



ENVIRONMENTAL PROTECTION

59 DEC -7 AM 10:12

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#1138

Date: December 3, 1999
Project: 360-014.2B

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

*Need to include D.O. & some
evaluation of the results of
ORC slurry injection + socks.*

We have enclosed:

Copies	Description
1	Quarterly Report - Third Quarter 1999, Former Dorr-Oliver Site 2901 Glascok Street, Oakland, California

For your: Use
 Approval
 Review
 Information

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

Diane Sarmiento
Senior Engineer



1921 Ringwood Avenue
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December 1, 1999
Project 360-014.2B

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

Re: **Quarterly Report - Third 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 third 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 September 13, 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 exception of MW-8 (0.17 foot rise), all monitoring wells exhibited a decrease (0.13 to 0.56 feet) in groundwater elevation (Table 1) compared with the prior quarter. Groundwater elevations were within the historic range for the site. The groundwater flow direction continues to be to the south/southwest (toward the Oakland Estuary at a gradient of approximately 0.012.

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 wells this quarter, ranging from 80 to 523 micrograms per liter ($\mu\text{g/L}$) (see Table 2). Benzene was detected in three wells, MW-1, MW-2, and MW-6 with concentrations ranging from 1.28 to 4.74 $\mu\text{g/L}$. Toluene was reported at concentrations of 1.24 $\mu\text{g/l}$ and 3.98 $\mu\text{g/l}$ in groundwater from wells MW-6 and MW-2, respectively. Ethyl-benzene was not detected in any of the groundwater samples. Xylenes were reported at concentration of 1.22 $\mu\text{g/l}$ in the sample from MW-2, and 3.64 $\mu\text{g/l}$ in the sample from MW-6. Detectable concentrations of MtBE were reported in groundwater samples from Wells MW-3, MW-6, and MW-7 at concentrations of 12.7, 6.2, and 55.3 $\mu\text{g/L}$, respectively. Well MW-7 is an upgradient well located off-site at the intersection of Glascock and Peterson Streets. 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.

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 203 $\mu\text{g/l}$ to 1380 $\mu\text{g/l}$ (0.2 to 1.4 mg/l or parts per million). Concentrations of TEPH-motor oil were reported in Wells MW-2 and MW-6, at concentrations of 617 and 694 $\mu\text{g/L}$, respectively.

ADDITIONAL ACTIVITIES

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. The effectiveness of addition of oxygen will be assessed based on the fourth quarter sampling and analysis results.

CONCLUSIONS

Concentrations of petroleum hydrocarbons in monitoring wells at the site appear to have declined or remained constant 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 at lower concentrations

12/03/99

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for the nearest on-site, downgradient, monitoring well. These results are indicative of an upgradient, offsite source of MtBE.

Sincerely,

IT Corporation



Diane L. Sarmiento
Senior Engineer



Attachments: Table 1 - Groundwater Elevation Data
Table 2 - Groundwater Analytical Data
Figure 1 Goundwater 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

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	
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	
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

Table 1
Groundwater Elevation Data

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)
	03/21/97		5.72	4.15
	06/25/97		6.35	3.52
	09/29/97		6.35	3.52
	12/11/97		4.70	5.17
	03/27/98		5.15	4.72
	06/26/98		6.17	3.70
	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
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
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	NA
	09/13/99		NA	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

Table 1
Groundwater Elevation Data

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		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
	03/31/99		10.18	0.10
	06/17/99		11.05	-0.77
	09/13/99		10.63	-0.35
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
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
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 (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 i	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
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 i	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
	3/31/99	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

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 (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 i	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	
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	
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 --

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 (1) (µg/L)	TEPH as Motor Oil (µg/L)	MtBE (µg/L)
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	
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	

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 (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	?
09/13/99	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

- Chromatogram pattern is not gasoline, but volatile fraction of diesel quantified as gasoline.
- Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C12 range.
- Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in C9 - C24 range.
- Chromatogram pattern is not motor oil, but unidentified hydrocarbons in C16 - C36 range.
- Chromatogram pattern is weathered diesel in C9 - C24 range.
- Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C10.
- Chromatogram pattern is not diesel, but unidentified hydrocarbons in the C9 - C24 range.
- Chromatogram pattern is weathered gasoline.
- Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C8 range.
- Chromatogram pattern is not motor oil, but unidentified hydrocarbons in the C16 to C34 range.
- Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C5.
- Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C12.
- Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C18 - C40 range.
- Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C9 - C40 range.
- Chromatogram pattern is not diesel, but unidentified hydrocarbons in the C9 - C40 range.
- Chromatogram pattern is a mixture of gasoline and unidentified hydrocarbons > C10.
- Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C8.
- Chromatogram pattern is unidentified hydrocarbons in the C9 - C40 range.
- Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C15 - C24 range.

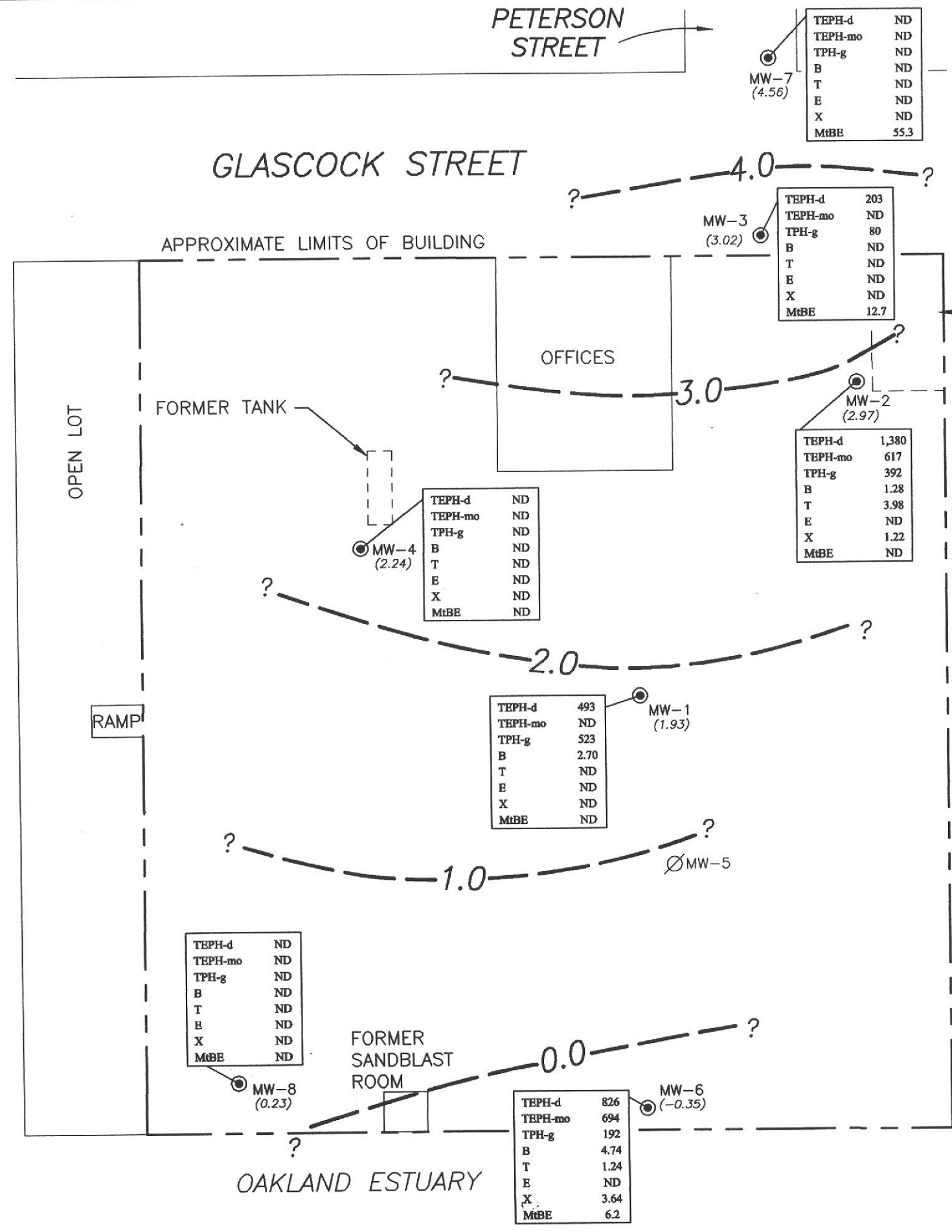
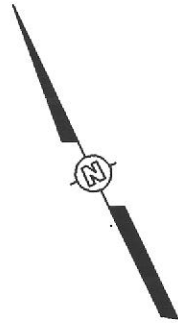
Table 3
Groundwater Analytical Data
 PCBs, Metals, and VOCs

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
	03/27/98	NA	NA	NA	NA	NA	NA	NA
	03/31/99	NA	ND	5.8	1	21	12	ND f
MW-2	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	ND	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
	03/27/98	NA	NA	NA	NA	NA	NA	NA
	03/31/99	NA	ND	ND	0.8	11	11	ND g
MW-3	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	51.2	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
	03/27/98	NA	NA	NA	NA	NA	NA	NA
	03/31/99	NA	ND	ND	ND	5.7	3.2	ND h
MW-4	11/29/95	NA	NA	NA	NA	NA	NA	ND a
	01/18/96	NA	ND	ND	ND	ND	20.5	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
	03/27/98	NA	NA	NA	NA	NA	NA	NA
	03/31/99	NA	ND	ND	ND	6.2	3.7	ND j
MW-5	11/29/95	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	ND	ND	ND	ND	22.6	NA
MW-6	11/29/95	ND	ND	822	107	1,190	851	ND
	01/18/96	NA	ND	ND	ND	ND	ND	NA
	06/25/97	NA	ND	0.14	ND	0.2	0.18	ND d
	03/27/98	NA	ND	ND	ND	ND	0.017	ND e
	03/31/99	NA	ND	13	7.2	27	45	ND k
MW-7	11/29/95	NA	NA	NA	NA	NA	NA	ND b
	01/18/96	NA	ND	ND	ND	ND	25.1	NA
	06/25/97	NA	NA	NA	NA	NA	NA	NA
	03/27/98	NA	NA	NA	NA	NA	NA	NA
	03/31/99	NA	ND	ND	ND	8.5	14	ND l
MW-8	11/29/95	ND	ND	319	42.0	381	309	ND c
	01/18/96	NA	ND	ND	ND	ND	ND	NA
	06/25/97	NA	ND	0.54	ND	0.69	0.42	ND
	03/27/98	NA	ND	0.013	ND	ND	0.02	ND
	03/31/99	NA	ND	12	8.8	16	13	ND

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

a. 0.61 µg/L 1,1-Dichloroethane
 b. 0.79 µg/L 1,1-Dichloroethane
 0.74 µg/L *trans*-1,2-Dichloroethene
 c. 0.53 µg/L Vinyl Chloride
 1.3 µg/L Trichloroethene
 d. 2.5 µg/L Chloroethene
 0.97 µg/L 1,1-Dichloroethane
 3.4 µg/L *trans*-1,2-Dichloroethene
 1.4 µg/L Vinyl Chloride
 e. 2.1 µg/L Chloroethene
 1.1 µg/L 1,1-Dichloroethane
 0.85 µg/L *cis*-1,2-Dichloroethene
 3.2 µg/L *trans*-1,2-Dichloroethene

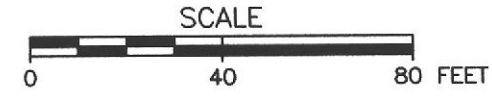



LEGEND

- Groundwater monitoring well
- ∅ Destroyed groundwater monitoring well
- (3.02) Groundwater elevation (Ft.-MSL); measured 9-13-99
- ?- - - 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 9-13-99.
- 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.



	GLASCOCK STREET PROPERTIES FORMER DORR-OLIVER SITE
	<p>FIGURE 1</p> <p>GROUNDWATER ELEVATION CONTOURS</p> <p>THIRD QUARTER 1999</p> <p>2901 GLASCOCK STREET OAKLAND, CALIFORNIA</p>

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



Sequoia Analytical

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

September 29, 1999

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

RE: 3600142B/M909455

Dear Kurt Lueneburger

Enclosed are the results of analyses for sample(s) received by the laboratory on September 14, 1999. If you have any questions concerning this report, please feel free to contact me.

Please note samples for Diesel analysis were filtered, silica gel'd and . . . per instructions on COC.

Sincerely,

Ron Chew
Project Manager

CA ELAP Certificate Number 1210





Pacific Environmental Group
1921 Ringwood Avenue
San Jose, CA 95131

Project: -
Project Number: 3600142B/Dor Oliver
Project Manager: Kurt Lueneburger

Sampled: 9/13/99
Received: 9/14/99
Reported: 9/29/99

ANALYTICAL REPORT FOR M909455

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M909455-01	Water	9/13/99
MW-2	M909455-02	Water	9/13/99
MW-3	M909455-03	Water	9/13/99
MW-4	M909455-04	Water	9/13/99
MW-6	M909455-05	Water	9/13/99
MW-7	M909455-06	Water	9/13/99
MW-8	M909455-07	Water	9/13/99





Pacific Environmental Group 1921 Ringwood Avenue San Jose, CA 95131	Project: - Project Number: 3600142B/Dor Oliver Project Manager: Kurt Lueneburger	Sampled: 9/13/99 Received: 9/14/99 Reported: 9/29/99
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**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*
				M909455-01			Water	
Purgeable Hydrocarbons	9090625	9/21/99	9/21/99		50.0	523	ug/l	1
Benzene	"	"	"		0.500	2.70	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		240	%	2
				M909455-02			Water	
Purgeable Hydrocarbons	9090692	9/23/99	9/23/99		100	392	ug/l	1
Benzene	"	"	"		1.00	1.28	"	
Toluene	"	"	"		1.00	3.98	"	
Ethylbenzene	"	"	"		1.00	ND	"	
Xylenes (total)	"	"	"		1.00	1.22	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		93.0	%	
				M909455-03			Water	
Purgeable Hydrocarbons	9090665	9/22/99	9/22/99		50.0	80.0	ug/l	1
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	12.7	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		108	%	
				M909455-04			Water	
Purgeable Hydrocarbons	9090562	9/20/99	9/20/99		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	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		97.0	%	
				M909455-05			Water	
Purgeable Hydrocarbons	9090692	9/23/99	9/23/99		100	192	ug/l	1
Benzene	"	"	"		1.00	4.74	"	
Toluene	"	"	"		1.00	1.24	"	
Ethylbenzene	"	"	"		1.00	ND	"	
Xylenes (total)	"	"	"		1.00	3.64	"	





Pacific Environmental Group 1921 Ringwood Avenue San Jose, CA 95131	Project: - Project Number: 3600142B/Dor Oliver Project Manager: Kurt Lueneburger	Sampled: 9/13/99 Received: 9/14/99 Reported: 9/29/99
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**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)				M909455-05			Water	
Methyl tert-butyl ether	9090692	9/23/99	9/23/99		5.00	6.20	ug/l	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		93.0	%	
MW-7				M909455-06			Water	
Purgeable Hydrocarbons	9090624	9/21/99	9/21/99		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	55.3	"	<i>up gradient</i>
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		121	%	
MW-8				M909455-07			Water	
Purgeable Hydrocarbons	9090564	9/20/99	9/20/99		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	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130		93.0	%	





Pacific Environmental Group 1921 Ringwood Avenue San Jose, CA 95131	Project: - Project Number: 3600142B/Dor Oliver Project Manager: Kurt Lueneburger	Sampled: 9/13/99 Received: 9/14/99 Reported: 9/29/99
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**Hydrocarbons as Motor Oil by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>M909455-01</u>			<u>Water</u>	
Motor Oil (C16-C36)	9090514	9/17/99	9/28/99		0.500	ND	mg/l	3
Diesel Range Hydrocarbons	"	"	"		0.0500	0.493	"	4
Surrogate: n-Pentacosane	"	"	"	40.0-140		68.0	%	
				<u>M909455-02</u>			<u>Water</u>	
Motor Oil (C16-C36)	9090514	9/17/99	9/28/99		0.500	0.617	mg/l	3
Diesel Range Hydrocarbons	"	"	"		0.0500	1.38	"	4
Surrogate: n-Pentacosane	"	"	"	40.0-140		74.0	%	
				<u>M909455-03</u>			<u>Water</u>	
Motor Oil (C16-C36)	9090514	9/17/99	9/28/99		0.500	ND	mg/l	
Diesel Range Hydrocarbons	"	"	"		0.0500	0.203	"	4
Surrogate: n-Pentacosane	"	"	"	40.0-140		66.0	%	
				<u>M909455-04</u>			<u>Water</u>	
Motor Oil (C16-C36)	9090514	9/17/99	9/28/99		0.500	ND	mg/l	
Diesel Range Hydrocarbons	"	"	"		0.0500	ND	"	
Surrogate: n-Pentacosane	"	"	"	40.0-140		59.0	%	discharge
				<u>M909455-05</u>			<u>Water</u>	
Motor Oil (C16-C36)	9090514	9/17/99	9/28/99		0.500	0.694	mg/l	3
Diesel Range Hydrocarbons	"	"	"		0.0500	0.826	"	5
Surrogate: n-Pentacosane	"	"	"	40.0-140		82.0	%	
				<u>M909455-06</u>			<u>Water</u>	
Motor Oil (C16-C36)	9090514	9/17/99	9/28/99		0.500	ND	mg/l	
Diesel Range Hydrocarbons	"	"	"		0.0500	ND	"	
Surrogate: n-Pentacosane	"	"	"	40.0-140		78.0	%	
				<u>M909455-07</u>			<u>Water</u>	
Motor Oil (C16-C36)	9090514	9/17/99	9/28/99		0.500	ND	mg/l	
Diesel Range Hydrocarbons	"	"	"		0.0500	ND	"	
Surrogate: n-Pentacosane	"	"	"	40.0-140		75.0	%	





Pacific Environmental Group 1921 Ringwood Avenue San Jose, CA 95131	Project: - Project Number: 3600142B/Dor Oliver Project Manager: Kurt Lueneburger	Sampled: 9/13/99 Received: 9/14/99 Reported: 9/29/99
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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: 9090562			Date Prepared: 9/20/99			Extraction Method: EPA 5030B [P/T]				
Blank			9090562-BLK1							
Purgeable Hydrocarbons	9/20/99			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		12.0	"	70.0-130	120			
LCS			9090562-BS1							
Benzene	9/20/99	10.0		8.40	ug/l	70.0-130	84.0			
Toluene	"	10.0		9.70	"	70.0-130	97.0			
Ethylbenzene	"	10.0		10.0	"	70.0-130	100			
Xylenes (total)	"	30.0		31.0	"	70.0-130	103			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.8	"	70.0-130	118			
Matrix Spike			9090562-MS1		M909321-12					
Benzene	9/20/99	10.0	ND	7.70	ug/l	60.0-140	77.0			
Toluene	"	10.0	ND	8.90	"	60.0-140	89.0			
Ethylbenzene	"	10.0	ND	9.50	"	60.0-140	95.0			
Xylenes (total)	"	30.0	ND	30.5	"	60.0-140	102			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.0	"	70.0-130	100			
Matrix Spike Dup			9090562-MSD1		M909321-12					
Benzene	9/20/99	10.0	ND	7.90	ug/l	60.0-140	79.0	25.0	2.56	
Toluene	"	10.0	ND	9.10	"	60.0-140	91.0	25.0	2.22	
Ethylbenzene	"	10.0	ND	9.70	"	60.0-140	97.0	25.0	2.08	
Xylenes (total)	"	30.0	ND	30.8	"	60.0-140	103	25.0	0.976	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.3	"	70.0-130	103			
Batch: 9090564			Date Prepared: 9/20/99			Extraction Method: EPA 5030B [P/T]				
Blank			9090564-BLK1							
Purgeable Hydrocarbons	9/20/99			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		9.60	"	70.0-130	96.0			





Pacific Environmental Group 1921 Ringwood Avenue San Jose, CA 95131	Project: - Project Number: 3600142B/Dor Oliver Project Manager: Kurt Lueneburger	Sampled: 9/13/99 Received: 9/14/99 Reported: 9/29/99
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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*
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LCS		9090564-BS1								
Benzene	9/20/99	10.0		9.60	ug/l	70.0-130	96.0			
Toluene	"	10.0		7.53	"	70.0-130	75.3			
Ethylbenzene	"	10.0		9.30	"	70.0-130	93.0			
Xylenes (total)	"	30.0		28.1	"	70.0-130	93.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.70	"	70.0-130	97.0			

Matrix Spike		9090564-MS1		M909321-04						
Benzene	9/20/99	10.0	ND	7.50	ug/l	60.0-140	75.0			
Toluene	"	10.0	ND	9.30	"	60.0-140	93.0			
Ethylbenzene	"	10.0	ND	9.20	"	60.0-140	92.0			
Xylenes (total)	"	30.0	ND	28.6	"	60.0-140	95.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.10	"	70.0-130	91.0			

Matrix Spike Dup		9090564-MSD1		M909321-04						
Benzene	9/20/99	10.0	ND	7.60	ug/l	60.0-140	76.0	25.0	1.32	
Toluene	"	10.0	ND	9.40	"	60.0-140	94.0	25.0	1.07	
Ethylbenzene	"	10.0	ND	9.50	"	60.0-140	95.0	25.0	3.21	
Xylenes (total)	"	30.0	ND	28.4	"	60.0-140	94.7	25.0	0.632	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.60	"	70.0-130	96.0			

Batch: 9090624	Date Prepared: 9/21/99			Extraction Method: EPA 5030B [P/T]						
Blank	9090624-BLK1									
Purgeable Hydrocarbons	9/21/99			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		11.1	"	70.0-130	111			

LCS		9090624-BS1								
Purgeable Hydrocarbons	9/21/99	250		288	ug/l	70.0-130	115			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.8	"	70.0-130	128			

LCS Dup		9090624-BSD1								
Purgeable Hydrocarbons	9/21/99	250		273	ug/l	70.0-130	109	25.0	5.36	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		13.0	"	70.0-130	130			

Batch: 9090625	Date Prepared: 9/21/99			Extraction Method: EPA 5030B [P/T]						
Blank	9090625-BLK1									
Purgeable Hydrocarbons	9/21/99			ND	ug/l		50.0			





Pacific Environmental Group 1921 Ringwood Avenue San Jose, CA 95131	Project: - Project Number: 3600142B/Dor Oliver Project Manager: Kurt Lueneburger	Sampled: 9/13/99 Received: 9/14/99 Reported: 9/29/99
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**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*
Blank (continued) <u>9090625-BLK1</u>										
Benzene	9/21/99			ND	ug/l	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		9.70	"	70.0-130	97.0			
LCS <u>9090625-BS1</u>										
Purgeable Hydrocarbons	9/21/99	250		285	ug/l	70.0-130	114			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.1	"	70.0-130	111			
LCS Dup <u>9090625-BSD1</u>										
Purgeable Hydrocarbons	9/21/99	250		289	ug/l	70.0-130	116	25.0	1.74	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.3	"	70.0-130	113			
Batch: 9090665 <u>Date Prepared: 9/22/99</u> <u>Extraction Method: EPA 5030B [P/T]</u>										
Blank <u>9090665-BLK1</u>										
Purgeable Hydrocarbons	9/22/99			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		10.6	"	70.0-130	106			
LCS <u>9090665-BS1</u>										
Benzene	9/22/99	10.0		7.35	ug/l	70.0-130	73.5			
Toluene	"	10.0		8.60	"	70.0-130	86.0			
Ethylbenzene	"	10.0		9.90	"	70.0-130	99.0			
Xylenes (total)	"	30.0		29.8	"	70.0-130	99.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.4	"	70.0-130	104			
LCS Dup <u>9090665-BSD1</u>										
Benzene	9/22/99	10.0		6.90	ug/l	70.0-130	69.0	25.0	6.32	6
Toluene	"	10.0		8.30	"	70.0-130	83.0	25.0	3.55	
Ethylbenzene	"	10.0		9.70	"	70.0-130	97.0	25.0	2.04	
Xylenes (total)	"	30.0		29.0	"	70.0-130	96.7	25.0	2.65	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.90	"	70.0-130	99.0			





Pacific Environmental Group 1921 Ringwood Avenue San Jose, CA 95131	Project: - Project Number: 3600142B/Dor Oliver Project Manager: Kurt Lueneburger	Sampled: 9/13/99 Received: 9/14/99 Reported: 9/29/99
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**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: 9090692			Date Prepared: 9/23/99			Extraction Method: EPA 5030B (P/T)				
Blank			9090692-BLK1							
Purgeable Hydrocarbons	9/23/99			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		9.60	"	70.0-130	96.0			
LCS			9090692-BS1							
Purgeable Hydrocarbons	9/23/99	250		238	ug/l	70.0-130	95.2			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		12.3	"	70.0-130	123			
Matrix Spike			9090692-MS1		M909580-04					
Purgeable Hydrocarbons	9/23/99	250	ND	232	ug/l	60.0-140	92.8			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.6	"	70.0-130	116			
Matrix Spike Dup			9090692-MSD1		M909580-04					
Purgeable Hydrocarbons	9/23/99	250	ND	230	ug/l	60.0-140	92.0	25.0	0.866	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		11.9	"	70.0-130	119			





Pacific Environmental Group
1921 Ringwood Avenue
San Jose, CA 95131

Project: -
Project Number: 3600142B/Dor Oliver
Project Manager: Kurt Lueneburger

Sampled: 9/13/99
Received: 9/14/99
Reported: 9/29/99

**Hydrocarbons as Motor Oil 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: 9090514			Date Prepared: 9/17/99			Extraction Method: EPA 3510B				
Blank			9090514-BLK1							
Motor Oil (C16-C36)	9/22/99			ND	mg/l	0.500				
Diesel Range Hydrocarbons	"			ND	"	0.0500				
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.0910	"	40.0-140	91.0			
LCS			9090514-BS1							
Diesel Range Hydrocarbons	9/22/99	1.00		0.535	mg/l	40.0-140	53.5			
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.0620	"	40.0-140	62.0			
LCS Dup			9090514-BSD1							
Diesel Range Hydrocarbons	9/22/99	1.00		0.0786	mg/l	40.0-140	7.86	50.0	149	7
Surrogate: <i>n</i> -Pentacosane	"	0.100		0.00930	"	40.0-140	9.30			8





Pacific Environmental Group
1921 Ringwood Avenue
San Jose, CA 95131

Project: -
Project Number: 3600142B/Dor Oliver
Project Manager: Kurt Lueneburger

Sampled: 9/13/99
Received: 9/14/99
Reported: 9/29/99

Notes and Definitions

#	Note
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- 1 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
 - 2 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
 - 3 Chromatogram pattern: Unidentified Hydrocarbons C16-C36.
 - 4 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
 - 5 Chromatogram Pattern: Weathered Diesel C9-C24
 - 6 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
 - 7 LCSD spike results are below control limits; however, the LCS results are acceptable. The LCSD results are anomalous results that do not affect data quality.
 - 8 The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- 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

PROJECT No. **36001423**

Facility No. **For Dardolive site**

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

Billing Reference Number: **821**

CLIENT engineer:

PACIFIC Point of Contact: **DIANE SARNIENKO** Sampler: **PEOR E. RUIZ**

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	VOC (EPA 824)	SVOC (EPA 827)	HVOC (EPA 601/ 8010)	Comments:	
																W-water
Mw1	5	40ml	HCC NP	W	G	9/13/99	10:15	X							01	<p style="text-align: center;">M909455</p> <p>FUEL FINGERPRINT AS DIESEL & Motor oil w/ Filtration by 0.7 MICRON TCLP GLASS FILTER. FOLLOWED BY SILEX GEL CLEANUP OF EXTRACT BY EPA METHOD 3630B WITHOUT SOLVENT EXCHANGE</p>
Mw2							11:00								02	
Mw3							9:00								03	
Mw4							9:25								04	
Mw6							10:20								05	
Mw7							8:35								06	
Mw8							9:55								07	

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by

Date Time

Received by

Date Time

1921 RINGWOOD AV. SAN JOSE CA 95131

Priority Rush (1 day)

Relinquished by

Date Time

Received by

Date Time

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

Rush (2 days)

Relinquished by

Date Time

Received by

Date Time

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

Expedited (5 days)

Relinquished by

Date Time

Received by laboratory

Date Time

4020 148th Ave NE #B

Standard (10 days)

Chain of Custody

Pacific Environmental Group, Inc.

1921 RINGWOOD AV. SAN JOSE CA. 95131

Phone 408 453 7300 Fax 408 453 0952

PROJECT No. **3600142B**

Facility No. **For Dorolive site**

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

Billing Reference Number: **824**

CLIENT engineer:

PACIFIC Point of Contact: **DIANE SARNIENKO** Sampler: **PEOPLE RUIZ**

Laboratory Name: **SEQUOIA**

Comments:

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	HTBE		Total	VOC (EPA 824)	SVOC (EPA 827)	HVOC (EPA 601)	Fuel Finger print AS DIESEL & Motor Oil
								BTEX (8015/8020)	TPH Diesel Grease (8015) (5520)					
Mw1	5	40ml IC	HCC UP	W	G	9/13/99	10:15	X					X	
Mw2	↓	↓	↓	↓	↓	↓	11:00	↓					↓	
Mw3	↓	↓	↓	↓	↓	↓	9:00	↓					↓	
Mw4	↓	↓	↓	↓	↓	↓	9:25	↓					↓	
Mw5	↓	↓	↓	↓	↓	↓	10:00	↓					↓	
Mw6	↓	↓	↓	↓	↓	↓	8:35	↓					↓	
Mw7	↓	↓	↓	↓	↓	↓	9:55	↓					↓	
Mw8	↓	↓	↓	↓	↓	↓		↓					↓	

FUEL FINGER print
AS DIESEL &
Motor oil w/
Filtration by
0.7 MICRON
TCLP GLASS
FILTER, FOLLOWED
By
SILICATE CLEANUP
OF EXTRACT by
EPA METHOD 3630B
WITHOUT SOLVENT
EXCHANGE

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by	Date	Time
	9-13-99	15:00
Relinquished by	Date	Time
Relinquished by	Date	Time
Relinquished by	Date	Time

Received by	Date	Time
	10/05	9/14/99
Received by	Date	Time
Received by	Date	Time
Received by laboratory	Date	Time

Pacific Environmental Group

1921 RINGWOOD AV. SAN JOSE CA 95131

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

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

4020 148th Ave NE #B

Priority Rush (1 day)	<input type="checkbox"/>
Rush (2 days)	<input type="checkbox"/>
Expedited (5 days)	<input type="checkbox"/>
Standard (10 days)	<input checked="" type="checkbox"/>

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600/428 LOCATION: 2901 G/ASCOCK ST WELL ID #: MW-1

CLIENT/STATION No.: FORMER DORRIVER SITE FIELD TECHNICIAN: PEDRO 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.
<input checked="" type="checkbox"/> 2	0.17
<input type="checkbox"/> 3	0.38
<input type="checkbox"/> 4	0.66
<input type="checkbox"/> 4.5	0.83
<input type="checkbox"/> 5	1.02
<input type="checkbox"/> 6	1.5
<input type="checkbox"/> 8	2.6

SAMPLE TYPE

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

TD 1900 DTW 883 = 10.97 Gal/Linear Foot .17 = 186 x Number of Casings 3 = Calculated Purge 3.59

DATE PURGED: 9.13.99 START: 10:08 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 9.13.99 START: 10:45 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>10:31</u>	<u>1.75</u>	<u>6.83</u>	<u>1130</u>	<u>61.5</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>10:34</u>	<u>3.5</u>	<u>6.76</u>	<u>1150</u>	<u>61.6</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>10:38</u>	<u>5.05</u>	<u>6.74</u>	<u>1140</u>	<u>61.7</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</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: 15-10
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-1</u>	<u>9.13.99</u>	<u>10:45</u>	<u>3</u>	<u>40ml</u>	<u>WDA</u>	<u>HCC</u>	<u>TPH G, 1, 3, 5, 10, 15, 30</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPH D, TPH MO</u>

MARKS: _____

[Handwritten signature]

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600142B LOCATION: 29016/1/COCK ST WELL ID #: MW-2

CLIENT/STATION No.: FORMER DORR POLYMER SITE FIELD TECHNICIAN: PEDRO 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 <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 19.75 - DTW 7.00 = $12.09 \times \frac{\text{Gal/Linear Foot}}{.17} = 205 \times \text{Number of Casings } 3 = \text{Calculated Purge } 616$

DATE PURGED: 9.13.99 START: 10:48 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 9.13.99 START: 1100 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>10:51</u>	<u>2</u>	<u>6.80</u>	<u>1530</u>	<u>61.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>10:54</u>	<u>4</u>	<u>6.80</u>	<u>1540</u>	<u>61.9</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>10:57</u>	<u>6</u>	<u>6.90</u>	<u>1550</u>	<u>61.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>

Pumped dry Yes / NO

Cobalt 0-100 Clear Cloudy Yellow Brown	NTU 0-200 Heavy Moderate Light Trace	Strong Moderate Faint None
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FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #	SAMPLING EQUIPMENT/I.D. #
<input type="checkbox"/> Bailer: _____ <input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u> <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Bailer: <u>15-18</u> <input type="checkbox"/> Dedicated: _____ <input type="checkbox"/> Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-2</u>	<u>9.13.99</u>	<u>1100</u>	<u>3</u>	<u>10ml</u>	<u>WDA</u>	<u>HCC</u>	<u>TPH G/L, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>AMB</u>	<u>NP</u>	<u>TPH D, TPH MO</u>

REMARKS: DO: 2.00
Spiky siten 7-loadings ON TOP OF WATER

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600/42B LOCATION: 2901 Glyncoch St WELL ID #: MW-3

CLIENT/STATION No.: FORMER DORR DIERSITE FIELD TECHNICIAN: PEDRO 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 19.80 DTW 0.85 = $12.95 \times \frac{\text{Gal/Linear Foot}}{.17} = 200 \times \text{Casings } 3 = \text{Purge } 600$

DATE PURGED: 9.13.99 START: 8:42 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 9.13.99 START: 9:00 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>8:40</u>	<u>2.25</u>	<u>6.59</u>	<u>1140</u>	<u>610</u>	<u>Clear</u>	<u>Mod</u>	<u>Faint</u>
<u>8:50</u>	<u>1.5</u>	<u>6.70</u>	<u>1130</u>	<u>614</u>	<u>Clear</u>	<u>Mod</u>	<u>Faint</u>
<u>8:54</u>	<u>0.75</u>	<u>6.82</u>	<u>1130</u>	<u>615</u>	<u>Clear</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 _____

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>15-9</u> <input type="checkbox"/> Dedicated: _____ <input type="checkbox"/> Other: _____
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SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-3</u>	<u>9.13.99</u>	<u>9:00</u>	<u>3</u>	<u>10ml</u>	<u>WQA</u>	<u>HCC</u>	<u>TPH, TPHEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

REMARKS: _____

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001428 LOCATION: 2901 Glynn St WELL ID #: MW-4

CLIENT/STATION No.: FORMER DORRIDGE SITE FIELD TECHNICIAN: Pedro Ruiz

<u>WELL INFORMATION</u>			<u>CASING</u>	<u>GAL/</u>	
Depth to Liquid: _____	TOB _____	TOC _____	<u>DIAMETER</u>	<u>LINEAR FT.</u>	<u>SAMPLE TYPE</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 19.70 - DTW 8.10 11.3 Gal/Linear Foot .17 1.92 x Number of Casings 3 = Calculated Purge 3.76

DATE PURGED: 9.13.99 START: 9:10 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 9.13.99 START: 9:05 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>9:14</u>	<u>2</u>	<u>6.74</u>	<u>7.33</u>	<u>60.6</u>	<u>Cloudy</u>	<u>light</u>	<u>None</u>
<u>9:17</u>	<u>4</u>	<u>6.71</u>	<u>7.35</u>	<u>60.9</u>	<u>Cloudy</u>	<u>light</u>	<u>None</u>
<u>9:21</u>	<u>6</u>	<u>6.88</u>	<u>7.37</u>	<u>61.0</u>	<u>Cloudy</u>	<u>light</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
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FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

<p><u>PURGING EQUIPMENT/I.D. #</u></p> <p><input type="checkbox"/> Bailer: _____ <input type="checkbox"/> Airlift Pump: _____</p> <p><input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u> <input type="checkbox"/> Dedicated: _____</p> <p><input type="checkbox"/> Other: _____</p>	<p><u>SAMPLING EQUIPMENT/I.D. #</u></p> <p><input checked="" type="checkbox"/> Bailer: <u>158</u></p> <p><input type="checkbox"/> Dedicated: _____</p> <p><input type="checkbox"/> Other: _____</p>
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SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-4</u>	<u>9.13.99</u>	<u>9:05</u>	<u>3</u>	<u>10ml</u>	<u>WDA</u>	<u>HCC</u>	<u>TPHG, TPHEX, MIBU</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

REMARKS:

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600/128 LOCATION: 2901 G/ALCOCK ST WELL ID #: MW-6
 CLIENT/STATION No.: FORMER DORRHOFF SITE FIELD TECHNICIAN: PEDRO POIZ

<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
Probe Type	<input type="checkbox"/>	Oil/Water interface _____	<input type="checkbox"/>	4.5 _____	_____	0.83	<input type="checkbox"/>	Trip blank
and	<input type="checkbox"/>	Electronic indicator _____	<input type="checkbox"/>	5 _____	_____	1.02	<input type="checkbox"/>	Field blank
I.D. #	<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 1950 DTW 1063.887 x Gal/Linear Foot .17 = 150 Number of Casings 3 Calculated = Purge 4.52

DATE PURGED: 9.13.99 START: 10:01 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 9.13.99 START: 10:20 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:05</u>	<u>13</u>	<u>7.50</u>	<u>1300</u>	<u>60.4</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Strong</u>
<u>10:09</u>	<u>3</u>	<u>7.40</u>	<u>1300</u>	<u>60.6</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Strong</u>
<u>10:13</u>	<u>15</u>	<u>7.38</u>	<u>1290</u>	<u>60.5</u>	<u>Cloudy</u>	<u>Light</u>	<u>Strong</u>

Pumped dry Yes / (No)
 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-</u>	<input type="checkbox"/> Dedicated: _____
<input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u>	<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>MW6</u>	<u>9.13.99</u>	<u>10:20</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, TPHMO</u>

REMARKS: DO. 20. 20. HEAVY SPOTTY GREEN ON BAILER ON TOP OF WATER

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 3600/192B LOCATION: 2901 G/Ascoch St WELL ID #: MW-7

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

<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 17.95 - DTW 5.30 = 12.65 Gal/Linear Foot 17 = 2.11 x Number of Casings 3 = Calculated = Purge 6.34


DATE PURGED: 9.13.99 START: 8:19 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 9.13.99 START: 8:35 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>8:23</u>	<u>2</u>	<u>6.49</u>	<u>1300</u>	<u>64.1</u>	<u>CLEAR</u>	<u>light</u>	<u>None</u>
<u>8:26</u>	<u>4</u>	<u>6.44</u>	<u>1290</u>	<u>64.1</u>	<u>CLEAR</u>	<u>light</u>	<u>None</u>
<u>8:30</u>	<u>6</u>	<u>6.48</u>	<u>1290</u>	<u>64.3</u>	<u>CLEAR</u>	<u>light</u>	<u>None</u>

Pumped dry Yes / No
 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 checked="" type="checkbox"/> Bailer: <u>15-10</u>
<input checked="" type="checkbox"/> Centrifugal Pump: <u>15</u>	<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-7</u>	<u>9.13.99</u>	<u>8:35</u>	<u>3</u>	<u>10ml</u>	<u>UBA</u>	<u>HCC</u>	<u>TPHG/3TEX/MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPHD, TPHMO</u>

MARKS: _____


FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 36001928 LOCATION: 29016/45004 st WELL ID #: MW-8
 CLIENT/STATION No.: FORMER DORPOLIER SITE FIELD TECHNICIAN: PEDRO POIZ

<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 1770 DTW 10.38 7.30 Gal/Linear Foot .17 = 124 x Number of Casings 3 = Calculated Purge 3.73

DATE PURGED: 9.13.99 START: 9:40 END (2400 hr): _____ PURGED BY: PE
 DATE SAMPLED: 9.13.99 START: 9:55 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>9:43</u>	<u>1.05</u>	<u>6.80</u>	<u>2130</u>	<u>60.6</u>	<u>Cloudy</u>	<u>Med</u>	<u>None</u>
<u>9:45</u>	<u>2.5</u>	<u>6.73</u>	<u>2160</u>	<u>60.7</u>	<u>Cloudy</u>	<u>Med</u>	<u>None</u>
<u>9:48</u>	<u>3.75</u>	<u>6.56</u>	<u>2160</u>	<u>60.5</u>	<u>Cloudy</u>	<u>Med</u>	<u>None</u>

Pumped dry Yes / NO

Cobalt G-100 Clear Cloudy Yellow Brown	NTU G-200 Heavy Moderate Light Trace	Strong Moderate Faint None
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FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

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

SAMPLING EQUIPMENT/I.D. #

Bailer: 15-14
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW8</u>	<u>9.13.99</u>	<u>9:55</u>	<u>3</u>	<u>10ml</u>	<u>WA</u>	<u>HCC</u>	<u>TPH G, 1, 3, TEX, MTB, U</u>
			<u>2</u>	<u>1L</u>	<u>AMB</u>	<u>NP</u>	<u>TPH D, TPH MO</u>

MARKS: _____

