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(510) 261-1900 • FAX (510) 261-2459

September 17, 2002

Alameda County
SEP 19 2002
Environmental Health

Barney M. Chan
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: 2901 Glascock Street Toxic Cleanup Report, Second Quarter, 2002

Dear Barney:

Please find enclosed a copy of the Second Quarter Report from the Shaw Group (formerly IT Group) for 2901 Glascock Street, Oakland, CA.

I have forwarded a copy to the prospective purchasers of the property, Signature Properties.

Sincerely,

Gary U. Martz
Business Manager

1921 Ringwood Avenue
San Jose, CA 95131-1721
408.453.7300
Fax 408.457.9526



The Shaw Group Inc.™

September 4, 2002
Project 805385 02000000

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

Re: **Quarterly Report - Second Quarter 2002**
2901 Glascock Street
Oakland, California

Alameda County
SEP 19 2002
Environmental Health

Dear Mr. Martz:

Shaw Environmental Inc. (Shaw) has prepared this report for Iconco. The following sections present results of the second quarter 2002 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 Shaw on May 31, 2002. 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.

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 0.78 feet compared with the prior quarter (Table 1). The groundwater flow direction continues to

be generally to the south/southeast (toward the Oakland Estuary) at a gradient of approximately 0.02 (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 EPA 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 130 to 820 micrograms per liter ($\mu\text{g/L}$) (Figure 1). The chromatogram pattern of laboratory analytical results for diesel did not match the pattern of the laboratory diesel standard (see Table 2 and CARs).

TEPH-mo and MtBE were 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 5.5 $\mu\text{g/L}$, respectively.

Additional groundwater analytical data are presented in Table 3.

CONCLUSIONS/RECOMMENDATIONS

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 up-gradient, off-site source of MtBE that was previously detected in some of the site monitoring wells, was not observed to impact any of the site monitoring wells during the current groundwater monitoring event.

Shaw recommends the continued use of Oxygen Releasing Compound (ORC®) socks in selected wells at the site to further stimulate biodegradation. The ORC socks in all site wells were replaced by Shaw during the second quarter of 2002.

September 4, 2002

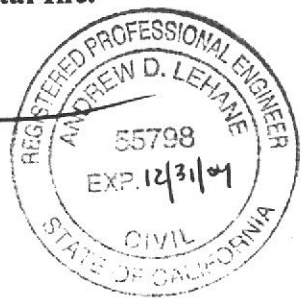
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A copy of this report should be forwarded to the ACHCSA, attention Barney Chan. If you have any questions regarding this report, please contact Andrew Lehane of Shaw at (408) 453-7300.

Sincerely,
Shaw Environmental Inc.



Andrew D. Lehane
Senior Engineer
RCE 55798



- Attachments:
- | | |
|--------------|--|
| Table 1 | Groundwater Elevation Data |
| Table 2 | Groundwater Analytical Data - TPPH as Gasoline, BTEX Compounds, TEPH as Diesel and Motor Oil, and MtBE |
| Table 3 | Additional Groundwater Analytical Data |
| Figure 1 | Groundwater Monitoring Results, Second Quarter 2002 |
| 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	
02/12/02		8.17	2.59	
05/31/02		8.33	2.43	
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

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-2 (cont'd)	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
	02/12/2002		6.68	3.95
	05/31/2002		7.04	3.59
MW-3	10/06/94	9.87	6.57	3.30
	01/20/95		4.47	5.40
	05/15/95		5.08	4.79
	08/28/95		6.18	3.69
	12/06/95		6.44	3.43
	01/18/96	9.87	4.15	5.72
	03/08/96		4.76	5.11
	07/02/96		6.45	3.42
	12/17/96		4.92	4.95
	03/21/97		5.72	4.15
	06/25/97		6.35	3.52
	09/29/97		6.35	3.52
	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	
02/12/2002		5.68	4.19	
05/31/2002		5.99	3.88	
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

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-4 (cont'd)	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
	02/12/02		7.35	3.29
	05/31/02		7.88	2.76
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
	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	
09/18/01		9.00	1.28	
11/01/01		8.75	1.53	
02/12/02		9.10	1.18	
05/31/02		11.01	-0.73	

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-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	
02/12/02		3.70	6.16	
05/31/02		4.06	5.80	
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	
02/12/02		8.73	1.88	
05/31/02		10.57	0.04	

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
	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
	02/12/02	250	b 2.3	ND	ND	ND	120	t ND	ND
	05/31/02	310	u 3.4	ND	ND	ND	130	t 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
	3/31/99	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
	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
	02/12/02	3,500	b ND	ND	ND	ND	970	t ND	ND
	05/31/02	270	u ND	2.6	ND	ND	820	t 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-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	e	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	
09/18/01	870	b	1.3	ND	ND	1.6	NA	NA	NA	ND		
11/01/01	700	b	ND	ND	ND	ND	400	g	ND	ND		
02/12/02	420	b	ND	ND	ND	ND	350	t	ND	ND		
05/31/02	160	u	ND	ND	ND	ND	240	t	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	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			
09/18/01	ND	ND	ND	ND	ND	NA	NA	NA	ND			
11/01/01	ND	ND	ND	ND	ND	ND	ND	ND	ND			
02/12/02	92	b	ND	ND	ND	ND	ND	ND	ND			
05/31/02	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)	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	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
	09/18/01	430	b	3.1	0.54	2.6	2.8	NA		NA		4.1
	11/01/01	600	b	2.5	ND	ND	0.52	290	g	ND		ND
02/12/02	860	b	3.7	ND	ND	ND	350	t	ND		ND	
05/31/02	210	u	5.5	0.76	ND	2.1	280	t	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	ND	310		
	12/11/97	ND	ND	ND	ND	ND	ND	ND	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	110		
	09/11/98	ND	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	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	ND	55.3			
12/28/99	ND	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			

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-7	03/26/01	ND	ND	ND	ND	ND	76.1	g	ND	11.1
	06/28/01	ND	ND	ND	ND	ND	ND	ND	ND	40
	09/18/01	ND	ND	ND	ND	ND	NA	NA	NA	16
	11/01/01	ND	ND	ND	ND	ND	ND	ND	ND	7.6
	02/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/02	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	11/29/95	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/18/96	NA	NA	NA	NA	NA	ND	NA	NA	NA
	03/08/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/02/96	ND	0.74	0.88	ND	0.82	ND	ND	ND	ND
	12/17/96	ND	ND	ND	ND	ND	53	g	ND	ND
	03/21/97	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/25/97	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/97	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/11/97	270	8.0	1.8	5.7	14	ND	ND	ND	72
	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	130	g	ND	NA
	12/24/98	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/31/99	ND	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	ND
	12/28/99	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/02/00	ND	ND	ND	ND	ND	50.6	ND	ND	ND
	06/30/00	ND	ND	ND	ND	ND	77.5	ND	ND	ND
	09/29/00	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/28/00	ND	ND	ND	ND	ND	66.7	g	ND	ND
	03/26/01	ND	ND	ND	ND	ND	67.9	g	ND	ND
06/28/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	
09/18/01	ND	ND	ND	ND	ND	NA	NA	NA	ND	
11/01/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	
02/12/02	ND	ND	ND	ND	ND	ND	ND	ND	ND	
05/31/02	ND	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 not gasoline, but 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.
- t. Chromatogram pattern does not match the pattern of laboratory diesel standard.
- u. Chromatogram pattern does not match the pattern of laboratory gasoline standard.

Table 3
Additional Groundwater Analytical Data
 Ferrous Iron, Nitrate as NO₃, Sulfate as SO₄, 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	0.4	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
	02/12/02	ND	ND	9.0	9.4/4.0	0.57/0.78
	05/31/02	ND	0.71 ^a	8.2	2.0	31
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	0.9	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
	02/12/02	ND	ND	ND	1/1	53/51
	05/31/02	ND	ND	ND	0.8	10
MW-3	12/28/00	0.0580	ND*	12.0	2.0/2.0	56/-46
	03/26/01	0.051*	5.9	17.5	NM	NM
	06/28/01	ND	0.6	1.8	1.2	-140
	09/18/01	ND	ND	0.61	NM	NM
	11/01/01	ND	ND	1.6	NM	NM
	02/12/02	ND	2.6	13.0	NM	NM
	05/31/02	ND	ND	4.9	1.8	-102
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	25.0	49	2.4	78
	09/18/01	0.18	28.0	54	NM	NM
	11/01/01	ND	30.0	61	NM	NM
	02/12/02	ND	33.0	58	NM	NM
	05/31/02	ND	30 ^a	59	2.2	121
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	0.3	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
	02/12/02	ND	ND	2	1.0/1.0	-121/-107
	05/31/02	ND	ND	ND	1.0	23

Table 3
Additional Groundwater Analytical Data
 Ferrous Iron, Nitrate as NO₃, Sulfate as SO₄, 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-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	73.0	100	3.2	12
	09/18/01	ND	82.0	96	NM	NM
	11/01/01	ND	77.0	98	NM	NM
	02/12/02	ND	69.0	93	NM	NM
	05/31/02	ND	53 ^a	83	3.1	138
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	36.0	160	6.2	99
	09/18/01	ND	42.0	120	NM	NM
	11/01/01	ND	43.0	110	NM	NM
	02/12/02	ND	37.0	120	NM	NM
	05/31/02	ND	35 ^a	110	8.4	142
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 a = Nitrate reported as total nitrate 2.0/3.0 = Before purging well/After purging well						

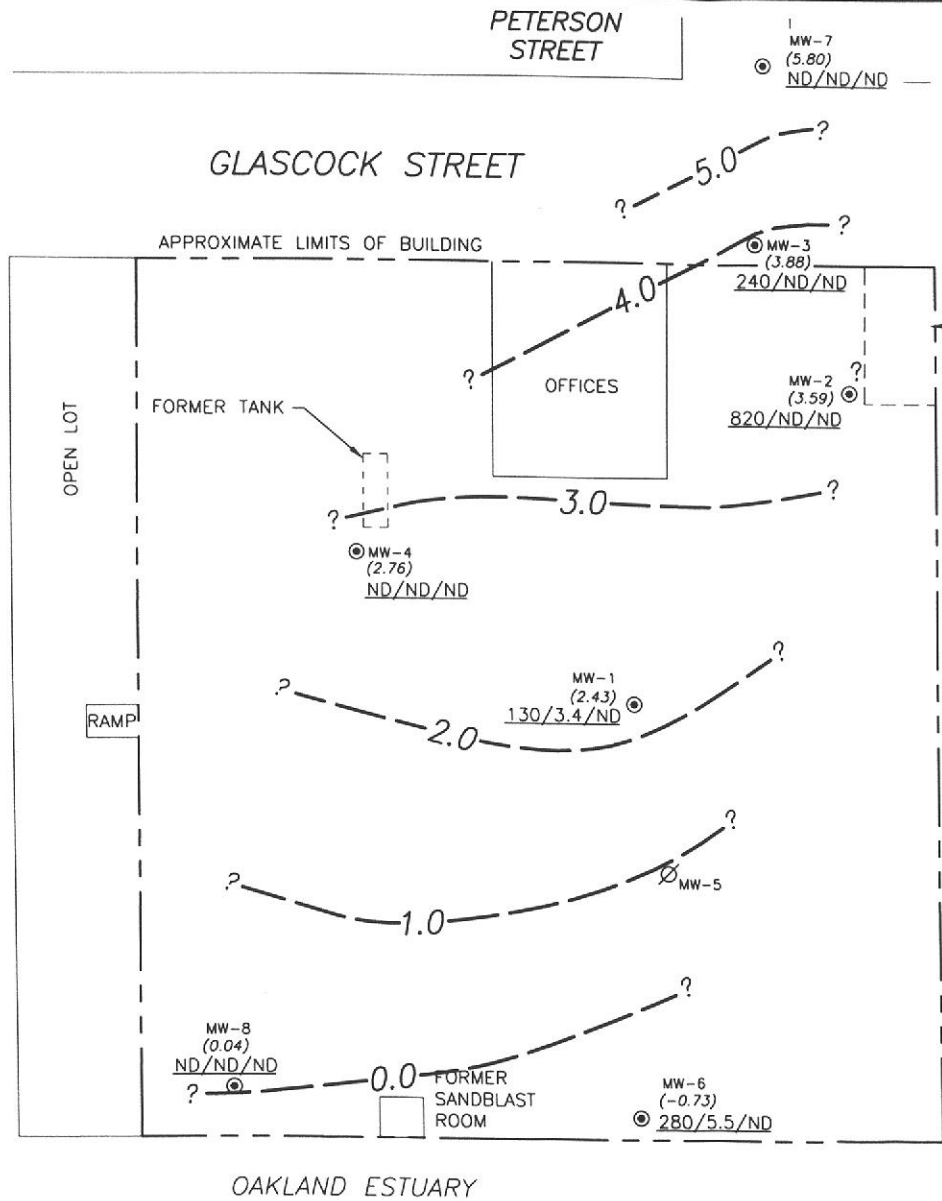
DRAWING NUMBER 805385

APPROVED BY

CHECKED BY

DRAWN BY K. Block 9-4-02

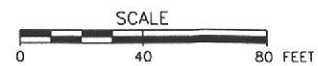
Z:\N:\cod\DWG\805385\Gnc.dwg Thu, 05/Sep/02 12:54pm ablock



- LEGEND**
- ⊙ GROUNDWATER MONITORING WELL
 - ⊘ DESTROYED GROUNDWATER MONITORING WELL
 - 240/ND/ND TEPH-d/BENZENE/TEPH-mo CONCENTRATIONS IN GROUNDWATER (PARTS PER BILLION); 5-31-02
 - ND NOT DETECTED
 - (2.59) GROUNDWATER ELEVATION (FT.-MSL); MEASURED 5-31-02
 - ?- - - - GROUNDWATER ELEVATION CONTOUR (FT.-MSL)



APPROXIMATE DIRECTION OF GROUNDWATER FLOW
APPROXIMATE GRADIENT = 0.02



Shaw E & I, Inc.

ICONCO

FIGURE 1
GROUNDWATER MONITORING RESULTS
SECOND QUARTER 2002
2901 GLASCOCK STREET
OAKLAND, CALIFORNIA

ATTACHMENT A
CARs, COC DOCUMENTATION, AND
FIELD DATA SHEETS

Submission#: 2002-06-0002

August 21, 2002

SEVERN

TRENT

LABORATORY

Shaw E & I, INC San Jose

San Jose, CA 95131

Attn.: Andrew Lehane

Project#: 805385

STL San Francisco
1220 Quarry Ln
Pleasanton CA 94566

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

CA DHS ELAP#:2496

Dear Andrew

Attached is our report for your samples received on 05/31/2002 16:30

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/15/2002 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: tgranicher@chromalab.com

Sincerely,



Tod Granicher
Project Manager

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

Phone: (408) 350-5648 Fax: (408) 437-9526

Project: 805385

Received: 05/31/2002 16:30

SEVERN

TRENT

LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW 1	05/31/2002 14:05	Water	1
MW 2	05/31/2002 14:55	Water	2
MW 3	05/31/2002 11:00	Water	3
MW 4	05/31/2002 11:45	Water	4
MW 6	05/31/2002 13:20	Water	5
MW 7	05/31/2002 09:55	Water	6
MW 8	05/31/2002 12:30	Water	7

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW 1
Sampled: 05/31/2002 14:05
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-06-0002 - 1
Extracted: 6/5/2002 11:22
QC Batch#: 2002/06/05-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	310	50	ug/L	1.00	06/05/2002 11:22	g
Benzene	3.4	0.50	ug/L	1.00	06/05/2002 11:22	
Toluene	ND	0.50	ug/L	1.00	06/05/2002 11:22	
Ethyl benzene	ND	0.50	ug/L	1.00	06/05/2002 11:22	
Xylene(s)	ND	0.50	ug/L	1.00	06/05/2002 11:22	
MTBE	ND	5.0	ug/L	1.00	06/05/2002 11:22	
Surrogates(s)						
Trifluorotoluene	98.8	58-124	%	1.00	06/05/2002 11:22	
4-Bromofluorobenzene-FID	75.8	50-150	%	1.00	06/05/2002 11:22	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW 2
Sampled: 05/31/2002 14:55
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-06-0002 - 2
Extracted: 6/5/2002 11:49
QC Batch#: 2002/06/05-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	270	50	ug/L	1.00	06/05/2002 11:49	g
Benzene	ND	0.50	ug/L	1.00	06/05/2002 11:49	
Toluene	2.6	0.50	ug/L	1.00	06/05/2002 11:49	
Ethyl benzene	ND	0.50	ug/L	1.00	06/05/2002 11:49	
Xylene(s)	ND	0.50	ug/L	1.00	06/05/2002 11:49	
MTBE	ND	5.0	ug/L	1.00	06/05/2002 11:49	
Surrogates(s)						
Trifluorotoluene	119.5	58-124	%	1.00	06/05/2002 11:49	
4-Bromofluorobenzene-FID	95.5	50-150	%	1.00	06/05/2002 11:49	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8015M
5030 8021B
Sample ID: MW 3 Lab ID: 2002-06-0002 - 3
Sampled: 05/31/2002 11:00 Extracted: 6/5/2002 12:16
Matrix: Water QC Batch#: 2002/06/05-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	160	50	ug/L	1.00	06/05/2002 12:16	g
Benzene	ND	0.50	ug/L	1.00	06/05/2002 12:16	
Toluene	ND	0.50	ug/L	1.00	06/05/2002 12:16	
Ethyl benzene	ND	0.50	ug/L	1.00	06/05/2002 12:16	
Xylene(s)	ND	0.50	ug/L	1.00	06/05/2002 12:16	
MTBE	ND	5.0	ug/L	1.00	06/05/2002 12:16	
Surrogates(s)						
Trifluorotoluene	120.4	58-124	%	1.00	06/05/2002 12:16	
4-Bromofluorobenzene-FID	96.0	50-150	%	1.00	06/05/2002 12:16	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Prep(s): 5030
5030
Test(s): 8015M
8021B
Sample ID: MW 4
Lab ID: 2002-06-0002 - 4
Sampled: 05/31/2002 11:45
Extracted: 6/5/2002 12:43
Matrix: Water
QC Batch#: 2002/06/05-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/05/2002 12:43	
Benzene	ND	0.50	ug/L	1.00	06/05/2002 12:43	
Toluene	ND	0.50	ug/L	1.00	06/05/2002 12:43	
Ethyl benzene	ND	0.50	ug/L	1.00	06/05/2002 12:43	
Xylene(s)	ND	0.50	ug/L	1.00	06/05/2002 12:43	
MTBE	ND	5.0	ug/L	1.00	06/05/2002 12:43	
Surrogates(s)						
Trifluorotoluene	114.6	58-124	%	1.00	06/05/2002 12:43	
4-Bromofluorobenzene-FID	83.2	50-150	%	1.00	06/05/2002 12:43	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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Project: 805385

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CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW 6
Sampled: 05/31/2002 13:20
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-06-0002 - 5
Extracted: 6/5/2002 13:10
QC Batch#: 2002/06/05-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	210	50	ug/L	1.00	06/05/2002 13:10	g
Benzene	5.5	0.50	ug/L	1.00	06/05/2002 13:10	
Toluene	0.76	0.50	ug/L	1.00	06/05/2002 13:10	
Ethyl benzene	ND	0.50	ug/L	1.00	06/05/2002 13:10	
Xylene(s)	2.1	0.50	ug/L	1.00	06/05/2002 13:10	
MTBE	ND	5.0	ug/L	1.00	06/05/2002 13:10	
Surrogates(s)						
Trifluorotoluene	110.9	58-124	%	1.00	06/05/2002 13:10	
4-Bromofluorobenzene-FID	83.0	50-150	%	1.00	06/05/2002 13:10	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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Project: 805385

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CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW 7
Sampled: 05/31/2002 09:55
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-06-0002 - 6
Extracted: 6/5/2002 13:37
QC Batch#: 2002/06/05-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/05/2002 13:37	
Benzene	ND	0.50	ug/L	1.00	06/05/2002 13:37	
Toluene	ND	0.50	ug/L	1.00	06/05/2002 13:37	
Ethyl benzene	ND	0.50	ug/L	1.00	06/05/2002 13:37	
Xylene(s)	ND	0.50	ug/L	1.00	06/05/2002 13:37	
MTBE	ND	5.0	ug/L	1.00	06/05/2002 13:37	
Surrogates(s)						
Trifluorotoluene	110.2	58-124	%	1.00	06/05/2002 13:37	
4-Bromofluorobenzene-FID	80.8	50-150	%	1.00	06/05/2002 13:37	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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Project: 805385

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CA DHS ELAP# 2496

Prep(s): 5030
5030
Sample ID: MW 8
Sampled: 05/31/2002 12:30
Matrix: Water
Test(s): 8015M
8021B
Lab ID: 2002-06-0002 - 7
Extracted: 6/3/2002 21:43
QC Batch#: 2002/06/03-01.04

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/03/2002 21:43	
Benzene	ND	0.50	ug/L	1.00	06/03/2002 21:43	
Toluene	ND	0.50	ug/L	1.00	06/03/2002 21:43	
Ethyl benzene	ND	0.50	ug/L	1.00	06/03/2002 21:43	
Xylene(s)	ND	0.50	ug/L	1.00	06/03/2002 21:43	
MTBE	ND	5.0	ug/L	1.00	06/03/2002 21:43	
Surrogates(s)						
Trifluorotoluene	117.3	58-124	%	1.00	06/03/2002 21:43	
4-Bromofluorobenzene-FID	96.8	50-150	%	1.00	06/03/2002 21:43	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2002/06/03-01.04-003

Water

Test(s): 8015M

QC Batch # 2002/06/03-01.04

Date Extracted: 06/03/2002 08:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/03/2002 08:02	
Benzene	ND	0.5	ug/L	06/03/2002 08:02	
Toluene	ND	0.5	ug/L	06/03/2002 08:02	
Ethyl benzene	ND	0.5	ug/L	06/03/2002 08:02	
Xylene(s)	ND	0.5	ug/L	06/03/2002 08:02	
MTBE	ND	5.0	ug/L	06/03/2002 08:02	
Surrogates(s)					
Trifluorotoluene	113.0	58-124	%	06/03/2002 08:02	
4-Bromofluorobenzene-FID	95.2	50-150	%	06/03/2002 08:02	

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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Project: 805385

Received: 05/31/2002 16:30

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Method Blank

MB: 2002/06/05-01.04-003

Water

Test(s): 8015M

QC Batch # 2002/06/05-01.04

Date Extracted: 06/05/2002 08:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/05/2002 08:56	
Benzene	ND	0.5	ug/L	06/05/2002 08:56	
Toluene	ND	0.5	ug/L	06/05/2002 08:56	
Ethyl benzene	ND	0.5	ug/L	06/05/2002 08:56	
Xylene(s)	ND	0.5	ug/L	06/05/2002 08:56	
MTBE	ND	5.0	ug/L	06/05/2002 08:56	
Surrogates(s)					
Trifluorotoluene	109.2	58-124	%	06/05/2002 08:56	
4-Bromofluorobenzene-FID	92.4	50-150	%	06/05/2002 08:56	

Submission #: 2002-06-0002

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/06/03-01.04

LCS 2002/06/03-01.04-004

Extracted: 06/03/2002

Analyzed: 06/03/2002 08:28

LCSD 2002/06/03-01.04-008

Extracted: 06/03/2002

Analyzed: 06/03/2002 08:55

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	104	100	100.0	104.0	100.0	3.9	77-123	20		
Toluene	102	98.4	100.0	102.0	98.4	3.6	78-122	20		
Ethyl benzene	96.8	93.5	100.0	96.8	93.5	3.5	70-130	20		
Xylene(s)	295	286	300	98.3	95.3	3.1	75-125	20		
Surrogates(s)										
Trifluorotoluene	546	526	500	109.2	105.2		58-124			

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/06/03-01.04

LCS 2002/06/03-01.04-006

Extracted: 06/03/2002

Analyzed: 06/03/2002 09:22

LCSD 2002/06/03-01.04-007

Extracted: 06/03/2002

Analyzed: 06/03/2002 09:48

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	534	510	500	106.8	102.0	4.6	75-125	20		
Surrogates(s) 4-Bromofluorobenzene-FID	458	446	500	91.6	89.2		50-150			

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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Project: 805385

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Water

QC Batch # 2002/06/05-01.04

LCS 2002/06/05-01.04-004

Extracted: 06/05/2002

Analyzed: 06/05/2002 09:23

LCSD 2002/06/05-01.04-005

Extracted: 06/05/2002

Analyzed: 06/05/2002 09:50

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	102	98.7	100.0	102.0	98.7	3.3	77-123	20		
Toluene	100	96.6	100.0	100.0	96.6	3.5	78-122	20		
Ethyl benzene	95.2	91.3	100.0	95.2	91.3	4.2	70-130	20		
Xylene(s)	290	279	300	96.7	93.0	3.9	75-125	20		
Surrogates(s)										
Trifluorotoluene	537	512	500	107.4	102.4		58-124			

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/06/05-01.04

LCS 2002/06/05-01.04-006

Extracted: 06/05/2002

Analyzed: 06/05/2002 10:17

LCSD 2002/06/05-01.04-007

Extracted: 06/05/2002

Analyzed: 06/05/2002 10:44

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	516	496	500	103.2	99.2	4.0	75-125	20		
Surrogates(s) 4-Bromofluorobenzene-FID	434	421	500	86.8	84.2		50-150			

Submission #: 2002-06-0002

Gas/BTEX Compounds by 8015M/8021

Shaw E & I, INC San Jose

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CA DHS ELAP# 2496

Legend and Notes

Result Flag

g

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

Submission #: 2002-06-0002

Dissolved Metals

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

Phone: (408) 350-5648 Fax: (408) 437-9526

Project: 805385

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW 1	05/31/2002 14:05	Water	1
MW 2	05/31/2002 14:55	Water	2
MW 3	05/31/2002 11:00	Water	3
MW 4	05/31/2002 11:45	Water	4
MW 6	05/31/2002 13:20	Water	5
MW 7	05/31/2002 09:55	Water	6
MW 8	05/31/2002 12:30	Water	7

Submission #: 2002-06-0002

Dissolved Metals

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

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Project: 805385

Received: 05/31/2002 16:30

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CA DHS ELAP# 2496

Prep(s): 3005A

Test(s): 6010B

Sample ID: MW 2

Lab ID: 2002-06-0002 - 2

Sampled: 05/31/2002 14:55

Extracted: 6/3/2002 17:58

Matrix: Water

QC Batch#: 2002/06/03-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	06/04/2002 14:55	

Submission #: 2002-06-0002

Dissolved Metals

Shaw E & I, INC San Jose

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Received: 05/31/2002 16:30

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CA DHS ELAP# 2496

Prep(s): 3005A Test(s): 6010B
Sample ID: MW 8 Lab ID: 2002-06-0002 - 7
Sampled: 05/31/2002 12:30 Extracted: 6/3/2002 17:58
Matrix: Water QC Batch#: 2002/06/03-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	06/04/2002 15:14	

Submission #: 2002-06-0002

Dissolved Metals

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

Phone: (408) 350-5648 Fax: (408) 437-9526

Project: 805385

Received: 05/31/2002 16:30

SEVERN

TRENT

LABORATORY

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

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

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3005A

Method Blank

MB: 2002/06/03-05.15-039

Water

Test(s): 6010B

QC Batch # 2002/06/03-05.15

Date Extracted: 06/03/2002 17:58

Compound	Conc.	RL	Unit	Analyzed	Flag
Iron	ND	0.20	mg/L	06/04/2002 13:11	

Submission #: 2002-06-0002

Dissolved Metals

Shaw E & I, INC San Jose
Attn.: Andrew Lehane

San Jose, CA 95131
Phone: (408) 350-5648 Fax: (408) 437-9526
Project: 805385

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www.chromalab.com

CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3005A

Test(s): 6010B

Laboratory Control Spike

Water

QC Batch # 2002/06/03-05.15

LCS 2002/06/03-05.15-040
LCSD 2002/06/03-05.15-041

Extracted: 06/03/2002
Extracted: 06/03/2002

Analyzed: 06/04/2002 13:15
Analyzed: 06/04/2002 13:19

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Iron	4.82	4.89	5.00	96.4	97.8	1.4	80-120	20		

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

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Project: 805385

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www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW 1	05/31/2002 14:05	Water	1
MW 2	05/31/2002 14:55	Water	2
MW 3	05/31/2002 11:00	Water	3
MW 4	05/31/2002 11:45	Water	4
MW 6	05/31/2002 13:20	Water	5
MW 7	05/31/2002 09:55	Water	6
MW 8	05/31/2002 12:30	Water	7

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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CA DHS ELAP# 2496

Prep(s): 9056 Test(s): 9056
Sample ID: MW 1 Lab ID: 2002-06-0002 - 1
Sampled: 05/31/2002 14:05 Extracted: 6/3/2002 00:00
Matrix: Water QC Batch#: 2002/06/03-01.41
Analysis Flag: HT (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	06/03/2002	
Sulfate	8.2	1.0	mg/L	1.00	06/03/2002	

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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CA DHS ELAP# 2496

Prep(s): 9056 Test(s): 9056
Sample ID: MW 2 Lab ID: 2002-06-0002 - 2
Sampled: 05/31/2002 14:55 Extracted: 6/3/2002 00:00
Matrix: Water QC Batch#: 2002/06/03-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	06/03/2002	
Sulfate	ND	1.0	mg/L	1.00	06/03/2002	

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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Project: 805385

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CA DHS ELAP# 2496

Prep(s): 9056 Test(s): 9056
Sample ID: MW 4 Lab ID: 2002-06-0002 - 4
Sampled: 05/31/2002 11:45 Extracted: 6/3/2002 00:00
Matrix: Water QC Batch#: 2002/06/03-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	31	2.0	mg/L	2.00	06/03/2002	
Sulfate	59	2.0	mg/L	2.00	06/03/2002	

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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Project: 805385

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CA DHS ELAP# 2496

Prep(s): 9056 Test(s): 9056
Sample ID: MW 6 Lab ID: 2002-06-0002 - 5
Sampled: 05/31/2002 13:20 Extracted: 6/3/2002 00:00
Matrix: Water QC Batch#: 2002/06/03-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	06/03/2002	
Sulfate	ND	1.0	mg/L	1.00	06/03/2002	

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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CA DHS ELAP# 2496

Prep(s): 9056 Test(s): 9056
Sample ID: MW 7 Lab ID: 2002-06-0002 - 6
Sampled: 05/31/2002 09:55 Extracted: 6/3/2002 00:00
Matrix: Water QC Batch#: 2002/06/03-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	53	5.0	mg/L	5.00	06/03/2002	
Sulfate	83	5.0	mg/L	5.00	06/03/2002	

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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San Jose, CA 95131

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Project: 805385

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 9056

Method Blank

MB: 2002/06/03-01.41-001

Water

Test(s): 9056

QC Batch # 2002/06/03-01.41

Date Extracted: 06/03/2002

Compound	Conc.	RL	Unit	Analyzed	Flag
Nitrate	ND	1.0	mg/L	06/03/2002	
Sulfate	ND	1.0	mg/L	06/03/2002	

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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San Jose, CA 95131

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Project: 805385

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 9056

Test(s): 9056

Laboratory Control Spike

Water

QC Batch # 2002/06/03-01.41

LCS 2002/06/03-01.41-002

Extracted: 06/03/2002

Analyzed: 06/03/2002

LCSD 2002/06/03-01.41-003

Extracted: 06/03/2002

Analyzed: 06/03/2002

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Nitrate	19.6	19.7	20.0	98.0	98.5	0.5	80-120	20		
Sulfate	19.7	19.6	20.0	98.5	98.0	0.5	80-120	20		

Submission #: 2002-06-0002

Misc Anions by Ion Chromatograph

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Project: 805385

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CA DHS ELAP# 2496

Legend and Notes

Analysis Flag

HT

Extracted out of holding time

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

Phone: (408) 350-5648 Fax: (408) 437-9526

Project: 805385

Received: 05/31/2002 16:30

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW 1	05/31/2002 14:05	Water	1
MW 2	05/31/2002 14:55	Water	2
MW 3	05/31/2002 11:00	Water	3
MW 4	05/31/2002 11:45	Water	4
MW 6	05/31/2002 13:20	Water	5
MW 7	05/31/2002 09:55	Water	6
MW 8	05/31/2002 12:30	Water	7

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

Shaw E & I, INC San Jose

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Project: 805385

Received: 05/31/2002 16:30

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MW 1 Lab ID: 2002-06-0002 - 1
Sampled: 05/31/2002 14:05 Extracted: 6/6/2002 07:32
Matrix: Water QC Batch#: 2002/06/06-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	130	50	ug/L	1.00	06/08/2002 17:47	ndp
Motor Oil	ND	500	ug/L	1.00	06/08/2002 17:47	
Surrogates(s)						
o-Terphenyl	73.2	60-130	%	1.00	06/08/2002 17:47	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

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Project: 805385

Received: 05/31/2002 16:30

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Tel: (925) 484-1919
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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MW 2 Lab ID: 2002-06-0002 - 2
Sampled: 05/31/2002 14:55 Extracted: 6/6/2002 07:32
Matrix: Water QC Batch#: 2002/06/06-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	820	50	ug/L	1.00	06/08/2002 17:07	ndp
Motor Oil	ND	500	ug/L	1.00	06/08/2002 17:07	
Surrogates(s)						
o-Terphenyl	76.2	60-130	%	1.00	06/08/2002 17:07	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

Phone: (408) 350-5648 Fax: (408) 437-9526

Project: 805385

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LABORATORY

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Fax: (925) 484-1096
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www.chromalab.com

CA DHS ELAP# 2496

Prep(s):	3510/8015M	Test(s):	8015M
Sample ID:	MW 3	Lab ID:	2002-06-0002 - 3
Sampled:	05/31/2002 11:00	Extracted:	6/6/2002 07:32
Matrix:	Water	QC Batch#:	2002/06/06-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	240	50	ug/L	1.00	06/08/2002 15:08	ndp
Motor Oil	ND	500	ug/L	1.00	06/08/2002 15:08	
Surrogates(s)						
o-Terphenyl	78.6	60-130	%	1.00	06/08/2002 15:08	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

Shaw E & I, INC San Jose

Attn.: Andrew Lehane

San Jose, CA 95131

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Project: 805385

Received: 05/31/2002 16:30

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CA DHS ELAP# 2496

Prep(s): 3510/8015M

Test(s): 8015M

Sample ID: MW 4

Lab ID: 2002-06-0002 - 4

Sampled: 05/31/2002 11:45

Extracted: 6/6/2002 07:32

Matrix: Water

QC Batch#: 2002/06/06-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	06/08/2002 14:28	
Motor Oil	ND	500	ug/L	1.00	06/08/2002 14:28	
Surrogates(s) o-Terphenyl	78.6	60-130	%	1.00	06/08/2002 14:28	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MW 6 Lab ID: 2002-06-0002 - 5
Sampled: 05/31/2002 13:20 Extracted: 6/6/2002 07:32
Matrix: Water QC Batch#: 2002/06/06-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	280	50	ug/L	1.00	06/08/2002 18:27	ndp
Motor Oil	ND	500	ug/L	1.00	06/08/2002 18:27	
Surrogates(s)						
o-Terphenyl	77.4	60-130	%	1.00	06/08/2002 18:27	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MW 7 Lab ID: 2002-06-0002 - 6
Sampled: 05/31/2002 09:55 Extracted: 6/6/2002 07:32
Matrix: Water QC Batch#: 2002/06/06-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	06/08/2002 16:28	
Motor Oil	ND	500	ug/L	1.00	06/08/2002 16:28	
Surrogates(s)						
o-Terphenyl	74.3	60-130	%	1.00	06/08/2002 16:28	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP# 2496

Prep(s): 3510/8015M Test(s): 8015M
Sample ID: MW 8 Lab ID: 2002-06-0002 - 7
Sampled: 05/31/2002 12:30 Extracted: 6/6/2002 07:32
Matrix: Water QC Batch#: 2002/06/06-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	06/08/2002 15:48	
Motor Oil	ND	500	ug/L	1.00	06/08/2002 15:48	
Surrogates(s) o-Terphenyl	83.3	60-130	%	1.00	06/08/2002 15:48	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Method Blank

MB: 2002/06/06-04.10-003

Water

Test(s): 8015M

QC Batch # 2002/06/06-04.10

Date Extracted: 06/06/2002 07:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	06/06/2002 11:19	
Motor Oil	ND	500	ug/L	06/06/2002 11:19	
Surrogates(s)					
o-Terphenyl	67.0	60-130	%	06/06/2002 11:19	

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP# 2496

Batch QC Report

Prep(s): 3510/8015M

Test(s): 8015M

Laboratory Control Spike

Water

QC Batch # 2002/06/06-04.10

LCS 2002/06/06-04.10-001

Extracted: 06/06/2002

Analyzed: 06/06/2002 11:59

LCSD 2002/06/06-04.10-002

Extracted: 06/06/2002

Analyzed: 06/06/2002 10:39

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	795	921	1250	63.6	73.7	14.7	60-130	25		
Surrogates(s) o-Terphenyl	16.7	17.8	20.0	83.3	89.1		60-130	0		

Submission #: 2002-06-0002

TEPH w/ Silica Gel Clean-up

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CA DHS ELAP# 2496

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

2002-06-0002

lele637

Chain of Custody



IT Corporation Shaw E & I
 1921 Ringwood Avenue
 San Jose, CA 95131-1721
 Office 408.453.7300 Fax 408.437.9526

PROJECT No. **805385**

Facility No. **L CONCO**

Facility Address: **2901 Glasscock St Oakland**

Billing Reference Number:

CLIENT engineer: **GARY MARTZ**

PACIFIC Point of Contact: **ANDREA LEMUS**

Sampler: **Jody Rhoades**

Laboratory Name:

Sample I.D.	Cont. No.	Container Size (ml)	Sample Preserv.	Matrix	Type	Sampling Date	Sampling Time	BTEX/ VPHgas (8015/ 8020)	TPH Diesel (8015)	Oil and Grease (5520)	Total Dieivd. Metals	VOC (EPA 824)	SVOC (EPA 827)	HVOC (EPA 801)	Comments:			
															W=water	G=grab	S=soil	D=diec.
NW-1	7	40ml 500	HCLUP	W	G	5/31/02	1405	X							X	X	X	
NW-2						5/31/02	1455											
NW-3						5/31/02	11:00											
NW-4						5/31/02	11:45											
NW-6						5/31/02	1320											
NW-7						5/31/02	9:55											
NW-8						5/31/02	1230											

Condition of Sample:

Temperature Received:

Mail original Analytical Report to:

Turnaround Time:

Relinquished by <i>Jody Rhoades</i>	Date 5/31/02	Time 1630	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by laboratory <i>Denise Harrington</i>	Date 5/31/02 @	Time 1630

IT Corporation

1921 Ringwood Avenue
San Jose, CA 95131-1721

Priority Rush (1 day)
 Rush (2 days)
 Expedited (5 days)
 Standard (10 days)
 As Contracted

16.9°C (62°F)

66637



STL San Francisco

Sample Receipt Checklist

Submission #: 2002- 06 - 0002

Checklist completed by: (initials) CR Date: 06 10 3/02

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples

Yes ___ No ___ Not Present

Chain of custody present?

Yes No ___

Chain of custody signed when relinquished and received?

Yes No ___

Chain of custody agrees with sample labels?

Yes No ___

Samples in proper container/bottle?

Yes No ___

Sample containers intact?

Yes No ___

Sufficient sample volume for indicated test?

Yes No ___

All samples received within holding time?

Yes No ___

Container/Temp Blank temperature in compliance ($4^{\circ}C \pm 2$)?

Temp: (4hr)
16.9 °C Yes No ___

Water - VOA vials have zero headspace?

No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - \bigcirc), M (medium - \bigcirc) or L (large - \bigcirc))

Water - pH acceptable upon receipt? Yes No

pH adjusted - Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: Samples filtered & acidified w/HNO₃ for Fe;
splits made & acidified w/H₂SO₄ for NO₃ (ship to
STL-Chicago 6/3) - DSH

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/02

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

SEVERN

TRENT

STRUCTS

STL Chicago

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 218045

Prepared For:

Severn Trent Laboratories
1220 Quarry Lane
Pleasanton, CA 94566-4756

Project: Analytical Testing for STL SF

Attention: Vincent Vancil

Date: 05/10/2002

Linda S Mackley

Signature

Name: Linda S. Mackley

Title: Project Manager

E-Mail: lmackley@stl-inc.com

6-10-02

Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200

FAX.: (708) 534-5211

STL Chicago is part of Severn Trent Laboratories, Inc.

STL Chicago

S.A.M.P.L.E. I.N.F.O.R.M.A.T.I.O.N.	
Date: 06/10/2002	
Job Number.: 210045	Project Number.....: 20002032
Customer...: Severn Trent Laboratories	Customer Project ID....: 2002-06-0002
Attn.....: Vincent Vancil	Project Description....: Analytical Testing for STL SF

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
210045-1	MW1	Water	05/31/2002	14:05	06/04/2002	09:20
210045-2	MW2	Water	05/31/2002	14:55	06/04/2002	09:20
210045-3	MW3	Water	05/31/2002	11:00	06/04/2002	09:20
210045-4	MW4	Water	05/31/2002	11:45	06/04/2002	09:20
210045-5	MW6	Water	05/31/2002	13:20	06/04/2002	09:20
210045-6	MW7	Water	05/31/2002	09:55	06/04/2002	09:20
210045-7	MW8	Water	05/31/2002	12:30	06/04/2002	09:20

LABORATORY TEST RESULTS

Job Number: 210045

Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories

PROJECT: 2002-06-0002

ATTN: Vincent Vercil

Customer Sample ID: MW1
Date Sampled.....: 05/31/2002
Time Sampled.....: 14:05
Sample Matrix.....: Water

Laboratory Sample ID: 210045-1
Date Received.....: 06/04/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate + Nitrite as N	0.16	0.10	mg/L	06/06/02	kd

* In Description = Dry Wgt.

STL Chicago

Job Number: 210045 LABORATORY TEST RESULTS Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories PROJECT: 2002-06-0002 ATTN: Vincent Vancil

Customer Sample ID: MW2
Date Sampled.....: 05/31/2002
Time Sampled.....: 14:55
Sample Matrix.....: Water

Laboratory Sample ID: 210045-2
Date Received.....: 06/04/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate + Nitrite as N	<0.10	0.10	mg/L	06/06/02	kd

* In Description = Dry Wgt.

Job Number: 210045 LABORATORY TEST RESULTS Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories PROJECT: 2002-06-0002 ATTN: Vincent Vancil

Customer Sample ID: MW3
Date Sampled.....: 05/31/2002
Time Sampled.....: 11:00
Sample Matrix.....: Water

Laboratory Sample ID: 210045-3
Date Received.....: 06/04/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate + Nitrite as N	<0.10	0.10	mg/L	06/06/02	kd

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 210045

Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories PROJECT: 2002-06-0002 ATTN: Vincent Vancil

Customer Sample ID: MW4
Date Sampled.....: 05/31/2002
Time Sampled.....: 11:45
Sample Matrix.....: Water

Laboratory Sample ID: 210045-4
Date Received.....: 06/04/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate + Nitrite as N	6.7	0.10	mg/L	06/06/02	kd

* In Description = Dry Wgt.

STL Chicago

Job Number: 210045 LABORATORY TEST RESULTS Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories PROJECT: 2002-04-0002 ATTN: Vincent Vancil

Customer Sample ID: MW6
Date Sampled.....: 05/31/2002
Time Sampled.....: 13:20
Sample Matrix.....: Water

Laboratory Sample ID: 210045-5
Date Received.....: 06/04/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate + Nitrite as N	<0.10	0.10	mg/L	06/06/02	kd

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 210045

Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories

PROJECT: 2002-06-0002

ATTN: Vincent Vancit

Customer Sample ID: MW7
Date Sampled.....: 05/31/2002
Time Sampled.....: 09:55
Sample Matrix.....: Water

Laboratory Sample ID: 210045-6
Date Received.....: 06/04/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate + Nitrite as N	12	0.10	mg/L	06/06/02	kd

* In Description = Dry Wgt.

Job Number: 210045 LABORATORY TEST RESULTS Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories PROJECT: 2002-06-0002 ATTN: Vincent Vancil

Customer Sample ID: MW8
Date Sampled.....: 05/31/2002
Time Sampled.....: 12:30
Sample Matrix.....: Water

Laboratory Sample ID: 210045-7
Date Received.....: 06/04/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.) Nitrate + Nitrite as N	7.8	0.10	mg/L	06/06/02	kd

* In Description = Dry Wgt.

STL Chicago

Job Number: 210045

LABORATORY CHRONICLE

Date: 06/10/2002

CUSTOMER: Severn Trent Laboratories

PROJECT: 2002-06-0002

ATTN: Vincent Vancil

Lab ID:	Client ID:	Date Recvd:	Sample Date:				DILUTION
METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED	
210045-1	MW1	06/04/2002	05/31/2002	1	53832	06/06/2002 1507	1
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)						
PKG INO (WC)	PKG INO (WEY CHEMISTRY)			1			
210045-2	MW2	06/04/2002	05/31/2002	1	53832	06/06/2002 1508	1
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)						
210045-3	MW3	06/04/2002	05/31/2002	1	53832	06/06/2002 1508	1
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)						
210045-4	MW4	06/04/2002	05/31/2002	1	53832	06/06/2002 1509	1
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)						
210045-5	MW6	06/04/2002	05/31/2002	1	53832	06/06/2002 1512	1
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)						
210045-6	MW7	06/04/2002	05/31/2002	1	53832	06/06/2002 1513	1
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)						
210045-7	MW8	06/04/2002	05/31/2002	1	53832	06/06/2002 1514	1
353.2	Nitrogen, NO2, NO3 (Auto Cd Red.)						

Job Number.: 210045	QUALITY CONTROL RESULTS	Report Date.: 06/10/2002
CUSTOMER: Severn Trent Laboratories	PROJECT: 2002-06-0002	ATTN: Vincent Vancil

Test Method: 353-2	Batch: 53832	Analyst: kd
Method Description: Nitrogen, NO2, NO3 (Auto-Cd Red.)	Equipment Code: LACHAT1	Test Code: NO3NO2
Parameter: Nitrate + Nitrite as N		

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc. F	*	Limits	Date	Time
ICV	53832	I01KSTIC31	mg/L	1.06000		1.00000		106	%	90-110	06/06/2002	1500
ICB	53832		mg/L	0.06800	U						06/06/2002	1501
MB	53832		mg/L	0.06800	U						06/06/2002	1502
LCS	53832	I01KSTIC31	mg/L	1.03200		1.00000		103	%	80-120	06/06/2002	1503
CCV	53832	I01KSTIC31	mg/L	0.91800		1.00000		92	%	90-110	06/06/2002	1510
CCB	53832		mg/L	0.06800	U						06/06/2002	1511
CCV	53832	I01KSTIC31	mg/L	0.92900		1.00000		93	%	90-110	06/06/2002	1520
CCB	53832		mg/L	0.06800	U						06/06/2002	1521
CCV	53832	I01KSTIC31	mg/L	1.04700		1.00000		105	%	90-110	06/06/2002	1525
CCB	53832		mg/L	0.06800	U						06/06/2002	1525
CCV	53832	I01KSTIC31	mg/L	1.05100		1.00000		105	%	90-110	06/06/2002	1533
CCB	53832		mg/L	0.06800	U						06/06/2002	1534

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/10/2002

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
- 3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
- 5) Arizona Environmental Laboratory License number AZ0603.
- 6) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

- U Analyte was not detected at or above the stated limit.
- < Not detected at or above the reporting limit.
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
- S Result was determined by the Method of Standard Additions.
- F AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

- ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
- * LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
- + MSA correlation coefficient is less than 0.995.
- 4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial dilution exceeds the control limits.
- H MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- W AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

- U Analyte was not detected at or above the stated limit.
- ND Compound not detected.
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- Q Result was qualitatively confirmed, but not quantified.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.
- E Result exceeded calibration range, secondary dilution required.
- F AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

- B MB: Batch QC is greater than reporting limit.
- * LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
- EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
- A Concentration exceeds the instrument calibration range
- a Concentration is below the method Reporting Limit (RL)
- B Compound was found in the blank and sample.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- H Alternate peak selection upon analytical review
- I Indicates the presence of an interference, recovery is not calculated.
- M Manually integrated compound.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/10/2002

P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

Abbreviations

AS Post Digestion Spike (GFAA Samples - See Note 1 below)
 Batch Designation given to identify a specific extraction, digestion, preparation set, or analysis set
 CAP Capillary Column CCB Continuing Calibration Blank
 CCV Continuing Calibration Verification
 CF Confirmation analysis of original
 C1 Confirmation analysis of A1 or D1
 C2 Confirmation analysis of A2 or D2
 C3 Confirmation analysis of A3 or D3
 CRA Low Level Standard Check - GFAA; Mercury
 CRI Low Level Standard Check - ICP
 CV Calibration Verification Standard
 Dil Fac Dilution Factor - Secondary dilution analysis
 D1 Dilution 1
 D2 Dilution 2
 D3 Dilution 3
 DLFac Detection Limit Factor
 DSM Distilled Standard - High Level
 DSL Distilled Standard - Low Level
 DSM Distilled Standard - Medium Level
 EB1 Extraction Blank 1
 EB2 Extraction Blank 2
 EB3 DI Blank
 ELC Method Extracted LCS
 ELD Method Extracted LCD
 ICAL Initial calibration
 ICB Initial Calibration Blank
 ICV Initial Calibration Verification
 IDL Instrument Detection Limit
 ISA Interference Check Sample A - ICAP
 ISB Interference Check Sample B - ICAP
 Job No. The first six digits of the sample ID which refers to a specific client, project and sample group
 Lab ID An 8 number unique laboratory identification
 LCD Laboratory Control Standard Duplicate
 LCS Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
 MB Method Blank or (PB) Preparation Blank
 MD Method Duplicate
 MDL Method Detection Limit
 MLE Medium Level Extraction Blank
 NRL Method Reporting Limit Standard
 MSA Method of Standard Additions
 MS Matrix Spike
 MSD Matrix Spike Duplicate
 ND Not Detected
 PREPF Preparation factor used by the Laboratory's Information Management System (LIMS)
 PDS Post Digestion Spike (ICAP)
 RA Re-analysis of original
 A1 Re-analysis of D1
 A2 Re-analysis of D2
 A3 Re-analysis of D3
 RD Re-extraction of dilution
 RE Re-extraction of original
 RC Re-extraction Confirmation
 RL Reporting Limit
 RPD Relative Percent Difference of duplicate (unrounded) analyses
 RRF Relative Response Factor

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/10/2002

RT Retention Time
 RTW Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
 SCB Seeded Control Blank
 SD Serial Dilution
 UCB Unseeded Control Blank
 SSV Second Source Verification Standard
 SLCS Solid Laboratory Control Standard(LCS)
 PHC pH Calibration Check
 LCSP pH Laboratory Control Sample
 LCDP pH Laboratory Control Sample Duplicate
 MDPH pH Sample Duplicate
 MDFP Flashpoint Sample Duplicate
 LCFP Flashpoint LCS
 G1 Gelex Check Standard Range 0-1
 G2 Gelex Check Standard Range 1-10
 G3 Gelex Check Standard Range 10-100
 G4 Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCSS=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)

FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock St WELL ID #: Mw-1

CLIENT/STATION No.: Torr. Oliver Site FIELD TECHNICIAN: Jody Rhodes

WELL INFORMATION

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

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

CASING DIAMETER

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

GAL/LINEAR FT.

SAMPLE TYPE

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

TD 1280 - DTW 8.33 = 11.47 Gal/Linear Foot 1.17 = 1.94 x Number of Casings 3 = Calculated Purge 5.84

DATE PURGED: 5/31/02 START: 13:50 END (2400 hr): _____ PURGED BY: JR
 DATE SAMPLED: 5/31/02 START: 1405 END (2400 hr): _____ SAMPLED BY: JR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>1353</u>	<u>2</u>	<u>7.88</u>	<u>1.07</u>	<u>68.1</u>	<u>Brown</u>	<u>Heavy</u>	<u>Strang</u>
<u>1357</u>	<u>4</u>	<u>6.98</u>	<u>1.06</u>	<u>64.6</u>	<u>11</u>	<u>11</u>	<u>11</u>
<u>1400</u>	<u>6</u>	<u>6.84</u>	<u>.98</u>	<u>63.5</u>	<u>11</u>	<u>11</u>	<u>11</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: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>Mw.</u>			<u>3</u>	<u>40ml</u>	<u>Uoa</u>	<u>HCL</u>	<u>Gas, Dtex, MTBE</u>
			<u>2</u>	<u>1L</u>	<u>Amb</u>	<u>NP</u>	<u>TPH, P, T, PH, 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/ROU</u>

REMARKS: DO: 2.0
ORP: 031
1L PLAST HNO3 METALS

SIGNATURE: Jody Rhodes



WATER SAMPLE FIELD DATA SHEET

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

CLIENT/STATION No.: Torr. Oliver Site FIELD TECHNICIAN: Jody Rhoads

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 7.04 = 10.71 x Gal/Linear Foot .17 = 1.82 x Number of Casings 3 = Calculated Purge 5.46

DATE PURGED: 5/31/02 START: 14:35 END (2400 hr): _____ PURGED BY: JR

DATE SAMPLED: 5/31/02 START: 14:55 END (2400 hr): _____ SAMPLED BY: JR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
14:42	2	7.21	1.32	66.4	yellow brown	Heavy	Strong
14:45	4	7.18	1.25	67.3	↓	↓	↓
14:50	6	6.93	1.20	66.9	↓	↓	↓

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>MW</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: 0.8
ORP: 010
1L PLAST HNO3 METALS

SIGNATURE: Jody Rhoads



WATER SAMPLE FIELD DATA SHEET

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

CLIENT/STATION No.: Ferr. Oliver Site FIELD TECHNICIAN: Jody Rhoades

WELL INFORMATION

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

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

CASING DIAMETER

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

GAL/ LINEAR FT.

SAMPLE TYPE

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

TD 19.80 - DTW 5.99 = 13.81 x Gal/Linear Foot .17 = 2.34 x Number of Casings 3 = Calculated Purge 7.04

DATE PURGED: 5/31/02 START: 10:40 END (2400 hr): _____ PURGED BY: JR
 DATE SAMPLED: 5/31/02 START: 11:00 END (2400 hr): _____ SAMPLED BY: JR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
10:44	2.5	7.62	1.06	62.8	yellow clear	Light	mod faint
10:48	5	7.14	1.01	62.5	yellow	Light	mod
10:51	7.5	7.18	.99	62.3	yellow	Light	mod

Pumped dry Yes / No

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: _____ TOB/TOC _____

PURGING EQUIPMENT/I.D. #

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

SAMPLING EQUIPMENT/I.D. #

Bailer: _____ Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>MW</u>			<u>3</u>	<u>40ml</u>	<u>Uoa</u>	<u>HCL</u>	<u>CAS, 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: 1.8 1L PLAST H2O2 METALS
ORP: -102

SIGNATURE: Jody Rhoades



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: Jody Rhodes

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

TD 19.70 - DTW 7.88 = 11.82 x Gal/Linear Foot .17 = 2.00 x Number of Casings 3 = Calculated Purge 6.02

DATE PURGED: 5/31/02 START: 11:25 END (2400 hr): _____ PURGED BY: _____

DATE SAMPLED: 5/31/02 START: 11:45 END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
<u>11:28</u>	<u>2</u>	<u>7.48</u>	<u>.73</u>	<u>66.4</u>	<u>clear</u>	<u>Mod</u>	<u>Mod</u>
<u>11:32</u>	<u>4</u>	<u>7.60</u>	<u>.61</u>	<u>64.3</u>	<u>clear</u>	<u>Mod</u>	<u>Mod</u>
<u>11:40</u>	<u>6</u>	<u>7.81</u>	<u>.62</u>	<u>66.5</u>	<u>clear</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: _____

Dedicated: _____

Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>Mw-</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>FERROSI-IRON</u>

REMARKS: DO: 2.2

ORP: 121

SIGNATURE: Jody Rhodes



FIELD DATA SHEET

WATER SAMPLE FIELD DATA SHEET

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

CLIENT/STATION No.: Torr. Oliver Site FIELD TECHNICIAN: Jody Rhoades

WELL INFORMATION

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

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

CASING

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

SAMPLE TYPE

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

TD 19.50 - DTW 11.01 = 8.49 Gal/Linear Foot .17 = 1.44 x Number of Casings 3 = Purge 4.32

DATE PURGED: 5/31/02 START: 1300 END (2400 hr): _____ PURGED BY: _____
 DATE SAMPLED: 5/31/02 START: 1320 END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1303	1.5	6.87	1.26	64.9	Brown	Heavy	Strong
1306	3	6.72	1.10	61.8	11	11	11
1310	4.5	6.68	1.13	60.7	11	11	11

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>Mw-</u>			<u>3</u>	<u>40ml</u>	<u>Uoa</u>	<u>HCL</u>	<u>Gas, Dtex, 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: 1.0 1L PLAST H2O2 METALS
ORP: 023

SIGNATURE: Jody Rhoades



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: Jody Woods

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

TD 17.75 - DTW 4.06 = 13.69 Gal/Linear Foot 0.17 = 2.32 x Number of Casings 3 = Calculated Purge 6.98

DATE PURGED: 5/31/02 START: 9:40 END (2400 hr): _____ PURGED BY: JR
 DATE SAMPLED: 5/31/02 START: 9:55 END (2400 hr): _____ SAMPLED BY: JR

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
9:45	2.5	6.67	1.22	67.4	Clear	Light	none
9:48	5	7.20	1.13	66.7	clear	Light	none
9:53	7.5	7.25	1.21	66.1	Clear	Light	none

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

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

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>Mw</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>FERROUS IRON</u>

REMARKS: DO: 3.1
ORP: 138
1L PLAST HNO3 METALS

SIGNATURE: Jody Woods



WATER SAMPLE FIELD DATA SHEET

PROJECT No.: 805385 LOCATION 2901 Glascock St WELL ID #: Yw-8

CLIENT/STATION No.: Ferr. Oliver Site FIELD TECHNICIAN: Jody Rheador

WELL INFORMATION

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

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

CASING

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

SAMPLE TYPE

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

TD 17.70 - DTW 10.57 = 7.13 x Gal/Linear Foot 0.17 = 1.21 x Number of Casings 3 = Calculated Purge 3.63

DATE PURGED: 5/31/02 START: 11:55 END (2400 hr): _____ PURGED BY: _____
 DATE SAMPLED: 5/31/02 START: 12:30 END (2400 hr): _____ SAMPLED BY: _____

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR
1200	1.25	7.11	1.56	64.9	lt. Brown	mod	mod
1210	2.5	7.01	1.53	62.7	↓	↓	↓
1210	3.75	7.05	1.59	61.6	↓	↓	↓

Pumped dry Yes / No _____

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:
 DTW: _____ TOB/TOC _____

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

SAMPLING EQUIPMENT/I.D. #
 Airlift Pump: _____
 Dedicated: _____
 Other: _____

SAMP. CNTRL #	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
<u>Yw-</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>FERROSI/IRON</u>

REMARKS: DO: 8.4
ORP: 142

SIGNATURE: Jody Rheador

