



PACIFIC
ENVIRONMENTAL
GROUP, INC.

ENVIRONMENTAL
PROTECTION

98 MAR -5 PM 4:03

1138

March 2, 1998
Project 360-014.2B

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

*3/11/98 no information as to whether the
(5) ORC Remediation wells were
installed. Left message for Alchare*

Re: Quarterly Report - Fourth Quarter 1997
Former Dorr-Olive 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 fourth quarter 1997 monitoring for the site referenced above (Figure 1).

SCOPE OF WORK

All seven existing groundwater monitoring wells (MW-1 through MW-4, and MW-6 through MW-8; Figure 2) were gauged and sampled by PEG on December 11, 1997. The depth to groundwater and groundwater analytical data are presented in Tables 1 through 3. The wells were sampled and analyzed for the presence of total purgeable petroleum hydrocarbons calculated as gasoline (TPPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), total extractable petroleum hydrocarbons calculated as diesel (TEPH-d), motor oil, and methyl tert-butyl ether (MtBE). Groundwater elevations, benzene, and TEPH-d concentrations for the fourth quarter 1997 sampling event are shown on Figure 2. The certified analytical reports (CARs), chain-of-custody documentation, and field data sheets are presented as Attachment A.

GROUNDWATER LEVELS

The average groundwater elevation in site monitoring wells rose approximately 1.82 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 0.016 (Figure 2). Groundwater elevations were within the historic range for the site.

GROUNDWATER QUALITY

No measurable separate-phase hydrocarbons were found in site monitoring wells this quarter. TEPH-d remains the primary constituent found in groundwater. Detectable TEPH-d concentrations were found in Wells MW-1, MW-2, MW-3, and MW-6, and were characterized as weathered diesel. Concentrations of TEPH-d detected in these wells declined an average of approximately 8,200 micrograms per liter ($\mu\text{g/L}$) as compared to concentrations detected the previous quarter. Results for Well MW-4 indicated detectable concentrations of unidentified hydrocarbons in the C_9 through C_{24} range which did not match the diesel standard (Attachment A).

Unidentified hydrocarbons in the C_{16} to C_{36} ranges were detected by the analytical laboratory while performing the analysis for motor oil on samples from Wells MW-1, MW-2, and MW-6. However, the laboratory narrative at the end of the CARs indicates that the chromatograms do not match any known motor oil standard, and therefore the conclusion is that there is no detectable motor oil present in these samples.

Only one well, Well MW-8, was reported to have detectable TPPH-g at a concentration of $270 \mu\text{g/L}$. Benzene and MtBE were also detected in Well MW-8 this quarter, at concentrations of $8 \mu\text{g/L}$ and $72 \mu\text{g/L}$, respectively.

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

Sincerely,

Pacific Environmental Group, Inc.



Andrew D. Lehane
Project Engineer
RCE 55798



Table 1 (continued)
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 (cont.)	06/25/97		7.95	2.69
	09/29/97		7.65	2.99
	12/11/97		5.75	4.89
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
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	
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	
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	
	<i>3/27/98</i>					<i>7600</i>			
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	
	<i>3/27/98</i>					<i>15000</i>			
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	

Table 2 (continued)
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-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	
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
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

Table 2 (continued)
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-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
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 CARs for detection limit) 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.									

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
MW-2	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	ND	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
MW-3	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	51.2	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
MW-4	11/29/95	NA	NA	NA	NA	NA	NA	ND a
	01/18/96	NA	ND	ND	ND	ND	20.5	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
MW-5	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	22.6	NA
MW-6	11/29/95	ND	ND	822	107	1,190	851	ND
	01/18/96	NA	ND	ND	ND	ND	ND	NA
	06/25/97	NA	ND	0.14	ND	0.2	0.18	ND d
MW-7	11/29/95	NA	NA	NA	NA	NA	NA	ND b
	01/18/96	NA	ND	ND	ND	ND	25.1	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
MW-8	11/29/95	ND	ND	319	42.0	381	309	ND c
	01/18/96	NA	ND	ND	ND	ND	ND	NA
	06/25/97	NA	ND	0.54	ND	0.69	0.42	ND

PCBs = Polychlorinated bi-phenyls
 VOCs = Volatile organic compounds
 µg/L = Micrograms per liter
 ND = Not detected (see CARs for detection limit)
 NA = Not analyzed
 a. 0.61 µg/L 1,1-Dichloroethane
 b. 0.79 µg/L 1,1-Dichloroethane
 0.74 µg/L *trans*-1,2-Dichloroethene
 c. 0.53 µg/L Vinyl Chloride
 1.3 µg/L Trichloroethene
 d. 2.5 µg/L Chloroethene
 0.97 µg/L 1,1-Dichloroethane
 3.4 µg/L *trans*-1,2-Dichloroethene
 1.4 µg/L Vinyl Chloride



GLASCOCK STREET

PETERSON STREET
MW-7

APPROXIMATE LIMITS OF BUILDING

MW-3

FORMER TANKS

OFFICES

MW-2

OPEN LOT

FORMER TANK

MW-4

RAMP

SUMP

MW-1

CONCRETE STRUCTURES

MW-5

MW-8

FORMER
SANDBLAST
ROOM

MW-6

OAKLAND ESTUARY

LEGEND

- MW-4 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- MW-5 ∅ DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION

APPROXIMATE SCALE



PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE:

SITE MAP

PREPARED FOR:

FORMER DORR-OLIVER SITE
2901 Glascock Street
Oakland, California

DATE: 3/2/98

PROJECT: 360-014.2B

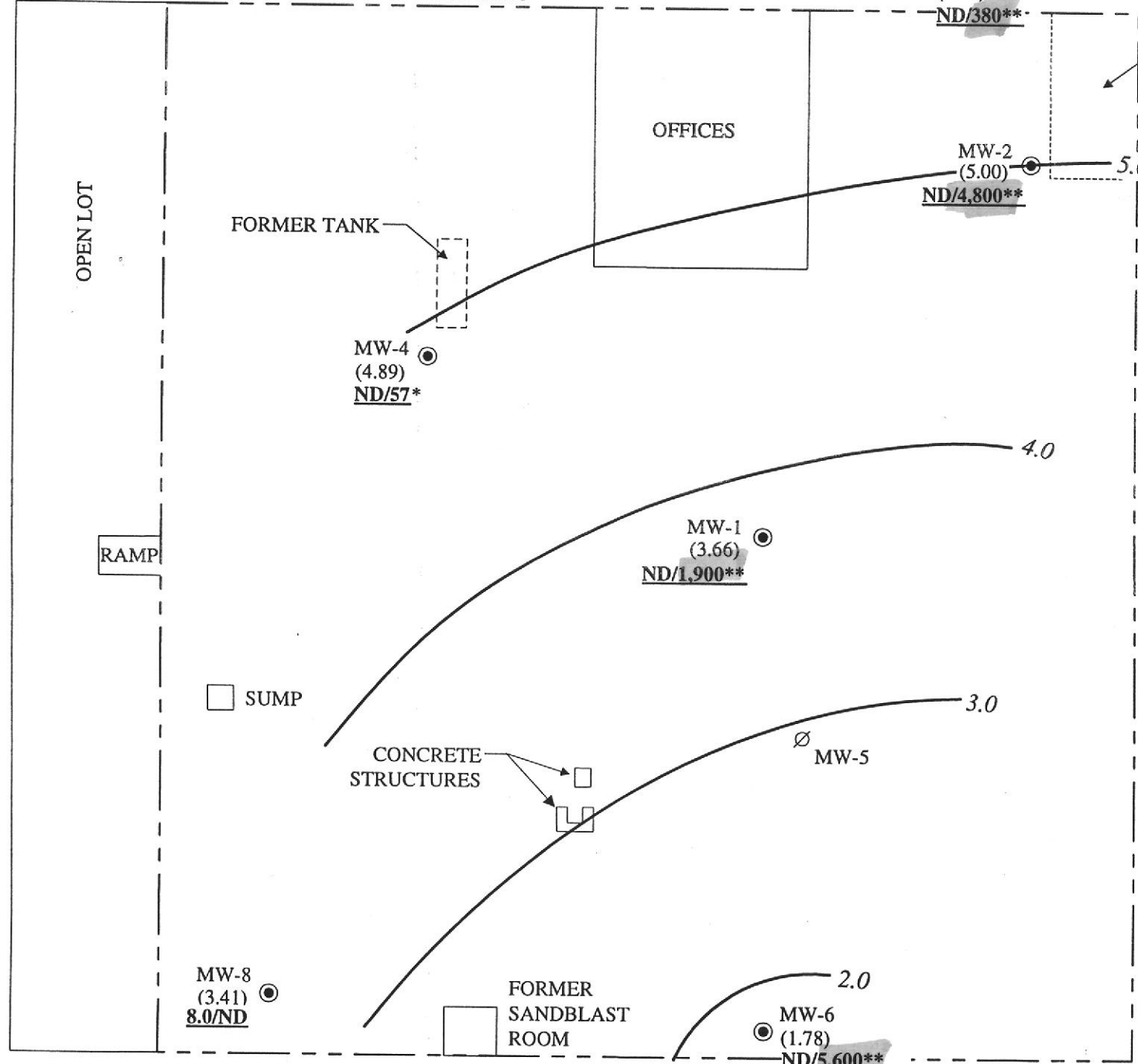
FIGURE: 1



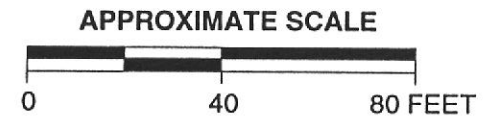
GLASCOCK STREET


PETERSON STREET

APPROXIMATE LIMITS OF BUILDING



- LEGEND**
- MW-4 ● GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - MW-5 ∅ DESTROYED GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
 - (5.00) GROUNDWATER ELEVATION IN FEET - MSL, 12-11-97
 - 2.0 — GROUNDWATER ELEVATION CONTOUR IN FEET - MSL, 12-11-97
 - ND/1,900** BENZENE/TEPH-d CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 12-11-97
 - ND** NOT DETECTED
 - * NOT DIESEL; UNIDENTIFIED HYDROCARBONS C9-C24
 - ** WEATHERED DIESEL C9-C24
- APPROXIMATE GRADIENT = 0.016



 PACIFIC ENVIRONMENTAL GROUP, INC.	TITLE: GROUNDWATER MONITORING MAP - FOURTH QUARTER 1997		
	PREPARED FOR: FORMER DORR-OLIVER SITE 2901 Glascock Street Oakland, California		
DATE: 3/2/98	PROJECT: 360-014.2B	FIGURE: 2	

ATTACHMENT A

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



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712732-01	Sampled: 12/11/97 Received: 12/11/97 Analyzed: 12/16/97 Reported: 03/02/98
Attention: Andrew Lehane		

QC Batch Number: GC121697BTEX02A
Instrument ID: HP2

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.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	114

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

SEQUOIA ANALYTICAL - ELAP #1271



Tod Granicher
Project Manager





Pacific Environmental Group	Client Proj. ID: 360-014.2B/Former Dorr	Sampled: 12/11/97
2025 Gateway Place, Suite 440	Sample Descript: MW1	Received: 12/11/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 12/18/97
Attention: Andrew Iehane	Analysis Method: EPA 8015 Mod	Analyzed: 12/22/97
	Lab Number: 9712732-01	Reported: 03/02/98


QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	1900
Chromatogram Pattern: Weathered Diesel		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	77

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-01	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/22/97 Reported: 03/02/98
Attention: Andrew Lehane		

QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

Fuel Fingerprint : Motor Oil with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
Extractable HC as Motor Oil Chromatogram Pattern: Unidentified HC	500	1300 C16-C36
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 77

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712732-02	Sampled: 12/11/97 Received: 12/11/97 Analyzed: 12/16/97 Reported: 03/02/98
Attention: Andrew Lehane		

QC Batch Number: GC121697BTEX02A
Instrument ID: HP2

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.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	117

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

SEQUOIA ANALYTICAL - ELAP #1271

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Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-02	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/23/97 Reported: 03/02/98
Attention: Andrew lehane		

QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Weathered Diesel	200	4800 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 147

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-02	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/23/97 Reported: 03/02/98
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QC Batch Number: GC1218970HBPEXD
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: Unidentified HC	2000	4000 C16-C36
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 147

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712732-03	Sampled: 12/11/97 Received: 12/11/97 Analyzed: 12/16/97 Reported: 03/02/98
Attention: Andrew Lehane		

QC Batch Number: GC121697BTEX02A
Instrument ID: HP2

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.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	116

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

SEQUOIA ANALYTICAL - ELAP #1271



Tod Granicher
Project Manager





Pacific Environmental Group	Client Proj. ID: 360-014.2B/Former Dorr	Sampled: 12/11/97
2025 Gateway Place, Suite 440	Sample Descript: MW3	Received: 12/11/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 12/18/97
Attention: Andrew Lehane	Analysis Method: EPA 8015 Mod	Analyzed: 12/22/97
	Lab Number: 9712732-03	Reported: 03/02/98

QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	380
Chromatogram Pattern: Weathered Diesel		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	78

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-03	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/22/97 Reported: 03/02/98
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QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

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 n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 78

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

SEQUOIA ANALYTICAL - ELAP #1210


Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712732-04	Sampled: 12/11/97 Received: 12/11/97 Analyzed: 12/15/97 Reported: 03/02/98
Attention: Andrew Lehane		

QC Batch Number: GC121597BTEX04A
Instrument ID: HP4

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.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	106

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

SEQUOIA ANALYTICAL - ELAP #1271



Tod Granicher
Project Manager





Pacific Environmental Group	Client Proj. ID: 360-014.2B/Former Dorr	Sampled: 12/11/97
2025 Gateway Place, Suite 440	Sample Descript: MW4	Received: 12/11/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 12/18/97
Attention: Andrew Lehane	Analysis Method: EPA 8015 Mod	Analyzed: 12/22/97
	Lab Number: 9712732-04	Reported: 03/02/98

QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	57
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	73

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110 Attention: Andrew Lehane	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-04	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/22/97 Reported: 03/02/98
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QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

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	73

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712732-05	Sampled: 12/11/97 Received: 12/11/97 Analyzed: 12/18/97 Reported: 03/02/98
Attention: Andrew lehane		

QC Batch Number: GC121897BTEX04A
Instrument ID: HP4

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.
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

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

SEQUOIA ANALYTICAL - ELAP #1271



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-05	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/23/97 Reported: 03/02/98
--	--	--

QC Batch Number: GC121897OHBPEXD
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH) with Silica Gel Cleanup

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	200	5600
Chromatogram Pattern: Weathered Diesel		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	133

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

SEQUOIA ANALYTICAL - ELAP #1210

Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW6 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-05	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/23/97 Reported: 03/02/98
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QC Batch Number: GC121897OHBPEXD
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: Unidentified HC	2000	5100 C16-C34
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 133

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712732-06	Sampled: 12/11/97 Received: 12/11/97 Analyzed: 12/15/97 Reported: 03/02/98
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QC Batch Number: GC121597BTEX04A
Instrument ID: HP4

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.
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 #1271



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW7 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-06	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/22/97 Reported: 03/02/98
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QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

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	74

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager





Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW7 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-06	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/22/97 Reported: 03/02/98
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QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

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	74

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

SEQUOIA ANALYTICAL - ELAP #1210



Tod Granicher
Project Manager



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW8 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9712732-07	Sampled: 12/11/97 Received: 12/11/97 Analyzed: 12/15/97 Reported: 03/02/98
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QC Batch Number: GC121597BTEX04A
Instrument ID: HP4

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	270
Methyl t-Butyl Ether	2.5	72
Benzene	0.50	8.0
Toluene	0.50	1.8
Ethyl Benzene	0.50	5.7
Xylenes (Total)	0.50	14
Chromatogram Pattern:		Gasoline
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	110

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

SEQUOIA ANALYTICAL - ELAP #1271



Tod Granicher
Project Manager



Pacific Environmental Group 2025 Gateway Place, Suite 440 San Jose, CA 95110	Client Proj. ID: 360-014.2B/Former Dorr Sample Descript: MW8 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9712732-07	Sampled: 12/11/97 Received: 12/11/97 Extracted: 12/18/97 Analyzed: 12/22/97 Reported: 03/02/98
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QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

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	80

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tod Granicher
 Project Manager



Pacific Environmental Group	Client Proj. ID: 360-014.2B/Former Dorr	Sampled: 12/11/97
2025 Gateway Place, Suite 440	Sample Descript: MW8	Received: 12/11/97
San Jose, CA 95110	Matrix: LIQUID	Extracted: 12/18/97
Attention: Andrew Lehane	Analysis Method: EPA 8015 Mod	Analyzed: 12/22/97
	Lab Number: 9712732-07	Reported: 03/02/98

QC Batch Number: GC1218970HBPEXD
Instrument ID: GCHP5A

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	80

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

SEQUOIA ANALYTICAL - ELAP #1210



 Tod Granicher
 Project Manager




Pacific Environmental Group	Client Proj. ID: 360-014.2B/Former Dorr	Received: 12/11/97
2025 Gateway Place, Suite 440		
San Jose, CA 95110	Lab Proj. ID: 9712732	Reported: 03/02/98
Attention: Andrew Lehane		

LABORATORY NARRATIVE

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

TEPH note: The chromatograms for samples in this set display no evidence of a known motor oil pattern. Consequently, it appears that these samples contain no detectable quantities of motor oil.

SEQUOIA ANALYTICAL



Tod Granicher
Project Manager



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

Client Project ID: 360-014.2B/Former Dorr
Matrix: Liquid

Work Order #: 9712732 -01-07

Reported: Jan 2, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC121597BTEX04A	GC121597BTEX04A	GC121597BTEX04A	GC121597BTEX04A	GC121597BTEX04A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	K. Nill	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	7121035	7121035	7121035	7121035	7121035
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/15/97	12/15/97	12/15/97	12/15/97	12/15/97
Analyzed Date:	12/15/97	12/15/97	12/15/97	12/15/97	12/15/97
Instrument I.D.#:	GCHP4	GCHP4	GCHP4	GCHP4	GCHP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	329 µg/L
Result:	20	20	19	60	329
MS % Recovery:	100	100	95	100	100
Dup. Result:	21	21	20	62	342
MSD % Recov.:	105	105	100	103	104
RPD:	4.9	4.9	5.1	3.3	3.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK121597	BLK121597	BLK121597	BLK121597	BLK121597
Prepared Date:	12/15/97	12/15/97	12/15/97	12/15/97	12/15/97
Analyzed Date:	12/15/97	12/15/97	12/15/97	12/15/97	12/15/97
Instrument I.D.#:	GCHP4	GCHP4	GCHP4	GCHP4	GCHP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	329 µg/L
LCS Result:	20	21	20	62	330
LCS % Recov.:	100	105	100	103	100

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

SEQUOIA ANALYTICAL


Tod Granicher
Project Manager

Please Note:

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

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

9712732.PPP <1>





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

Client Project ID: 360-014.2B/Former Dorr
Matrix: Liquid

Work Order #: 9712732 -01-07

Reported: Jan 2, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC121697BTEX02A	GC121697BTEX02A	GC121697BTEX02A	GC121697BTEX02A	GC121697BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	7121125	7121125	7121125	7121125	7121125
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/16/97	12/16/97	12/16/97	12/16/97	12/16/97
Analyzed Date:	12/16/97	12/16/97	12/16/97	12/16/97	12/16/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
Result:	20	21	21	65	290
MS % Recovery:	100	105	105	108	94
Dup. Result:	21	22	22	69	310
MSD % Recov.:	105	110	110	115	100
RPD:	4.9	4.7	4.7	6.0	6.7
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK121697	BLK121697	BLK121697	BLK121697	BLK121697
Prepared Date:	12/16/97	12/16/97	12/16/97	12/16/97	12/16/97
Analyzed Date:	12/16/97	12/16/97	12/16/97	12/16/97	12/16/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	310 µg/L
LCS Result:	20	20	22	64	300
LCS % Recov.:	100	100	110	107	97

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

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

Tod Granicher
Project Manager

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

9712732.PPP <2>





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

Client Project ID: 360-014.2B/Former Dorr
Matrix: Liquid

Work Order #: 9712732 -01-07

Reported: Jan 2, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC121897BTEX02A	GC121897BTEX02A	GC121897BTEX02A	GC121897BTEX02A	GC121897BTEX02A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	7121147	7121147	7121147	7121147	7121147
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	12/18/97	12/18/97	12/18/97	12/18/97	12/18/97
Analyzed Date:	12/18/97	12/18/97	12/18/97	12/18/97	12/18/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
Result:	18	19	19	60	330
MS % Recovery:	90	95	95	100	114
Dup. Result:	19	20	22	65	330
MSD % Recov.:	95	100	110	108	114
RPD:	5.4	5.1	15	8.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK121897	BLK121897	BLK121897	BLK121897	BLK121897
Prepared Date:	12/18/97	12/18/97	12/18/97	12/18/97	12/18/97
Analyzed Date:	12/18/97	12/18/97	12/18/97	12/18/97	12/18/97
Instrument I.D.#:	GCHP2	GCHP2	GCHP2	GCHP2	GCHP2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	290 µg/L
LCS Result:	21	21	23	67	330
LCS % Recov.:	105	105	115	112	114

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

SEQUOIA ANALYTICAL


Tod Granicher
Project Manager

Please Note:

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

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

9712732.PPP <3>





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

Client Project ID: 360-014.2B/Former Dorr
Matrix: Liquid

Work Order #: 9712732-01-07

Reported: Jan 2, 1998

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: C1218970HBPEXD SG
Analy. Method: EPA 8015M
Prep. Method: EPA 3520

Analyst: A. Porter
MS/MSD #: BLK121897SG
Sample Conc.: N.D.
Prepared Date: 12/18/97
Analyzed Date: 12/22/97
Instrument I.D.#: GCHP5B
Conc. Spiked: 1000 µg/L

Result: 760
MS % Recovery: 76

Dup. Result: 740
MSD % Recov.: 74

RPD: 2.7
RPD Limit: 0-50

LCS #:

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

LCS Result:
LCS % Recov.:

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

SEQUOIA ANALYTICAL


Tod Granicher
Project Manager

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

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

9712732.PPP < 4 >

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: PEG
 REC. BY (PRINT) CM

WORKORDER: 9712732
 DATE OF LOG-IN: 12-11-97

CIRCLE THE APPROPRIATE RESPONSE		LAB	DASH	CLIENT IDENTIFICATION	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMP.	REMARKS: CONDITION (ETC.)
1. Custody Seal(s)	Present / <u>Absent</u> Intact / Broken*	SAMPLE #	#					
		1	0-6	MW-1	(2) IL AMPER	L	12/11/97	
2. Custody Seal #:	Put in Remarks Section	2	A-C	1	(3) VOA			
3. Chain-of-Custody	<u>Present</u> / Absent*	3	5000	MW-2	SAME			
4. Traffic Reports or Packing List:	Present / <u>Absent</u>	4		3				
5. Airbill:	Airbill / Sticker Present / <u>Absent</u>	5		4				
6. Airbill #:		6		5				
		7		6				
7. Sample Tags:	<u>Present</u> / Absent			7				
Sample Tags #s:	<u>Listed</u> / Not Listed on Chain-of-Custody			8				
8. Sample Condition:	<u>Intact</u> / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample tags agree?	<u>Yes</u> / No*							
10. Proper Preservatives used:	<u>Yes</u> / No*							
11. Date Rec. at Lab:	<u>12/11/97</u>							
12. Time Rec. at Lab:	<u>1455</u>							
13. Temp Rec. at Lab:	<u>9°C</u>							

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

9712732

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

Chain of Custody

PROJECT No. **360014013**

Facility No. **FORMER DORR OLIVER SITE**

Facility Address: **2901 GLASS COCK ST OAKLAND CA**

Billing Reference Number: **081**

CLIENT engineer: **DENNIS BURAN**

PACIFIC Point of Contact: **ANDREW LEAUE**

Sampler: **PEDRO REYES**

Laboratory Name: **SEQUOIA**

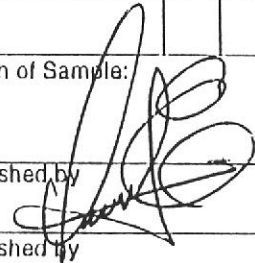
Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOG (EPA 624/ 8240)	SVOC (EPA 627/ 8270)	HVOC (EPA 601/ 8010)	Comments
X 1 MW1	5	40ml / 1L	HCS / UP	W	G	12-11-97	10:20	X							FUEL FINGERPRINT AS DIESEL & MOTOR OIL w/ SILICA GEL CLEANUP
X 2 MW2							10:40								
X 3 MW3							9:10								
X 4 MW4							9:25								
X 5 MW6							10:00								
X 6 MW7							8:50								
X 7 MW8							9:15								

Condition of Sample:


Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by: 

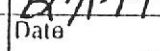
Date: **12-11-97** Time: **14:55**

Received by: 

Date: / Time: /

2025 Gateway Place #440 San Jose, CA 95110

Priority Rush (1 day)

Relinquished by: 

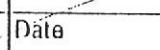
Date: / Time: /

Received by: 

Date: / Time: /

820 Contra Costa Blvd. #209 Pleasant Hill, CA 94523

Rush (2 days)

Relinquished by: 

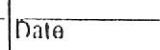
Date: / Time: /

Received by: 

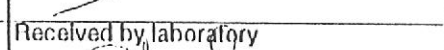
Date: / Time: /

25725 Jeronlmo Rd. #576C Mission Viejo, CA 92622

Expedited (5 days)

Relinquished by: 

Date: / Time: /

Received by: 

Date: / Time: /

4020 148th Ave NE #B

Standard (10 days)

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 3600V42A LOCATION: 2601 Glyncoch St DATE: 12-11-97
 CLIENT/STATION NO.: FORMER OLIVER SITE FIELD TECHNICIAN: RE DAY OF WEEK: THU

PROBE TYPE/ID No. _____
 Oil/Water IF/ _____
 H₂O 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)	Fresh	Weathered	Gas	Oil	VISCOSITY			LIQUID REMOVED (gallons) SPH / H ₂ O
																	Light	Medium	Heavy	
	Mw1	8:20	-	-	-	-		19.80	710 710	730 730										
	Mw2	8:23	-	-	-	-		19.75	568 568	594 594										
	Mw3	8:00	-	-	-	-		19.80	479 470	505 605										
	Mw4	8:09	-	-	-	-		19.70	575 375	610 610										
	Mw5							Destroyed												
	Mw6	8:17	-	-	-	-		19.50	850 850	890 890										
	Mw7	8:05	-	-	-	-		17.75	345 345	375 375										
	Mw8	8:13	-	-	-	-		17.70	700 700	771 471										

Comments: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 360C1928 LOCATION: 29010/14000 5/ WELL ID #: MW-1

CLIENT/STATION No.: FORMER COPPER MINE FIELD TECHNICIAN: REDUC POZ

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 980 - DTW 7-10 = 12.7 x Gal/Linear Foot .17 = 2.15 x Casings 3 = Purge 6.47

DATE PURGED: 12-11-97 START: 1000 END (2400 hr): _____ PURGED BY: VE
 DATE SAMPLED: 12-11-97 START: _____ END (2400 hr): _____ SAMPLED BY: VE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:11	2	7.52	1680	60.8	Brown	Heavy	Mod
10:14	4	7.50	1650	60.1	Brown	Heavy	Mod
10:17	6	7.45	1690	61.2	Brown	Heavy	Mod

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D.

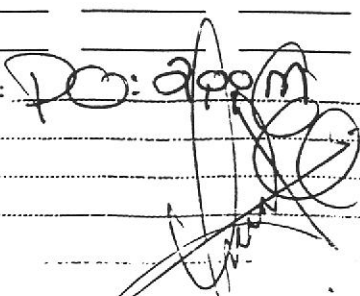
Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: 15 Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D.

Bailer: 153
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-1</u>	<u>12-11-97</u>	<u>10:20</u>	<u>3</u>	<u>40ml</u>	<u>LD</u>	<u>HCC</u>	<u>TPH, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TPHm</u>

MARKS:

PO: 200M


1.0 ml sample on water

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 2901 Colbyway St WELL ID #: MW-2

CLIENT/STATION No.: Former Dorrville site FIELD TECHNICIAN: Reda 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
 2 _____
 3 _____
 4 _____
 4.5 _____
 5 _____
 6 _____
 8 _____

GAL/

LINEAR FT.
 0.17
 0.38
 0.66
 0.83
 1.02
 1.5
 2.6

SAMPLE TYPE

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

TD 19.75 - DTW 5.03 = 14.72 x Gal/Linear Foot .17 = 2.50 x Number of Casings 3 = Calculated Purge 7.50

DATE PURGED: 12-11-97 START: 10:30 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 12-11-97 START: 10:40 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:33</u>	<u>2.5</u>	<u>7.74</u>	<u>2340</u>	<u>61.0</u>	<u>Bwn</u>	<u>Med</u>	<u>Med</u>
<u>10:36</u>	<u>5</u>	<u>7.78</u>	<u>2220</u>	<u>60.9</u>	<u>Bwn</u>	<u>Med</u>	<u>Med</u>
<u>10:39</u>	<u>7.5</u>	<u>7.71</u>	<u>2360</u>	<u>62.1</u>	<u>Bwn</u>	<u>Med</u>	<u>Med</u>

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D.

Bailer: _____
 Centrifugal Pump: 15
 Other: _____

SAMPLING EQUIPMENT/I.D.

Bailer: 15-10
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-2</u>	<u>12-11-97</u>	<u>10:40</u>	<u>3</u>	<u>10ml</u>	<u>WA</u>	<u>HCC</u>	<u>TPH, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TPHm</u>

MARKS: DO: 1.0 ppm


FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29010/14/COOH st WELL ID #: MW-3

CLIENT/STATION No.: FORMER DUNNIE SITE FIELD TECHNICIAN: DEBRA POIZ

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

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

GAL/ LINEAR FT.

SAMPLE TYPE

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

TD 1980 DTW 470 = 15.1 Gal/Linear Foot .17 = 2.56 x Number of Casings 3 = Calculated Purge 770

DATE PURGED: 12-11-97 START: 8:57 END (2400 hr): _____ PURGED BY: DE
 DATE SAMPLED: 12-11-97 START: 9:10 END (2400 hr): _____ SAMPLED BY: DE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:00	2.5	7.07	1020	59.2	Cloudy	Mod	Faint
9:03	5	7.03	1590	58.9	Cloudy	Mod	Faint
9:06	7.5	6.95	1040	60.2	Cloudy	Mod	Faint

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.

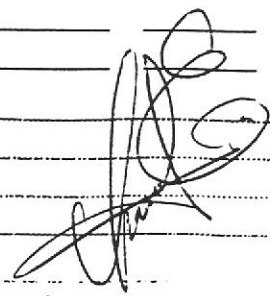
Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: 15 Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D.

Bailer: 15-13
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-3</u>	<u>12-11-97</u>	<u>9:10</u>	<u>3</u>	<u>40ml</u>	<u>LD</u>	<u>HCC</u>	<u>TPH, BTEX, MTBE</u>
			<u>3</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TPH mo</u>

REMARKS: D



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29013/14004 5/2 WELL ID #: MW-4
 CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: VEDIC POIZ

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 5.75 = 13.95 Gal/Linear Foot .17 2.37 x Number of Casings 3 = Calculated Purge 7.11

DATE PURGED: 12-11-97 START: 9:15 END (2400 hr): _____ PURGED BY: VE
 DATE SAMPLED: 12-11-97 START: 9:25 END (2400 hr): _____ SAMPLED BY: VE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:18</u>	<u>2.25</u>	<u>7.32</u>	<u>1130</u>	<u>68.7</u>	<u>cloudy w/od</u>	<u>none</u>	<u>none</u>
<u>9:21</u>	<u>4.5</u>	<u>7.28</u>	<u>1120</u>	<u>57.9</u>	<u>cloudy w/od</u>	<u>none</u>	<u>none</u>
<u>9:24</u>	<u>6.75</u>	<u>7.30</u>	<u>1140</u>	<u>59.0</u>	<u>cloudy w/od</u>	<u>none</u>	<u>none</u>

Pumped dry Yes No

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

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D.

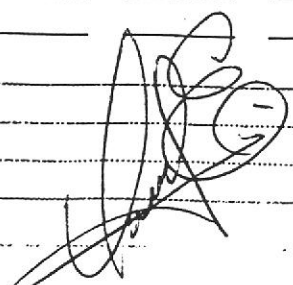
Bailer: _____
 Centrifugal Pump: 15
 Other: _____
 Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D.

Bailer: 15-16
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-4</u>	<u>12-11-97</u>	<u>9:25</u>	<u>3</u>	<u>10ml</u>	<u>UBA</u>	<u>HCC</u>	<u>TPH, TDS, TSS, TPC</u>
			<u>2</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TDS, TSS, TPC</u>

REMARKS: _____



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 2901 Colbycoy st WELL ID #: MW-6

CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: REDON POIZ

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
 2 _____
 3 _____
 4 _____
 4.5 _____
 5 _____
 6 _____
 8 _____

GAL/

LINEAR FT.
 0.17
 0.38
 0.66
 0.83
 1.02
 1.5
 2.6

SAMPLE TYPE

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

TD 19.50 - DTW 8.50 = 11 x Gal/Linear Foot .17 = 187 x Number of Casings 3 = Calculated Purge 501

DATE PURGED: 12-11-97 START: 9:49 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 12-11-97 START: 10:00 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:52</u>	<u>1.75</u>	<u>6.97</u>	<u>1780</u>	<u>59.9</u>	<u>BW</u>	<u>HEAVY</u>	<u>Med</u>
<u>9:55</u>	<u>3.5</u>	<u>6.91</u>	<u>1730</u>	<u>59.1</u>	<u>BW</u>	<u>HEAVY</u>	<u>Med</u>
<u>9:58</u>	<u>5.05</u>	<u>6.89</u>	<u>1740</u>	<u>60.8</u>	<u>BW</u>	<u>HEAVY</u>	<u>Med</u>

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

PURGING EQUIPMENT/I.D. #
 Bailer: _____
 Centrifugal Pump: 15
 Other: _____

SAMPLING EQUIPMENT/I.D. #
 Bailer: 157
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-6</u>	<u>12-11-97</u>	<u>1000</u>	<u>3</u>	<u>10ml</u>	<u>WBA</u>	<u>HCC</u>	<u>TPH G, 1, 3, 5, 10, 15, 30</u>
			<u>3</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH D, TPH M</u>

MARKS: DO NOT COMPLIANT SHEED ON TOP OF WATER

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 2901 Blywood St WELL ID #: MW-7

CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: REDUC POZ

WELL INFORMATION

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

CASING DIAMETER

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

GAL/ LINEAR FT.

SAMPLE TYPE

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

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

TD 17.75 - DTW 3.46 = 14.3 x Gal/Linear Foot .17 = 2.43 x Number of Casings 3 = Calculated Purge 7.29

DATE PURGED: 12-11-97 START: 8:40 END (2400 hr): _____ PURGED BY: VE
 DATE SAMPLED: 12-11-97 START: 8:50 END (2400 hr): _____ SAMPLED BY: VE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>8:43</u>	<u>2.5</u>	<u>7.02</u>	<u>1740</u>	<u>60.8</u>	<u>cloudy</u>	<u>mod</u>	<u>none</u>
<u>8:46</u>	<u>5</u>	<u>6.98</u>	<u>1690</u>	<u>60.6</u>	<u>cloudy</u>	<u>mod</u>	<u>none</u>
<u>8:49</u>	<u>7.5</u>	<u>6.91</u>	<u>1740</u>	<u>61.2</u>	<u>cloudy</u>	<u>mod</u>	<u>none</u>

Pumped dry Yes / No

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

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

- Bailer: _____
- Centrifugal Pump: 15
- Other: _____
- Airlift Pump: _____
- Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

- Bailer: 152
- Dedicated: _____
- Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-7</u>	<u>12-11-97</u>	<u>8:50</u>	<u>3</u>	<u>40ml</u>	<u>UBA</u>	<u>HCC</u>	<u>TPHG / BTEX / MTBE</u>
			<u>3</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPHD, TPHMO</u>

EMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29010/140004 st WELL ID #: MW-8

CLIENT/STATION No.: Farmer 2 Dorrville FIELD TECHNICIAN: Reda Poiz

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

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

GAL/ LINEAR FT.

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

TD 1770 - DTW 720 = 10.5 Gal/Linear Foot .17 = 1.98 x Number of Casings 3 = Calculated Purge 5.95

DATE PURGED: 12-11-97 START: 9:32 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 12-11-97 START: 9:45 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:35</u>	<u>1.75</u>	<u>7.18</u>	<u>3460</u>	<u>59.5</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>None</u>
<u>9:38</u>	<u>3.5</u>	<u>7.25</u>	<u>3440</u>	<u>58.9</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>None</u>
<u>9:41</u>	<u>5.25</u>	<u>7.23</u>	<u>3510</u>	<u>60.1</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>None</u>

Pumped dry Yes / No

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

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

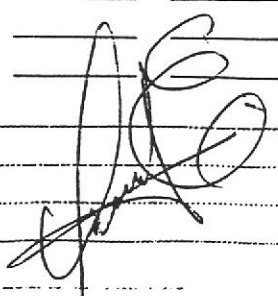
Bailer: _____ Airlift Pump: _____
 Centrifugal Pump: 15 Dedicated: _____
 Other: _____

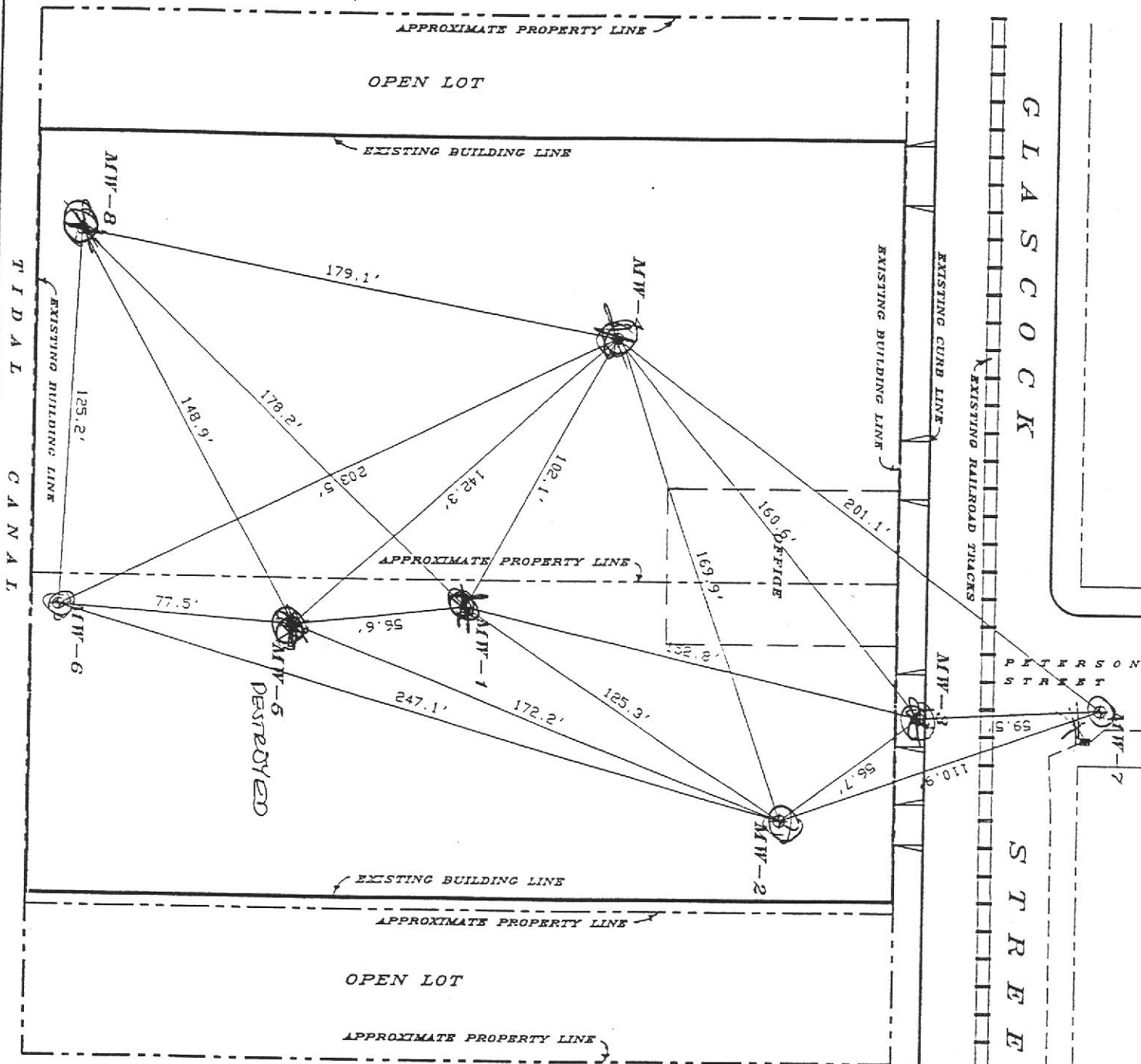
SAMPLING EQUIPMENT/I.D. #

Bailer: 15-15
 Dedicated: _____
 Other: _____

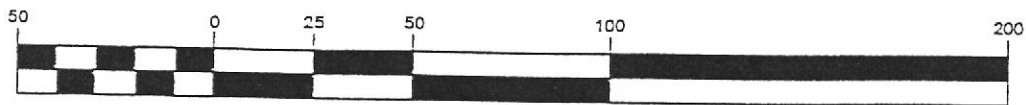
SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW8</u>	<u>12-11-97</u>	<u>9:45</u>	<u>3</u>	<u>40ml</u>	<u>lba</u>	<u>HCC</u>	<u>TPH, TDS, TSS, TPC, TMB</u>
			<u>2</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TDS, TPC, TMB</u>

MARKS: _____

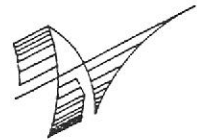




GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



DATE OF SURVEY: JANUARY 17, 1998

RON ARCHER CIVIL ENGINEER INC. * 4133 MOHR AVE. SUITE E * PLEASANTON CA. 94566

JOB NO. 2364

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 3600V2A LOCATION: 2601 Glycock St DATE: 12-11-97
 CLIENT/STATION NO.: FORMER OLIVER SITE FIELD TECHNICIAN: PE DAY OF WEEK: THU

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

D/W 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)	Fresh	Weathered	Gas	Oil	VISCOSITY			LIQUID REMOVED (gallons)				
																	Light	Medium	Heavy	SPH	H ₂ O			
	Mw1	8:20	-	-	-	-	-	19.80	710 710	730 730														
	Mw2	8:23	-	-	-	-	-	19.75	568 563	598 594														
	Mw3	8:00	-	-	-	-	-	19.80	470 470	505 505														
	Mw4	8:09	-	-	-	-	-	19.70	575 575	610 610														
	Mw5							DESTROYED																
	Mw6	8:17	-	-	-	-	-	19.50	850 850	890 890														
	Mw7	8:05	-	-	-	-	-	17.75	345 345	375 375														
	Mw8	8:13	-	-	-	-	-	17.70	700 700	740 740														

Comments: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29013/14000 st WELL ID #: MW-1
 CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: DEBORA POIZ

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

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

GAL/

LINEAR FT.

SAMPLE TYPE

Groundwater
 Duplicate
 Extraction well
 Trip blank
 Field blank
 Equipment blank
 Other; _____

TD 1980 - DTW 7.10 = 12.7 Gal/Linear Foot .17 = 2.15 x Number of Casings 3 = Calculated Purge 6.47

DATE PURGED: 12-11-97 START: 1000 END (2400 hr): _____ PURGED BY: DE

DATE SAMPLED: 12-11-97 START: _____ END (2400 hr): _____ SAMPLED BY: DE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:11	2	7.52	1680	60.8	Brown	Heavy	Mod
10:14	4	7.50	1650	60.1	Brown	Heavy	Mod
10:17	6	7.45	1690	61.2	Brown	Heavy	Mod
Pumped dry Yes <input checked="" type="checkbox"/>					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. #			
<input type="checkbox"/> Bailer: _____ <input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u> <input type="checkbox"/> Other: _____				<input type="checkbox"/> Airlift Pump: _____ <input type="checkbox"/> Dedicated: _____ <input type="checkbox"/> Other: _____			
				SAMPLING EQUIPMENT/I.D. #			
				<input checked="" type="checkbox"/> Bailer: <u>155</u>			
				<input type="checkbox"/> Dedicated: _____			
				<input type="checkbox"/> Other: _____			

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-1</u>	<u>12-11-97</u>	<u>10:20</u>	<u>3</u>	<u>10ml</u>	<u>lba</u>	<u>HCC</u>	<u>TPH, BTEX, MTBE</u>
			<u>3</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TPHE</u>

MARKS: DO: dipom

light sheen on water.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29010/140004 st WELL ID #: MW-2

CLIENT/STATION No.: FORMER DORR/DORR SITE FIELD TECHNICIAN: DEBRA POIZ

WELL INFORMATION	CASING DIAMETER	GAL/ LINEAR FT.	SAMPLE TYPE
Depth to Liquid: _____ TOB _____ TOC _____	<input checked="" type="checkbox"/> 2 _____ 0.17		<input checked="" type="checkbox"/> Groundwater
Depth to water: _____ TOB _____ TOC _____	<input type="checkbox"/> 3 _____ 0.38		<input type="checkbox"/> Duplicate
Total depth: _____ TOB _____ TOC _____	<input type="checkbox"/> 4 _____ 0.66		<input type="checkbox"/> Extraction well
Date: _____ Time (2400): _____	<input type="checkbox"/> 4.5 _____ 0.83		<input type="checkbox"/> Trip blank
Probe Type and I.D. #	<input type="checkbox"/> 5 _____ 1.02		<input type="checkbox"/> Field blank
<input type="checkbox"/> Oil/Water interface _____	<input type="checkbox"/> 6 _____ 1.5		<input type="checkbox"/> Equipment blank
<input type="checkbox"/> Electronic indicator _____	<input type="checkbox"/> 8 _____ 2.6		<input type="checkbox"/> Other: _____
<input type="checkbox"/> Other: _____			

TD 19.25 - DTW 5.03 = 14.12 Gal/Linear Foot .17 = 2.40 x Casings 3 = Calculated = Purge 7.00

DATE PURGED: 12-11-97 START: 10:30 END (2400 hr): _____ PURGED BY: DE
 DATE SAMPLED: 12-11-97 START: 10:40 END (2400 hr): _____ SAMPLED BY: DE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:33</u>	<u>2.5</u>	<u>7.74</u>	<u>2340</u>	<u>61.0</u>	<u>BRN</u>	<u>Med</u>	<u>Med</u>
<u>10:36</u>	<u>5</u>	<u>7.78</u>	<u>2220</u>	<u>60.9</u>	<u>BRN</u>	<u>Med</u>	<u>Med</u>
<u>10:39</u>	<u>7.5</u>	<u>7.71</u>	<u>2360</u>	<u>62.1</u>	<u>BRN</u>	<u>Med</u>	<u>Med</u>

Pumped dry Yes NO

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

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. # <input type="checkbox"/> Bailer: _____ <input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u> <input type="checkbox"/> Other: _____	SAMPLING EQUIPMENT/I.D. # <input checked="" type="checkbox"/> Bailer: <u>15-10</u> <input type="checkbox"/> Dedicated: _____ <input type="checkbox"/> Other: _____
--	---

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW2</u>	<u>12-11-97</u>	<u>10:40</u>	<u>3</u>	<u>40ml</u>	<u>lba</u>	<u>HCC</u>	<u>TPH, TDS, TSS, TPC, TPE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NO</u>	<u>TPH, TDS, TSS, TPC, TPE</u>

MARKS: DO: 1.0 ppm

[Signature]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29013/140004 st WELL ID #: MW-3

CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: VEDRO POIZ

<u>WELL INFORMATION</u>			<u>CASING</u>		<u>GAL/</u>		<u>SAMPLE TYPE</u>	
Depth to Liquid: _____	TOB _____	TOC _____	<u>DIAMETER</u>	_____	_____	_____	<input checked="" type="checkbox"/> Groundwater	
Depth to water: _____	TOB _____	TOC _____	<input checked="" type="checkbox"/> 2	_____	_____	0.17	<input type="checkbox"/> Duplicate	
Total depth: _____	TOB _____	TOC _____	<input type="checkbox"/> 3	_____	_____	0.38	<input type="checkbox"/> Extraction well	
Date: _____	Time (2400): _____		<input type="checkbox"/> 4	_____	_____	0.66	<input type="checkbox"/> Trip blank	
			<input type="checkbox"/> 4.5	_____	_____	0.83	<input type="checkbox"/> Field blank	
Probe Type	<input type="checkbox"/> Oil/Water interface		<input type="checkbox"/> 5	_____	_____	1.02	<input type="checkbox"/> Equipment blank	
and	<input type="checkbox"/> Electronic indicator		<input type="checkbox"/> 6	_____	_____	1.5	<input type="checkbox"/> Other; _____	
I.D. #	<input type="checkbox"/> Other; _____		<input type="checkbox"/> 8	_____	_____	2.6		

TD 1980 DTW 4.70 = 15.1 x Foot .17 = 2.56 x Casings 3 = Purge 7.70

DATE PURGED: 12-11-97 START: 8:57 END (2400 hr): _____ PURGED BY: VE
 DATE SAMPLED: 12-11-97 START: 9:10 END (2400 hr): _____ SAMPLED BY: VE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:00</u>	<u>2.5</u>	<u>7.07</u>	<u>1020</u>	<u>59.2</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>
<u>9:03</u>	<u>5</u>	<u>7.03</u>	<u>1590</u>	<u>58.9</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>
<u>9:06</u>	<u>7.5</u>	<u>6.95</u>	<u>1040</u>	<u>60.2</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Faint</u>

Pumped dry Yes / NO

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

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

<u>PURGING EQUIPMENT/I.D. #</u>		<u>SAMPLING EQUIPMENT/I.D. #</u>	
<input type="checkbox"/> Bailer: _____	<input type="checkbox"/> Airlift Pump: _____	<input checked="" type="checkbox"/> Bailer: <u>15-13</u>	
<input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u>	<input type="checkbox"/> Dedicated: _____	<input type="checkbox"/> Dedicated: _____	
<input type="checkbox"/> Other: _____		<input type="checkbox"/> Other: _____	

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-3</u>	<u>12-11-97</u>	<u>9:10</u>	<u>3</u>	<u>10ml</u>	<u>lba</u>	<u>HCC</u>	<u>TPH G / BTEX / MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NO</u>	<u>TPH D, TPH M</u>

REMARKS: D

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 2901 Colman St WELL ID #: MW-1

CLIENT/STATION No.: FORMER DORRIDGE FIELD TECHNICIAN: REDO POZ

<u>WELL INFORMATION</u>			<u>CASING</u>		<u>GAL/</u>	<u>SAMPLE TYPE</u>
Depth to Liquid: _____	TOB _____	TOC _____	<u>DIAMETER</u>	<u>LINEAR FT.</u>		
Depth to water: _____	TOB _____	TOC _____	<input checked="" type="checkbox"/> 2 _____	0.17	<input checked="" type="checkbox"/> Groundwater	
Total depth: _____	TOB _____	TOC _____	<input type="checkbox"/> 3 _____	0.38	<input type="checkbox"/> Duplicate	
Date: _____	Time (2400): _____		<input type="checkbox"/> 4 _____	0.66	<input type="checkbox"/> Extraction well	
			<input type="checkbox"/> 4.5 _____	0.83	<input type="checkbox"/> Trip blank	
Probe Type	<input type="checkbox"/> Oil/Water interface _____		<input type="checkbox"/> 5 _____	1.02	<input type="checkbox"/> Field blank	
and	<input type="checkbox"/> Electronic indicator _____		<input type="checkbox"/> 6 _____	1.5	<input type="checkbox"/> Equipment blank	
I.D. #	<input type="checkbox"/> Other: _____		<input type="checkbox"/> 8 _____	2.6	<input type="checkbox"/> Other: _____	

TD 1970 - DTW 5.75 = 13.95 Gal/Linear x Foot .17 2.37 Number of 3 Casings = Calculated Purge 7.11

DATE PURGED: 12-11-97 START: 9:15 END (2400 hr): _____ PURGED BY: RE

DATE SAMPLED: 12-11-97 START: 9:25 END (2400 hr): _____ SAMPLED BY: RE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:18	2.26	8.32	1130	68.7	Cloudy	Mod	None
9:21	4.5	7.28	1120	57.9	Cloudy	Mod	None
9:24	6.75	7.30	1110	59.0	Cloudy	Mod	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: 15-16

Dedicated: _____

Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-1</u>	<u>12-11-97</u>	<u>9:25</u>	<u>3</u>	<u>10ml</u>	<u>UBA</u>	<u>HCC</u>	<u>TPH, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NO</u>	<u>TPH, TPHms</u>

REMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29016/140004 st WELL ID #: MW-6

CLIENT/STATION No.: FORMER DORRNER SITE FIELD TECHNICIAN: REDUC POZ

WELL INFORMATION			CASING		GAL/		SAMPLE TYPE	
Depth to Liquid: _____	TOB _____	TOC _____	DIAMETER		LINEAR FT.			
Depth to water: _____	TOB _____	TOC _____	<input checked="" type="checkbox"/> 2 _____	_____	0.17	<input checked="" type="checkbox"/> Groundwater		
Total depth: _____	TOB _____	TOC _____	<input type="checkbox"/> 3 _____	_____	0.38	<input type="checkbox"/> Duplicate		
Date: _____	Time (2400): _____		<input type="checkbox"/> 4 _____	_____	0.66	<input type="checkbox"/> Extraction well		
Probe Type and I.D. #	<input type="checkbox"/> Oil/Water interface _____		<input type="checkbox"/> 4.5 _____	_____	0.83	<input type="checkbox"/> Trip blank		
	<input type="checkbox"/> Electronic indicator _____		<input type="checkbox"/> 5 _____	_____	1.02	<input type="checkbox"/> Field blank		
	<input type="checkbox"/> Other: _____		<input type="checkbox"/> 6 _____	_____	1.5	<input type="checkbox"/> Equipment blank		
			<input type="checkbox"/> 8 _____	_____	2.6	<input type="checkbox"/> Other: _____		

TD 19.50 - DTW 8.50 = 11 Gal/Linear x Foot .17 = 1.87 Number of Casings 3 Calculated = Purge 5.01

DATE PURGED: 12-11-97 START: 9:49 END (2400 hr): _____ PURGED BY: VE
 DATE SAMPLED: 12-11-97 START: 10:00 END (2400 hr): _____ SAMPLED BY: VE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:52</u>	<u>1.75</u>	<u>6.97</u>	<u>1780</u>	<u>59.9</u>	<u>BW</u>	<u>HEAVY</u>	<u>Ucd</u>
<u>9:55</u>	<u>3.5</u>	<u>6.91</u>	<u>1730</u>	<u>59.1</u>	<u>BW</u>	<u>HEAVY</u>	<u>Ucd</u>
<u>9:58</u>	<u>5.25</u>	<u>6.89</u>	<u>1740</u>	<u>60.8</u>	<u>BW</u>	<u>HEAVY</u>	<u>Ucd</u>

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

Bailer: _____ Airlift Pump: _____ Centrifugal Pump: 15 Dedicated: _____ Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: 15-7 Dedicated: _____ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-6</u>	<u>12-11-97</u>	<u>1000</u>	<u>3</u>	<u>10ml</u>	<u>UBA</u>	<u>HCC</u>	<u>TPH, BTEX, MIBZ</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NO</u>	<u>TPH, TPHm</u>

REMARKS: DO NOT DRINK! SHEED ON TOP OF WATER

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600/1928 LOCATION: 29016/140003 st WELL ID #: Mw-7

CLIENT/STATION No.: FORMER DORRIVER SITE FIELD TECHNICIAN: REDON POIZ

WELL INFORMATION			CASING		GAL/ LINEAR FT.		SAMPLE TYPE	
Depth to Liquid:	TOB _____	TOC _____						
Depth to water:	TOB _____	TOC _____	<input checked="" type="checkbox"/>	2 _____	0.17	<input checked="" type="checkbox"/>	Groundwater	
Total depth:	TOB _____	TOC _____	<input type="checkbox"/>	3 _____	0.38	<input type="checkbox"/>	Duplicate	
Date:	Time (2400): _____		<input type="checkbox"/>	4 _____	0.66	<input type="checkbox"/>	Extraction well	
Probe Type and I.D. #	<input type="checkbox"/> Oil/Water interface _____		<input type="checkbox"/>	4.5 _____	0.83	<input type="checkbox"/>	Trip blank	
	<input type="checkbox"/> Electronic indicator _____		<input type="checkbox"/>	5 _____	1.02	<input type="checkbox"/>	Field blank	
	<input type="checkbox"/> Other; _____		<input type="checkbox"/>	6 _____	1.5	<input type="checkbox"/>	Equipment blank	
			<input type="checkbox"/>	8 _____	2.6	<input type="checkbox"/>	Other; _____	

TD 17.75 - DTW 3.16 = 14.3 x Gal/Linear Foot .17 = 2.43 x Number of Casings 3 = Calculated Purge 7.29

DATE PURGED:	<u>12-11-97</u>	START:	<u>8:40</u>	END (2400 hr):	<u> </u>	PURGED BY:	<u>RE</u>
DATE SAMPLED:	<u>12-11-97</u>	START:	<u>8:50</u>	END (2400 hr):	<u> </u>	SAMPLED BY:	<u>RE</u>

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>8:43</u>	<u>2.5</u>	<u>7.02</u>	<u>1710</u>	<u>60.8</u>	<u>cloudy</u>	<u>mod</u>	<u>none</u>
<u>8:46</u>	<u>5</u>	<u>6.98</u>	<u>1090</u>	<u>60.0</u>	<u>cloudy</u>	<u>mod</u>	<u>none</u>
<u>8:49</u>	<u>7.5</u>	<u>6.91</u>	<u>1710</u>	<u>61.2</u>	<u>cloudy</u>	<u>mod</u>	<u>none</u>

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____	<table border="0" style="width: 100%; font-size: small;"> <tr> <td style="width: 33%;">Cobalt 0-100 Clear Cloudy Yellow Brown</td> <td style="width: 33%;">NTU 0-200 Heavy Moderate Light Trace</td> <td style="width: 33%;">Strong Moderate Faint None</td> </tr> </table>	Cobalt 0-100 Clear Cloudy Yellow Brown	NTU 0-200 Heavy Moderate Light Trace	Strong Moderate Faint None
Cobalt 0-100 Clear Cloudy Yellow Brown	NTU 0-200 Heavy Moderate Light Trace	Strong Moderate Faint None		
PURGING EQUIPMENT/I.D. # <input type="checkbox"/> Bailer: _____ <input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u> <input type="checkbox"/> Other: _____	SAMPLING EQUIPMENT/I.D. # <input checked="" type="checkbox"/> Bailer: <u>152</u> <input type="checkbox"/> Dedicated: _____ <input type="checkbox"/> Other: _____			

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>Mw7</u>	<u>12/11/97</u>	<u>8:50</u>	<u>3</u>	<u>10ml</u>	<u>lba</u>	<u>HCC</u>	<u>TPH, BTEX, MTBE</u>
			<u>3</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TPHMO</u>

REMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29010/440013 st WELL ID #: MW-8

CLIENT/STATION No.: FORMER DORR WASTE FIELD TECHNICIAN: PEPE POPE

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

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

GAL/LINEAR FT.

SAMPLE TYPE

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

TD 1740 - DTW 720 = 10.5 Gal/Linear Foot .17 = 1.78 x Casings 3 = Purge 2.35

DATE PURGED: 12-11-97 START: 9:32 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 12-11-97 START: 9:15 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:35</u>	<u>1.75</u>	<u>7.18</u>	<u>3460</u>	<u>59.5</u>	<u>Cloudy</u>	<u>HEAVY</u>	<u>None</u>
<u>9:38</u>	<u>3.5</u>	<u>7.25</u>	<u>3440</u>	<u>58.9</u>	<u>Cloudy</u>	<u>HEAVY</u>	<u>None</u>
<u>9:41</u>	<u>5.25</u>	<u>7.23</u>	<u>3510</u>	<u>60.1</u>	<u>Cloudy</u>	<u>HEAVY</u>	<u>None</u>

Pumped dry Yes NO

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

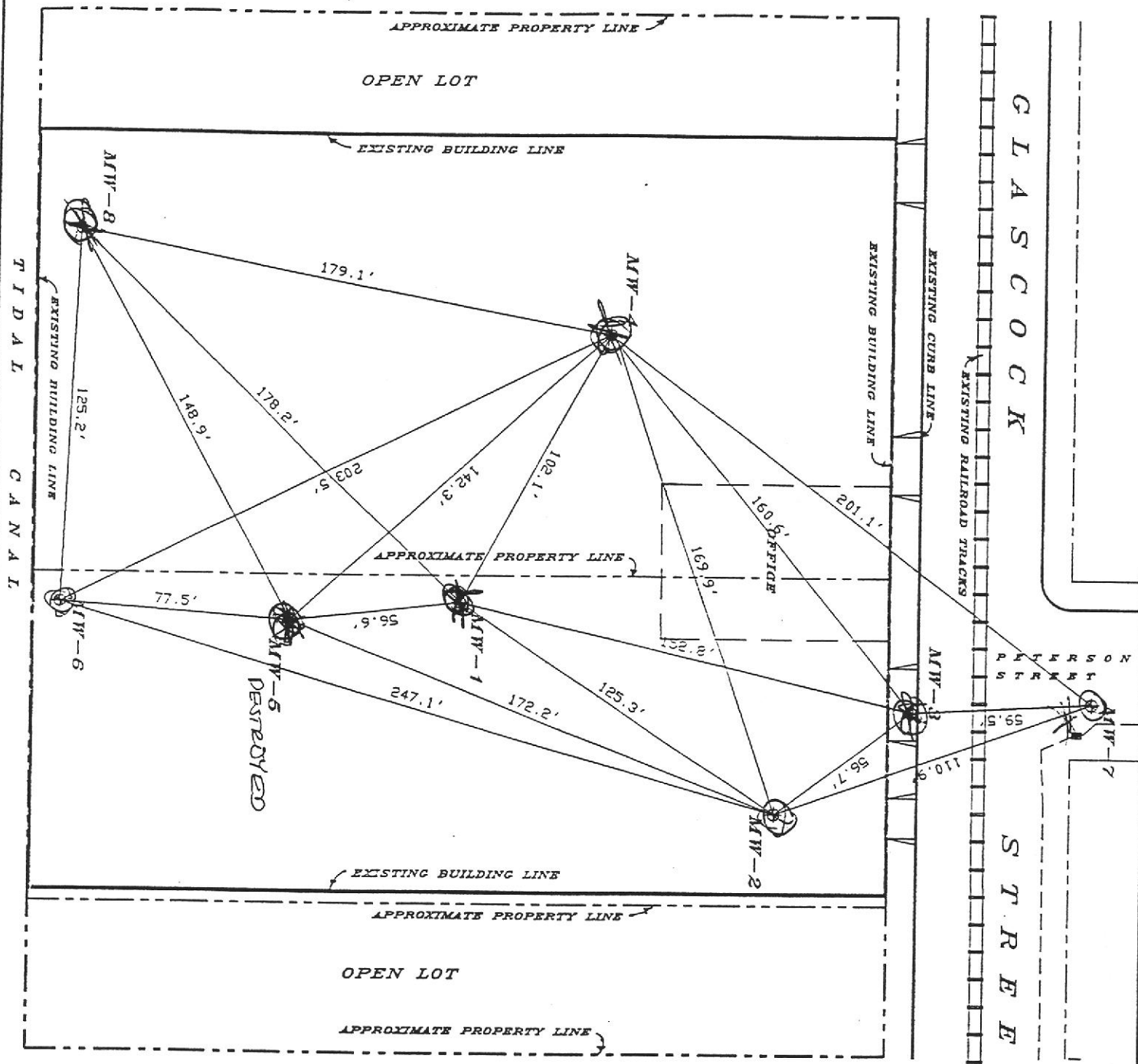
Bailer: _____
 Centrifugal Pump: 15
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: 15-15
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW8</u>	<u>12-11-97</u>	<u>9:45</u>	<u>3</u>	<u>10ml</u>	<u>10A</u>	<u>HCC</u>	<u>TPH, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>AMB</u>	<u>NO</u>	<u>TPH, TPH_{MO}</u>

MARKS: _____

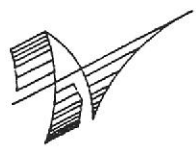


GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.

DATE OF SURVEY: JANUARY 17, 1996



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. **360014013**

Facility No. **FORMER DORR-OLIVER SITE**

Facility Address: **2901 GLASSCOCK ST OAKLAND CA**

Billing Reference Number: **081**

CLIENT engineer: **DENNIS BURAN**

PACIFIC Point of Contact: **ANDREW LEHANE**

Sampler: **KAROL ROY**

Laboratory Name: **SEQUOIA**

Comments:

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dislvd. Metals	VOC (EPA 824)	SVOC (EPA 827)	HVOC (EPA 601/ 8010)	FOET Finger print 1st 10 DIESEL & Hydrocarbons
MW1	5	40ml / 1L	HG / PP	W	G	12-11-97	10:20	X							X
MW2							10:40								
MW3							9:10								
MW4							9:25								
MW6							000								
MW7							8:50								
MW8							9:15								X

FOET Finger print
 AS DIESEL &
 Motor oil w/
 silica gel
 cleanup

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by:

Date: **12-11-97** Time: **14:55**

Received by: _____ Date: _____ Time: _____

Pacific Environmental Group

2025 Gateway Place #440 San Jose, CA 95110

Priority Rush (1 day)

Relinquished by: _____

Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

820 Contra Costa Blvd. #209 Pleasant Hill, CA 94523

Rush (2 days)

Relinquished by: _____

Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

25725 Jeronimo Rd. #578C Mission Viejo, CA 92622

Expedited (5 days)

Relinquished by: _____

Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

4020 148th Ave NE #B1

Standard (10 days)

Relinquished by: _____

Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by laboratory: _____ Date: **12/11/97** Time: **14:55**