



IT Corporation

1921 Ringwood Avenue
San Jose, CA 95131-1721
Tel. 408.453.7300
Fax. 408.437.9526

A Member of The IT Group

September 4, 2001
Project 805385

SEP 27 2001

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SEP 10 2001

Mr. Gary Martz
Iconco
303 Derby Avenue
Oakland, California 94601

1138 / 437

Re: **Quarterly Report - Second Quarter 2001**
2901 Glascock Street
Oakland, California

Dear Mr. Martz:

IT Corporation (IT) has prepared this report for Iconco. The following sections present results of the second quarter 2001 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 June 28, 2001. The wells were sampled and analyzed for the presence of total extractable petroleum hydrocarbons quantified as diesel (TEPH-d), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), total extractable petroleum hydrocarbons quantified as motor oil (TEPH-mo), total purgeable petroleum hydrocarbons quantified as gasoline (TPPH-g), and methyl tert-butyl ether (MtBE). TEPH-d is considered the primary constituent of concern at this site. Groundwater samples were also analyzed for the biodegradation indicators ferrous iron, nitrate, and sulfate. Field measurements of dissolved oxygen (DO) and oxidation-reduction potential (ORP) were also collected from the wells.

The depth to groundwater and groundwater analytical data are presented in Tables 1 through 3. Figure 1 presents the results of the interpreted water elevation contours and selected groundwater analytical results. Certified Analytical Reports (CARs), chain-of-custody (COC) documentation, and field data sheets are contained in Attachment A.

Groundwater Levels

Groundwater elevations in site monitoring wells decreased an average of about 0.8 feet compared with the prior quarter (Table 1). The groundwater flow direction continues to

be generally to the south/southwest (toward the Oakland Estuary) at a gradient of approximately 0.01 (Figure 1).

Groundwater Quality

Table 2 presents the groundwater analytical data for hydrocarbons and MtBE. Figure 1 illustrates the groundwater analytical results for TEPH-d, benzene, and TEPH-mo. CARs, COC documentation, and field data sheets are contained in Attachment A. The laboratory was directed to prepare groundwater samples for TEPH analyses using a 0.7 micron glass filter followed by a silica gel column cleanup by method 3630B without solvent exchange.

No separate-phase hydrocarbons (SPH) were observed in any of the monitoring wells this quarter. TEPH-d was reported in groundwater samples from four of seven wells at concentrations ranging from 8,800 to 31,000 micrograms per liter ($\mu\text{g/L}$) (Figure 1). The results were characterized as weathered diesel in the C9 to C24 range (see Table 2 and CARs).

Detectable concentrations of TEPH-mo were reported in four of seven wells, at concentrations ranging from 5,200 to 22,000 $\mu\text{g/L}$. The chromatogram pattern for these samples was not reported as motor oil, but unidentified hydrocarbons in the C16-C36 range (see Table 2 and CARs).

Benzene was detected in three wells, MW-1, MW-3, and MW-6, at concentrations ranging from 0.66 to 3.3 $\mu\text{g/L}$.

Detectable concentrations of MtBE were reported in the groundwater samples from wells MW-1, MW-6, and MW-7, ranging from 3.9 to 40 $\mu\text{g/L}$. The highest concentration was detected in well MW-7, located offsite and upgradient of the subject property.

CONCLUSIONS/RECCOMENDATIONS

Groundwater concentrations of TEPH-d, BTEX compounds and TEPH-mo were consistent when compared with historical measurements. Concentrations of heavy end petroleum hydrocarbons in monitoring wells at the site have generally declined compared with prior sampling events beginning in October of 1994. Fluctuations in concentrations occur with variations in the depth to groundwater and with tidal fluctuations in the adjacent estuary.

The distribution of biodegradation parameters generally correlates well with TEPH-d concentrations, indicating that both aerobic and anaerobic degradation of petroleum hydrocarbons is proceeding at the site.

Based on the concentrations observed in Well MW-7, it appears that an upgradient, off-site source of MtBE continues to impact monitoring wells at this site.

IT recommends the continued use of Oxygen Releasing Compound (ORC®) socks in wells at the site to further stimulate aerobic biodegradation. IT recommends that quarterly monitoring continue in accordance with the existing program.

A copy of this report should be forwarded to the ACHCSA, attention Barney Chan. If you have any questions regarding this report, please contact Andrew Lehane of IT at (408) 453-7300.

Sincerely,
IT Corporation



Andrew D. Lehane
Senior Engineer
RCE 55798



- Attachments:
- | | |
|--------------|---|
| Table 1 | Groundwater Elevation Data |
| Table 2 | Groundwater Analytical Data |
| Table 3 | Additional Groundwater Analytical Data |
| Figure 1- | Groundwater Monitoring Results, Second Quarter 2001 |
| Attachment A | CARs, COC Documentation, and Field Data Sheets |

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Table 1
Groundwater Elevation Data

2901 Glascock Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-1	10/06/94	10.76	NA	NA
	01/20/95		6.67	4.09
	05/15/95		7.08	3.68
	08/28/95		8.06	2.70
	12/06/95		8.24	2.52
	01/18/96	10.76	6.35	4.41
	03/08/96		6.52	4.24
	07/02/96		8.35	2.41
	12/17/96		6.85	3.91
	03/21/97		7.90	2.86
	06/25/97		9.20	1.56
	09/29/97		8.90	1.86
	12/11/97		7.10	3.66
	03/27/98		7.50	3.26
	06/26/98		8.65	2.11
	09/11/98		8.35	2.41
	12/24/98		8.50	2.26
	03/31/99		7.75	3.01
	06/17/99		8.70	2.06
	09/13/99		8.83	1.93
	12/28/99		9.10	1.66
	03/02/00		6.65	4.11
	06/30/00		8.30	2.46
09/29/00		8.57	2.19	
12/28/00		8.23	2.53	
03/26/01		8.00	2.76	
06/28/01		8.60	2.16	
MW-2	10/06/94	10.62	7.17	3.45
	01/20/95		4.64	5.98
	05/15/95		5.66	4.96
	08/28/95		6.26	4.36
	12/06/95		7.30	3.32
	01/18/96	10.63	4.85	5.78
	03/08/96		4.38	6.25
	07/02/96		6.60	4.03
	12/17/96		5.10	5.53
	03/21/97		6.25	4.38
	06/25/97		8.01	2.62
	09/29/97		8.45	2.18
	12/11/97		5.63	5.00
	03/27/98		6.50	4.13
	06/26/98		7.55	3.08
	09/11/98		7.15	3.48
	12/24/98		6.77	3.86
	03/31/99		5.80	4.83
	06/17/99		7.10	3.53
	09/13/99		7.66	2.97
	12/28/99		8.25	2.38
	03/02/00		4.90	5.73
	06/30/00		6.71	3.92
09/29/00		7.40	3.23	
12/28/00		6.93	3.70	
03/26/01		5.40	5.23	
06/28/01		7.80	2.83	
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

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Groundwater Elevation Data

2901 Glascock Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-3 (cont'd)	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
	12/28/99		6.72	3.15
	03/02/00		4.70	5.17
	06/30/00		6.25	3.62
	09/29/00		6.67	3.20
	12/28/00		6.21	3.66
03/26/01		5.75	4.12	
06/28/01		6.33	3.54	
MW-4	10/06/94	10.64	7.96	2.68
	01/20/95		5.95	4.69
	05/15/95		6.28	4.36
	08/28/95		7.38	3.26
	12/06/95		7.80	2.84
	01/18/96	10.64	5.60	5.04
	03/08/96		5.93	4.71
	07/02/96		7.95	2.69
	12/17/96		6.35	4.29
	03/21/97		7.30	3.34
	06/25/97		7.95	2.69
	09/29/97		7.65	2.99
	12/11/97		5.75	4.89
	03/27/98		6.60	4.04
	06/26/98		7.85	2.79
	09/11/98		7.85	2.79
	12/24/98		7.93	2.71
	03/31/99		7.15	3.49
	06/17/99		8.25	2.39
	09/13/99		8.40	2.24
12/28/99		8.24	2.40	
03/02/00		5.75	4.89	
06/30/00		7.84	2.80	
09/29/00		8.10	2.54	
12/28/00		7.97	2.67	
03/26/01		7.42	3.22	
06/28/01		7.78	2.86	
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
- well destroyed -				
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	

Table 1
Groundwater Elevation Data

2901 Glascock Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-6 (cont'd)	09/29/97		9.95	0.33
	12/11/97		8.50	1.78
	03/27/98		10.10	0.18
	06/26/98		12.10	-1.82
	09/11/98		9.90	0.38
	12/24/98		10.15	0.13
	03/31/99		10.18	0.10
	06/17/99		11.05	-0.77
	09/13/99		10.63	-0.35
	12/28/99		10.55	-0.27
	03/02/00		8.90	1.38
	06/30/00		11.51	-1.23
	09/29/00		10.35	-0.07
	12/28/00		9.08	1.20
	03/26/01		8.68	1.60
	06/28/01		9.45	0.83
MW-7	05/15/95	9.85	3.46	6.39
	08/28/95		4.49	5.36
	12/06/95		5.04	4.81
	01/18/96	9.86	3.10	6.76
	03/08/96		3.18	6.68
	07/02/96		4.40	5.46
	12/17/96		3.45	6.41
	03/21/97		3.75	6.11
	06/25/97		4.75	5.11
	09/29/97		5.05	4.81
	12/11/97		3.45	6.41
	03/27/98		3.45	6.41
	06/26/98		4.00	5.86
	09/11/98		4.95	4.91
	12/24/98		4.30	5.56
	03/31/99		3.50	6.36
	03/31/99		4.85	5.01
	09/13/99		5.30	4.56
	12/28/99		5.07	4.79
03/02/00		3.00	6.86	
06/30/00		4.30	5.56	
09/29/00		5.17	4.69	
12/28/00		4.71	5.15	
03/26/01		3.52	6.34	
06/28/01		4.70	5.16	
MW-8	01/18/96	10.61	7.15	3.46
	03/08/96		NA	NA
	07/02/96		10.80	-0.19
	12/17/96		8.52	2.09
	03/21/97		8.60	2.01
	06/25/97		10.27	0.34
	09/29/97		8.75	1.86
	12/11/97		7.20	3.41
	03/27/98		8.85	1.76
	06/26/98		10.70	-0.09
	09/11/98		9.40	1.21
	12/24/98		9.85	0.76
	03/31/99		9.58	1.03
	03/31/99		10.55	0.06
	09/13/99		10.38	0.23
	12/28/99		9.80	0.81
	03/02/00		7.76	2.85
	06/30/00		10.63	-0.02
	09/29/00		10.18	0.43
12/28/00		8.37	2.24	
03/26/01		8.75	1.86	
06/28/01		8.95	1.66	

Table 1
Groundwater Elevation Data

2901 Glascock Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MSL = Mean sea level				
TOC = Top of casing				
NA = Not available				
a. Well MW-5 was destroyed in September 1996.				

Table 2
Groundwater Analytical Data
TPPH as Gasoline, BTEX Compounds, TEPH as Diesel and Motor Oil, and MTBE

2901 Glascock Street
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (µg/L)	TEPH as Motor Oil (µg/L)	MTBE (µg/L)
MW-1	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/95	670	5.3	ND	ND	1.1	1,900	NA	NA
	05/15/95	290	7.9	ND	ND	1.4	3,400	NA	NA
	08/28/95	250	5.4	ND	ND	1.1	1,800	NA	NA
	11/29/95	NA	NA	NA	NA	NA	ND	ND	NA
	12/06/95	770	4.8	ND	ND	1.3	39,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	23,000	NA	NA
	03/08/96	360	2,600	ND	ND	1.9	16,000	NA	24
	07/02/96	5,300	a ND	ND	ND	ND	6,600	ND	ND
	12/17/96	540	b 3.4	ND	ND	0.83	2,800	c 1,600	d 60
	03/21/97	590	5.5	0.66	ND	ND	5,500	e 5,000	d 71
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	470	h ND	ND	ND	ND	39,000	e 26,000	d 45
	09/29/97	510	h 2.2	ND	ND	ND	5,000	e 4,000	d 37
	12/11/97	ND	ND	ND	ND	ND	1,900	e 1,300	d ND
	03/27/98	280	k 5.0	0.60	ND	ND	4,600	e 3,900	d 890
	06/26/98	450	f 2.6	ND	ND	ND	1,700	e 1,300	d 41
	09/11/98	230	l 2.8	ND	ND	1.8	3,000	m ND	8.7
	09/11/98	NA	NA	NA	NA	NA	620	g 520	d NA
	12/24/98	380	b 5.0	ND	ND	ND	2,100	g 1,600	d ND
	03/31/99	190	b 3.0	ND	ND	1.4	10,000	e 6,600	d 55
	06/17/99	133	3.27	ND	ND	ND	1,920	g 2,770	d 11.9
	09/13/99	523	2.70	ND	ND	ND	493	ND	ND
	12/28/99	574	3.2	ND	ND	1.2	429	ND	55.9
	03/02/00	209	1.99	ND	ND	1.24	4,620	ND	9.36
	06/30/00	920	b 3.59	1.59	0.64	2.92	530	g ND	ND
	09/29/00	5,520	b ND	ND	ND	11.8	956	e 662	d ND
	12/28/00	1,270	b 5.34	ND	ND	ND	4,920	g 3,330	d 34.1
	03/26/01	492	b 3.58	ND	ND	ND	614	g ND	20.1
	06/28/01	430	1.8	ND	ND	1.4	11,000	7,100	d 6
MW-2	10/06/94	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/95	520	2.2	1.9	ND	1.3	4,000	NA	NA
	05/15/95	310	2.3	1.9	ND	1.4	5,100	NA	NA
	08/28/95	320	2.9	2.9	ND	2.6	4,100	NA	NA
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS
	12/06/95	210	2.0	2.2	ND	0.57	17,000	NA	NA
	01/18/96	NA	NA	NA	NA	NA	22,000	NA	NA
	03/08/96	310	2.4	1.9	ND	1.4	56,000	NA	ND
	07/02/96	9,300	a ND	ND	ND	ND	19,000	ND	ND
	12/17/96	140	b 1.1	2.0	ND	1.4	10,000	e 5,400	d ND
	03/21/97	230	2.1	1.9	ND	ND	17,000	e 16,000	d ND
	05/16/97	NA	NA	NA	NA	NA	NA	NA	NA
	06/25/97	630	h ND	ND	ND	ND	16,000	e 13,000	d ND
	09/29/97	300	h 1.3	0.66	ND	ND	32,000	e 20,000	d ND
	12/11/97	ND	ND	ND	ND	ND	4,800	e 4,000	d ND
	03/27/98	94	k 1.3	1.30	ND	ND	15,000	e 11,000	d 18
	06/26/98	490	b ND	ND	ND	ND	11,000	e 5,900	d ND
	09/11/98	550	l ND	ND	ND	ND	11,000	n ND	ND
	09/11/98	NA	NA	NA	NA	NA	6,100	g ND	NA
	12/24/98	990	b ND	6.8	9.1	17	2,000	g 1,200	d ND
	3/31/99	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
	12/28/99	2,950	ND	ND	ND	ND	963	627	ND
	03/02/00	528	1.2	1.85	ND	0.78	9,100	0.612	ND
	06/30/00	1,020	b 1.71	1.59	0.544	2.47	1,480	e ND	ND
	09/29/00	1,710	b 2.92	ND	ND	ND	2,030	g 1,200	d ND
	12/28/00	6,010	b ND	ND	ND	ND	7,130	e ND	ND
	03/26/01	2,070	b ND	ND	ND	ND	2,090	c 1,220	d ND
	06/28/01	4,100	ND	ND	ND	ND	30,000	19,000	d ND

Table 2
Groundwater Analytical Data
TPPH as Gasoline, BTEX Compounds, TEPH as Diesel and Motor Oil, and MTBE

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)	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	640	ND	ND			
	12/17/96	240	f	ND	ND	ND	560	e	ND			
	03/21/97	760	h	ND	ND	ND	0.94	2,100	c	1900	d	5.6
	05/16/97	NA	NA	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	ND	380	e	ND	ND	
	03/27/98	ND	ND	ND	ND	ND	ND	220	g	ND	ND	
	06/26/98	68	b	ND	ND	ND	ND	210	g	ND	ND	
	09/11/98	110	l	ND	ND	ND	ND	320	o	ND	ND	
	09/11/98	NA	NA	NA	NA	NA	NA	210	g	ND	NA	
	12/24/98	ND	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	ND	0.696	325	g	516	d	ND
	09/13/99	80	ND	ND	ND	ND	ND	203	ND	ND	12.7	
	12/28/99	331	ND	ND	ND	ND	1.16	314	ND	ND	6.92	
	03/02/00	84	ND	ND	ND	ND	ND	1,370	ND	ND	ND	
	06/30/00	87.5	b	ND	ND	ND	0.599	100	ND	ND	ND	
	09/29/00	85.0	b	ND	ND	ND	0.849	495	g	ND	8.45	
	12/28/00	1,530	b	ND	ND	ND	ND	667	g	ND	ND	
	03/26/01	585	b	ND	ND	ND	ND	587	c	ND	ND	
	06/28/01	610	0.66	ND	ND	ND	ND	8,800	5,200	d	ND	
MW-4	10/06/94	NA	ND	ND	ND	ND	ND	NA	NA			
	01/20/95	ND	ND	ND	ND	ND	ND	NA	NA			
	05/15/95	ND	ND	ND	ND	ND	ND	NA	NA			
	08/28/95	ND	ND	ND	ND	ND	ND	NA	NA			
	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA			
	12/06/95	ND	ND	ND	ND	ND	57	NA	NA			
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA			
	03/08/96	ND	ND	ND	ND	ND	100	NA	ND			
	07/02/96	ND	ND	ND	ND	ND	ND	ND	ND			
	12/17/96	ND	ND	ND	ND	ND	310	g	530	d	ND	
	03/21/97	ND	ND	ND	ND	ND	180	g	500	d	ND	
	06/25/97	ND	ND	ND	ND	ND	120	g	ND	ND		
	09/29/97	ND	ND	ND	ND	ND	130	g	ND	ND		
	12/11/97	ND	ND	ND	ND	ND	57	g	ND	ND		
	03/27/98	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	06/26/98	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	09/11/98	ND	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	ND		
	09/13/99	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	12/28/99	ND	ND	ND	ND	ND	ND	ND	ND	4.14		
	03/02/00	ND	ND	ND	ND	ND	247	ND	ND	ND		
	06/30/00	ND	ND	ND	ND	ND	112	g	ND	ND		
	09/29/00	ND	ND	ND	ND	ND	68.3	g	ND	ND		
	12/28/00	ND	ND	ND	ND	ND	80.9	g	ND	ND		
	03/26/01	ND	ND	ND	ND	ND	96.2	g	ND	ND		
06/28/01	ND	ND	ND	ND	ND	ND	ND	ND	ND			

Table 2
Groundwater Analytical Data
TPPH as Gasoline, BTEX Compounds, TEPH as Diesel and Motor Oil, and MTBE

2901 Glascock Street
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (µg/L)	TEPH as Motor Oil (µg/L)	MTBE (µg/L)	
MW-5	05/15/95	ND	ND	ND	ND	ND	490	NA	NA	
	08/28/95	ND	ND	ND	ND	ND	170	NA	NA	
	11/29/95	NS	NS	NS	NS	NS	NS	NS	NS	
	12/06/95	ND	ND	ND	ND	ND	250	NA	NA	
	01/18/96	NA	NA	NA	NA	NA	49	NA	NA	
	03/08/96	ND	ND	ND	ND	ND	210	ND	12	
	07/02/96	200	a	ND	ND	ND	110	ND	ND	
	-- Well Destroyed in September 1996 --									
MW-6	05/15/95	120	5.6	0.88	ND	2.1	1,100	NA	NA	
	08/28/95	140	6.1	0.77	ND	2.3	2,100	NA	NA	
	11/29/95	NA	NA	NA	NA	NA	35,000	5,400	NA	
	12/06/95	140	4.6	0.89	ND	1.7	38,000	NA	NA	
	01/18/96	NA	NA	NA	NA	NA	59,000	NA	NA	
	03/08/96	160	3.4	0.57	ND	1.9	14,000	NA	ND	
	07/02/96	3,300	a	3.1	ND	ND	2,300	1,300	ND	
	12/17/96	150	b	3.4	0.93	ND	1.7	15,000	e	14,000
	03/21/97	300		3.5	0.91	ND	0.79	18,000	e	17,000
	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
	09/29/97	490	h	2.6	0.83	ND	1.5	7,900	e	7,900
	12/11/97	ND		ND	ND	ND	ND	5,600	e	5,100
	03/27/98	ND		ND	ND	ND	ND	1,500	e	1,400
	06/26/98	290	f	5.3	ND	ND	1.1	9,200	e	6,400
	09/11/98	660	l	500	ND	ND	ND	4,200	m	ND
	09/11/98	NA		NA	NA	NA	NA	1,600	g	1,300
	12/24/98	ND		ND	ND	ND	ND	1,000	g	690
	03/31/99	330	b	4.2	0.83	ND	1.5	22,000	e	16,000
	06/17/99	504		4.56	0.863	0.573	1.2	1,460	s	7,090
	09/13/99	192		4.74	1.24	ND	3.64	826		694
	12/28/99	3690		4.4	ND	ND	ND	527		ND
	03/02/00	336		4.92	1.18	ND	1.89	1,600		ND
	06/30/00	8550	b	58.9	73.1	ND	56.7	590	g	ND
	09/29/00	642	b	4.41	0.793	ND	1.32	863	g	ND
	12/28/00	500	b	4.89	ND	ND	ND	6,750	g	3,440
	03/26/01	14000	b	ND	ND	ND	ND	773	c	ND
	06/28/01	620	b	3.3	0.76	0.58	1.6	31,000		22,000
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	
	03/21/97	ND	ND	ND	ND	ND	79	g	ND	
	06/25/97	ND	ND	ND	ND	ND	58	g	ND	
	09/29/97	ND	ND	ND	ND	ND	ND	ND	ND	
	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	ND	
	09/11/98	ND	ND	ND	ND	ND	ND	ND	ND	
	09/11/98	NA	NA	NA	NA	NA	140	g	ND	
	12/24/98	ND	ND	ND	ND	ND	ND	ND	ND	
	03/31/99	ND	ND	ND	ND	ND	78	r	ND	
	06/17/99	ND	ND	ND	ND	ND	53.7	g	ND	
	09/13/99	ND	ND	ND	ND	ND	ND	ND	ND	
	12/28/99	ND	ND	ND	ND	ND	ND	ND	ND	
	03/02/00	ND	ND	ND	ND	ND	334		ND	
	06/30/00	ND	ND	ND	ND	ND	95.8		ND	
	09/29/00	ND	ND	ND	ND	ND	70.0	g	ND	
	12/28/00	ND	ND	ND	ND	ND	73.8	g	ND	
	03/26/01	ND	ND	ND	ND	ND	76.1	g	ND	
	06/28/01	ND	ND	ND	ND	ND	ND		ND	

Table 2
Groundwater Analytical Data
TPPH as Gasoline, BTEX Compounds, TEPH as Diesel and Motor Oil, and MtBE

2901 Glascock Street
 Oakland, California

Well Number	Date Sampled	TPPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TEPH as Diesel (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
	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	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
	12/28/99	ND	ND	ND	ND	ND	ND	ND	ND
	03/02/00	ND	ND	ND	ND	ND	50.6	ND	ND
	06/30/00	ND	ND	ND	ND	ND	77.5	ND	ND
	09/29/00	ND	ND	ND	ND	ND	ND	ND	ND
	12/28/00	ND	ND	ND	ND	ND	66.7	g	ND
	03/26/01	ND	ND	ND	ND	ND	67.9	g	ND
	06/28/01	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

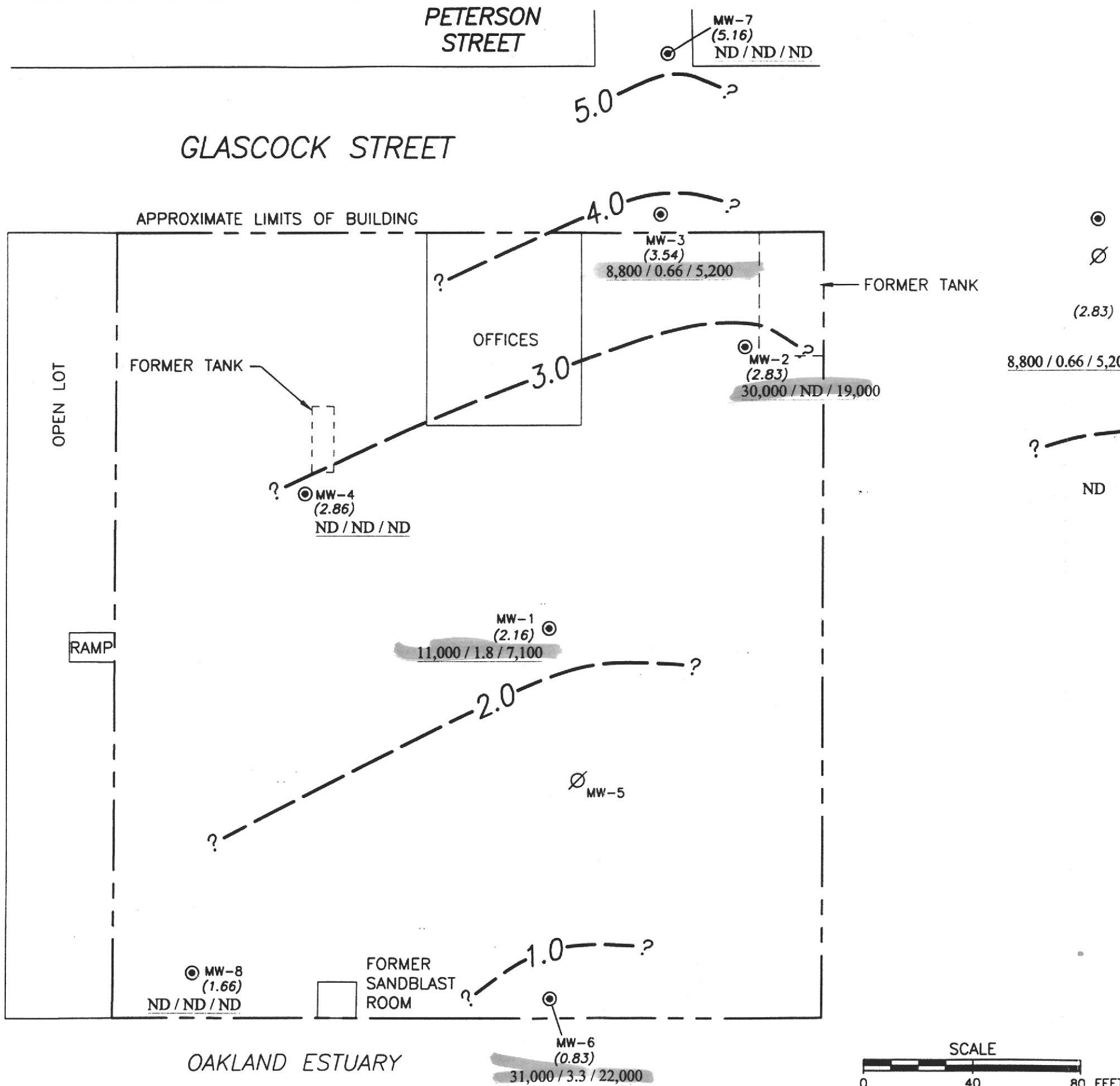
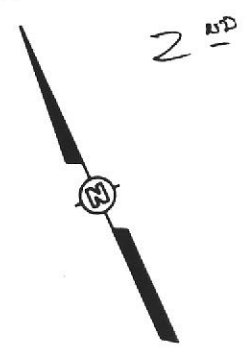
a. Chromatogram pattern is not gasoline, but volatile fraction of diesel quantified as gasoline.
 b. Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C12 range.
 c. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in C9 - C24 range.
 d. Chromatogram pattern is not motor oil, but unidentified hydrocarbons in C16 - C36 range.
 e. Chromatogram pattern is weathered diesel in C9 - C24 range.
 f. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C10.
 g. Chromatogram pattern is not diesel, but unidentified hydrocarbons in the C9 - C24 range.
 h. Chromatogram pattern is weathered gasoline.
 i. Chromatogram pattern is not gasoline, but unidentified hydrocarbons in C6 - C8 range.
 j. Chromatogram pattern is not motor oil, but unidentified hydrocarbons in the C16 to C34 range.
 k. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C5.
 l. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C12.
 m. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C18 - C40 range.
 n. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C9 - C40 range.
 o. Chromatogram pattern is not diesel, but unidentified hydrocarbons in the C9 - C40 range.
 p. Chromatogram pattern is a mixture of gasoline and unidentified hydrocarbons > C10.
 q. Chromatogram pattern is not gasoline, but unidentified hydrocarbons > C8.
 r. Chromatogram pattern is unidentified hydrocarbons in the C9 - C40 range.
 s. Chromatogram pattern is a mixture of weathered diesel and unidentified hydrocarbons in the C15 - C24 range.

DRAWING NUMBER 805385

APPROVED BY

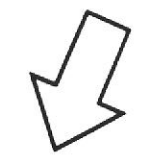
CHECKED BY

DRAWN BY

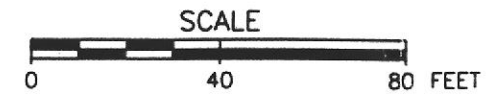


LEGEND

- ⊙ GROUNDWATER MONITORING WELL
- ∅ DESTROYED GROUNDWATER MONITORING WELL
- (2.83) GROUNDWATER ELEVATION (FT-MSL); MEASURED 6-28-01
- 8,800 / 0.66 / 5,200 TEPH-d/BENZENE/TEPH-mo CONCENTRATIONS IN GROUNDWATER (PARTS PER BILLION); 6-28-01
- ? - - - GROUNDWATER ELEVATION CONTOUR (FT-MSL)
- ND NOT DETECTED



APPROXIMATE DIRECTION OF GROUNDWATER FLOW
APPROXIMATE GRADIENT = 0.01



GLASCOCK STREET PROPERTIES

FIGURE 1
GROUNDWATER MONITORING RESULTS
SECOND QUARTER 2001
 2901 GLASCOCK STREET
 OAKLAND, CALIFORNIA

ATTACHMENT A
CARs, COC DOCUMENTATION, AND
FIELD DATA SHEETS



Sequoia Analytical

AUG 01 2001

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


19 July, 2001

Andrew Lehane
Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose, CA 95131

RE: 805385/Glascock
Sequoia Report: MKF0714

Enclosed are the results of analyses for samples received by the laboratory on 06/28/01 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James Hartley
Project Manager

CA ELAP Certificate #1210





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

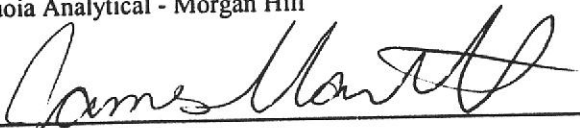
Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MKF0714-01	Water	06/28/01 11:30	06/28/01 15:30
MW-2	MKF0714-02	Water	06/28/01 12:05	06/28/01 15:30
MW-3	MKF0714-03	Water	06/28/01 09:25	06/28/01 15:30
MW-4	MKF0714-04	Water	06/28/01 10:10	06/28/01 15:30
MW-6	MKF0714-05	Water	06/28/01 10:10	06/28/01 15:30
MW-7	MKF0714-06	Water	06/28/01 09:00	06/28/01 15:30
MW-8	MKF0714-07	Water	06/28/01 10:30	06/28/01 15:30

Sequoia Analytical - Morgan Hill


James Hartley, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

***** DEFAULT GENERAL METHOD *****

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MKF0714-01) Water Sampled: 06/28/01 11:30 Received: 06/28/01 15:30									
Ferrous Iron	ND	0.10	mg/l	1	1G02016	06/29/01	07/02/01	Hach Co. 8146	
MW-2 (MKF0714-02) Water Sampled: 06/28/01 12:05 Received: 06/28/01 15:30									
Ferrous Iron	ND	0.10	mg/l	1	1G02016	06/29/01	07/02/01	Hach Co. 8146	
MW-3 (MKF0714-03) Water Sampled: 06/28/01 09:25 Received: 06/28/01 15:30									
Ferrous Iron	ND	0.10	mg/l	1	1G02016	06/29/01	07/02/01	Hach Co. 8146	
MW-4 (MKF0714-04) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Ferrous Iron	0.17	0.10	mg/l	1	1G02016	06/29/01	07/02/01	Hach Co. 8146	
MW-6 (MKF0714-05) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Ferrous Iron	ND	0.10	mg/l	1	1G02016	06/29/01	07/02/01	Hach Co. 8146	
MW-7 (MKF0714-06) Water Sampled: 06/28/01 09:00 Received: 06/28/01 15:30									
Ferrous Iron	0.12	0.10	mg/l	1	1G02016	06/29/01	07/02/01	Hach Co. 8146	
MW-8 (MKF0714-07) Water Sampled: 06/28/01 10:30 Received: 06/28/01 15:30									
Ferrous Iron	0.15	0.10	mg/l	1	1G02016	06/29/01	07/02/01	Hach Co. 8146	





Pacific Environmental Group/ IT 1921 Ringwood Avenue San Jose CA, 95131	Project: 805385/Glascock Project Number: 805385 Project Manager: Andrew Lehane	Reported: 07/19/01 15:50
---	--	------------------------------------

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MKF0714-01) Water Sampled: 06/28/01 11:30 Received: 06/28/01 15:30									
Purgeable Hydrocarbons	430	100	ug/l	2	1G11004	07/11/01	07/11/01	DHS LUFT	P-01
Benzene	1.8	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	1.4	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	6.0	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>95.0 %</i>	<i>70-130</i>		"	"	"	"	
MW-2 (MKF0714-02) Water Sampled: 06/28/01 12:05 Received: 06/28/01 15:30									
Purgeable Hydrocarbons	4100	1000	ug/l	20	1G11004	07/11/01	07/11/01	DHS LUFT	P-01
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>89.1 %</i>	<i>70-130</i>		"	"	"	"	
MW-3 (MKF0714-03) Water Sampled: 06/28/01 09:25 Received: 06/28/01 15:30									
Purgeable Hydrocarbons	610	50	ug/l	1	1G09003	07/09/01	07/09/01	DHS LUFT	P-03
Benzene	0.66	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>85.2 %</i>	<i>70-130</i>		"	"	"	"	





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MKF0714-04) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1G07003	07/07/01	07/07/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		98.7 %	70-130		"	"	"	"	
MW-6 (MKF0714-05) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Purgeable Hydrocarbons	620	50	ug/l	1	1G13004	07/13/01	07/13/01	DHS LUFT	H-06,P-03
Benzene	3.3	0.50	"	"	"	"	"	"	H-06
Toluene	0.76	0.50	"	"	"	"	"	"	H-06
Ethylbenzene	0.58	0.50	"	"	"	"	"	"	H-06
Xylenes (total)	1.6	0.50	"	"	"	"	"	"	H-06
Methyl tert-butyl ether	3.9	2.5	"	"	"	"	"	"	H-06
Surrogate: a,a,a-Trifluorotoluene		101 %	70-130		"	"	"	"	H-06
MW-7 (MKF0714-06) Water Sampled: 06/28/01 09:00 Received: 06/28/01 15:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1G07003	07/07/01	07/07/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	40	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		105 %	70-130		"	"	"	"	





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MKF0714-07) Water Sampled: 06/28/01 10:30 Received: 06/28/01 15:30									
Purgeable Hydrocarbons	ND	50	ug/l	1	1G10002	07/10/01	07/10/01	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.8 %		70-130	"	"	"	"	





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

Hydrocarbons as Motor Oil with Silica Gel Cleanup by DHS LUFT Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MKF0714-01) Water Sampled: 06/28/01 11:30 Received: 06/28/01 15:30									
Motor Oil (C16-C36)	7100	5000	ug/l	10	1G12026	07/12/01	07/18/01	DHS LUFT	D-19
Diesel Range Hydrocarbons	11000	500	"	"	"	"	"	"	D-14
Surrogate: n-Pentacosane		151 %	40-140		"	"	"	"	S-01,S-09
MW-2 (MKF0714-02) Water Sampled: 06/28/01 12:05 Received: 06/28/01 15:30									
Motor Oil (C16-C36)	19000	10000	ug/l	20	1G12026	07/12/01	07/18/01	DHS LUFT	D-19
Diesel Range Hydrocarbons	30000	1000	"	"	"	"	"	"	D-14
Surrogate: n-Pentacosane		223 %	40-140		"	"	"	"	S-01,S-09
MW-3 (MKF0714-03) Water Sampled: 06/28/01 09:25 Received: 06/28/01 15:30									
Motor Oil (C16-C36)	5200	5000	ug/l	10	1G12026	07/12/01	07/18/01	DHS LUFT	D-19
Diesel Range Hydrocarbons	8800	500	"	"	"	"	"	"	D-14
Surrogate: n-Pentacosane		226 %	40-140		"	"	"	"	S-01,S-09
MW-4 (MKF0714-04) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Motor Oil (C16-C36)	ND	500	ug/l	1	1G12026	07/12/01	07/13/01	DHS LUFT	
Diesel Range Hydrocarbons	ND	50	"	"	"	"	"	"	
Surrogate: n-Pentacosane		90.6 %	40-140		"	"	"	"	
MW-6 (MKF0714-05) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Motor Oil (C16-C36)	22000	10000	ug/l	20	1G12026	07/12/01	07/18/01	DHS LUFT	D-19
Diesel Range Hydrocarbons	31000	1000	"	"	"	"	"	"	D-14
Surrogate: n-Pentacosane		233 %	40-140		"	"	"	"	S-01,S-09
MW-7 (MKF0714-06) Water Sampled: 06/28/01 09:00 Received: 06/28/01 15:30									
Motor Oil (C16-C36)	ND	500	ug/l	1	1G12026	07/12/01	07/13/01	DHS LUFT	
Diesel Range Hydrocarbons	ND	50	"	"	"	"	"	"	
Surrogate: n-Pentacosane		91.7 %	40-140		"	"	"	"	





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

Hydrocarbons as Motor Oil with Silica Gel Cleanup by DHS LUFT Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (MKF0714-07) Water Sampled: 06/28/01 10:30 Received: 06/28/01 15:30									
Motor Oil (C16-C36)	ND	500	ug/l	1	1G12026	07/12/01	07/13/01	DHS LUFT	
Diesel Range Hydrocarbons	ND	50	"	"	"	"	"	"	
<i>Surrogate: n-Pentacosane</i>		91.3 %	40-140		"	"	"	"	





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

Anions by EPA Method 300.0 Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MKF0714-01) Water Sampled: 06/28/01 11:30 Received: 06/28/01 15:30									
Nitrate as NO3	0.40	0.10	mg/l	1	1G11017	06/29/01	06/29/01	EPA 300.0	
Sulfate as SO4	10	0.50	"	"	"	"	"	"	
MW-2 (MKF0714-02) Water Sampled: 06/28/01 12:05 Received: 06/28/01 15:30									
Nitrate as NO3	0.87	0.10	mg/l	1	1G11017	06/29/01	06/29/01	EPA 300.0	
Sulfate as SO4	0.84	0.50	"	"	"	"	"	"	
MW-3 (MKF0714-03) Water Sampled: 06/28/01 09:25 Received: 06/28/01 15:30									
Nitrate as NO3	0.58	0.10	mg/l	1	1G11017	06/29/01	06/29/01	EPA 300.0	
Sulfate as SO4	1.8	0.50	"	"	"	"	"	"	
MW-4 (MKF0714-04) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Nitrate as NO3	25	1.0	mg/l	10	1G11017	06/29/01	06/29/01	EPA 300.0	
Sulfate as SO4	49	5.0	"	"	"	"	"	"	
MW-6 (MKF0714-05) Water Sampled: 06/28/01 10:10 Received: 06/28/01 15:30									
Nitrate as NO3	0.32	0.10	mg/l	1	1G11017	07/03/01	07/03/01	EPA 300.0	H-02
Sulfate as SO4	0.72	0.50	"	"	"	"	"	"	H-02
MW-7 (MKF0714-06) Water Sampled: 06/28/01 09:00 Received: 06/28/01 15:30									
Nitrate as NO3	73	1.0	mg/l	10	1G11017	07/03/01	07/03/01	EPA 300.0	
Sulfate as SO4	100	5.0	"	"	"	"	"	"	H-02
MW-8 (MKF0714-07) Water Sampled: 06/28/01 10:30 Received: 06/28/01 15:30									
Nitrate as NO3	36	1.0	mg/l	10	1G11017	07/03/01	07/03/01	EPA 300.0	
Sulfate as SO4	160	5.0	"	"	"	"	"	"	





Pacific Environmental Group/ IT 1921 Ringwood Avenue San Jose CA, 95131	Project: 805385/Glascock Project Number: 805385 Project Manager: Andrew Lehane	Reported: 07/19/01 15:50
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***** DEFAULT GENERAL METHOD *** - Quality Control**
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G02016 - General Preparation										
Blank (1G02016-BLK1)										
Ferrous Iron	ND	0.10	mg/l							Prepared: 06/29/01 Analyzed: 07/02/01
LCS (1G02016-BS1)										
Ferrous Iron	0.370	0.10	mg/l	0.400		92.5	90-110			Prepared: 06/29/01 Analyzed: 07/02/01
Matrix Spike (1G02016-MS1)										
Ferrous Iron	0.486	0.10	mg/l	0.400	ND	113	80-120			Source: MKF0714-01 Prepared: 06/29/01 Analyzed: 07/02/01
Matrix Spike Dup (1G02016-MSD1)										
Ferrous Iron	0.432	0.10	mg/l	0.400	ND	99.2	80-120	11.8	20	Source: MKF0714-01 Prepared: 06/29/01 Analyzed: 07/02/01





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1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G07003 - EPA 5030B [P/T]

Blank (1G07003-BLK1)

Prepared & Analyzed: 07/07/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	9.65		"	10.0		96.5	70-130			

LCS (1G07003-BS1)

Prepared & Analyzed: 07/07/01

Benzene	8.48	0.50	ug/l	10.0		84.8	70-130			
Toluene	9.06	0.50	"	10.0		90.6	70-130			
Ethylbenzene	9.04	0.50	"	10.0		90.4	70-130			
Xylenes (total)	26.8	0.50	"	30.0		89.3	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.98		"	10.0		89.8	70-130			

LCS (1G07003-BS2)

Prepared & Analyzed: 07/07/01

Purgeable Hydrocarbons	222	50	ug/l	250		88.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	13.4		"	10.0		134	70-130			S-02

Matrix Spike (1G07003-MS1)

Source: MKF0714-04

Prepared & Analyzed: 07/07/01

Purgeable Hydrocarbons	227	50	ug/l	250	ND	90.8	60-140			
Surrogate: a,a,a-Trifluorotoluene	11.3		"	10.0		113	70-130			

Matrix Spike Dup (1G07003-MSD1)

Source: MKF0714-04

Prepared & Analyzed: 07/07/01

Purgeable Hydrocarbons	223	50	ug/l	250	ND	89.2	60-140	1.78	25	
Surrogate: a,a,a-Trifluorotoluene	11.1		"	10.0		111	70-130			





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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G09003 - EPA 5030B [P/T]

Blank (1G09003-BLK1)

Prepared & Analyzed: 07/09/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	9.13		"	10.0		91.3	70-130			

LCS (1G09003-BS1)

Prepared & Analyzed: 07/09/01

Benzene	8.50	0.50	ug/l	10.0		85.0	70-130			
Toluene	9.14	0.50	"	10.0		91.4	70-130			
Ethylbenzene	9.10	0.50	"	10.0		91.0	70-130			
Xylenes (total)	27.2	0.50	"	30.0		90.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.29		"	10.0		92.9	70-130			

LCS (1G09003-BS2)

Prepared & Analyzed: 07/09/01

Purgeable Hydrocarbons	218	50	ug/l	250		87.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	11.3		"	10.0		113	70-130			

LCS Dup (1G09003-BSD1)

Prepared & Analyzed: 07/09/01

Benzene	8.61	0.50	ug/l	10.0		86.1	70-130	1.29	25	
Toluene	9.19	0.50	"	10.0		91.9	70-130	0.546	25	
Ethylbenzene	9.03	0.50	"	10.0		90.3	70-130	0.772	25	
Xylenes (total)	27.5	0.50	"	30.0		91.7	70-130	1.10	25	
Surrogate: a,a,a-Trifluorotoluene	9.20		"	10.0		92.0	70-130			

Batch 1G10002 - EPA 5030B [P/T]

Blank (1G10002-BLK1)

Prepared & Analyzed: 07/10/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	9.29		"	10.0		92.9	70-130			

Sequoia Analytical - Morgan Hill

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1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G10002 - EPA 5030B [P/T]

LCS (1G10002-BS1)

Prepared & Analyzed: 07/10/01

Benzene	8.73	0.50	ug/l	10.0		87.3	70-130			
Toluene	9.19	0.50	"	10.0		91.9	70-130			
Ethylbenzene	9.58	0.50	"	10.0		95.8	70-130			
Xylenes (total)	27.3	0.50	"	30.0		91.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.44		"	10.0		94.4	70-130			

Matrix Spike (1G10002-MS1)

Source: MKF0755-15

Prepared & Analyzed: 07/10/01

Benzene	9.55	0.50	ug/l	10.0	ND	95.5	60-140			
Toluene	10.1	0.50	"	10.0	ND	101	60-140			
Ethylbenzene	10.4	0.50	"	10.0	ND	104	60-140			
Xylenes (total)	29.8	0.50	"	30.0	ND	99.3	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.70		"	10.0		97.0	70-130			

Matrix Spike Dup (1G10002-MSD1)

Source: MKF0755-15

Prepared & Analyzed: 07/10/01

Benzene	9.82	0.50	ug/l	10.0	ND	98.2	60-140	2.79	25	
Toluene	10.5	0.50	"	10.0	ND	105	60-140	3.88	25	
Ethylbenzene	10.6	0.50	"	10.0	ND	106	60-140	1.90	25	
Xylenes (total)	30.7	0.50	"	30.0	ND	102	60-140	2.98	25	
Surrogate: a,a,a-Trifluorotoluene	10.4		"	10.0		104	70-130			

Batch 1G11004 - EPA 5030B [P/T]

Blank (1G11004-BLK1)

Prepared & Analyzed: 07/11/01

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	9.63		"	10.0		96.3	70-130			





Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G11004 - EPA 5030B [P/T]										
LCS (1G11004-BS1)										
Prepared & Analyzed: 07/11/01										
Benzene	10.0	0.50	ug/l	10.0		100	70-130			
Toluene	10.0	0.50	"	10.0		100	70-130			
Ethylbenzene	10.0	0.50	"	10.0		100	70-130			
Xylenes (total)	30.6	0.50	"	30.0		102	70-130			
Methyl tert-butyl ether	44.3	2.5	"				70-130			
Surrogate: a,a,a-Trifluorotoluene	10.1		"	10.0		101	70-130			
LCS (1G11004-BS2)										
Prepared & Analyzed: 07/11/01										
Purgeable Hydrocarbons	226	50	ug/l	250		90.4	70-130			
Surrogate: a,a,a-Trifluorotoluene	14.0		"	10.0		140	70-130			S-02
LCS Dup (1G11004-BSD1)										
Prepared & Analyzed: 07/11/01										
Benzene	9.55	0.50	ug/l	10.0		95.5	70-130	4.60	25	
Toluene	9.87	0.50	"	10.0		98.7	70-130	1.31	25	
Ethylbenzene	9.66	0.50	"	10.0		96.6	70-130	3.46	25	
Xylenes (total)	29.7	0.50	"	30.0		99.0	70-130	2.99	25	
Surrogate: a,a,a-Trifluorotoluene	9.78		"	10.0		97.8	70-130			
Batch 1G13004 - EPA 5030B [P/T]										
Blank (1G13004-BLK1)										
Prepared & Analyzed: 07/13/01										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	9.97		"	10.0		99.7	70-130			





Sequoia Analytical

Morgan Hill, CA
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Pacific Environmental Group/ IT
921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G13004 - EPA 5030B [P/T]										
Prepared & Analyzed: 07/13/01										
LCS (1G13004-BS1)	10.3	0.50	ug/l	10.0		103	70-130			
Benzene	10.3	0.50	"	10.0		103	70-130			
Toluene	10.2	0.50	"	10.0		102	70-130			
Ethylbenzene	31.6	0.50	"	30.0		105	70-130			
Xylenes (total)	9.83		"	10.0		98.3	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>										
Prepared & Analyzed: 07/13/01										
LCS (1G13004-BS2)	218	50	ug/l	250		87.2	70-130			S-02
Purgeable Hydrocarbons	13.9		"	10.0		139	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>										
Source: MKG0165-01										
Prepared & Analyzed: 07/13/01										
Matrix Spike (1G13004-MS1)	10.2	0.50	ug/l	10.0	ND	102	60-140			
Benzene	10.0	0.50	"	10.0	ND	100	60-140			
Toluene	9.98	0.50	"	10.0	ND	99.8	60-140			
Ethylbenzene	30.8	0.50	"	30.0	ND	103	60-140			
Xylenes (total)	9.57		"	10.0		95.7	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>										
Source: MKG0165-01										
Prepared & Analyzed: 07/13/01										
Matrix Spike Dup (1G13004-MSD1)	10.5	0.50	ug/l	10.0	ND	105	60-140	2.90	25	
Benzene	10.4	0.50	"	10.0	ND	104	60-140	3.92	25	
Toluene	10.1	0.50	"	10.0	ND	101	60-140	1.20	25	
Ethylbenzene	31.5	0.50	"	30.0	ND	105	60-140	2.25	25	
Xylenes (total)	10.1		"	10.0		101	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>										

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Pacific Environmental Group/ IT
1921 Ringwood Avenue
San Jose CA, 95131

Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

Hydrocarbons as Motor Oil with Silica Gel Cleanup by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G12026 - EPA 3510B										
Blank (1G12026-BLK1) Prepared: 07/12/01 Analyzed: 07/13/01										
Motor Oil (C16-C36)	ND	500	ug/l							
Diesel Range Hydrocarbons	ND	50	"							
Surrogate: n-Pentacosane	92.4		"	100		92.4	40-140			
LCS (1G12026-BS1) Prepared: 07/12/01 Analyzed: 07/13/01										
Diesel Range Hydrocarbons	698	50	ug/l	1000		69.8	40-140			
Surrogate: n-Pentacosane	92.8		"	100		92.8	40-140			
Matrix Spike (1G12026-MS1) Source: MKF0714-01 Prepared: 07/12/01 Analyzed: 07/18/01										
Diesel Range Hydrocarbons	16200	500	ug/l	1000	11000	520	40-140			Q-02
Surrogate: n-Pentacosane	182		"	100		182	40-140			S-01
Matrix Spike Dup (1G12026-MSD1) Source: MKF0714-01 Prepared: 07/12/01 Analyzed: 07/18/01										
Diesel Range Hydrocarbons	14600	500	ug/l	1000	11000	360	40-140	10.4	50	Q-02
Surrogate: n-Pentacosane	169		"	100		169	40-140			S-01





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Project: 805385/Glascock
Project Number: 805385
Project Manager: Andrew Lehane

Reported:
07/19/01 15:50

Anions by EPA Method 300.0 - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1G11017 - General Preparation										
Blank (1G11017-BLK1) Prepared & Analyzed: 06/29/01										
Nitrate as NO3	ND	0.10	mg/l							
Sulfate as SO4	ND	0.50	"							
LCS (1G11017-BS1) Prepared & Analyzed: 06/29/01										
Nitrate as NO3	9.74	0.10	mg/l	10.0		97.4	90-110			
Sulfate as SO4	9.62	0.50	"	10.0		96.2	90-110			
Matrix Spike (1G11017-MS1) Source: MKF0714-04 Prepared & Analyzed: 06/29/01										
Nitrate as NO3	120	1.0	mg/l	100	25	95.0	80-120			
Sulfate as SO4	148	5.0	"	100	49	99.0	80-120			
Matrix Spike Dup (1G11017-MSD1) Source: MKF0714-04 Prepared & Analyzed: 06/29/01										
Nitrate as NO3	119	1.0	mg/l	100	25	94.0	80-120	0.837	20	
Sulfate as SO4	148	5.0	"	100	49	99.0	80-120	0.00	20	





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Notes and Definitions

- D-14 Chromatogram Pattern: Weathered Diesel C9-C24
- D-19 Chromatogram pattern: Unidentified Hydrocarbons C16-C36.
- H-02 This sample was analyzed outside of EPA recommended hold time.
- H-06 The result reported was generated out of hold time. The sample was originally run within hold time, but needed to be re-analyzed.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
- Q-02 The spike recovery for this quality control sample is outside of the established control limits due to interference from the sample matrix. However, the accuracy of the data was validated by a laboratory control sample which was within acceptance limits.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- S-09 The closing calibration surrogate recovery was outside acceptable limit of 15% by 4%. 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
- RPD Relative Percent Difference



FIELD SERVICES REQUEST

SITE INFORMATION FORM

Identification
Project # 805385-01000000
Station ID Former Dorr-Olive Site
Site Address: 2901 Glascock St.
Oakland
Lab: Sequoia
County: Alameda
Project Manager: Andrew D. Lehane
Requester: ADL
Client: Glascock Street Properties
Client P.O.C: Dennis Buran
Date of Request: December 11, 2000

Project Type
 Operation & Maintenance
 Sampling
 1st time visit
 Quarterly
 1st 2nd 3rd 4th
 Monthly
 Semi-Monthly
 Weekly
 One time event
 Other:
Ideal field date: **December**

Site Check Appropriate Category

In Budget Visit
 Out of Budget Site Visit

Budget Hours: _____

Actual Hours: _____

Mob de Mob: _____

Site Safety Concerns

STANDARD

Field Tasks General Description

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

WAREHOUSE 510)5301788

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

Quarterly, all wells

TPPH-g, TEPH-d*, TEPH-mo*, BTEX, MtBE, nitrates, sulfates,
*ferrous iron **PRESERVE UPON ARRIVAL*

Annually (1st qtr), MW-6 and MW-8

cadmium, chromium, lead, nickel, zinc, and chlorinated hydrocarbons (8010)

* Request on COC "Fuel Fingerprint as diesel and motor oil with filtration by 0.7 micron glass TCLP filter followed by silica gel clean-up by method 3630B without solvent exchange"

4. Ideal sampling order: MW-4, MW-7, MW-8, MW-3, MW-6, MW-1, MW-2
5. Purge water to be disposed of at Seaport, Redwood City.

Comments, remarks from field staff

Completed By: 

Date: *0228.01*

Pacific Environmental Group, Inc.

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock st WELL ID #: Mw-4

CLIENT/STATION No.: Torr. Oliver Site FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

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

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

CASING

DIAMETER GAL/LINEAR FT.
 2 _____ 0.17
 3 _____ 0.38
 4 _____ 0.66
 4.5 _____ 0.83
 5 _____ 1.02
 6 _____ 1.5
 8 _____ 2.6

SAMPLE TYPE

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

TD 19.00 DTW 8.00 11.0 Gal/Linear Foot .17 = 1.90 x Number of Casings 3 = Calculated Purge 5.71

DATE PURGED: 60801 START: 11:15 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 60801 START: 11:30 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>11:18</u>	<u>1.90</u>	<u>7.82</u>	<u>1270</u>	<u>66.0</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>11:22</u>	<u>4</u>	<u>7.83</u>	<u>1260</u>	<u>65.5</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>11:26</u>	<u>0</u>	<u>7.83</u>	<u>1250</u>	<u>65.1</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: _____ Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: DISPOS.
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>Mw-4</u>	<u>60801</u>	<u>11:30</u>	<u>3</u>	<u>40ml</u>	<u>Uoa</u>	<u>HCL</u>	<u>Gas, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPH-P, TPH-MO</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>NP</u>	<u>Nitrate, Sulfate</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>NP</u>	<u>FERROSIRON</u>

REMARKS: DO: 10.0 - 099
ORP: 039 - 98
1L PLAST H2O2 METALS

SIGNATURE: _____

[Handwritten Signature]



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock st WELL ID #: MW-2

CLIENT/STATION No.: Torr Oliver Site FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

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

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

CASING

DIAMETER GAL/LINEAR FT.
 2 _____ 0.17
 3 _____ 0.38
 4 _____ 0.66
 4.5 _____ 0.83
 5 _____ 1.02
 6 _____ 1.5
 8 _____ 2.6

SAMPLE TYPE

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

TD 17-75 DTW 7-80 995 x Gal/Linear Foot 1.7 = 1.69 x Casings 3 = Calculated Purge 507

DATE PURGED: 60801 START: 11:46 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 60801 START: 12:05 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>11:49</u>	<u>1.75</u>	<u>7.24</u>	<u>1510</u>	<u>68.3</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>Strong</u>
<u>11:53</u>	<u>3.5</u>	<u>7.23</u>	<u>1490</u>	<u>67.2</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>Strong</u>
<u>11:57</u>	<u>5.25</u>	<u>7.25</u>	<u>1480</u>	<u>66.9</u>	<u>Cloudy</u>	<u>Heavy</u>	<u>Strong</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: _____ Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

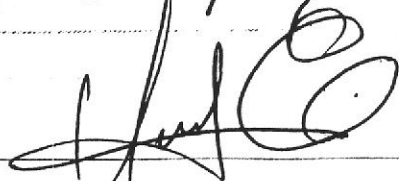
Bailer: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW2</u>	<u>60801</u>	<u>12:05</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>Gas, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>Np</u>	<u>T.P.H.-P, T.P.H.-MO</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>Np</u>	<u>Nitrate, Sulfate</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>Np</u>	<u>FERROSI-IRON</u>

REMARKS: DO: 2.8 / 1.6 1L PLAST H2O3 METALS

ORP: -080 / -071

SIGNATURE: _____




FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock st WELL ID #: MW-3

CLIENT/STATION No.: Torr. Oliver Site FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

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

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

CASING DIAMETER	GAL/LINEAR FT.
<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 11.80 DTW 6.33 13.47 Gal/Linear Foot .17 = 228 Number of Casings 3 Calculated Purge 6.86

DATE PURGED: 6/28/01 START: 9:13 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 6/28/01 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
<u>9:16</u>	<u>2.25</u>	<u>7.35</u>	<u>1380</u>	<u>65.8</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:19</u>	<u>4.5</u>	<u>7.36</u>	<u>1300</u>	<u>65.4</u>	<u>Cloudy</u>	<u>Mod</u>	<u>None</u>
<u>9:22</u>	<u>6.75</u>	<u>7.37</u>	<u>1300</u>	<u>64.7</u>	<u>Clear</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: _____
- Other: _____
- Airlift Pump: _____
- Dedicated: _____

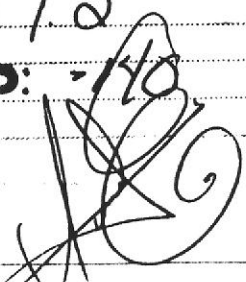
SAMPLING EQUIPMENT/I.D. #

- Bailer: 15.5
- Dedicated: _____
- Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW3</u>	<u>6/28/01</u>	<u>9:25</u>	<u>3</u>	<u>40ml</u>	<u>Voa</u>	<u>HCL</u>	<u>Gas, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>T.P.H.-P, T.P.H.-M0</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>NP</u>	<u>Nitrate, Sulfate</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>NP</u>	<u>FERROSI-IRON</u>

REMARKS: DO: 1.2
ORP: -140
INSTALL-DRILL TOP 2 NEW BOLTS ON WELL BOX LID 5/8"

SIGNATURE: _____




FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock st WELL ID #: MW-4

CLIENT/STATION No.: Torr Oliver Site FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

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

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

CASING DIAMETER	GAL/LINEAR FT.
<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 19.70 DTW 7.78 = 11.92 Gal/Linear Foot 1.7 = 2.02 x Number of Casings 3 = Calculated Purge 607

DATE PURGED: 60801 START: 9:55 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 60801 START: 10:10 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>9:58</u>	<u>2</u>	<u>7.54</u>	<u>892</u>	<u>65.2</u>	<u>Cloudy</u>	<u>1.0</u>	<u>None</u>
<u>10:02</u>	<u>4</u>	<u>7.50</u>	<u>887</u>	<u>64.5</u>	<u>Cloudy</u>	<u>1.0</u>	<u>None</u>
<u>10:05</u>	<u>6</u>	<u>7.50</u>	<u>884</u>	<u>64.1</u>	<u>Cloudy</u>	<u>1.0</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: _____
 Other: _____
 Airlift Pump: _____
 Dedicated: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: 15.0
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-4</u>	<u>60801</u>	<u>10:10</u>	<u>3</u>	<u>40ml</u>	<u>Voa</u>	<u>HCL</u>	<u>Gas, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>Np</u>	<u>TPH-P, TPH-MO</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>Np</u>	<u>Nitrate, Sulfate</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>Np</u>	<u>FERROSIRON</u>
REMARKS:				<u>1L</u>	<u>PLAST</u>	<u>H2O2</u>	<u>Metals</u>

DO: 2.4
 ORP: 078

SIGNATURE: _____




FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock st WELL ID #: MW-6

CLIENT/STATION No.: Ferr. Oliver Site FIELD TECHNICIAN: Pedro E. Ruiz

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	<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: _____	

TDL 9.60 DTW 9.45 = 10.05 Gal/Linear Foot .17 = 1.70 x Number of Casings 3 = Calculated Purge 5.12

DATE PURGED: 6/28/01 START: 10:40 END (2400 hr): _____ PURGED BY: PE

DATE SAMPLED: 6/28/01 START: 11:00 END (2400 hr): _____ SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>10:44</u>	<u>1.75</u>	<u>7.43</u>	<u>1410</u>	<u>65.1</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>10:48</u>	<u>3.5</u>	<u>7.44</u>	<u>1380</u>	<u>64.2</u>	<u>Cloudy</u>	<u>Mod</u>	<u>Mod</u>
<u>10:52</u>	<u>5.05</u>	<u>7.44</u>	<u>1360</u>	<u>63.9</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: _____ Dedicated: _____

Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: D.5003.

Dedicated: _____

Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW6</u>	<u>6/28/01</u>	<u>11:00</u>	<u>3</u>	<u>40ml</u>	<u>UOA</u>	<u>HCL</u>	<u>CAS, DTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>Np</u>	<u>TPH-O, TPH-MO</u>
		<u>1.2</u>	<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>Np</u>	<u>NITRATE, SULFATE</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>Np</u>	<u>FERROS/IRON</u>

REMARKS: DO: 1.2 / 1.0

ORP: -117 / -112

SIGNATURE: _____



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock st WELL ID #: MW-7

CLIENT/STATION No.: Torr. Oliver Site FIELD TECHNICIAN: Pedro E. Ruiz

WELL INFORMATION

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

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

CASING

DIAMETER	GAL/ LINEAR FT.
<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 17-75 - DTW 4.70 = 1305 Gal/Linear Foot 17 = 221 x Number of Casings 3 = Calculated Purge 6.65

DATE PURGED: 60801 START: 8:50 END (2400 hr): _____ PURGED BY: RE
 DATE SAMPLED: 60801 START: 9:00 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>8:53</u>	<u>2.05</u>	<u>7.31</u>	<u>1500</u>	<u>66.7</u>	<u>Cloudy</u>	<u>None</u>	<u>None</u>
<u>8:56</u>	<u>4.5</u>	<u>7.34</u>	<u>1510</u>	<u>66.9</u>	<u>Cloudy</u>	<u>Light</u>	<u>None</u>
<u>8:59</u>	<u>6.75</u>	<u>7.40</u>	<u>1520</u>	<u>67.2</u>	<u>Cloudy</u>	<u>Light</u>	<u>None</u>

Pumped dry Yes / (No) 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: _____ Dedicated: _____
 Other: _____

SAMPLING EQUIPMENT/I.D. #

Bailer: 15-2
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW-7</u>	<u>60801</u>	<u>9:00</u>	<u>3</u>	<u>40ml</u>	<u>Voa</u>	<u>HCL</u>	<u>Gas, BTEX, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPH-P, TPH-MO</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>NP</u>	<u>Nitrate, Sulfate</u>
			<u>1</u>	<u>500</u>	<u>PLAST</u>	<u>NP</u>	<u>FERROSI/IRON</u>

REMARKS: DO: 3.2 IL PLAST H2O3 METALS

ORP: 0.12

SIGNATURE: _____

