the i group

ENVIRONMENTAL PROTECTION
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A Member of The IT Group

Date: February 10, 1999
Project: 360-014.2B

1138

To: Mr. Barney Chan
Alameda County Enviromental
Health Services
1131 Harbor Bay Pkwy, Suite 250
Alameda, CA 94502

We have enclosed:

Copies	Description
1	Quarterly Report – Fourth Quarter 1999, Former Dorr-Oliver Site 2901 Glascock Street, Oakland, California

For your:
- X Use
- ___ Approval
- ___ Review
- X Information

Comments: We would like to meet with you in early March to discuss this site. If you have any questions, please call me at (408) 453-7300 x 682. Thank you.

Diane Sarmiento
Senior Engineer

IT Corporation
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A Member of The IT Group

February 10, 2000
Project 360-014.2B

Mr. Dennis Buran
Glascock Street Properties
383 Diablo Road, Suite 100
Danville, California 94526

Re: **Quarterly Report - Fourth Quarter 1999**
Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Dear Mr. Buran:

This letter has been prepared for Glascock Street Properties by IT Corporation (IT), formerly Pacific Environmental Group, Inc. The following presents results of the fourth quarter 1999 groundwater monitoring program for the site at 2901 Glascock Street in Oakland, California.

QUARTERLY GROUNDWATER MONITORING PROGRAM

All seven existing groundwater monitoring wells (MW–1 through MW-4, and MW-6 through MW-8; Figure 1) were gauged and sampled by IT on December 28, 1999. The depth to groundwater and groundwater analytical data are presented in Tables 1 and 2. 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 (TEPH-mo), and methyl tert-butyl ether (MtBE). Figure 1 presents the results of the interpreted water elevation contours and the chemical analysis results for groundwater.

Groundwater Levels

With the exceptions of MW-1 and MW-2 (0.27 and 0.59 foot decrease), all monitoring wells exhibited an increase (0.07 to 0.58 feet) in groundwater elevation (Table 1) compared with the prior quarter. Groundwater elevations are on the lower side of the average elevations since monitoring commenced in October of 1994. The groundwater flow direction continues to be to

the south/southwest (toward the Oakland Estuary) at a gradient of approximately 0.017 feet/foot.

Groundwater Quality

Table 2 presents the groundwater analytical data. Figure 1 illustrates the results of the chemical analysis. Certified analytical results, chain-of-custody documentation, and field data sheets are contained in Attachment A.

No separate phase hydrocarbons (SPH) were observed in any site monitoring wells this quarter. Detectable concentrations of TPPH-g were reported for samples collected from four of seven wells this quarter, ranging from 331 to 3650 micrograms per liter (µg/L) (see Table 2). Benzene was detected in two wells, MW-1 and MW-6 with concentrations of 3.2 and 4.4 ug/l respectively. Toluene and ethyl benzenes were not detected in groundwater samples. Xylenes were reported at concentration of 1.6 ug/l in the sample from MW-3, and 11.2 ug/l in the sample from MW-1. Detectable concentrations of MtBE were reported in groundwater samples from Wells MW-1, MW-3, MW-6, and MW-7 at concentrations ranging from 6.92 ug/l to 67.6 ug/l. The highest concentration of Mtbe was in the sample from well MW-7 that is located offsite and upgradient of the subject property. Based on the concentrations observed in Well MW-7, it appears that an upgradient source of MtBE continues to impact monitoring wells at this site.) I agree

Total extractable petroleum hydrocarbons in the diesel range (TEPH-d) were reported in groundwater samples from four wells (MW-1, -2, -3,-6) at concentrations between 314 ug/l to 963 ug/l. Concentrations of TEPH-motor oil were reported in Wells MW-2 and MW-6, at concentrations of 627 and 694 µg/L, respectively.

ADDITIONAL ACTIVITIES

In July, 1999 oxygen releasing compounds were place in five geoprobe holes installed at the site. On September 13, 1999, "socks" containing oxygen releasing compounds (ORC) were installed in wells, MW-1, MW-2 and MW-6. The ORC releases oxygen into the water in the well in order to promote growth of naturally occurring biological organisms that degrade petroleum hydrocarbons. Measurements of dissolved oxygen are summarized in Table 3 indicate increasing dissolved oxygen in well MW-1 with a lesser increase in MW-6. Since the ORC program was initiated there have been two rounds of sampling. It does appear that diesel and motor oil range hydrocarbon concentrations have declined significantly. .

CONCLUSIONS

The chemical analysis results for this quarter indicate an increase in TPPH concentrations for MW-1, MW-2 and MW-6. Concentrations of other constituents (BTEX and TPHd and TPHmo) were consistent with results from the prior quarter. We reviewed chromatographs, field data and talked with the laboratory. The patterns of the gasoline range chromatographs for MW-2 and MW-6 appear inconsistent with pattern of the September 1999 chromatographs for these same wells. The anomalous results cannot be readily explained but are not correlated with a rise in groundwater and appear to correlate with a higher electrical conductivity (i.e. more sediment in the sample) compared with the September 1999 samples. The results of the next sampling event in March 2000 will be instructive in assessing the anomalous nature of the December 1999 results for wells MW-2 and MW-6 in particular.

Why not filter sample prior collection.

Concentrations of heavy end petroleum hydrocarbons in monitoring wells at the site have declined compared with prior sampling events beginning in October of 1994. Fluctuations in concentrations occur with variations in the depth to groundwater and with tidal fluctuations in the adjacent estuary. Concentrations of MtBE are reported for groundwater from an offsite, upgradient monitoring well (MW-7) and in wells downgradient and onsite. These results continue to be indicative of an upgradient, offsite source of MtBE.

Sincerely,

IT Corporation

REGISTERED PROFESSIONAL ENGINEER
DIANE LESKO SARMIENTO
No. 047804
Exp. 12-31-03
CIVIL
STATE OF CALIFORNIA

Diane L. Sarmiento
Senior Engineer

Attachments:

Table 1 -	Groundwater Elevation Data
Table 2 -	Groundwater Analytical Data
Table 3	Dissolved Oxygen, pH, and EC Field Measurements
Figure 1	Groundwater Elevation Contours
Attachment A	Certified Analytical Reports, Chain-of-Custody Documentation, and Field Data Sheets

cc: Mr. Barney Chan, ACHCSA

Table 1
Groundwater Elevation Data - Fourth Quarter 1999

Former Dorr-Oliver Site
2901 Glascock Street
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
	09/11/98		8.35	2.41
	12/24/98		8.50	2.26
	03/31/99		7.75	3.01
	06/17/99		8.70	2.06
	09/13/99		8.83	1.93
	12/28/99		9.10	1.66
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
	09/11/98		7.15	3.48
	12/24/98		6.77	3.86
	03/31/99		5.80	4.83
	06/17/99		7.10	3.53
	09/13/99		7.66	2.97
	12/28/99		8.25	2.38
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

Table 1
Groundwater Elevation Data - Fourth Quarter 1999

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
	12/11/97		4.70	5.17
	03/27/98		5.15	4.72
	06/26/98		6.17	3.70
	09/11/98		6.40	3.47
	12/24/98		6.27	3.60
	03/31/99		5.35	4.52
	06/17/99		6.60	3.27
	09/13/99		6.85	3.02
	12/28/99		6.72	3.15
MW-4	10/06/94	10.64	7.96	2.68
	01/20/95		5.95	4.69
	05/15/95		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
	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
	09/11/98		7.85	2.79
	12/24/98		7.93	2.71
	03/31/99		7.15	3.49
	06/17/99		8.25	2.39
	09/13/99		8.40	2.24
	12/28/99		8.24	2.40
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
			- well abandoned -	
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
	09/11/98		9.90	0.38
	12/24/98		10.15	0.13

Table 1
Groundwater Elevation Data - Fourth Quarter 1999

Former Dorr-Oliver Site
2901 Glascock Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
	03/31/99		10.18	0.10
	06/17/99		11.05	-0.77
	09/13/99		10.63	-0.35
	12/28/99		10.55	-0.27
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
	09/11/98		4.95	4.91
	12/24/98		4.30	5.56
	03/31/99		3.50	6.36
	03/31/99		4.85	5.01
	09/13/99		5.30	4.56
	12/28/99		5.07	4.79
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
	09/11/98		9.40	1.21
	12/24/98		9.85	0.76
	03/31/99		9.58	1.03
	03/31/99		10.55	0.06
	09/13/99		10.38	0.23
	12/28/99		9.80	0.81

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 - Fourth Quarter 1999
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 (1) (µg/L)	TEPH as 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
	09/11/98	230 l	2.8	ND	ND	1.8	3,000 m	ND	8.7
	09/11/98	NA	NA	NA	NA	NA	620 g	520 d	NA
	12/24/98	380 b	5.0	ND	ND	ND	2,100 g	1,600 d	ND
	03/31/99	190 b	3.0	ND	ND	1.4	10,000 e	6,600 d	55
	06/17/99	133	3.27	ND	ND	ND	1,920 g	2,770 d	11.9
	09/13/99	523	2.70	ND	ND	ND	493	ND	ND
	12/28/99	574	3.2	ND	ND	1.2	429	ND	55.9
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
	09/11/98	550 l	ND	ND	ND	ND	11,000 n	ND	ND
	09/11/98	NA	NA	NA	NA	NA	6,100 g	ND	NA
	12/24/98	990 b	ND	6.8	9.1	17	2,000 g	1,200 d	ND
	3/3/1/99	580 p	1.3	2.2	ND	0.99	21,000 g	14,000 d	ND
	06/17/99	525	ND	ND	ND	ND	ND	ND	ND
	09/13/99	392	1.28	3.98	ND	1.22	1,380	617	ND
	12/28/99	2,950	ND	ND	ND	ND	963	627	ND

Table 2
Groundwater Analytical Data - Fourth Quarter 1999
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 (1) (µg/L)	TEPH as Motor Oil (µg/L)	MtBE (µg/L)
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
	12/11/97	ND	ND	ND	ND	ND	380 e	ND	ND
	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
	09/11/98	110 l	ND	ND	ND	ND	320 o	ND	ND
	09/11/98	NA	NA	NA	NA	NA	210 g	ND	NA
	12/24/98	ND	ND	ND	ND	ND	220 g	ND	ND
	03/31/99	73 q	ND	ND	ND	ND	680 r	580 r	ND
	06/17/99	72	ND	ND	ND	0.696	325 g	516 d	ND
	09/13/99	80	ND	ND	ND	ND	203	ND	12.7
	12/28/99	331	ND	ND	ND	1.16	314	ND	6.92
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
	09/11/98	ND	ND	ND	ND	ND	ND	ND	ND
	09/11/98	NA	NA	NA	NA	NA	230 g	ND	NA
	12/24/98	ND	ND	ND	ND	ND	65 g	ND	ND
	03/31/99	ND	ND	ND	ND	ND	140 r	ND	ND
	06/17/99	ND	ND	ND	ND	ND	ND	ND	ND
	09/13/99	ND	ND	ND	ND	ND	ND	ND	ND
	12/28/99	ND	ND	ND	ND	ND	ND	ND	4.14

Table 2
Groundwater Analytical Data - Fourth Quarter 1999
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 (1) (µg/L)	TEPH as 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
		-- Well Destroyed in September 1996 --							
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
	09/11/98	660 l	500	ND	ND	ND	4,200 m	ND	6.5
	09/11/98	NA	NA	NA	NA	NA	1,600 g	1,300 d	NA
	12/24/98	ND	ND	ND	ND	ND	1,000 g	690 d	ND
	03/31/99	330 b	4.2	0.83	ND	1.5	22,000 e	16,000 d	ND
	06/17/99	504	4.56	0.863	0.573	1.2	1,460 s	7,090 d	9.85
	09/13/99	192	4.74	1.24	ND	3.64	826	694	6.2
	12/28/99	3690	4.4	ND	ND	ND	527	ND	16.2
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	ND
	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
	09/11/98	ND	ND	ND	ND	ND	ND	ND	110
	09/11/98	NA	NA	NA	NA	NA	140 g	ND	NA
	12/24/98	ND	ND	ND	ND	ND	ND	ND	150
	03/31/99	ND	ND	ND	ND	ND	78 r	ND	11
	06/17/99	ND	ND	ND	ND	ND	53.7 g	ND	59.1
	09/13/99	ND	ND	ND	ND	ND	ND	ND	55.3
	12/28/99	ND	ND	ND	ND	ND	ND	ND	67.6

Table 2
Groundwater Analytical Data - Fourth Quarter 1999
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 (1) (µg/L)	TEPH as Motor Oil (µg/L)	MtBE (µg/L)
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
	09/11/98	ND	ND	ND	ND	ND	ND	ND	ND
	09/11/98	NA	NA	NA	NA	NA	130 g	ND	NA
	12/24/98	ND	ND	ND	ND	ND	ND	ND	ND
	03/31/99	ND	ND	ND	ND	ND	ND	ND	ND
	06/17/99	ND	ND	ND	ND	ND	10,400 g	12,700 d	ND
	09/13/99	ND	ND	ND	ND	ND	ND	ND	ND
	12/28/99	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

(1) TEPH as diesel analysed with silica gel cleanup
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.
l. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C12.
m. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C18 - C40 range.
n. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C9 - C40 range.
o. Chromatogram pattern is not diesel, but unidentified hydrocarbons in the C9 - C40 range.
p. Chromatogram pattern is a mixture of gasoline and unidentified hydrocarbons > C10.
q. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C8.
r. Chromatogram pattern is unidentified hydrocarbons in the C9 - C40 range.
s. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C15 - C24 range.

Table 3
Dissolved Oxygen Field Measurements
2901 Glascock Street
Oakland, California

	Dissolved Oxygen (mg/l)		
Date	MW-1	MW-2	MW-6
12/24/98	6.8	3.0	1.0
3/31/99	5.2	2.0	1.4
6/17/99	1.8	2.2	1.6
9/13/99	4.6	2.0	2.2
12/28/99	8.3	NM	NM

Notes:
1. Measurements taken in the field using a Hach Accuvac Dissolved Oxygen high range (0-15 mg/l) Cat.No. 25150-50
2. NM = Not measured due to sample turbidity.

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
360-014.2B			L. Wahlgren 2-4-00

PETERSON STREET

GLASCOCK STREET

APPROXIMATE LIMITS OF BUILDING

OFFICES

OPEN LOT

FORMER TANK

FORMER TANK

RAMP

FORMER SANDBLAST ROOM

OAKLAND ESTUARY

MW-7 (4.79)	
TEPH-d	ND
TEPH-mo	ND
TPH-g	ND
B	ND
T	ND
E	ND
X	ND
MtBE	67.6

MW-3 (3.15)	
TEPH-d	314
TEPH-mo	ND
TPH-g	331
B	ND
T	ND
E	ND
X	1.16
MtBE	6.92

MW-2 (2.38)	
TEPH-d	963
TEPH-mo	627
TPH-g	2,950
B	ND
T	ND
E	ND
X	ND
MtBE	ND

MW-4 (2.40)	
TEPH-d	ND
TEPH-mo	ND
TPH-g	ND
B	ND
T	ND
E	ND
X	ND
MtBE	4.14

MW-1 (1.66)	
TEPH-d	429
TEPH-mo	ND
TPH-g	574
B	3.2
T	ND
B	ND
X	11.2
MtBE	55.9

MW-8 (0.81)	
TEPH-d	ND
TEPH-mo	ND
TPH-g	ND
B	ND
T	ND
E	ND
X	ND
MtBE	ND

MW-6 (-0.27)	
TEPH-d	826
TEPH-mo	694
TPH-g	3,690 ← anomalous
B	4.4
T	ND
E	ND
X	ND
MtBE	16.2

MW-5

4.0

3.0

2.0

1.0

0.0

LEGEND

- ◉ Groundwater monitoring well
- ∅ Destroyed groundwater monitoring well
- (3.02) Groundwater elevation (Ft.–MSL); measured 12–28–99.
- ? — — Groundwater elevation contour (Ft.–MSL)
- ND Not detected shown on laboratory report

NOTES

1) All concentrations in micrograms per liter or parts per billion (ug/L). Groundwater samples collected on 12–28–99.

2) Total extractable petroleum hydrocarbons as diesel (TEPH–d) are reported as diesel range.

3) Total extractable petroleum hydrocarbons (TEPH–mo) results are reported in motor oil range.

4) Total petroleum hydrocarbons as gasoline (TPH–g) results are reported in gasoline range.

SCALE

0 40 80 FEET

IT CORPORATION

GLASCOCK STREET PROPERTIES
FORMER DORR–OLIVER SITE

FIGURE 1
GROUNDWATER ELEVATION CONTOURS FOURTH QUARTER 1999
2901 GLASCOCK STREET
OAKLAND, CALIFORNIA

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

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
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FAX (408) 782-6308

JAN 2 0 2000

January 13, 2000

Kurt Lueneburger
Pacific Environmental Group
1921 Ringwood Avenue
San Jose, CA 95131

RE: 360.014.2B/M912AAM

Dear Kurt Lueneburger

Enclosed are the results of analyses for sample(s) received by the laboratory on December 29, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager

CA ELAP Certificate Number 1210

Sequoia Analytical

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Pacific Environmental Group	Project: -	Sampled: 12/28/99
1921 Ringwood Avenue	Project Number: 360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager: Kurt Lueneburger	Reported: 1/13/00

ANALYTICAL REPORT FOR M912AAM

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M912AAM-01	Water	12/28/99
MW-2	M912AAM-02	Water	12/28/99
MW-3	M912AAM-03	Water	12/28/99
MW-4	M912AAM-04	Water	12/28/99
MW-6	M912AAM-05	Water	12/28/99
MW-7	M912AAM-06	Water	12/28/99
MW-8	M912AAM-07	Water	12/28/99

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Pacific Environmental Group	Project:	-	Sampled: 12/28/99
1921 Ringwood Avenue	Project Number:	360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager:	Kurt Lueneburger	Reported: 1/13/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT (8020)
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**M912AAM-01**				**Water**	
Purgeable Hydrocarbons	0010153	1/6/00	1/6/00		50.0	**574**	ug/l	1
Benzene	"	"	"		0.500	**3.20**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	**1.20**	"	
Methyl tert-butyl ether	"	"	"		2.50	**55.9**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*79.2*	%	
MW-2			**M912AAM-02**				**Water**	
Purgeable Hydrocarbons	0010195	1/7/00	1/7/00		250	**2950**	ug/l	1
Benzene	"	"	"		2.50	ND	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		12.5	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*93.2*	%	
MW-3			**M912AAM-03**				**Water**	
Purgeable Hydrocarbons	0010153	1/6/00	1/6/00		50.0	**331**	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	**1.16**	"	
Methyl tert-butyl ether	"	"	"		2.50	**6.92**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*105*	%	
MW-4			**M912AAM-04**				**Water**	
Purgeable Hydrocarbons	0010153	1/6/00	1/6/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	**4.14**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*104*	%	
MW-6			**M912AAM-05**				**Water**	
Purgeable Hydrocarbons	0010247	1/10/00	1/10/00		200	**3690**	ug/l	1
Benzene	"	"	"		2.00	**4.40**	"	
Toluene	"	"	"		2.00	ND	"	
Ethylbenzene	"	"	"		2.00	ND	"	
Xylenes (total)	"	"	"		2.00	ND	"	

Sequoia Analytical

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Pacific Environmental Group	Project:	-	Sampled: 12/28/99
1921 Ringwood Avenue	Project Number:	360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager:	Kurt Lueneburger	Reported: 1/13/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-6 (continued)			**M912AAM-05**				**Water**	
Methyl tert-butyl ether	0010247	1/10/00	1/10/00		10.0	**16.2**	ug/l	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*105*	%	
MW-7			**M912AAM-06**				**Water**	
Purgeable Hydrocarbons	0010153	1/6/00	1/6/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	**67.6**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*95.3*	%	
MW-8			**M912AAM-07**				**Water**	
Purgeable Hydrocarbons	0010153	1/6/00	1/6/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*92.6*	%	

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Pacific Environmental Group	Project: -	Sampled: 12/28/99
1921 Ringwood Avenue	Project Number: 360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager: Kurt Lueneburger	Reported: 1/13/00

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Assume samples are filtered + treated w/ silica gel

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**M912AAM-01**				**Water**	
Diesel Range Hydrocarbons	0010255	1/10/00	1/12/00		50.0	**429**	ug/l	2
Motor Oil (C16-C36)	"	"	"		500	ND	"	3
Surrogate: n-Pentacosane	"	"	"	*40.0-140*		*94.8*	%	
MW-2			**M912AAM-02**				**Water**	
Diesel Range Hydrocarbons	0010255	1/10/00	1/12/00		50.0	**963**	ug/l	2
Motor Oil (C16-C36)	"	"	"		500	**627**	"	3
Surrogate: n-Pentacosane	"	"	"	*40.0-140*		*94.6*	%	
MW-3			**M912AAM-03**				**Water**	
Diesel Range Hydrocarbons	0010255	1/10/00	1/12/00		50.0	**314**	ug/l	2
Motor Oil (C16-C36)	"	"	"		500	ND	"	
Surrogate: n-Pentacosane	"	"	"	*40.0-140*		*91.4*	%	
MW-4			**M912AAM-04**				**Water**	
Diesel Range Hydrocarbons	0010255	1/10/00	1/12/00		50.0	ND	ug/l	
Motor Oil (C16-C36)	"	"	"		500	ND	"	
Surrogate: n-Pentacosane	"	"	"	*40.0-140*		*61.4*	%	
MW-6			**M912AAM-05**				**Water**	
Diesel Range Hydrocarbons	0010255	1/10/00	1/12/00		50.0	**527**	ug/l	
Motor Oil (C16-C36)	"	"	"		500	ND	"	
Surrogate: n-Pentacosane	"	"	"	*40.0-140*		*89.6*	%	
MW-7			**M912AAM-06**				**Water**	
Diesel Range Hydrocarbons	0010255	1/10/00	1/12/00		50.0	ND	ug/l	
Motor Oil (C16-C36)	"	"	"		500	ND	"	
Surrogate: n-Pentacosane	"	"	"	*40.0-140*		*90.6*	%	
MW-8			**M912AAM-07**				**Water**	
Diesel Range Hydrocarbons	0010255	1/10/00	1/12/00		50.0	ND	ug/l	
Motor Oil (C16-C36)	"	"	"		500	ND	"	
Surrogate: n-Pentacosane	"	"	"	*40.0-140*		*94.2*	%	

Sequoia Analytical

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Pacific Environmental Group	Project: -	Sampled: 12/28/99
1921 Ringwood Avenue	Project Number: 360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager: Kurt Lueneburger	Reported: 1/13/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0010153	**Date Prepared: 1/6/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010153-BLK1**									
Purgeable Hydrocarbons	1/6/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.71*	"	*70.0-130*	*97.1*			
LCS	**0010153-BS1**									
Purgeable Hydrocarbons	1/6/00	250		233	ug/l	70.0-130	93.2			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.39*	"	*70.0-130*	*73.9*			
Matrix Spike	**0010153-MS1**	**M912AAP-01**								
Purgeable Hydrocarbons	1/6/00	250	ND	286	ug/l	60.0-140	**114**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*8.24*	"	*70.0-130*	*82.4*			
Matrix Spike Dup	**0010153-MSD1**	**M912AAP-01**								
Purgeable Hydrocarbons	1/6/00	250	ND	276	ug/l	60.0-140	**110**	25.0	**3.57**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.67*	"	*70.0-130*	*76.7*			
Batch: 0010195	**Date Prepared: 1/7/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010195-BLK1**									
Purgeable Hydrocarbons	1/7/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.48*	"	*70.0-130*	*94 8*			
LCS	**0010195-BS1**									
Benzene	1/7/00	10.0		7.94	ug/l	70.0-130	79.4			
Toluene	"	10.0		9.38	"	70.0-130	93.8			
Ethylbenzene	"	10.0		10.2	"	70.0-130	102			
Xylenes (total)	"	30.0		32.1	"	70.0-130	107			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.60*	"	*70.0-130*	*96.0*			
Matrix Spike	**0010195-MS1**	**M912ABO-13**								
Benzene	1/7/00	10.0	ND	7.94	ug/l	60.0-140	**79.4**			
Toluene	"	10.0	ND	9.07	"	60.0-140	**90.7**			

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1921 Ringwood Avenue	Project Number: 360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager: Kurt Lueneburger	Reported: 1/13/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**0010195-MS1**		**M912ABO-13**							
Ethylbenzene	1/7/00	10.0	ND	9.84	ug/l	60.0-140	**98.4**			
Xylenes (total)	"	30.0	ND	31.8	"	60.0-140	**106**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.73*	"	*70.0-130*	*97.3*			
Matrix Spike Dup	**0010195-MSD1**		**M912ABO-13**							
Benzene	1/7/00	10.0	ND	7.62	ug/l	60.0-140	**76.2**	25.0	**4.11**	
Toluene	"	10.0	ND	8.71	"	60.0-140	**87.1**	25.0	**4.05**	
Ethylbenzene	"	10.0	ND	9.28	"	60.0-140	**92.8**	25.0	**5.86**	
Xylenes (total)	"	30.0	ND	30.8	"	60.0-140	**103**	25.0	**2.87**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.89*	"	*70.0-130*	*98.9*			
Batch: 0010247	**Date Prepared: 1/10/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0010247-BLK1**									
Purgeable Hydrocarbons	1/10/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.43*	"	*70.0-130*	*94.3*			
LCS	**0010247-BS1**									
Purgeable Hydrocarbons	1/10/00	250		269	ug/l	70.0-130	108			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*13.6*	"	*70.0-130*	*136*			4
Matrix Spike	**0010247-MS1**		**M001097-02**							
Purgeable Hydrocarbons	1/10/00	250	ND	266	ug/l	60.0-140	**106**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*14.1*	"	*70.0-130*	*141*			4
Matrix Spike Dup	**0010247-MSD1**		**M001097-02**							
Purgeable Hydrocarbons	1/10/00	250	ND	248	ug/l	60.0-140	**99.2**	25.0	**6.63**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*14.0*	"	*70.0-130*	*140*			4

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Pacific Environmental Group	Project: -	Sampled: 12/28/99
2921 Ringwood Avenue	Project Number: 360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager: Kurt Lueneburger	Reported: 1/13/00

Diesel Hydrocarbons (C9-C24) by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0010255	**Date Prepared: 1/10/00**					**Extraction Method: EPA 3510B**				
Blank	**0010255-BLK1**									
Diesel Range Hydrocarbons	1/11/00			**ND**	ug/l	**50.0**				
Motor Oil (C16-C36)	"			**ND**	"	**500**				
Surrogate: n-Pentacosane	"	*100*		*91.2*	"	*40.0-140*	*91.2*			
LCS	**0010255-BS1**									
Diesel Range Hydrocarbons	1/11/00	1000		856	ug/l	40.0-140	85.6			
Surrogate: n-Pentacosane	"	*100*		*92.6*	"	*40.0-140*	*92.6*			
LCS Dup	**0010255-BSD1**									
Diesel Range Hydrocarbons	1/11/00	1000		879	ug/l	40.0-140	87.9	50.0	2.65	
Surrogate: n-Pentacosane	"	*100*		*93.4*	"	*40.0-140*	*93.4*			

Sequoia Analytical

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Pacific Environmental Group	Project: -	Sampled: 12/28/99
1921 Ringwood Avenue	Project Number: 360.014.2B	Received: 12/29/99
San Jose, CA 95131	Project Manager: Kurt Lueneburger	Reported: 1/13/00

Notes and Definitions

#	Note
	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
2	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
	Chromatogram pattern: Unidentified Hydrocarbons C16-C36.
4	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Chain of Custody

Pacific Environmental Group, Inc.
1921 RINGWOOD AV. SAN JOSE CA. 95131
Phone 408 453 7300 Fax 408 453 0952

OJECT No. 360 01423
ility No. FOR. DORR OLIVER SITE
Facility Address: 2901 GLASCOCK ST. OAKLAND CA
NT engineer:
PACIFIC Point of Contact: DIANE SARMIENTO
Sampler: PEDRO E. RUIZ
Billing Refence Number: 887
Laboratory Name: SEQUOIA

M912AAM

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	W=water S=soil A=air Matrix	G=grab D=disc. C=comp. Type	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				Comments
MW-1	5	40ml 1L	HCL Np	W	G	12.28.99	10:00	X							X		01		
MW-2	↓	↓	↓	↓	↓	↓	10:50	↓							↓		02		
MW3	↓	↓	↓	↓	↓	↓	8:40	↓							↓		03		
MW4	↓	↓	↓	↓	↓	↓	9:10	↓							↓		04		
MW6	↓	↓	↓	↓	↓	↓	9:55	↓							↓		05		
MW7	↓	↓	↓	↓	↓	↓	8:00	↓							↓		06		
MW8	↓	↓	↓	↓	↓	↓	9:30	↓							↓		07		

Comments: FUEL FINGER PRINT AS DIESEL & MOTOR OIL W/ FILTRATION BY 0.7 MICRON TCLP GLASS FILTER, FOLLOWED BY SILICA GEL CLEANUP OF EXTRACT BY EPA METHOD 3630B WITHOUT SOLVENT EXCHANGE

12 29 1 24

ondition of Sample:
Temperature Received:

	Date	Time	Received by	Date	Time
elinquished by: [signature]	12.28.99	14:30	STEVE T.	12/29/99	11:00
elinquished by: STEVE T.	12/29/99		TJT (MH)	12 29 99	13:24
elinquished by:					
elinquished by:			Received by laboratory:		

Mail original Analytical Report to: Pacific Environmental Group
- [X] 1921 RINGWOOD AV. SAN JOSE CA 95131
- [ ] 620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523
- [ ] 25725 Jeronimo Rd. #576C Mission Viejo, CA 92622

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

FIELD SERVICES REQUEST

SITE INFORMATION FORM

Identification

Project # 360-014.2B
Station ID Former Dorr-Olive Site
Site Address: 2901 Glascock St.
Oakland
Lab: Sequoia
County: Alameda
Project Manager: Andrew D. Lehane
Requester: Jessica Nelligan
Client: Glascock Street Properties
Client P.O.C: Dennis Buran
Date of Request: December 1, 1997

Project Type

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

Ideal field date: **December**

Site Check Appropriate Category

- ☒ 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 (MAR(3)) — 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.

Comments, remarks from field staff

Completed By: [signature] Date: 12.08.99

Pacific Environmental Group, Inc.

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 360042A LOCATION: 2601 Glascock st DATE: 12-28-99

CLIENT/STATION NO.: for: Clover Site FIELD TECHNICIAN: Pedro E Ruiz DAY OF WEEK: TUE

PROBE TYPE/ID No.
- ☐ Oil/Water IF/ _____
- ☐ 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	SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	SEPARATE-PHASE HYDROCARBONS (SPH) COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons) SPH	H_2O
	Mw-1		-	-	-	-	-	19.80	9.10 9.10	9.30 9.30											
	Mw2		-	-	-	-	-	19.75	8.05 8.05	8.58 8.68											
	Mw3		-	-	-	-	-	19.80	6.72 6.72	7.08 7.08											
	Mw4		-	-	-	-	-	19.70	8.04 8.04	8.60 8.60											
	Mw6		-	-	-	-	-	19.50	10.55 10.55	11.20 11.20											
	Mw7	8:00	-	-	-	-	-	17.75	5.07 5.07	5.55 5.55											
	Mw8							17.70	9.80 9.80	10.36 10.36											

Comments: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2B LOCATION: 2901 Glascock St WELL ID #: MW-1

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 9.80 - DTW 9.10 = 10.7 x Gal/Linear Foot .17 = 1.81 x Number of Casings 3 = Calculated Purge 5.45

DATE PURGED: 12.28.99 START: 10:05 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 12.28.99 START: 10:20 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
10:08	2	7.58	1430	57.3	Cloudy	Mod	Faint
10:11	4	7.15	1415	56.3	Cloudy	Mod	Faint
10:15	6	7.33	1463	57.9	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
- ☐ 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
MW-1	12.28.99	1020	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NP	TPHD, TPHmo

REMARKS: DO: 8.3

8.3

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360014.28 LOCATION: 2901 Blaycock St WELL ID #: MW-2

CLIENT/STATION No.: Former Dorrell 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 8.25 = 11.5 x Gal/Linear Foot .17 = 1.95 x Number of Casings 3 = Calculated Purge 5.86

DATE PURGED: 12.28.99 START: 10:32 END (2400 hr): — PURGED BY: JE

DATE SAMPLED: 12.28.99 START: 10:50 END (2400 hr): — SAMPLED BY: JE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (µmhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:36	2	7.55	2060	58.6	Cloudy	Mod	Mod
10:40	4	7.46	2090	58.9	Cloudy	Light	Mod
10:44	6	7.36	2110	59.1	Cloudy	Light	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-
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW2	12.28.99	10:50	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NP	TPHD, TPHmo

REMARKS: 10:00 NA

PACIFIC

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2B LOCATION: 2901 Glascock St WELL ID #: MW-3

CLIENT/STATION No.: Former Dorr Oliver 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 6.70 = 13.08 x Gal/Linear Foot .17 = 2.22 x Number of Casings 3 = Calculated Purge 6.67

DATE PURGED: 10.28.99 START: 8:24 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 10.28.99 START: 8:40 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
8:28	2.25	7.50	1420	55.2	Cloudy	Mod	Faint
8:30	4.5	7.38	1430	56.7	Cloudy	Mod	Faint
8:35	6.75	7.09	1440	58.2	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
- ☐ 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
MW-3	10.28.99	8:40	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: _____

PACIFIC

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600142B LOCATION: 2901 Glascock St WELL ID #: MW-6

CLIENT/STATION No.: Former Dorr Oliver 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 10.55 = 8.95 x Gal/Linear Foot .17 = 1.52 x Number of Casings 3 = Calculated Purge 4.56

DATE PURGED: 12.28.99 START: 9:41 END (2400 hr): — PURGED BY: PR

DATE SAMPLED: 12.28.99 START: 9:55 END (2400 hr): — SAMPLED BY: PR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:45	1.5	7.34	10270	56.8	Cloudy	Mod	Strong
9:49	3	7.31	10560	56.7	Cloudy	Mod	Strong
9:53	4.5	7.21	10580	56.3	Cloudy	Mod	Strong

Pumped dry Yes / (No)

COLOR	TURBIDITY	ODOR
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:
- ☐ Airlift Pump:
- ☒ Centrifugal Pump: 15
- ☐ Dedicated:
- ☐ Other:

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-6	12.28.99	9:56	3	40ml	VOA	HCL	TPHG/BTEX/MTBE
			2	1L	Amb	NP	TPHD, TPHMO

REMARKS: DO: NA 0.0

PACIFIC

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.28 LOCATION: 2901 Blaycock St WELL ID #: MW-7

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 17.75 - DTW 5.07 = 12.7 x Gal/Linear Foot .17 = 2.15 x Number of Casings 3 = Calculated Purge 6.47

DATE PURGED: 12.28.99 START: 8:08 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 12.28.99 START: 8:20 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
8:12	2	7.13	1460	59.1	Clear	light	None
8:15	4	7.31	1410	59.8	Clear	light	None
8:18	6	7.24	1470	59.2	Clear	light	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
- ☐ 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
MW-7	12.28.99	8:20	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	Amb	NP	TPHD, TPHmo

REMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360019.2B LOCATION: 2901 Glascock St WELL ID #: MW-8

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 17.70 DTW 9.80 = 7.9 x Gal/Linear Foot .17 = 1.34 x Number of Casings 3 = Calculated Purge 4.02

DATE PURGED: 12.28.99 START: 9:10 END (2400 hr): _____ PURGED BY: JE

DATE SAMPLED: 12.28.99 START: 9:30 END (2400 hr): _____ SAMPLED BY: JE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
9:19	1.25	7.47	260	56.0	Cloudy	Mod	None
9:22	2.5	7.38	246	55.2	Cloudy	Mod	None
9:25	3.75	7.06	258	56.1	Cloudy	Mod	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
- ☐ 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
MW-8	12.28.99	9:30	3	40ml	VOA	HCL	TPHG / BTEX / MTBE
			2	1L	AMB	NP	TPHD, TPHmo

REMARKS: _____

Chain of Custody

Pacific Environmental Group, Inc.
1921 RINGWOOD AV. SAN JOSE CA. 95131
Phone 408 453 7300 Fax 408 453 0452

[...]JECT No. 360 0142B
[...]ty No. FOR DORR OLIVER SITE
Facility Address: 2901 GLASCOCK ST. OAKLAND CA
[...]NT engineer:
PACIFIC Point of Contact: DIANE SARMIENTO
Sampler: PEDRO E. RUIZ
Billing Reference Number: 887
Laboratory Name: SEQUOIA

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	W=water S=soil A=air Matrix	G=grab D=disc. C=comp. Type	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				Comments:
MW-1	5	40ml 1L	HCL Np	W	G	12.28.99	10:00	X							X				FUEL FINGERPRINT AS DIESEL & MOTOR OIL W/ FILTRATION BY 0.7 MICRON TCLP GLASS FILTER, FOLLOWED BY SILICAGEL CLEANUP OF EXTRACT BY EPA METHOD 3630B WITHOUT SOLVENT EXCHANGE
MW-2	↓	↓	↓	↓	↓	↓	10:50	↓							↓				
MW3	↓	↓	↓	↓	↓	↓	8:40	↓							↓				
MW4	↓	↓	↓	↓	↓	↓	9:10	↓							↓				
MW6	↓	↓	↓	↓	↓	↓	9:55	↓							↓				
MW 7	↓	↓	↓	↓	↓	↓	8:20	↓							↓				
MW 8	↓	↓	↓	↓	↓	↓	9:30	↓							↓				

[...]ndition of Sample:

Temperature Received:

Relinquished by	Date	Time	Received by	Date	Time
[signature]	12.28.99	14:30			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

Mail original Analytical Report to:
Pacific Environmental Group

- [X] 1921 RINGWOOD AV. SAN JOSE CA 95131
- [ ] 620 Contra Costa Blvd. #209 Pleasant Hill, CA 94523
- [ ] 25725 Jeronimo Rd. #576C Mission Viejo, CA 92622

Turnaround Time:

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