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December 18, 2001
Project 805385

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

Re: **Quarterly Report - Fourth 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 fourth 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 November 1, 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 selected wells before and after purging.

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 0.3 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 120 to 640 micrograms per liter (µg/L) (Figure 1). The results were characterized as within the diesel range, but not matching a diesel standard (see Table 2 and CARs).

TEPH-mo was not detected in any of the wells this quarter.

Benzene was detected in two wells, MW-1 and MW-6, at concentrations of 3.4 and 2.5 µg/L, respectively.

MtBE was reported in the groundwater sample from only one well, MW-7, at a concentration of 7.6 µg/L. Well MW-7 is 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.

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.

In our letter of October 19, 2001, IT indicated that fourth quarter monitoring results would be evaluated to determine whether or not a modification to the remedial strategy was warranted. The Alameda County Health Care Services Agency (ACHCSA) had requested the remedial strategy be modified, based largely on the second quarter

monitoring results. IT believes the second quarter monitoring results were an anomaly, possibly due to laboratory error, rather than an indication that there is a significant change in the overall groundwater concentration trend. In our opinion, the fourth quarter data demonstrate a continued decline in residual concentrations, and continued progress toward cleanup goals. Groundwater monitoring results for TEPH-d, TEPH-mo, and benzene this quarter were all in compliance with the groundwater cleanup goals set for this site. As such, IT recommends that quarterly monitoring continue in accordance with the existing program, and that no modifications be made to the remediation program at this time.

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. X'648.

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, Fourth Quarter 2001
Attachment A	CARs, COC Documentation, and Field Data Sheets

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
	09/18/01		8.46	2.30
	11/01/01		8.35	2.41
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
	09/18/01		8.30	2.33
	11/01/01		8.10	2.53
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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2901 Glascock Street
Oakland, California

Well Number	Date Gauged	Well Elevation (feet, MSL)	Depth to Water (feet, TOC)	Groundwater Elevation (feet, MSL)
MW-3	03/21/97		5.72	4.15
(cont'd)	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
	09/18/01		6.92	2.95
	11/01/01		6.45	3.42
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
	09/18/01		8.20	2.44
	11/01/01		7.83	2.81
MW-5	05/15/95	10.61	7.54	3.07
	08/28/95		8.44	2.17
	12/06/95		8.34	2.27
	01/18/96	10.61	7.15	3.46
	03/08/96		7.54	3.07
	07/02/96		9.45	1.16
	12/17/96		NA a	NA
			- well 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	09/29/97		9.95	0.33
(cont'd)	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
	09/18/01		9.00	1.28
	11/01/01		8.75	1.53
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
	09/18/01		5.44	4.42
	11/01/01		4.91	4.95
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
	09/18/01		8.82	1.79
	11/01/01		8.75	1.86

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)	Ethyl-benzene (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
	09/18/01	210	b	6.3	ND	ND	1.1	NA		NA		20
	11/01/01	130	b	3.4	ND	ND	ND	120	g	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	l	ND	ND	ND	ND	11,000	n	ND		ND
	09/11/98	NA		NA	NA	NA	NA	6,100	g	ND		NA
	12/24/98	990	b	ND	6.8	9.1	17	2,000	g	1,200	d	ND
	3/3/1/99	580	p	1.3	2.2	ND	0.99	21,000	g	14,000	d	ND
	06/17/99	525		ND	ND	ND	ND	ND		ND		ND
	09/13/99	392		1.28	3.98	ND	1.22	1,380		617		ND
	12/28/99	2,950		ND	ND	ND	ND	963		627		ND
	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
	09/18/01	980	b	1.0	1.4	ND	0.88	NA		NA		2.6
	11/01/01	490	b	ND	0.92	ND	ND	640	g	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)	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	ND	640		ND		ND
	12/17/96	240	f	ND	ND	ND	ND	560	e	ND		ND
	03/21/97	760	h	ND	ND	ND	0.94	2,100	e	1900	d	5.6
	05/16/97	NA		NA	NA	NA	NA	NA		NA		NA
	06/25/97	180	h	ND	ND	ND	0.58	610	g	ND		5.3
	09/29/97	84	i	ND	ND	ND	ND	470	g	ND		ND
	12/11/97	ND		ND	ND	ND	ND	380	e	ND		ND
	03/27/98	ND		ND	ND	ND	ND	220	g	ND		ND
	06/26/98	68	b	ND	ND	ND	ND	210	g	ND		ND
	09/11/98	110	l	ND	ND	ND	ND	320	o	ND		ND
	09/11/98	NA		NA	NA	NA	NA	210	g	ND		NA
	12/24/98	ND		ND	ND	ND	ND	220	g	ND		ND
	03/31/99	73	q	ND	ND	ND	ND	680	r	580	r	ND
	06/17/99	72		ND	ND	ND	0.696	325	g	516	d	ND
	09/13/99	80		ND	ND	ND	ND	203		ND		12.7
	12/28/99	331		ND	ND	ND	1.16	314		ND		6.92
	03/02/00	84		ND	ND	ND	ND	1,370		ND		ND
	06/30/00	87.5	b	ND	ND	ND	0.599	100		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	8,800		5,200	d	ND
	09/18/01	870	b	1.3	ND	ND	1.6	NA		NA		ND
	11/01/01	700	b	ND	ND	ND	ND	400	g	ND		ND
MW-4	10/06/94	NA		ND	ND	ND	ND	ND		NA		NA
	01/20/95	ND		ND	ND	ND	ND	ND		NA		NA
	05/15/95	ND		ND	ND	ND	ND	ND		NA		NA
	08/28/95	ND		ND	ND	ND	ND	ND		NA		NA
	11/29/95	NA		NA	NA	NA	NA	NA		NA		NA
	12/06/95	ND		ND	ND	ND	ND	57		NA		NA
	01/18/96	NA		NA	NA	NA	NA	ND		NA		NA
	03/08/96	ND		ND	ND	ND	ND	100		NA		ND
	07/02/96	ND		ND	ND	ND	ND	ND		ND		ND
	12/17/96	ND		ND	ND	ND	ND	310	g	530	d	ND
	03/21/97	ND		ND	ND	ND	ND	180	g	500	d	ND
	06/25/97	ND		ND	ND	ND	ND	120	g	ND		ND
	09/29/97	ND		ND	ND	ND	ND	130	g	ND		ND
	12/11/97	ND		ND	ND	ND	ND	57	g	ND		ND
	03/27/98	ND		ND	ND	ND	ND	ND		ND		ND
	06/26/98	ND		ND	ND	ND	ND	ND		ND		ND
	09/11/98	ND		ND	ND	ND	ND	ND		ND		ND
	09/11/98	NA		NA	NA	NA	NA	230	g	ND		NA
	12/24/98	ND		ND	ND	ND	ND	65	g	ND		ND
	03/31/99	ND		ND	ND	ND	ND	140	r	ND		ND
	06/17/99	ND		ND	ND	ND	ND	ND		ND		ND
	09/13/99	ND		ND	ND	ND	ND	ND		ND		ND
	12/28/99	ND		ND	ND	ND	ND	ND		ND		4.14
	03/02/00	ND		ND	ND	ND	ND	247		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
	09/18/01	ND		ND	ND	ND	ND	NA		NA		ND
	11/01/01	ND		ND	ND	ND	ND	ND		ND		ND

Need pages 3+4 of Table 2.

Table 3

Additional Groundwater Analytical Data

Ferrous Iron, Nitrate as NO_3, Sulfate as SO_4, Dissolved Oxygen, Oxidation-Reduction Potential

2901 Glascock Street
Oakland, California

Well	Date Sampled	Ferrous Iron (mg/L)	Nitrate as NO_3 (mg/L)	Sulfate as SO_4 (mg/L)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential
MW-1	06/17/99	----	----	----	1.8	----
	09/13/99	----	----	----	4.6	----
	12/28/99	----	----	----	8.3	----
	03/02/00	----	----	----	6.2	----
	06/30/00	----	----	----	6.0	----
	09/29/00	----	----	----	5.2	----
	12/28/00	0.311	ND*	12.0	2.0/2.0	-71/-100
	03/26/01	0.247*	ND	12.0	1/2	-96/-106
	06/28/01	ND	0.40	10	10/9.6	39/-98
	09/18/01	ND	ND	10	8/3	-54/-86
	11/01/01	ND	1.6	9.9	4.2/2.8	-10/19
MW-2	06/17/99	----	----	----	2.2	----
	09/13/99	----	----	----	2.0	----
	12/28/99	----	----	----	NM (cloudy)	----
	03/02/00	----	----	----	5.2	----
	06/30/00	----	----	----	5.4	----
	09/29/00	----	----	----	4.8	----
	12/28/00	0.0505	ND*	0.33	2.0/2.0	-69/-72
	03/26/01	0.482*	ND	ND	2/2	-61/-95
	06/28/01	ND	0.87	0.84	2.8/1.6	-80/-71
	09/18/01	0.10	ND	1.1	2/2	-73/-91
	11/01/01	ND	1.6	13	1.2/1.0	-57/-99
MW-3	12/28/00	0.0580	ND*	12.0	2.0/2.0	56/-46
	03/26/01	0.051*	5.86	17.5	NM	NM
	06/28/01	ND	0.58	1.8	1.2	-140
	09/18/01	ND	ND	0.61	NM	NM
	11/01/01	ND	ND	1.6	NM	NM
MW-4	12/28/00	0.0308	22*	48.0	4.0/4.0	5/20
	03/26/01	1.37*	20.4	48.0	NM	NM
	06/28/01	0.17	25	49	2.4	78
	09/18/01	0.18	28	54	NM	NM
	11/01/01	ND	30	61	NM	NM
MW-6	06/17/99	----	----	----	1.6	----
	09/13/99	----	----	----	2.2	----
	12/28/99	----	----	----	NM (cloudy)	----
	03/02/00	----	----	----	1.8	----
	06/30/00	----	----	----	1.4	----
	09/29/00	----	----	----	1.8	----
	12/28/00	0.444	ND*	0.24	3.0/3.0	-61/-104
	03/26/01	0.765*	ND	ND	2/2	-102/-138
	06/28/01	ND	0.32	0.72	1.2/1.0	-117/-112
	09/18/01	ND	ND	0.64	3/2	-53/-112
	11/01/01	ND	ND	1.3	2.0/2.4	-119/-115
MW-7	12/28/00	ND	80.0*	100	2.0/3.0	-15/11
	03/26/01	0.199*	69.6	96.8	NM	NM
	06/28/01	0.12	73	100	3.2	12
	09/18/01	ND	82	96	NM	NM
	11/01/01	ND	77	98	NM	NM
MW-8	12/28/00	ND	50.0*	120	4.0/4.0	82/84
	03/26/01	139*	32.5	138	NM	NM
	06/28/01	0.15	36	160	6.2	99
	09/18/01	ND	42	120	NM	NM
	11/01/01	ND	43	110	NM	NM

mg/L	= Milligrams per Liter
NM	= Not measured
ND	= Not detected (see certified analytical reports for detection limits)
*	= Sample analyzed outside of the EPA recommended holding time
2.0/3.0	= Before purging well/After purging well

DRAWING NUMBER 805385
APPROVED BY
CHECKED BY
DRAWN BY K. Block 12-18-01

PETERSON STREET

GLASCOCK STREET

APPROXIMATE LIMITS OF BUILDING

OPEN LOT

OFFICES

FORMER TANK

FORMER TANK

RAMP

FORMER SANDBLAST ROOM

MW-7 (4.95) ND / ND / ND

MW-3 (3.42) 400 / ND / ND

MW-2 (2.53) 640 / ND / ND

MW-4 (2.81) ND / ND / ND

MW-1 (2.41) 120 / 3.4 / ND

MW-5

MW-8 (1.86) ND / ND / ND

MW-6 (1.53) 290 / 2.5 / ND

4.0

3.0

2.0

?

OAKLAND ESTUARY

LEGEND

- ⊙ GROUNDWATER MONITORING WELL
- Ø DESTROYED GROUNDWATER MONITORING WELL
- (2.53) GROUNDWATER ELEVATION (FT-MSL); MEASURED 11-1-01
- 120 / 3.4 / ND TEPH-d/BENZENE/TEPH-mo CONCENTRATIONS IN GROUNDWATER (PARTS PER BILLION); 11-1-01
- ? — — GROUNDWATER ELEVATION CONTOUR (FT-MSL)
- ND NOT DETECTED

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

APPROXIMATE GRADIENT = 0.01

SCALE 0 40 80 FEET

IT CORPORATION

ICONCO

FIGURE 1

GROUNDWATER MONITORING RESULTS FOURTH QUARTER 2001

2901 GLASCOCK STREET
OAKLAND, CALIFORNIA

/ N:\cad\DWG\805385\Gwc.dwg Tue, 18/Dec/01 03:17pm kblack

ATTACHMENT A
CARs, COC DOCUMENTATION, AND FIELD DATA SHEETS

Submission #: 2001-11-0043

Date: November 13, 2001

SEVERN TRENT SERVICES

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

IT Group San Jose

1921 Ringwood Avenue
San Jose, CA 95131

Ken Loy

Project: 805.385
Oliver Site

Attached is our report for your samples received on Thursday November 1, 2001
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after December 16, 2001 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: ssidhu@chromalab.com

Sincerely,

Surinder Sidhu

Surinder Sidhu
Project Manager

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M 8021B

Prep Method: 5030

STL Chromalab
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www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**MW-1**	Lab Sample ID:	2001-11-0043-001
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 13:33
Sampled:	11/01/2001 11:45	QC-Batch:	2001/11/09-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	130	50	ug/L	1.00	11/09/2001 13:33	g
Benzene	3.4	0.50	ug/L	1.00	11/09/2001 13:33	
Toluene	ND	0.50	ug/L	1.00	11/09/2001 13:33	
Ethyl benzene	ND	0.50	ug/L	1.00	11/09/2001 13:33	
Xylene(s)	ND	0.50	ug/L	1.00	11/09/2001 13:33	
MTBE	ND	5.0	ug/L	1.00	11/09/2001 13:33	
Surrogate(s)						
Trifluorotoluene	103.6	58-124	%	1.00	11/09/2001 13:33	
4-Bromofluorobenzene-FID	89.5	50-150	%	1.00	11/09/2001 13:33	

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M
8021B

Prep Method: 5030

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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**MW-2**	Lab Sample ID:	2001-11-0043-002
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 14:09
Sampled:	11/01/2001 12:35	QC-Batch:	2001/11/09-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	490	50	ug/L	1.00	11/09/2001 14:09	g
Benzene	ND	0.50	ug/L	1.00	11/09/2001 14:09	
Toluene	0.92	0.50	ug/L	1.00	11/09/2001 14:09	
Ethyl benzene	ND	0.50	ug/L	1.00	11/09/2001 14:09	
Xylene(s)	ND	0.50	ug/L	1.00	11/09/2001 14:09	
MTBE	ND	5.0	ug/L	1.00	11/09/2001 14:09	
Surrogate(s)						
Trifluorotoluene	82.3	58-124	%	1.00	11/09/2001 14:09	
4-Bromofluorobenzene-FID	105.0	50-150	%	1.00	11/09/2001 14:09	

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M 8021B

Prep Method: 5030

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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**MW-3**	Lab Sample ID:	2001-11-0043-003
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 13:37
Sampled:	11/01/2001 09:00	QC-Batch:	2001/11/09-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	700	50	ug/L	1.00	11/09/2001 13:37	g
Benzene	ND	0.50	ug/L	1.00	11/09/2001 13:37	
Toluene	ND	0.50	ug/L	1.00	11/09/2001 13:37	
Ethyl benzene	ND	0.50	ug/L	1.00	11/09/2001 13:37	
Xylene(s)	ND	0.50	ug/L	1.00	11/09/2001 13:37	
MTBE	ND	5.0	ug/L	1.00	11/09/2001 13:37	
Surrogate(s)						
Trifluorotoluene	91.4	58-124	%	1.00	11/09/2001 13:37	
4-Bromofluorobenzene-FID	107.9	50-150	%	1.00	11/09/2001 13:37	

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M 8021B

Prep Method: 5030

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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**MW-4**	Lab Sample ID:	2001-11-0043-004
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 01:07
Sampled:	11/01/2001 09:40	QC-Batch:	2001/11/08-01.02
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/09/2001 01:07	
Benzene	ND	0.50	ug/L	1.00	11/09/2001 01:07	
Toluene	ND	0.50	ug/L	1.00	11/09/2001 01:07	
Ethyl benzene	ND	0.50	ug/L	1.00	11/09/2001 01:07	
Xylene(s)	ND	0.50	ug/L	1.00	11/09/2001 01:07	
MTBE	ND	5.0	ug/L	1.00	11/09/2001 01:07	
Surrogate(s)						
Trifluorotoluene	113.5	58-124	%	1.00	11/09/2001 01:07	
4-Bromofluorobenzene-FID	103.9	50-150	%	1.00	11/09/2001 01:07	

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

IT Group San Jose

Test Method: 8015M 8021B

Attn: Ken Loy

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**MW-6**	Lab Sample ID:	2001-11-0043-005
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 13:04
Sampled:	11/01/2001 10:55	QC-Batch:	2001/11/09-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	600	50	ug/L	1.00	11/09/2001 13:04	g
Benzene	2.5	0.50	ug/L	1.00	11/09/2001 13:04	
Toluene	ND	0.50	ug/L	1.00	11/09/2001 13:04	
Ethyl benzene	ND	0.50	ug/L	1.00	11/09/2001 13:04	
Xylene(s)	0.52	0.50	ug/L	1.00	11/09/2001 13:04	
MTBE	ND	5.0	ug/L	1.00	11/09/2001 13:04	
Surrogate(s)						
Trifluorotoluene	61.0	58-124	%	1.00	11/09/2001 13:04	
4-Bromofluorobenzene-FID	97.5	50-150	%	1.00	11/09/2001 13:04	

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

IT Group San Jose

Test Method: 8015M 8021B

Attn: Ken Loy

Prep Method: 5030

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**MW-7**	Lab Sample ID:	2001-11-0043-006
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 12:32
Sampled:	11/01/2001 08:25	QC-Batch:	2001/11/09-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/09/2001 12:32	
Benzene	ND	0.50	ug/L	1.00	11/09/2001 12:32	
Toluene	ND	0.50	ug/L	1.00	11/09/2001 12:32	
Ethyl benzene	ND	0.50	ug/L	1.00	11/09/2001 12:32	
Xylene(s)	ND	0.50	ug/L	1.00	11/09/2001 12:32	
MTBE	7.6	5.0	ug/L	1.00	11/09/2001 12:32	
Surrogate(s)						
Trifluorotoluene	69.0	58-124	%	1.00	11/09/2001 12:32	
4-Bromofluorobenzene-FID	95.7	50-150	%	1.00	11/09/2001 12:32	

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

Gas/BTEX Compounds by 8015M/8021

IT Group San Jose

Test Method: 8015M
8021B

Attn: Ken Loy

Prep Method: 5030

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www.chromalab.com

CA DHS ELAP#1094

Sample ID:	**MW-8**	Lab Sample ID:	2001-11-0043-007
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 12:00
Sampled:	11/01/2001 10:20	QC-Batch:	2001/11/09-01.05
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/09/2001 12:00	
Benzene	ND	0.50	ug/L	1.00	11/09/2001 12:00	
Toluene	ND	0.50	ug/L	1.00	11/09/2001 12:00	
Ethyl benzene	ND	0.50	ug/L	1.00	11/09/2001 12:00	
Xylene(s)	ND	0.50	ug/L	1.00	11/09/2001 12:00	
MTBE	ND	5.0	ug/L	1.00	11/09/2001 12:00	
Surrogate(s)						
Trifluorotoluene	71.8	58-124	%	1.00	11/09/2001 12:00	
4-Bromofluorobenzene-FID	99.2	50-150	%	1.00	11/09/2001 12:00	

Submission #: 2001-11-0043

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank | **Water** | **QC Batch # 2001/11/09-01.02**

MB: 2001/11/09-01.02-003

Date Extracted: 11/09/2001 08:14

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/09/2001 08:14	
Benzene	ND	0.5	ug/L	11/09/2001 08:14	
Toluene	ND	0.5	ug/L	11/09/2001 08:14	
Ethyl benzene	ND	0.5	ug/L	11/09/2001 08:14	
Xylene(s)	ND	0.5	ug/L	11/09/2001 08:14	
MTBE	ND	5.0	ug/L	11/09/2001 08:14	
Surrogate(s)					
Trifluorotoluene	123.3	58-124	%	11/09/2001 08:14	
4-Bromofluorobenzene-FID	109.0	50-150	%	11/09/2001 08:14	

Submission #: 2001-11-0043

TRENT SERVICES

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank | **Water** | **QC Batch # 2001/11/09-01.05**

MB: 2001/11/09-01.05-004

Date Extracted: 11/09/2001 08:52

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/09/2001 08:52	
Benzene	ND	0.5	ug/L	11/09/2001 08:52	
Toluene	ND	0.5	ug/L	11/09/2001 08:52	
Ethyl benzene	ND	0.5	ug/L	11/09/2001 08:52	
Xylene(s)	ND	0.5	ug/L	11/09/2001 08:52	
MTBE	ND	5.0	ug/L	11/09/2001 08:52	
Surrogate(s)					
Trifluorotoluene	101.2	58-124	%	11/09/2001 08:52	
4-Bromofluorobenzene-FID	103.4	50-150	%	11/09/2001 08:52	

SEVERN TRENT SERVICES

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M
8021B

Prep Method: 5030

Method Blank | **Water** | **QC Batch # 2001/11/08-01.02**

MB: 2001/11/08-01.02-005 | Date Extracted: 11/08/2001 09:31

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/08/2001 09:31	
Benzene	ND	0.5	ug/L	11/08/2001 09:31	
Toluene	ND	0.5	ug/L	11/08/2001 09:31	
Ethyl benzene	ND	0.5	ug/L	11/08/2001 09:31	
Xylene(s)	ND	0.5	ug/L	11/08/2001 09:31	
MTBE	ND	5.0	ug/L	11/08/2001 09:31	
Surrogate(s)					
Trifluorotoluene	109.6	58-124	%	11/08/2001 09:31	
4-Bromofluorobenzene-FID	102.4	50-150	%	11/08/2001 09:31	

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/11/09-01.02**

LCS: 2001/11/09-01.02-004 Extracted: 11/09/2001 08:46 Analyzed: 11/09/2001 08:46

LCSD: 2001/11/09-01.02-005 Extracted: 11/09/2001 09:18 Analyzed: 11/09/2001 09:18

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	112	110	100.0	100.0	112.0	110.0	1.8	77-123	20		
Toluene	111	108	100.0	100.0	111.0	108.0	2.7	78-122	20		
Ethyl benzene	113	111	100.0	100.0	113.0	111.0	1.8	70-130	20		
Xylene(s)	329	322	300	300	109.7	107.3	2.2	75-125	20		
Surrogate(s)											
Trifluorotoluene	605	582	500	500	121.0	116.4		58-124			

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) Water **QC Batch # 2001/11/09-01.02**

LCS: 2001/11/09-01.02-006 Extracted: 11/09/2001 09:49 Analyzed: 11/09/2001 09:49

LCSD: 2001/11/09-01.02-007 Extracted: 11/09/2001 10:21 Analyzed: 11/09/2001 10:21

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	466	457	500	500	93.2	91.4	2.0	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-	545	540	500	500	109.0	108.0		50-150			

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) Water **QC Batch # 2001/11/09-01.05**

LCS: 2001/11/09-01.05-007 Extracted: 11/09/2001 10:29 Analyzed: 11/09/2001 10:29

LCSD: 2001/11/09-01.05-008 Extracted: 11/09/2001 11:01 Analyzed: 11/09/2001 11:01

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	603	624	500	500	120.6	124.8	3.4	75-125	20		
Surrogate(s)											
Trifluorotoluene-FID	533	562	500	500	106.6	112.4		58-124			

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Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2001/11/09-01.05

LCS: 2001/11/09-01.05-005 Extracted: 11/09/2001 09:24 Analyzed: 11/09/2001 09:24

LCSD: 2001/11/09-01.05-006 Extracted: 11/09/2001 09:57 Analyzed: 11/09/2001 09:57

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	104	97.6	100.0	100.0	104.0	97.6	6.3	77-123	20		
Toluene	104	96.6	100.0	100.0	104.0	96.6	7.4	78-122	20		
Ethyl benzene	106	96.4	100.0	100.0	106.0	96.4	9.5	70-130	20		
Xylene(s)	307	285	300	300	102.3	95.0	7.4	75-125	20		
Surrogate(s)											
Trifluorotoluene	489	456	500	500	97.8	91.2		58-124			

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8021B Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/11/08-01.02**

LCS: 2001/11/08-01.02-006 Extracted: 11/08/2001 10:02 Analyzed: 11/08/2001 10:02

LCSD: 2001/11/08-01.02-007 Extracted: 11/08/2001 10:34 Analyzed: 11/08/2001 10:34

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	111	109	100.0	100.0	111.0	109.0	1.8	77-123	20		
Toluene	109	107	100.0	100.0	109.0	107.0	1.9	78-122	20		
Ethyl benzene	112	111	100.0	100.0	112.0	111.0	0.9	70-130	20		
Xylene(s)	325	323	300	300	108.3	107.7	0.6	75-125	20		
Surrogate(s)											
Trifluorotoluene	589	565	500	500	117.8	113.0		58-124			

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CA DHS ELAP#1094

Gas/BTEX Compounds by 8015M/8021

Batch QC report

Test Method: 8015M Prep Method: 5030

Laboratory Control Spike (LCS/LCSD) Water QC Batch # 2001/11/08-01.02

LCS: 2001/11/08-01.02-008 Extracted: 11/08/2001 11:06 Analyzed: 11/08/2001 11:06

LCSD: 2001/11/08-01.02-009 Extracted: 11/08/2001 11:38 Analyzed: 11/08/2001 11:38

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	430	457	500	500	86.0	91.4	6.1	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-	505	531	500	500	101.0	106.2		50-150			

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Gas/BTEX Compounds by 8015M/8021

Legend & Notes

Test Method: 8015M
8021B

Prep Method: 5030

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Misc Anions by Ion Chromatograph

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CA DHS ELAP#1094

IT Group San Jose	✉ 1921 Ringwood Avenue San Jose, CA 95131
Attn: Ken Loy	Phone: (408) 453-7300 Fax: (408) 437-9526
805.385	Project: Oliver Site

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/01/2001 11:45	1
MW-2	Water	11/01/2001 12:35	2
MW-3	Water	11/01/2001 09:00	3
MW-4	Water	11/01/2001 09:40	4
MW-6	Water	11/01/2001 10:55	5
MW-7	Water	11/01/2001 08:25	6
MW-8	Water	11/01/2001 10:20	7

TRENT SERVICES

Misc Anions by Ion Chromatograph

IT Group San Jose

Attn: Ken Loy

Test Method: 9056

Prep Method: 9056

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CA DHS ELAP#1094

Sample ID:	**MW-1**	Lab Sample ID:	2001-11-0043-001
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/02/2001
Sampled:	11/01/2001 11:45	QC-Batch:	2001/11/02-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	1.6	1.0	mg/L	1.00	11/02/2001	
Sulfate	9.9	1.0	mg/L	1.00	11/02/2001	

TRENT SERVICES

Misc Anions by Ion Chromatograph

IT Group San Jose

Attn: Ken Loy

Test Method: 9056

Prep Method: 9056

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Sample ID:	MW-2	Lab Sample ID:	2001-11-0043-002
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/02/2001
Sampled:	11/01/2001 12:35	QC-Batch:	2001/11/02-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	1.6	1.0	mg/L	1.00	11/02/2001	
Sulfate	13	1.0	mg/L	1.00	11/02/2001	

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CA DHS ELAP#1094

IT Group San Jose
Attn: Ken Loy

Test Method: 9056
Prep Method: 9056

Sample ID:	**MW-3**	Lab Sample ID:	2001-11-0043-003
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/02/2001
Sampled:	11/01/2001 09:00	QC-Batch:	2001/11/02-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	11/02/2001	
Sulfate	1.6	1.0	mg/L	1.00	11/02/2001	

TRENT SERVICES

Misc Anions by Ion Chromatograph

IT Group San Jose

Attn: Ken Loy

Test Method: 9056

Prep Method: 9056

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Sample ID:	MW-4	Lab Sample ID:	2001-11-0043-004
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/02/2001
Sampled:	11/01/2001 09:40	QC-Batch:	2001/11/02-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	30	1.0	mg/L	1.00	11/02/2001	
Sulfate	61	2.0	mg/L	2.00	11/02/2001	

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Misc Anions by Ion Chromatograph

IT Group San Jose

Attn: Ken Loy

Test Method: 9056

Prep Method: 9056

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Sample ID:	**MW-6**	Lab Sample ID:	2001-11-0043-005
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/02/2001
Sampled:	11/01/2001 10:55	QC-Batch:	2001/11/02-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	11/02/2001	
Sulfate	1.3	1.0	mg/L	1.00	11/02/2001	

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Misc Anions by Ion Chromatograph

IT Group San Jose

Attn: Ken Loy

Test Method: 9056

Prep Method: 9056

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CA DHS ELAP#1094

Sample ID:	MW-7	Lab Sample ID:	2001-11-0043-006
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/02/2001
Sampled:	11/01/2001 08:25	QC-Batch:	2001/11/02-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	77	5.0	mg/L	5.00	11/02/2001	
Sulfate	98	5.0	mg/L	5.00	11/02/2001	

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Misc Anions by Ion Chromatograph

IT Group San Jose

Attn: Ken Loy

Test Method: 9056

Prep Method: 9056

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CA DHS ELAP#1094

Sample ID:	**MW-8**	Lab Sample ID:	2001-11-0043-007
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/02/2001
Sampled:	11/01/2001 10:20	QC-Batch:	2001/11/02-01.41
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Nitrate	43	5.0	mg/L	5.00	11/02/2001	
Sulfate	110	5.0	mg/L	5.00	11/02/2001	

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CA DHS ELAP#1094

Misc Anions by Ion Chromatograph

Batch QC report

Test Method: 9056 Prep Method: 9056

Method Blank **Water** **QC Batch # 2001/11/02-01.41**

MB: 2001/11/02-01.41-001 Date Extracted: 11/02/2001

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Nitrate	ND	1.0	mg/L	11/02/2001	
Sulfate	ND	1.0	mg/L	11/02/2001	

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CA DHS ELAP#1094

Misc Anions by Ion Chromatograph

Batch QC report

Test Method: 9056 Prep Method: 9056

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/11/02-01.41**

LCS: 2001/11/02-01.41-002 Extracted: 11/02/2001 Analyzed: 11/02/2001

LCSD: 2001/11/02-01.41-003 Extracted: 11/02/2001 Analyzed: 11/02/2001

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Nitrate	20.8	20.5	20.0	20.0	104.0	102.5	1.5	80-120	20		
Sulfate	20.3	19.9	20.0	20.0	101.5	99.5	2.0	80-120	20		

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Misc Anions by Ion Chromatograph

Batch QC Report

Test Method: 9056 Prep Method: 9056

Matrix Spike (MS / MSD)	Water		QC Batch # 2001/11/02-01.41
Sample ID: **MW-1 >> MS**		Lab ID:	2001-11-0043-001
MS: 2001/11/02-01.41-004	Extracted: 11/02/2001	Analyzed:	11/02/2001
		Dilution:	1
MSD: 2001/11/02-01.41-005	Extracted: 11/02/2001	Analyzed:	11/02/2001
		Dilution:	1

Compound	Conc. [mg/L]			Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Nitrate	20.7	20.5	1.22	20.0	20.0	97.4	94.7	2.8	80-120	20		
Sulfate	29.7	29.4	9.94	20.0	20.0	98.8	97.3	1.5	80-120	20		

Soluble Metals

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CA DHS ELAP#1094

IT Group San Jose	✉ 1921 Ringwood Avenue San Jose, CA 95131
Attn: Ken Loy	Phone: (408) 453-7300 Fax: (408) 437-9526
805.385	Project: Oliver Site

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/01/2001 11:45	1
MW-2	Water	11/01/2001 12:35	2
MW-3	Water	11/01/2001 09:00	3
MW-4	Water	11/01/2001 09:40	4
MW-6	Water	11/01/2001 10:55	5
MW-7	Water	11/01/2001 08:25	6
MW-8	Water	11/01/2001 10:20	7

TRENT SERVICES

Soluble Metals

IT Group San Jose

Attn: Ken Loy

Test Method: 6010B

Prep Method: 3005A

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CA DHS ELAP#1094

Sample ID:	**MW-1**	Lab Sample ID:	2001-11-0043-001
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/06/2001 05:16
Sampled:	11/01/2001 11:45	QC-Batch:	2001/11/06-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	11/06/2001 07:48	

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Soluble Metals

IT Group San Jose

Attn: Ken Loy

Test Method: 6010B

Prep Method: 3005A

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CA DHS ELAP#1094

Sample ID:	MW-2	Lab Sample ID:	2001-11-0043-002
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/06/2001 05:16
Sampled:	11/01/2001 12:35	QC-Batch:	2001/11/06-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	11/06/2001 07:53	

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Soluble Metals

IT Group San Jose
Attn: Ken Loy

Test Method: 6010B
Prep Method: 3005A

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Sample ID:	MW-3	Lab Sample ID:	2001-11-0043-003
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/06/2001 05:16
Sampled:	11/01/2001 09:00	QC-Batch:	2001/11/06-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	11/06/2001 07:57	

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IT Group San Jose

Attn: Ken Loy

Test Method: 6010B
Prep Method: 3005A

Sample ID:	MW-4	Lab Sample ID:	2001-11-0043-004
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/06/2001 05:16
Sampled:	11/01/2001 09:40	QC-Batch:	2001/11/06-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	11/06/2001 08:18	

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Soluble Metals

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Test Method: 6010B

Prep Method: 3005A

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Sample ID:	MW-6	Lab Sample ID:	2001-11-0043-005
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/06/2001 05:16
Sampled:	11/01/2001 10:55	QC-Batch:	2001/11/06-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	11/06/2001 08:23	

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Soluble Metals

IT Group San Jose

Attn: Ken Loy

Test Method: 6010B

Prep Method: 3005A

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CA DHS ELAP#1094

Sample ID:	MW-7	Lab Sample ID:	2001-11-0043-006
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/06/2001 05:16
Sampled:	11/01/2001 08:25	QC-Batch:	2001/11/06-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	11/06/2001 08:27	

TRENT SERVICES

Soluble Metals

IT Group San Jose

Attn: Ken Loy

Test Method: 6010B

Prep Method: 3005A

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CA DHS ELAP#1094

Sample ID:	MW-8	Lab Sample ID:	2001-11-0043-007
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/06/2001 05:16
Sampled:	11/01/2001 10:20	QC-Batch:	2001/11/06-01.15
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	11/06/2001 08:32	

TRENT
SERVICES

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Soluble Metals

Batch QC report

Test Method: 6010B Prep Method: 3005A

Method Blank **Water** **QC Batch # 2001/11/06-01.15**

MB: 2001/11/06-01.15-011 Date Extracted: 11/06/2001 05:16

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Iron	ND	0.20	mg/L	11/06/2001 07:19	

TRENT
SERVICES

STL Chromalab
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Pleasanton, CA 94566

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www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Soluble Metals

Batch QC report

Test Method: 6010B Prep Method: 3005A

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2001/11/06-01.15**

LCS: 2001/11/06-01.15-012 Extracted: 11/06/2001 05:16 Analyzed: 11/06/2001 07:23

LCSD: 2001/11/06-01.15-013 Extracted: 11/06/2001 05:16 Analyzed: 11/06/2001 07:27

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Iron	4.60	4.57	5.00	5.00	92.0	91.4	0.7	80-120	20		

Submission #: 2001-11-0045

TEPH w/ Silica Gel Clean-up

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

IT Group San Jose	☒ 1921 Ringwood Avenue San Jose, CA 95131
Attn: Ken Loy	Phone: (408) 453-7300 Fax: (408) 437-9526
805.385	Project: Oliver Site

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	11/01/2001 11:45	1
MW-2	Water	11/01/2001 12:35	2
MW-3	Water	11/01/2001 09:00	3
MW-4	Water	11/01/2001 09:40	4
MW-6	Water	11/01/2001 10:55	5
MW-7	Water	11/01/2001 08:25	6
MW-8	Water	11/01/2001 10:20	7

TEPH w/ Silica Gel Clean-up

TRENT SERVICES

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M
Prep Method: 3510/8015M

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	MW-1	Lab Sample ID:	2001-11-0043-001
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 09:03
Sampled:	11/01/2001 11:45	QC-Batch:	2001/11/09-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	120	50	ug/L	1.00	11/12/2001 09:38	ndp
Motor Oil	ND	500	ug/L	1.00	11/12/2001 09:38	
Surrogate(s)						
o-Terphenyl	100.2	60-130	%	1.00	11/12/2001 09:38	

TEPH w/ Silica Gel Clean-up

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M
Prep Method: 3510/8015M

Sample ID:	MW-2	Lab Sample ID:	2001-11-0043-002
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 09:03
Sampled:	11/01/2001 12:35	QC-Batch:	2001/11/09-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	640	50	ug/L	1.00	11/12/2001 10:25	ndp
Motor Oil	ND	500	ug/L	1.00	11/12/2001 10:25	
Surrogate(s)						
o-Terphenyl	103.9	60-130	%	1.00	11/12/2001 10:25	

TRENT SERVICES

TEPH w/ Silica Gel Clean-up

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M

Prep Method: 3510/8015M

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	MW-3	Lab Sample ID:	2001-11-0043-003
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 09:03
Sampled:	11/01/2001 09:00	QC-Batch:	2001/11/09-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	400	50	ug/L	1.00	11/12/2001 11:12	ndp
Motor Oil	ND	500	ug/L	1.00	11/12/2001 11:12	
Surrogate(s)						
o-Terphenyl	108.9	60-130	%	1.00	11/12/2001 11:12	

TEPH w/ Silica Gel Clean-up

TRENT SERVICES

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M
Prep Method: 3510/8015M

Sample ID:	MW-4	Lab Sample ID:	2001-11-0043-004
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 09:03
Sampled:	11/01/2001 09:40	QC-Batch:	2001/11/09-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/12/2001 11:59	
Motor Oil	ND	500	ug/L	1.00	11/12/2001 11:59	
Surrogate(s)						
o-Terphenyl	88.0	60-130	%	1.00	11/12/2001 11:59	

TRENT SERVICES

TEPH w/ Silica Gel Clean-up

IT Group San Jose

Attn: Ken Loy

Test Method: 8015M

Prep Method: 3510/8015M

STL Chromalab
1220 Quarry Lane
Pleasanton, CA 94566

Tel 925 484 1919
Fax 925 484 1096
www.stl-inc.com
www.chromalab.com

CA DHS ELAP#1094

Sample ID:	MW-6	Lab Sample ID:	2001-11-0043-005
Project:	805.385 Oliver Site	Received:	11/01/2001 14:25
		Extracted:	11/09/2001 09:03
Sampled:	11/01/2001 10:55	QC-Batch:	2001/11/09-02.10
Matrix:	Water		

Sample/Analysis Flag: rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	290	61	ug/L	1.22	11/12/2001 12:46	ndp
Motor Oil	ND	610	ug/L	1.22	11/12/2001 12:46	
Surrogate(s)						
o-Terphenyl	101.7	60-130	%	1.22	11/12/2001 12:46	

FIELD SERVICES REQUEST

SITE INFORMATION FORM

Identification

Project # 805385-01000000
Station ID Former Dorr-Olive Site
Site Address: 2901 Glascock St.
Oakland
Lab: ~~Sequoia~~ Chromalab
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 WEARHOUSE 510)5321788

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 ← order s/b MW-6
5. Purge water to be disposed of at Seaport, Redwood City.

Comments, remarks from field staff

TASK Completed PER Protocol.

Completed By: Date: 1/01/01

Pacific Environmental Group, Inc.

SITE INFORMATION FORM

Identification

Project # 805385
Cost # 01000 0000
Site Address: 2901 Glascock St.
Oakland, CA
County: Alameda
Laboratory Chroma Lab
Project Manager: Andrew L.
Requester: Andrew L.

Project Type

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

Client P.O.C. Gary Martz
Date of Request: 10-22-01
Ideal Field Date(s):

Budget Hours: _____
Actual Hours: _____
Mob de Mob: _____
Site Safety Concerns: STANDARD

Field Tasks: For General Description

Priority: 1) Emergency, within 24hours. 2) Next visit 3) When available

Use Chroma Lab for analyses (not Sequoia) - same analyses as before. Thanks, AL

Comments, remarks, etc. from Field Staff (include problems encountered and out-of-scope work)

☐ Samples taken ☐ Samples not required ☐ Soil vapor ☐ Groundwater
☐ Weekly ☐ Semi-Monthly ☐ Monthly ☐ Quarterly ☐ Semi-Annual

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Completed by: _____ **Date:** _____

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FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 805385 LOCATION: 2901 Glascock St DATE: _____

CLIENT/STATION NO.: Oliver Site FIELD TECHNICIAN: _____ DAY OF WEEK: _____

PROBE TYPE/ID No.
- ☐ Oil/Water IF/ _____
- ☒ H_2O level indicator _____
- ☐ Other: _____

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SERARATE-PHASE HYDROCARBONS (SPH): SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons) SPH / H_2O
	MW1		-	-	-	-	-	19.80	8.35 / 8.35	8.55 / 8.50										
	MW2		-	-	-	-		17.75	8.10 / 8.10	8.46 / 8.45										
	MW3		-	O	-	-		19.80	6.46 / 6.46	6.91 / 6.91										
	MW4		-	-	-	-	-	19.70	7.83 / 7.83	8.00 / 8.00										
	MW6		-	-	-	-	-	19.50	8.75 / 8.75	9.38 / 9.38										
	MW7		-	-	-	-	-	17.75	4.91 / 4.91	5.37 / 5.37										
	MW8		-	-	-	-	-	17.70	8.75 / 8.75	9.30 / 9.30										

Comments: MW1, MW 2 NEED to UP-GRADE Bolts ON BOX 9/16 => 5/8"

MW-3 Could USE A NEW BOX only ONE thread ON BOX

PROJECT No.: 805385 LOCATION 2901 Glascock st WELL ID #: MW-1

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

WELL INFORMATION Conoco

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

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

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

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.80 DTW 8.35 = 11.46 x Gal/Linear Foot .17 = 1.94 x Number of Casings 3 = Calculated Purge 5.83

DATE PURGED: 11-01-01 START: 11:25 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 11-01-01 START: 11:45 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
11:30	2	8.13	1290	63.5	Cloudy	Mod.	Mod.
11:35	4	8.16	1300	64.0	Cloudy	Mod.	Mod.
11:40	6	8.18	1300	64.0	Cloudy	Mod.	Mod.

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

Pumped dry Yes (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☑ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disposa
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-1	11/01/01	11:46	3	40ml	VOA	HCL	Gas, BTEX, MTBE
			2	1L	Amb	NP	TPH-D, TPH-MO
			1	500	Plast	NP	Nitrate, Sulfate
			1	500	Plast	NP	Ferrous Iron
			1	1L	Plast	H2O3	Metals

REMARKS: DO: 4.2 ⇒ 2.8
ORP: -10 ⇒ 19
Moderate Sheen on Purge Water

SIGNATURE: _____

the i group

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

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

WELL INFORMATION LONCO

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 8.10 = 9.65 x Gal/Linear Foot .17 = 1.64 x Number of Casings 3 = Calculated Purge 4.92

DATE PURGED: 11-01-01 START: 12:12 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 11-01-01 START: 12:35 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
12:17	1.75	7.94	1770	63.7	Cloudy	Mod	Strong
12:21	3.5	7.90	1790	64.1	Cloudy	Mod	Strong
12:26	5.26	7.88	1800	64.2	Cloudy	Mod	Strong

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

Pumped dry Yes (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☑ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disp03
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW2	11-01-01	12:35	3	40ml	VOA	HCL	GAS, BTEX, MTBE
			2	1L	Amb	NP	TPH-D, TPH-MO
			1	500	Plast	NP	Nitrate, Sulfate
			1	500	Plast	NP	FERROS IRON
				1L	Plast	HNO3	Metals

REMARKS: DO: 1.2 => 1.0
ORP: -57 => -099
Heavy Sheen on Purge Water

SIGNATURE: _____

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

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

WELL INFORMATION CONOCO

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

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

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

SAMPLE TYPE
- ☑ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

TD 19.50 DTW 8.75 = 10.75 x Gal/Linear Foot .17 = 1.82 x Number of Casings 3 = Calculated Purge 5.48

DATE PURGED: 11-01-01 START: 10:30 END (2400 hr): — PURGED BY: PE

DATE SAMPLED: 11-01-01 START: 10:55 END (2400 hr): — SAMPLED BY: PE

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (° F)	COLOR	TURBIDITY	ODOR
10:35	2	7.00	1510	60.1	Cloudy	Heavy	Heavy
10:40	4	7.00	1490	60.5	Cloudy	Heavy	Strong
10:44	6	7.01	1490	60.7	Cloudy	Heavy	Strong

Pumped dry Yes (No)

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

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #
- ☑ Bailer: _____
- ☐ Airlift Pump: _____
- ☐ Centrifugal Pump: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☑ Bailer: Disposa
- ☐ Dedicated: _____
- ☐ Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW6	11/01/01	10:55	3	40ml	VOA	HCL	Gas, BTEX, MTBE
			2	1L	Amb	NP	TPH-D, TPH-MO
			1	500	Plast	NP	Nitrate, Sulfate
			1	500	Plast	NP	Ferrous Iron
				1L	Plast	H2O3	Metals

REMARKS: DO: 2.-2.4
ORP: -119 - -115
Heavy sheen on purge water

SIGNATURE: _____

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11/1/01

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-5	05/15/95	ND		ND	ND	ND	ND	490		NA		NA
	08/28/95	ND		ND	ND	ND	ND	170		NA		NA
	11/29/95	NS		NS	NS	NS	NS	NS		NS		NS
	12/06/95	ND		ND	ND	ND	ND	250		NA		NA
	01/18/96	NA		NA	NA	NA	NA	49		NA		NA
	03/08/96	ND		ND	ND	ND	ND	210		ND		12
	07/02/96	200	a	ND	ND	ND	ND	110		ND		ND
		-- Well Destroyed in September 1996 --										
MW-6	05/15/95	120		5.6	0.88	ND	2.1	1,100		NA		NA
	08/28/95	140		6.1	0.77	ND	2.3	2,100		NA		NA
	11/29/95	NA		NA	NA	NA	NA	35,000		5,400		NA
	12/06/95	140		4.6	0.89	ND	1.7	38,000		NA		NA
	01/18/96	NA		NA	NA	NA	NA	59,000		NA		NA
	03/08/96	160		3.4	0.57	ND	1.9	14,000		NA		ND
	07/02/96	3,300	a	3.1	ND	ND	ND	2,300		1,300		ND
	12/17/96	150	b	3.4	0.93	ND	1.7	15,000	e	14,000	d	14
	03/21/97	300		3.5	0.91	ND	0.79	18,000	e	17,000	d	19
	05/16/97	NA		NA	NA	NA	NA	NA		NA		NA
	06/25/97	590	h	3.2	ND	ND	ND	9,300	e	7,900	d	15
	09/29/97	490	h	2.6	0.83	ND	1.5	7,900	e	7,900	d	13
	12/11/97	ND		ND	ND	ND	ND	5,600	e	5,100	j	ND
	03/27/98	ND		ND	ND	ND	ND	1,500	e	1,400	d	ND
	06/26/98	290	f	5.3	ND	ND	1.1	9,200	e	6,400	d	11
	09/11/98	660	l	500	ND	ND	ND	4,200	m	ND		6.5
	09/11/98	NA		NA	NA	NA	NA	1,600	g	1,300	d	NA
	12/24/98	ND		ND	ND	ND	ND	1,000	g	690	d	ND
	03/31/99	330	b	4.2	0.83	ND	1.5	22,000	e	16,000	d	ND
	06/17/99	504		4.56	0.863	0.573	1.2	1,460	s	7,090	d	9.85
	09/13/99	192		4.74	1.24	ND	3.64	826		694		6.2
	12/28/99	3690		4.4	ND	ND	ND	527		ND		16.2
	03/02/00	336		4.92	1.18	ND	1.89	1,600		ND		4.75
	06/30/00	8550	b	58.9	73.1	ND	56.7	590	g	ND		ND
	09/29/00	642	b	4.41	0.793	ND	1.32	863	g	ND		14.4
	12/28/00	500	b	4.89	ND	ND	ND	6,750	g	3,440	d	ND
	03/26/01	14000	b	ND	ND	ND	ND	773	c	ND		ND
	06/28/01	620	b	3.3	0.76	0.58	1.6	31,000		22,000	d	3.9
	11/1/01	6000		2.5	ND	ND	.52	290		ND		ND
MW-7	05/15/95	110		ND	ND	ND	ND	ND		NA		NA
	08/28/95	ND		ND	ND	ND	ND	ND		NA		NA
	11/29/95	NA		NA	NA	NA	NA	NA		NA		NA
	12/06/95	62		ND	ND	ND	ND	ND		NA		NA
	01/18/96	NA		NA	NA	NA	NA	ND		NA		NA
	03/08/96	ND		ND	ND	ND	ND	ND		NA		ND
	07/02/96	ND		ND	ND	ND	ND	ND		ND		580
	12/17/96	ND		ND	ND	ND	ND	120	g	ND		100
	03/21/97	ND		ND	ND	ND	ND	79	g	ND		190
	06/25/97	ND		ND	ND	ND	ND	58	g	ND		580
	09/29/97	ND		ND	ND	ND	ND	ND		ND		310
	12/11/97	ND		ND	ND	ND	ND	ND		ND		ND
	03/27/98	ND		ND	ND	ND	ND	ND		ND		ND
	06/26/98	ND		ND	ND	ND	ND	ND		ND		110
	09/11/98	ND		ND	ND	ND	ND	ND		ND		110
	09/11/98	NA		NA	NA	NA	NA	140	g	ND		NA
	12/24/98	ND		ND	ND	ND	ND	ND		ND		150
	03/31/99	ND		ND	ND	ND	ND	78	r	ND		11
	06/17/99	ND		ND	ND	ND	ND	53.7	g	ND		59.1
	09/13/99	ND		ND	ND	ND	ND	ND		ND		55.3
	12/28/99	ND		ND	ND	ND	ND	ND		ND		67.6
	03/02/00	ND		ND	ND	ND	ND	334		ND		16.1
	06/30/00	ND		ND	ND	ND	ND	95.8		ND		35.8
	09/29/00	ND		ND	ND	ND	ND	70.0	g	ND		50.4
	12/28/00	ND		ND	ND	ND	ND	73.8	g	ND		41.5
	03/26/01	ND		ND	ND	ND	ND	76.1	g	ND		11.1
	06/28/01	ND		ND	ND	ND	ND	ND		ND		40

o Light sheen on MW-3 + MW-2 + MW-1

however, sample sheets indicate sheen and strong odor in several wells.

add wells w/ prior elevated TPHd + mw now low, below SHA #5

fail to provide interpretation of bio-parameters.

D.O. is ~2.5 ppm & ORC sucks S/B replaced