.
6. ~~Replace O-rings.~~ NO

Comments, remarks from field staff

Task Completed. Pull ORC's out of wells May 20 to store ORC's on 2 55gal Buckets on site label them. Non purge Brought To Seaport.

Completed By: [signature] Date: 6/2/98

Pacific Environmental Group, Inc.

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 360044.28 LOCATION: 2601 Glaycock St DATE: 6-2098

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

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	8:39	✓	✓	✓	✓	✓	19.80	8.65 / 8.65	8.83 / 8.83										
	MW2	8:45	✓	✓	✓	✓	✓	19.75	7.55 / 7.55	7.87 / 7.87										
	MW3	8:20	✓	✓	✓	✓	✓	19.80	6.17 / 6.17	6.54 / 6.54										
	MW4	8:24	✓	✓	✓	✓	✓	19.70	7.85 / 7.85	8.04 / 8.04										
	MW5							DESTROYED.												
	MW6	8:34	✓	✓	✓	✓	✓	19.50	10.10 / 10.10	10.73 / 10.73										
	MW7	8:16	✓	✓	✓	✓	✓	17.75	4.00 / 4.00	4.41 / 4.41										
	MW8	8:29	✓	✓	✓	✓	✓	17.90	10.70 / 10.70	11.05 / 11.05										

Comments: ____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001428 LOCATION: 2901 Glascock St WELL ID #: MW-1

CLIENT/STATION No.: Former Depco/Exide 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 8.65 = 11.15 x Gal/Linear Foot .17 = 1.89 x Number of Casings 3 = Calculated Purge 5.68

DATE PURGED: 6-26-98 START: 10:40 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6-26-98 START: 10:50 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:42	1.75	7.14	1340	62.8	BRN	HEAVY	Mod
10:46	3.6	7.11	1350	63.1	BRN	HEAVY	Mod
10:48	5.06	7.13	1340	62.9	Grey	Mod	Mod

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: 1513
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-1	6-26-98	10:50	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: 10:56 BTY. Pull ORC's out of well 10:58 Aft.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.28 LOCATION: 2901 Blascock St WELL ID #: MW-2

CLIENT/STATION No.: FORMER DOMINION 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 7.55 = 12.2 x Gal/Linear Foot .17 = 2.07 x Number of Casings 3 = Calculated Purge 6.20

DATE PURGED: 6/26/98 START: 11:00 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6/26/98 START: 11:10 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
11:03	2	7.03	2000	63.9	Brn	Mod	Mod
11:08	4	7.01	2000	64.1	Brn	Mod	Mod
11:09	6	6.99	2010	63.4	Brn	Mod	Mod

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: 15-10
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW2	6/26/98	11:10	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			3	1L	Amb	NP	TPHD, TPHmo

REMARKS: DO.2.0 pull ORC's out of the well

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001428 LOCATION: 2901 Glascock St WELL ID #: MW-3

CLIENT/STATION No.: Former Dupree 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 6.17 = 13.63 x Gal/Linear Foot .17 = 2.31 x Number of Casings 3 = Calculated Purge 6.95

DATE PURGED: 6/26/98 START: 9:22 END (2400 hr): _____ PURGED BY: DE

DATE SAMPLED 6/26/98 START: 9:35 END (2400 hr): _____ SAMPLED BY: DE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:25	2.25	7.17	1260	63.2	Cloudy	Light	Faint
9:29	4.5	7.11	1260	63.4	Cloudy	Light	Faint
9:32	6.75	7.09	1250	62.9	Cloudy	Light	Faint

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: _____
- ☐ Airlift Pump: _____
- ☒ Centrifugal Pump: 15
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: 15-14
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW3	6/26/98	9:35	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: DO. 1.8

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.28 LOCATION: 2901 Blacock St WELL ID #: MW-4

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 19.70 DTW 7.85 = 11.85 x Gal/Linear Foot .17 = 2.01 x Number of Casings 3 = Calculated Purge 6.04

DATE PURGED: 6/26/98 START: 9:44 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6/26/98 START: 9:55 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:47	2	7.07	803	62.9	Cloudy	Mod	None
9:50	4	7.08	808	63.3	Cloudy	Mod	None
9:53	6	7.06	791	63.0	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: 15-12
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-4	6/26/98	9:55	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NP	TPHD, TPHmo

REMARKS: 20.10

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.28 LOCATION: 2901 Glascock St WELL ID #: MW-6

CLIENT/STATION No.: FORMER Dorado 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 12.10 = 7.4 x Gal/Linear Foot .17 = 1.25 x Number of Casings 3 = Calculated Purge 3.77

DATE PURGED: 6/26/98 START: 10:18 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6/26/98 START: 10:30 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:21	1.25	7.33	1690	61.9	Brn	Heavy	Mod
10:24	2.5	7.30	1580	62.4	Brn	Heavy	Mod
10:27	3.75	7.27	1500	61.7	Brn	Heavy	Mod

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: 15-4
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW6	6/26/98	10:30	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NP	TPHD, TPHmo

REMARKS: 200.4 Pull QC's out of well

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001428 LOCATION: 2901 Glascock St WELL ID #: MW-7

CLIENT/STATION No.: Former Doppelmayr 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 4.00 = 13.75 x Gal/Linear Foot .17 = 2.33 x Number of Casings 3 = Calculated Purge 7.01

DATE PURGED: 6/26/98 START: 9:05 END (2400 hr): _____ PURGED BY: JE

DATE SAMPLED: 6/26/98 START: 9:15 END (2400 hr): _____ SAMPLED BY: JE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 2 5°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
9:08	2.25	7.61	1310	60.8	Cloudy	Mod	None
9:11	4.5	7.53	1300	60.9	Cloudy	Mod	None
9:14	6.75	7.47	1300	63.1	Cloudy	Light	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
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-7	6/26/98	9:15	3	40ml	VOA	HCl	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: DO: 2.2

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.28 LOCATION: 2901 Blaycock St WELL ID #: MW-8

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 17.70 DTW 10.70 = 7 x Gal/Linear Foot .17 = 1.19 x Number of Casings 3 = Calculated Purge 3.57

DATE PURGED: 6/26/98 START: 10:00 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6/26/98 START: 10:10 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:03	1	6.49	2660	630	Cloudy	Mod	None
10:06	2	6.52	2650	633	Cloudy	Mod	None
10:09	3	6.30	2670	626	Cloudy	Mod	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. #
- ☐ Bailer: _____
- ☒ Centrifugal Pump: 15
- ☐ Other: _____
- ☐ Airlift Pump: _____
- ☐ Dedicated: _____

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW8	6/26/98	10:10	3	40ml	VOA	HCl	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: DO: 4.4

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. 360 01/02B
Facility No: Former Doerr Oliver Site
Facility Address: 2901 Glascock St Oakland CA
CLIENT engineer: Denis Duran
PACIFIC Point of Contact: Duncan Jefferson
Sampler: Edro Ruiz
Billing Refence Number: 258
Laboratory Name: Severn
Comments:

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)	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
MW1	5	40ml	HCl	W	G	6/26/98	10:50	X							X
MW2							11:10								
MW3							9:35								
MW4							9:55								
MW6							10:30								
MW7							9:15								
MW8							10:10								

Fuel Fingerprint As Diesel & Motor Oil w/ 5 ppm CA GRL Clean up

Condition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
	6/26/98	15:00			
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 ☒
- 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) ☐
- Standard (10 days) ☒

TRANSPORT FORM #: _____

NON-HAZARDOUS WATER TRANSPORT FORM

GENERATOR INFORMATION

NAME: B. P. Oil Att: Scott Hooton

ADDRESS: 295 Southwest 41st Street

CITY,STATE,ZIP: Renton, WA. 98055 PHONE #: 206-251-0689

DESCRIPTION OF WATER: WATER GENERATED FROM GROUNDWATER MONITORING ACTIVITIES.

I CERTIFY THAT THIS MATERIAL IS A LIQUID, EXEMPT FROM RCRA PER 40 CFR 261.4 (B)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW, HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

Pacific Environmental — 6-26-98

GENERATOR/AUTHORIZED AGENT SIGNATURE & DATE

SITE INFORMATION

	BP Station # / Street Address, City	Gals
1	Former Dorr-Oliver site 2901 Glascock St Oakland	40
2		
3		
4		
5		
6		

TOTAL GALLONS: 40

TRANSPORTER INFORMATION

NAME: Pacific Environmental Group

ADDRESS: 2025 Gateway Place, Suite #440

CITY,STATE,ZIP: San Jose, CA 95110 PHONE #: 408-441-7500

TRUCK ID #: #15

(Typed or printed full name & signature) 6/26/98 (Date)

RECEIVING FACILITY

NAME: Seaport Environmental

ADDRESS: 675 Seaport Blvd.

CITY,STATE,ZIP: Redwood City, CA 94063 PHONE #: (415) 364-8154

APPROVAL #: 508-147

(Typed or printed full name & signature) 6-26-98 (Date)