

September 30, 2005

Mr. Jeff Carson
Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, CA 94580

Re: Monthly Discharge Report – August 2005
Discharge Permit #SDP-037
ARCO Service Station #0608
17601 Hesperian Boulevard
San Lorenzo, California
State ID #779

Alameda County
OCT 10 2005
Environmental Health

Dear Mr. Carson:

On behalf of Atlantic Richfield Company, a BP affiliated company, URS Corporation (URS) is operating a groundwater extraction and treatment (GWET) system at the above referenced site. This letter transmits GWET system operational data for the period from August 11 2005 through September 10, 2005 (Tables 1 and 2). Operational parameters are summarized below.

<i>Treatment System Status:</i>	<i>Operational through 09/7/05</i>
<i>Reporting Period:</i>	<i>08/10/05 to 09/7/05</i>
<i>Volume Discharged this period:</i>	<i>33,354 gallons</i>
<i>Effluent pH Reading:</i>	<i>6.91</i>
<i>Average Flow Rate this period:</i>	<i>0.83 gpm</i>
<i>Analytical Report:</i>	<i>Attachment A</i>
<i>O & M Field Information:</i>	<i>Attachment B</i>

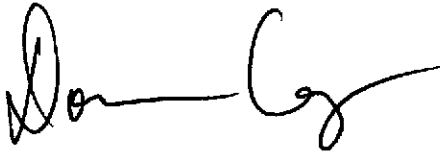
DISCUSSION:

Monthly compliance samples were collected on August 25, 2005, and analyzed for gasoline range organics, benzene, toluene, ethylbenzene, total xylenes, and fuel additives by EPA Method 8260B. The benzene results were omitted from the laboratory report. They will be included in the next discharge report. Methyl tert butyl ether was detected at or above the laboratory reporting limit in the influent sample and the sample collected between the primary and secondary carbon vessels at concentrations of 9.8 µg/L and 2.2 µg/L, respectively. No other fuel components were detected at or above their respective laboratory reporting limits this month.

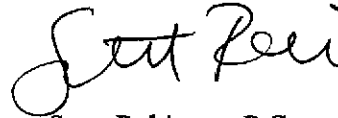
If you have any questions regarding this project or require further information, please do not hesitate to call me at 510-874-3019.

Sincerely,

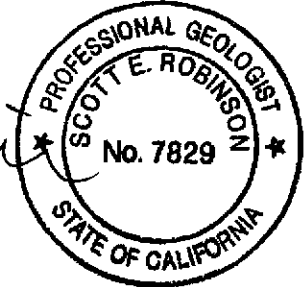
URS CORPORATION



Donna Cospers, E.I.T.
Senior Engineer



Scott Robinson, P.G.
Project Manager



Attachments: Table 1 - Treatment System Metered Volume
Table 2 - Treatment System Analytical Data
Attachment A - Certified Analytical Report and Chain-of-Custody
Documentation
Attachment B - Operation and Maintenance Field Logs

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS
Mr. John Kaiser, Regional Water Quality Control Board – electronic copy uploaded to ftp server
and GeoTracker
Ms. Donna Drogos, Alameda County Environmental Health, 1131 Harbor Bay
Parkway, Alameda, CA 94502

Alameda County
OCT 10 2005
Environmental Health

Table 1
Treatment System Metered Volume
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

Meter Reading Date	Hour Meter Reading (Hrs)	Total (hrs)	System Downtime (%) ^(a)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed (gallons)	Average Flow Rate (gpm)	
06/05/00	a	29,593	96.64	979,800	3,200	3,200	2.1	
06/19/00		29,896	9.82	1,052,390	72,590	75,790	4.0	
06/28/00		30,062	22.96	1,082,340	29,950	105,740	3.0	
07/08/00		30,352	0.00	1,131,560	49,220	154,960	2.8	
07/26/00		30,749	8.10	1,196,420	64,860	219,820	2.7	
08/07/00		30,955	28.47	1,228,020	31,600	251,420	2.6	
08/29/00		31,309	32.90	1,276,650	48,630	300,050	2.3	
09/08/00		31,528	8.87	1,306,300	29,650	329,700	2.3	
09/28/00		32,011	0.00	1,368,410	62,110	391,810	2.1	
10/28/00		32,638	12.85	1,444,183	75,773	467,583	2.0	
11/30/00		33,399	3.96	1,534,960	90,777	558,360	2.0	
12/28/00		33,761	46.15	1,576,520	41,560	599,920	1.9	
01/04/01		33,924	2.80	1,595,340	18,820	618,740	1.9	
02/06/01		34,556	20.15	1,672,330	76,990	695,730	2.0	
03/08/01		34,776	69.50	1,698,860	26,530	722,260	2.0	
03/24/01		35,088	18.67	1,741,170	42,310	764,570	2.3	
04/05/01		35,310	22.99	1,767,530	26,360	790,930	2.0	
04/18/01		35,335	92.15	1,770,860	3,330	794,260	2.3	
05/04/01		35,716	0.81	1,812,690	41,830	836,090	1.8	
06/09/01		36,345	27.13	1,879,710	67,020	903,110	1.8	
07/05/01	b	36,469	80.10	1,897,180	17,470	920,580	2.3	
07/28/01		36,821	36.29	1,928,250	31,070	951,650	1.5	
08/14/01	c	36,822	99.80	1,928,510	260	951,910	5.4	
09/05/01		37,219	24.81	1,977,050	48,540	1,000,450	2.0	
10/05/01		37,932	0.94	2,040,950	63,900	1,064,350	1.5	
11/13/01		38,820	5.15	2,119,670	78,720	1,143,070	1.5	
12/11/01		39,496	0.00	2,186,530	66,860	1,209,930	1.6	
01/04/02		40,063	1.60	2,248,700	62,170	1,272,100	1.8	
01/31/02		40,716	0.00	2,321,310	72,610	1,344,710	1.9	
02/05/02		40,830	5.33	2,333,090	11,780	1,356,490	1.7	
02/25/02		40,831	99.62	2,333,270	180	1,356,670	1.7	
03/05/02		40,968	29.01	2,353,460	20,190	1,376,860	2.5	
04/08/02		41,735	5.96	2,448,360	94,900	1,471,760	2.1	
05/04/02		42,362	-0.46	2,487,090	38,730	1,510,490	1.0	
05/31/02	d	42,832	27.47	2,503,380	16,290	1,526,780	0.6	
08/19/02		44,925	0.00	2,520,289	16,909	1,543,689	0.1	
10/03/02	e	44,956	97.11	2,520,582	293	1,543,982	N/A	
10/07/02	e	44,956	100.00	2,522,394	1,812	1,545,794	N/A	
10/24/02	e	44,956	100.00	2,527,898	5,504	1,551,298	N/A	
11/07/02	f	0	-	2,527,925	27	1,551,325	N/A	
11/21/02		336	45,292	0.00	2,527,945	20	1,551,345	0.00
12/05/02	g	479	45,435	57.71	2,528,113	168	1,551,513	0.02
12/18/02	g	788	45,744	0.90	2,555,895	27,782	1,579,295	1.50
01/03/02	g	1,174	46,130	100.00	2,591,359	35,464	1,614,759	1.53
01/16/03	g	1,486	46,442	96.56	2,625,812	34,453	1,649,212	1.84
02/13/03	g	2,156	47,112	0.36	2,692,710	66,898	1,716,110	1.67
03/13/03		2,832	47,788	0.00	2,758,948	66,238	1,782,348	1.63
03/27/03		3,165	48,121	0.71	2,790,668	31,720	1,814,068	1.58
04/10/03		3,500	48,456	0.27	2,828,060	37,392	1,851,460	1.86
04/24/03		3,837	48,793	0.00	2,865,050	36,990	1,888,450	1.83
05/08/03		4,172	49,128	0.36	2,900,937	35,887	1,924,337	1.79
05/22/03	h	4,459	49,415	14.46	2,931,190	30,253	1,954,590	1.75
05/30/03	i	4,459	49,415	100.00	2,931,190	0	1,954,590	0.00
06/05/03		4,606	49,562	0.00	2,946,180	14,990	1,969,580	1.69
06/19/03		4,940	49,896	0.77	2,971,985	25,805	1,995,385	1.29

Table 1
Treatment System Metered Volume
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

Meter Reading Date	Hour Meter Reading (Hrs)	Total (hrs)	System Downtime (%) ^(k)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed (gallons)	Average Flow Rate (gpm)
07/11/03	4,940	49,896	100.00	2,971,985	0	1,995,385	0.00
07/24/03	5,331	50,287	0.00	2,972,362	377	1,995,762	0.02
08/14/03	5,831	50,787	0.95	3,013,517	41,532	2,036,917	0.78
08/28/03	6,165	51,121	0.51	3,040,900	27,383	2,064,300	1.37
09/11/03	6,503	51,459	0.00	3,067,641	26,741	2,091,041	1.32
09/25/03	6,838	51,794	0.21	3,095,020	27,379	2,118,420	1.36
10/09/03	7,176	52,132	0.00	3,122,624	81,724	2,146,024	1.35
10/23/03	7,512	52,468	0.00	3,149,200	26,576	2,172,600	1.32
11/06/03	NA	NA	NA	NA	NA	NA	NA
11/20/03	8,182	53,138	0.33	3,204,612	55,412	2,228,012	1.38
12/04/03	8,518	53,474	0.00	3,233,956	29,344	2,201,944	0.49
12/18/03	8,851	53,807	1.07	3,264,487	30,531	2,232,475	1.53
01/08/04	9,356	54,312	0.00	3,312,485	47,998	2,276,010	1.58
01/22/04	9,690	54,646	0.68	3,344,994	32,509	2,308,519	1.62
02/05/04	10,026	54,982	0.06	3,377,510	32,516	2,341,035	1.61
02/19/04	10,357	55,313	1.58	3,410,457	32,947	2,373,982	1.66
03/04/04	10,695	55,651	0.00	3,446,501	36,044	2,410,026	1.77
03/18/04	11,030	55,986	0.33	3,480,890	34,389	2,444,415	1.71
04/07/04	11,509	56,465	0.23	3,524,179	43,289	2,487,704	1.51
04/22/04	11,869	56,825	0.03	3,552,144	27,965	2,515,669	1.30
05/06/04	12,206	57,162	0.00	3,579,927	27,783	2,543,452	1.37
05/19/04	12,522	57,478	0.00	3,607,015	27,088	2,570,540	1.43
06/02/04	12,853	57,809	1.34	3,635,580	28,565	2,599,105	1.44
06/16/04	13,198	58,154	0.00	3,664,594	29,014	2,628,119	1.40
07/08/04	13,715	58,671	2.14	3,708,440	43,846	2,671,965	1.41
07/22/04	14,050	59,006	0.18	3,736,245	27,805	2,699,770	1.38
08/12/04	14,554	59,510	0.10	3,777,215	40,970	2,740,740	1.36
08/26/04	14,890	59,846	0.00	3,803,030	25,815	2,766,555	1.28
09/02/04	15,058	60,014	0.00	3,811,977	8,947	2,775,502	0.89
09/16/04	15,394	60,350	0.09	3,832,211	20,234	2,795,736	1.00
10/07/04	15,902	60,858	0.00	3,867,732	35,521	2,831,257	1.17
10/21/04	16,235	61,191	0.65	3,891,217	23,485	2,854,742	1.17
11/04/04	16,572	61,528	0.00	3,917,240	26,023	2,880,765	1.29
11/18/04	16,908	61,864	0.00	3,942,990	25,750	2,906,515	1.28
12/02/04	17,242	62,198	0.57	3,967,880	24,890	2,931,405	1.24
12/16/04	17,579	62,535	0.00	3,994,102	26,222	2,957,627	1.30
12/30/04	17,915	62,871	0.00	4,020,937	26,835	2,984,462	1.33
01/05/05	18,062	63,018	0.00	4,033,820	12,883	2,997,345	1.46
01/19/05	18,396	63,352	0.63	4,063,602	29,782	3,027,127	1.49
02/02/05	18,734	63,690	0.00	4,091,628	28,026	3,055,153	1.38
02/16/05	19,068	64,024	0.45	4,117,922	26,294	3,081,447	1.31
03/02/05	19,406	64,362	0.00	4,146,956	29,034	3,110,481	1.43
03/16/05	19,741	64,697	0.36	4,175,328	28,372	3,138,853	1.41
03/30/05	20,072	65,028	1.28	4,203,345	28,017	3,166,870	1.41
04/07/05	20,263	65,219	0.89	4,219,430	16,085	3,182,955	1.41
04/20/05	20,578	65,534	0.00	4,244,807	25,377	3,208,332	1.34
05/04/05	20,915	65,871	0.00	4,269,751	24,944	3,233,276	1.23
05/18/05	21,057	66,013	57.95	4,279,950	10,199	3,243,475	1.20
06/02/05	21,415	66,371	0.53	4,304,727	24,777	3,268,252	1.15
06/15/05	21,728	66,684	0.00	4,325,824	21,097	3,289,349	1.12
06/23/05	N/A	N/A	N/A	4,337,710	11,886	3,301,235	N/A
07/11/05	22,354	67,310	0.00	4,363,217	37,393	3,326,742	1.00

Table 1
Treatment System Metered Volume
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

Meter Reading Date	Hour Meter Reading (Hrs)		Total (hrs)	System Downtime ^(b) (%)	Volume Reading (gallons)	Net Volume (gallons)	Cumulative Volume Removed (gallons)	Average Flow Rate (gpm)
07/26/05	22,468	m	67,424	68.25	4,369,300	6,083	3,332,825	0.89
08/10/05	22,827		67,783	0.22	4,388,486	19,186	3,352,011	0.89
08/25/05	23,184		68,140	0.94	4,407,134	18,648	3,370,659	0.87
09/07/05	23,497		68,453	0.00	4,421,840	14,706	3,385,365	0.78

REPORTING PERIOD: 8/10/05 to 9/7/05
PERIOD AVERAGE FLOW RATE (gpm): 0.83
PERIOD VOLUME DISCHARGED (gallons): 33,354

Table 1
Treatment System Metered Volume
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

gpm = Gallons per minute

N/A = Not available or not applicable

Initial 3-hour startup pumping period May 31, 2000

a = System restarted 6/5/00 (previously ran 9/25/91 - 8/21/95)

b = System down during construction to main sewer line starting 6/25/01.

c = System restarted 8/14/01 following completion of construction work.

d = Hour meter reading not recorded. Estimated hours using last 3 months average.

e = Hour meter reading not functioning.

f = Hour meter replaced.

g = An error in the table has been corrected to show correct flow rate values.

h = System was down upon arrival due to utility power outage.

i = System restarted 5/30/03 after power restored to system.

j = System was down upon arrival due pump overload. Pump was pulled for cleaning and inspection

k = Downtime calculated by the following: $100 - \left[\frac{\text{Hours Running in Period}}{\text{Days in Reporting Period}} \times (24 \text{ hours/day}) \right]$

l = Data from 11/6/03 site visit is unavailable.

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
INFL (influent to primary carbon)										
09/26/91	38	4.8	0.6	1.6	1.1	—	—	—	—	—
10/22/91	<30	<0.30	<0.30	<0.30	<0.30	—	—	—	—	—
11/22/91	<30	0.52	<0.30	<0.30	<0.30	—	—	—	—	—
12/19/91	<30	<0.30	<0.30	<0.30	<0.30	—	—	—	—	—
01/16/91	<30	<0.30	<0.30	<0.30	<0.30	—	—	—	—	—
02/19/92	370	14	0.34	14	2.4	—	—	—	—	—
03/17/92	160	18	0.32	0.56	1.6	—	—	—	—	—
04/15/92	200	11	<0.30	7.3	0.77	—	—	—	—	—
05/14/92	45	1.4	<0.30	<0.30	<0.30	—	—	—	—	—
06/19/92	<30	<0.30	<0.30	<0.30	<0.30	—	—	—	—	—
07/14/92	97	25	<0.50	8.5	<0.50	—	—	—	—	—
08/18/92	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
09/15/92	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
10/16/92	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
11/18/92	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
12/17/92	96	7.7	13	0.56	9.7	—	—	—	—	—
01/18/93	100	13	6.6	1.1	11	—	—	—	—	—
02/22/93	480	36	29	4.9	96	—	—	—	—	—
03/15/93	310	29	14	4.9	55	—	—	—	—	—
04/09/93	140	11	2.8	2.6	17	—	—	—	—	—
05/13/93	530	27	12	18	96	—	—	—	—	—
06/04/93	170	5.2	1.6	2.5	23	—	—	—	—	—
07/20/93	200	12	0.91	8.2	29	—	—	—	—	—
08/16/93	150	4.9	0.63	2.9	15	—	—	—	—	—
09/13/93	80	2.2	<0.50	<0.50	4.8	—	—	—	—	—
10/08/93	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
11/19/93	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
12/21/93	73	3.5	<0.50	1.9	8.4	—	—	—	—	—
01/18/94	60	3.1	<0.50	3.2	4.3	—	—	—	—	—
02/17/94	<50	2.5	<0.50	2.1	3.1	—	—	—	—	—
03/15/94	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
04/21/94	110	7.8	<1.0	9.6	<1.0	—	—	—	—	—
05/13/94	230	8.3	<0.50	14	6	—	—	—	—	—
06/14/94	230	12	<0.50	16	1.5	—	—	—	—	—
07/14/94	270	6.9	<0.50	15	1.9	—	—	—	—	—
08/18/94	<50	1.8	<0.50	1.5	<0.50	—	—	—	—	—
09/12/94	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
10/18/94	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
11/05/94	<50	0.66	<0.50	2.6	<0.50	—	—	—	—	—
12/05/94	470	32	0.59	29	6.2	—	—	—	—	—
01/04/95	<50	1.1	<0.50	1.4	<0.50	—	—	—	—	—
02/06/95	100	2.4	1.1	1.2	2.8	—	—	—	—	—
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
04/04/95	290	6.6	<0.50	10	1.7	—	—	—	—	—
05/02/95	240	7.1	<0.50	3.2	1.6	—	—	—	—	—
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	—
07/06/95	270	2.4	<0.50	7.6	1	—	—	—	—	—
08/21/95	230	1.8	<0.50	1.6	0.92	—	—	—	—	—
06/05/00	700	7.24	<1.0	2.11	<1.0	361	—	—	—	—
07/08/00	133	5.09	0.598	<0.50	<0.50	272	—	—	—	—
08/10/00	144	2.8	<0.50	1.04	<0.50	126	—	—	—	—
09/08/00	261	2.74	0.826	0.626	<0.50	120	—	—	—	—
10/10/00	114	<0.50	1.68	0.843	<0.50	<2.5	—	—	—	—
11/07/00	128	<0.50	<0.50	<0.50	<0.50	98.6	—	—	—	—
12/05/00	167	0.775	<0.50	<0.50	<0.50	104	—	—	—	—
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	86.8	—	—	—	—
02/06/01	203	0.572	<0.50	0.513	<0.50	80.5	—	—	—	—

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
INFL (influent to primary carbon) (cont.)										
03/08/01	219	<0.50	6.16	1.21	0.682	81	---	---	---	---
04/18/01	74.5	<0.50	<0.50	<0.50	<0.50	97.5	---	---	---	---
05/04/01	63.3	<0.50	<0.50	<0.50	<0.50	93.2	---	---	---	---
06/09/01	64	<0.50	<0.50	<0.50	<0.50	71	---	---	---	---
07/05/01	100	<0.50	2.5	<0.50	<0.50	430	---	---	---	---
08/14/01	290	2.2	3.5	<1.0	<1.0	870	---	---	---	---
09/05/01	<100	<1.0	<1.0	<1.0	<1.0	340	---	---	---	---
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	150	---	---	---	---
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	92	---	---	---	---
12/11/01	65	<0.50	0.58	<0.50	<0.50	83	---	---	---	---
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	140	---	---	---	---
02/05/02	100	<0.50	<0.50	<0.50	<0.50	190	---	---	---	---
03/05/02	150	<1.2	<1.2	<1.2	<1.2	350	---	---	---	---
04/08/02	400	9.6	<1.0	1.4	<1.0	260	---	---	---	---
05/16/02	310	<1.0	<1.0	<1.0	<1.0	330	---	---	---	---
10/07/02	160	4.1	<1.0	<1.0	<1.0	130	---	---	---	---
11/07/02	250	<0.50	10	0.7	0.77	210	---	---	---	---
12/05/02	220	<1.0	<1.0	<1.0	<1.0	110	---	---	---	---
01/03/03	170	<1.0	<1.0	<1.0	<1.0	140	---	---	---	---
2/13/03 ¹	<250	<2.5	<2.5	<2.5	<2.5	66	---	---	---	---
3/27/03 ¹	110	<0.50	<0.50	<0.50	<0.50	71	---	---	---	---
4/24/03 ¹	120	<0.50	<0.50	<0.50	<0.50	56	---	---	---	---
5/30/03 ¹	20	<0.50	<0.50	<0.50	<0.50	<50	---	---	---	---
06/19/03	160	<0.50	<0.50	<0.50	<0.50	46	---	---	---	---
07/24/03	51	<0.50	<0.50	<0.50	<0.50	41 (47) ²	---	---	---	---
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	30 (40) ²	---	---	---	---
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	28	---	---	---	---
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	28 (28) ²	---	---	---	---
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	22	---	---	---	---
12/18/03	52	<0.50	<0.50	<0.50	<1.0	27	---	---	---	---
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	27	---	---	---	---
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	25	---	---	---	---
03/18/04	<50	<0.50	<0.50	<0.50	<1.0	27	---	---	---	---
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	25	---	---	---	---
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	19	---	---	---	---
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	19	---	---	---	---
06/16/04	63	<0.50	<0.50	<0.50	<1.0	20	---	---	---	---
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	15	---	---	---	---
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	23	---	---	---	---
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	18	---	---	---	---
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	17	---	---	---	---
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	14	---	---	---	---
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	15	---	---	---	---
01/19/05	84	<0.50	<0.50	<0.50	<1.0	19	---	---	---	---
02/16/05	<50 ^c	<0.50	<0.50	<0.50	<1.0	29	---	---	---	---
03/16/05	56 ^c	<0.50	<0.50	<0.50	<1.0	21	---	---	---	---
04/20/05	<50 ^c	<0.50	<0.50	<0.50	<1.0	19	---	---	---	---
05/18/05	82 ^c	<0.50	<0.50	<0.50	<1.0	16	---	---	---	---
06/15/05	<50	<0.50	<0.50	<0.50	<1.0	15	---	---	---	---
07/26/05	<50	<0.50	<0.50	<0.50	<1.0	13	---	---	---	---
08/25/05	<50	NA ^d	<0.50	<0.50	<1.0	9.8	---	---	---	---

Table 2
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 ARCO Service Station #0608
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 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
MID-1 (between primary and secondary carbons)										
09/26/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
10/22/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
12/19/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
01/16/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
02/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
03/17/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
04/15/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
05/14/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
06/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
07/14/92	---	---	---	---	---	---	---	---	---	---
08/18/92	---	---	---	---	---	---	---	---	---	---
09/15/92	---	---	---	---	---	---	---	---	---	---
10/16/92	---	---	---	---	---	---	---	---	---	---
11/18/92	---	---	---	---	---	---	---	---	---	---
12/17/92	---	---	---	---	---	---	---	---	---	---
01/18/93	---	---	---	---	---	---	---	---	---	---
02/22/93	---	---	---	---	---	---	---	---	---	---
03/15/93	---	---	---	---	---	---	---	---	---	---
04/09/93	---	---	---	---	---	---	---	---	---	---
05/13/93	---	---	---	---	---	---	---	---	---	---
06/04/93	---	---	---	---	---	---	---	---	---	---
07/14/94	ND	ND	ND	ND	ND	---	---	---	---	---
08/17/94	---	---	---	---	---	---	---	---	---	---
09/12/94	---	---	---	---	---	---	---	---	---	---
10/18/94	---	---	---	---	---	---	---	---	---	---
11/05/94	---	---	---	---	---	---	---	---	---	---
12/05/94	---	---	---	---	---	---	---	---	---	---
01/04/95	---	---	---	---	---	---	---	---	---	---
02/06/95	---	---	---	---	---	---	---	---	---	---
03/02/95	---	---	---	---	---	---	---	---	---	---
06/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
07/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/10/00	<50	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---
09/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/10/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/07/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
12/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
02/06/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
04/18/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
05/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	3.3	---	---	---	---
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	5.7	---	---	---	---
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	9	---	---	---	---
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	26	---	---	---	---
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	17	---	---	---	---
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	39	---	---	---	---
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	58	---	---	---	---
10/07/02	<50	<0.50	<0.50	<0.50	<0.50	55	---	---	---	---
11/07/02	<50	<0.50	<0.50	<0.50	<0.50	100	---	---	---	---
12/05/02	<50	<0.50	<0.50	<0.50	<0.50	51	---	---	---	---
01/03/03	<50	<0.50	<0.50	<0.50	<0.50	66	---	---	---	---

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Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
MID-1 (cont.)										
2/13/03 ¹	<250	<2.5	<2.5	<2.5	<2.5	130	---	---	---	---
3/27/03 ¹	<250	<2.5	<2.5	<2.5	<2.5	120	---	---	---	---
4/24/03 ¹	280	<2.5	<2.5	<2.5	<2.5	110	---	---	---	---
5/30/03 ¹	<250	<2.5	<2.5	<2.5	<2.5	140	---	---	---	---
06/19/03	<50	<0.50	<0.50	<0.50	<0.50	110	---	---	---	---
07/24/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5 (1.3) ²	---	---	---	---
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	1.1	---	---	---	---
12/18/03	<50	<0.50	<0.50	<0.50	<1.0	1.2	---	---	---	---
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	1.3	---	---	---	---
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	1.2	---	---	---	---
03/18/04	67	<0.50	<0.50	<0.50	<1.0	1.4	---	---	---	---
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	1.5	---	---	---	---
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	1.3	---	---	---	---
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	2.0	---	---	---	---
06/16/04	<50	<0.50	<0.50	<0.50	<1.0	1.8	---	---	---	---
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	1.6	---	---	---	---
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	2.2	---	---	---	---
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	2.1	---	---	---	---
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	2.0	---	---	---	---
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	1.5	---	---	---	---
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	1.9	---	---	---	---
01/19/05	<50	<0.50	<0.50	<0.50	<1.0	2.2	---	---	---	---
02/16/05	<50	<0.50	<0.50	<0.50	<1.0	2.9	---	---	---	---
03/16/05	<50	<0.50	<0.50	<0.50	<1.0	2.5	---	---	---	---
04/20/05	<50 ³	<0.50	<0.50	<0.50	<1.0	2.4	---	---	---	---
05/18/05	58 ³	<0.50	<0.50	<0.50	<1.0	2.1	---	---	---	---
06/15/05	<50	<0.50	<0.50	<0.50	<1.0	2.2	---	---	---	---
07/26/05	<50	<0.50	<0.50	<0.50	<1.0	3.2	---	---	---	---
08/25/05	<50	NA ⁴	<0.50	<0.50	<1.0	2.2	---	---	---	---
MID-2 (between secondary and tertiary carbons)										
06/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
07/08/00	---	---	---	---	---	---	---	---	---	---
09/08/00	---	---	---	---	---	---	---	---	---	---
10/10/00	---	---	---	---	---	---	---	---	---	---
11/07/00	---	---	---	---	---	---	---	---	---	---
12/05/00	---	---	---	---	---	---	---	---	---	---
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
02/06/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
04/18/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
05/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	4.7	---	---	---	---
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/07/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/07/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---

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Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
MID-2 (between secondary and tertiary carbons) continued										
12/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
01/03/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
2/13/03 ¹	<50	<0.50	<0.50	<0.50	<0.50	1	---	---	---	---
3/27/03 ¹	<50	<0.50	<0.50	<0.50	<0.50	0.94	---	---	---	---
4/24/03 ¹	<50	<0.50	<0.50	<0.50	<0.50	0.95	---	---	---	---
5/30/03 ¹	<50	<0.50	<0.50	<0.50	<0.50	1.1	---	---	---	---
06/19/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
07/24/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5 (<0.5) ²	---	---	---	---
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
12/18/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
03/18/04	86	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
06/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
01/19/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
02/16/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
03/16/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
04/20/05	<50 ³	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
05/18/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
06/15/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
07/26/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---
08/25/05	<50	NA ^d	<0.50	<0.50	<1.0	<0.50	---	---	---	---
EFFL (effluent to sewer)										
09/26/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
10/22/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
11/22/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
12/19/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
01/16/91	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
02/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
03/17/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
04/15/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
05/14/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
06/19/92	<30	<0.30	<0.30	<0.30	<0.30	---	---	---	---	---
07/14/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
08/18/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
09/15/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/16/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/18/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/17/92	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
01/18/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
02/22/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
03/15/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/09/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
05/13/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/04/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
07/20/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
EFFL (cont)										
08/16/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
09/13/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/08/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/19/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/21/93	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
01/18/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
02/17/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
03/15/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/21/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
05/13/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/14/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
07/14/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
08/17/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
09/12/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
10/18/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
11/05/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
12/05/94	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
01/04/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
02/06/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
03/02/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
04/04/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
05/02/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/05/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
07/06/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
08/21/95	<50	<0.50	<0.50	<0.50	<0.50	---	---	---	---	---
06/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	7.19	---
06/12/00	<50	---	---	---	---	---	---	---	---	---
07/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	32.1	<10	7.08	---
08/10/00	<50	<0.50	<0.50	<0.50	<0.50	<5.0	23.4	<10	6.67	---
09/08/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	29.2	<10	6.82	---
10/10/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.25	---
11/07/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.24	---
12/05/00	<50	<0.50	<0.50	<0.50	<0.50	<2.5	44	<10	7.48	---
01/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.00	---
02/06/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	10.7	7.03	---
03/08/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.04	---
04/18/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	28.5	<10	7.06	---
05/04/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.31	---
06/09/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.05	---
07/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.10	---
08/14/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	14	7.09	---
09/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	70	<10	7.07	---
10/05/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	55	<10	6.89	---
11/13/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	150	<10	6.98	---
12/11/01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	34	<10	7.01	---
01/04/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	52	<10	7.22	---
02/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.91	---
03/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.77	---
04/08/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.52	---
05/16/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.60	---
10/07/02	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---
11/07/02	<50	<0.50	<0.50	<0.50	0.74	<2.5	<30	<10	7.80	---
12/05/02	<50	<0.50	<0.50	<0.50	<0.50	<2.0	<30	<10	7.40	0.27
01/03/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<30	<10	7.50	---
2/13/03 ¹	<50	<0.50	<0.30	<0.50	<0.50	<0.50	<30	<10	7.15	0.12
3/27/03 ¹	<50	<0.50	<0.50	<0.50	<0.50	<0.50	32	<10	7.50	0.08
4/24/03 ¹	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<30	<10	6.95	10.23
5/30/03 ¹	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<30	<10	6.95	---
06/19/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.02	9.75

Table 2
Treatment System Analytical Data
 ARCO Service Station #0608
 17601 Hesperian Boulevard at Hacienda Avenue
 San Lorenzo, California

Date Sampled	GRO/TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	COD (mg/L)	TSS (mg/L)	pH (units)	DO (mg/L)
EFFL (effluent to sewer) (cont.)										
07/24/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.07	3.00
08/28/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	7.03	2.12
09/25/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<20	<10	6.79	2.70
10/23/03	<50	<0.50	<0.50	<0.50	<0.50	<2.5 (<0.5) ²	<20	<10	6.82	3.45
11/20/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<10	6.94	0.84
12/18/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	7.01	0.94
01/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	7.12	0.85
02/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	10	6.57	3.82
03/18/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	7.08	0.97
04/07/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	—	—	—	—
04/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	27	<10	6.69	1.64
05/19/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	20	13	6.50	1.40
06/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.79	0.75
07/22/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.81	1.09
08/26/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	19	7.20	1.20
09/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<10	7.20	1.20
10/21/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.89	2.60
11/18/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	14	6.95	0.34
12/16/04	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<20	<10	6.92	2.00
01/19/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<10	6.78	1.26
02/16/05	<50 ³	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<20	6.61	2.01
03/16/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<20	6.48	0.75
04/20/05	<50 ³	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<20	6.66	0.67
05/18/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<20	6.56	1.75
06/15/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<20	6.78	1.24
07/26/05	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<30	<20	6.82	1.03
08/25/05	<50	NA ⁴	<0.50	<0.50	<1.0	<0.50	<30	<10	6.91	1.07

Table 2
Treatment System Analytical Data
ARCO Service Station #0608
17601 Hesperian Boulevard at Hacienda Avenue
San Lorenzo, California

SYMBOLS AND ABBREVIATIONS:

--	=Not applicable/available/sampled
<	=Not detected at or above the laboratory reporting limit.
COD	=Chemical oxygen demand
DO	=Dissolved Oxygen, field measurement
GRO	=Gasoline Range Organics
µg/L	=Micrograms per liter
mg/L	=Milligrams per liter
MTBE	=Methyl tert-Butyl Ether
NA	=Not applicable or not available
ND	=Not detected at or above the laboratory reporting limit
NS	=Not sampled
TPH-g	=Total purgeable petroleum hydrocarbons as gasoline
TSS	=Total suspended solids

FOOTNOTES:

a = Analyzed with EPA Method 8260

b = MTBE concentration analyzed by EPA methods 8021B and 8260B (Results of EPA Method 8260 shown in parenthesis).

c = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

d = Benzene results were omitted from the laboratory report.

NOTES:

GRO/BTEX/MtBE analyzed using EPA Method 8260B beginning February 19, 2004.

Beginning in the Fourth Quarter 2003, the laboratory modified the reported analyte list. Total Petroleum Hydrocarbons as

Gasoline (TPHg) has been changed to GRO. The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in higher concentrations being reported.

The data within this table collected prior to May 2002 was provided to URS by RM.

and their previous consultants. URS has not verified the accuracy of this information.

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g has been changed to GRO. The resulting data may be impacted by the potential inclusion of non-TPHg analytes within the requested fuel range resulting in higher concentrations being reported.



8 September, 2005

Scott Robinson
URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland, CA 94612

RE: ARCO #0608, San Lorenzo, CA
Work Order: MOH1421

Enclosed are the results of analyses for samples received by the laboratory on 08/29/05 12:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jamshid Kekobad
Project Manager

CA ELAP Certificate #1210



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0608, San Lorenzo, CA
Project Number: G0C24-0005
Project Manager: Scott Robinson

MOH1421
Reported:
09/08/05 13:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EFFL	MOH1421-01	Water	08/25/05 08:50	08/29/05 12:05



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0608, San Lorenzo, CA
Project Number: G0C24-0005
Project Manager: Scott Robinson

MOH1421
Reported:
09/08/05 13:03

**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
EFFL (MOH1421-01) Water Sampled: 08/25/05 08:50 Received: 08/29/05 12:05										
Chemical Oxygen Demand	ND	30		mg/l	1	5102037	09/02/05	09/02/05	EPA 410.4	

URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0608, San Lorenzo, CA
Project Number: G0C24-0005
Project Manager: Scott Robinson

MOH1421
Reported:
09/08/05 13:03

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5I02037 - General Preparation / EPA 410.4										
Blank (5I02037-BLK1)										
Chemical Oxygen Demand	ND	30	mg/l							Prepared & Analyzed: 09/02/05
Laboratory Control Sample (5I02037-BS1)										
Chemical Oxygen Demand	133	33	mg/l	111		120	75-120			Prepared & Analyzed: 09/02/05
Matrix Spike (5I02037-MS1)										
Chemical Oxygen Demand	122	33	mg/l	111	ND	110	75-120			Source: MOH1421-01 Prepared & Analyzed: 09/02/05
Matrix Spike Dup (5I02037-MSD1)										
Chemical Oxygen Demand	130	33	mg/l	111	ND	117	75-120	6	15	Prepared & Analyzed: 09/02/05



URS Corporation [Arco]
1333 Broadway, Suite 800
Oakland CA, 94612

Project: ARCO #0608, San Lorenzo, CA
Project Number: G0C24-0005
Project Manager: Scott Robinson

MOH1421
Reported:
09/08/05 13:03

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

From:

STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To:

Sequoia-Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037

M04 1421

Project Manager: Afsaneh Salimpour
Phone: (925) 484-1919 Ext: 107
Fax: (925) 484-1096
Email: asalimpour@stl-inc.com

Phone: (408) 776-9600 Ext:
Fax: (408) 782-6308
Contact: Sample Receiving
Phone: (408) 776-9600 Ext:

CL Submission #: 2005-08-0806
CL PO #:

Project #: 38487015
Project Name: Station 608
EDF Global ID: T000100085

EDF Field ID: EFFL	4	8/25/2005 8:50:00AM	Water	
Subcontract - COD			410.4	5 Day

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1.

[Signature] 1023
Signature Time
Drew Thomas 8/29/05
Printed Name Date
STL-SF
Company

RECEIVED BY: 1.

[Signature] 1023
Signature Time
Maria 8/29/05
Printed Name Date
STL-SF
Company

RELINQUISHED BY: 2.

[Signature] 1203
Signature Time
[Signature] 8/26/05
Printed Name Date
STL-SF
Company

RECEIVED BY: 2.

[Signature] 12:18
Signature Time
E. BIANCHI 8/29/05
Printed Name Date
SEQ-MH
Company

RELINQUISHED BY: 3.

Signature Time
Printed Name Date
Company

RECEIVED BY: 3.

Signature Time
Printed Name Date
Company



Chain of Custody Record

96948

Project Name: Station 608 - O&M - Remediation
 BP BU/AR Region/Enfos Segment: Retail
 State or Lead Regulatory Agency: Oro Loma Sanitary District
 Requested Due Date (mm/dd/yy): 9/8/05
 (14-day TAT)

2005-08-0806

On-site Time: 0830 Temp: 68
 Off-site Time: Temp:
 Sky Conditions: Overcast
 Meteorological Events: None
 Wind Speed: N/A Direction: N/A

Lab Name: STL-SF (Pleasanton)	BP/AR Facility No.: Station 608	Consultant/Contractor: URS Oakland
Address: 1220 Quarry Lane Pleasanton CA	BP/AR Facility Address: 17601 Hesperian Blvd, San Lorenzo	Address: 1333 Broadway, Suite 800 Oakland CA 94612
Lab PM: Afsaneh Salimpour	Site Lat/Long: 37.673888 / -122.123	Consultant/Contractor Project No.: 38487015
Tele/Fax: 925.484.1919/925.484.1096	California Global ID No.: T000100085	Consultant/Contractor PM: Scott Robinson
BP/AR PM Contact: Paul Supple	Enfos Project No.: GOC24-0005	Tele/Fax: 510.893.3600/510.874.3268
Address: P.O. Box 6549	Provision or RCOP: Provision	Report Type & QC Level: Level 1 and EDF
Moraga CA 94570	Phase/WBS: 03 - O&M	E-mail EDD To: Donna.Cosper@urscorp.com
Tele/Fax: 925.299.8891/925.299.8872	Sub Phase/Task: 03 - Analytical	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)
Lab Bottle Order No:	Cost Element: 05 - Subcontractor Costs	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	BTEX/Oxy/TPH (8260)	COD (410.4)	TSS (150.2)		
1	INF	0845	8/5		X			3			X							
2	MID-1	0845	8/5		X			3			X							
3	MID-2	0855	8/5		X			3			X							
4	BFPL	0850	8/5		X			3			X							
5	BFPL	0850	8/5		X			1	X						X			
6	BFPL	0850	8/5		X			1	X					X				
7	TRIP BLANK	0850	8/5		X			3										
8																		HOLD
9																		
10																		

MOH1421

TEMP 20 J

Sampler's Name: GEORGE BARRISAW	Relinquished By / Affiliation: [Signature]	Date / Time: 8/26/05 15:35	Accepted By / Affiliation: [Signature]	Date / Time: 8/26/05 15:35
Sampler's Company: URS CORP.				
Shipment Date: 8/5/05				
Shipment Method: SAC - STL				
Shipment Tracking No:				
Special Instructions:				

Body Seals In Place Yes No Temp Blank Yes X No Cooler Temperature on Receipt 2 °FC Trip Blank Yes X No
 Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor
 BP COC Rev. 4 10/1/04

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: STL / UPS
 REC. BY (PRINT): KB
 WORKORDER: 1614/421

DATE REC'D AT LAB: 8/29/05
 TIME REC'D AT LAB: 12:05
 DATE LOGGED IN: 8-31-05

For Regulatory Purposes?
 DRINKING WATER YES/NO
 WASTE WATER YES/NO

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	DASH #	CLIENT ID.	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / Absent Intact / Broken*	<input checked="" type="radio"/> Present / <input checked="" type="radio"/> Intact	01	N	CEFL	1/2 Poly	H ₂ SO ₄	-	L	8/29/05	
2. Chain-of-Custody Present / Absent*	<input checked="" type="radio"/> Present									
3. Traffic Reports or Packing List: Present / Absent	<input checked="" type="radio"/> Present									
4. Airbill: Airbill / Sticker Present / Absent	<input checked="" type="radio"/> Present									
5. Airbill #:										
6. Sample Labels: Present / Absent	<input checked="" type="radio"/> Present									
7. Sample IDs: Listed / Not Listed on Chain-of-Custody	<input checked="" type="radio"/> Listed									
8. Sample Condition: Intact / Broken* / Leaking*	<input checked="" type="radio"/> Intact									
9. Does information on chain-of-custody, traffic reports and sample labels agree? Yes / No*	<input checked="" type="radio"/> Yes									
10. Sample received within hold time? Yes / No*	<input checked="" type="radio"/> Yes									
11. Adequate sample volume received? Yes / No*	<input checked="" type="radio"/> Yes									
12. Proper preservatives used? Yes / No*	<input checked="" type="radio"/> Yes									
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / No*	<input checked="" type="radio"/> No									
14. Read Temp: <u>4.9 C</u> Corrected Temp: <u>4.8 C</u> Is corrected temp. $\pm 2^{\circ}\text{C}$? Yes / No**	<input checked="" type="radio"/> Yes									

8-29-05
MLP

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

URS-Oakland, CA

September 14, 2005

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38487015

Project: Station 608

Site: 17601 Hesperaian Blvd., San Lorenzo

Attached is our report for your samples received on 08/26/2005 10:50
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

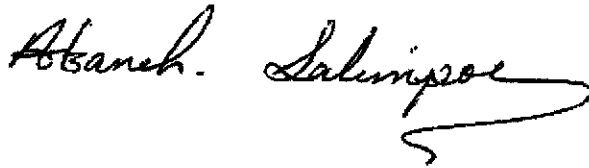
The report contains a Case Narrative detailing sample receipt and analysis.

Please note that any unused portion of the samples will be discarded after
10/10/2005 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: asalimpour@stl-inc.com

Sincerely,



Afsaneh Salimpour
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

URS-Oakland, CA

September 14, 2005

1333 Broadway, Suite 800
Oakland, CA 94612

Attn.: Scott Robinson

Project#: 38487015

Project: Station 608

Site: 17601 Hesperaian Blvd., San Lorenzo

Case Narrative

General and Sample Comments

We (STL San Francisco) received 5 Water samples , on Friday, August 26, 2005
10:50 AM.

Analysis Comments and Flags by QC Batch

Gas/BTEX Fuel Oxygenates by 8260B (for BP)	Water	QC Batch#: 200509081B64038
---	-------	----------------------------

MW-4A >> MS
Compound Flag(s)
LM,AY LM=MS and/or MSD above acceptance limits. See Blank Spike(LCS).
200509081B64038

Gas/BTEX Fuel Oxygenates by 8260B (for BP)	Water	QC Batch#: 200509111A65
---	-------	-------------------------

EFFL
Analysis Flag(s)
ET Sample was extracted past end of recommended max. holding time
2005080806 004

Gas/BTEX Fuel Oxygenates by 8260B (for BP)	Water	QC Batch#: 200509132B64
---	-------	-------------------------

EFFL
Analysis Flag(s)
ET Sample was extracted past end of recommended max. holding time
2005080806 004

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015

Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	08/25/2005 09:05	Water	1
MID-1	08/25/2005 09:00	Water	2
MID-2	08/25/2005 08:55	Water	3
EFFL	08/25/2005 08:50	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Prep(s): 5030B Test(s): 8260B
Sample ID: INF Lab ID: 2005-08-0806 - 1
Sampled: 08/25/2005 09:05 Extracted: 9/7/2005 23:26
Matrix: Water QC Batch#: 2005/09/07-2C.64
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	09/07/2005 23:26	
Toluene	ND	0.50	ug/L	1.00	09/07/2005 23:26	
Ethylbenzene	ND	0.50	ug/L	1.00	09/07/2005 23:26	
Total xylenes	ND	1.0	ug/L	1.00	09/07/2005 23:26	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/07/2005 23:26	
Methyl tert-butyl ether (MTBE)	9.8	0.50	ug/L	1.00	09/07/2005 23:26	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	09/07/2005 23:26	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	09/07/2005 23:26	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	09/07/2005 23:26	
Surrogate(s)						
1,2-Dichloroethane-d4	106.3	73-130	%	1.00	09/07/2005 23:26	
Toluene-d8	103.9	81-114	%	1.00	09/07/2005 23:26	

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015

Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MID-1	Lab ID:	2005-08-0806 - 2
Sampled:	08/25/2005 09:00	Extracted:	9/7/2005 23:47
Matrix:	Water	QC Batch#:	2005/09/07-2C.64
pH:	<2		

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	09/07/2005 23:47	
Toluene	ND	0.50	ug/L	1.00	09/07/2005 23:47	
Ethylbenzene	ND	0.50	ug/L	1.00	09/07/2005 23:47	
Total xylenes	ND	1.0	ug/L	1.00	09/07/2005 23:47	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/07/2005 23:47	
Methyl tert-butyl ether (MTBE)	2.2	0.50	ug/L	1.00	09/07/2005 23:47	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	09/07/2005 23:47	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	09/07/2005 23:47	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	09/07/2005 23:47	
Surrogate(s)						
1,2-Dichloroethane-d4	105.5	73-130	%	1.00	09/07/2005 23:47	
Toluene-d8	104.1	81-114	%	1.00	09/07/2005 23:47	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015

Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Prep(s): 5030B Test(s): 8260B
 Sample ID: MID-2 Lab ID: 2005-08-0806 - 3
 Sampled: 08/25/2005 08:55 Extracted: 9/8/2005 02:44
 9/8/2005 11:33
 Matrix: Water QC Batch#: 2005/09/07-2D.71
 2005/09/08-1B.64
 pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	09/08/2005 11:33	
Toluene	ND	0.50	ug/L	1.00	09/08/2005 02:44	
Ethylbenzene	ND	0.50	ug/L	1.00	09/08/2005 02:44	
Total xylenes	ND	1.0	ug/L	1.00	09/08/2005 02:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/08/2005 02:44	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	09/08/2005 02:44	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	09/08/2005 02:44	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	09/08/2005 02:44	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	09/08/2005 02:44	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	73-130	%	1.00	09/08/2005 11:33	
1,2-Dichloroethane-d4	87.1	73-130	%	1.00	09/08/2005 02:44	
Toluene-d8	87.9	81-114	%	1.00	09/08/2005 02:44	
Toluene-d8	101.5	81-114	%	1.00	09/08/2005 11:33	

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09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015

Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Prep(s): 5030B Test(s): 8260B
 Sample ID: EFFL Lab ID: 2005-08-0806 - 4
 Sampled: 08/25/2005 08:50 Extracted: 9/11/2005 21:18
 9/14/2005 01:08
 Matrix: Water QC Batch#: 2005/09/11-1A.65
 2005/09/13-2B.64

Analysis Flag: ET, pH: <2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	1.00	09/11/2005 21:18	
Toluene	ND	0.50	ug/L	1.00	09/11/2005 21:18	
Ethylbenzene	ND	0.50	ug/L	1.00	09/11/2005 21:18	
Total xylenes	ND	1.0	ug/L	1.00	09/11/2005 21:18	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	09/11/2005 21:18	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	09/11/2005 21:18	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	1.00	09/11/2005 21:18	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	09/14/2005 01:08	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	09/11/2005 21:18	
Surrogate(s)						
1,2-Dichloroethane-d4	128.5	73-130	%	1.00	09/11/2005 21:18	
1,2-Dichloroethane-d4	100.7	73-130	%	1.00	09/14/2005 01:08	
Toluene-d8	104.5	81-114	%	1.00	09/14/2005 01:08	
Toluene-d8	90.4	81-114	%	1.00	09/11/2005 21:18	

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09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015

Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/09/07-2C.64-054

Water

Test(s): 8260B

QC Batch # 2005/09/07-2C.64

Date Extracted: 09/07/2005 18:54

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	09/07/2005 18:54	
Toluene	ND	0.5	ug/L	09/07/2005 18:54	
Ethylbenzene	ND	0.5	ug/L	09/07/2005 18:54	
Total xylenes	ND	1.0	ug/L	09/07/2005 18:54	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/07/2005 18:54	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/07/2005 18:54	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/07/2005 18:54	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/07/2005 18:54	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/07/2005 18:54	
Surrogates(s)					
1,2-Dichloroethane-d4	100.8	73-130	%	09/07/2005 18:54	
Toluene-d8	104.4	81-114	%	09/07/2005 18:54	

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09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA

Attn.: Scott Robinson

1333 Broadway, Suite 800

Oakland, CA 94612

Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015

Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2005/09/07-2D.71-036

Water

Test(s): 8260B

QC Batch # 2005/09/07-2D.71

Date Extracted: 09/07/2005 19:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Toluene	ND	0.5	ug/L	09/07/2005 19:36	
Ethylbenzene	ND	0.5	ug/L	09/07/2005 19:36	
Total xylenes	ND	1.0	ug/L	09/07/2005 19:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/07/2005 19:36	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/07/2005 19:36	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/07/2005 19:36	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/07/2005 19:36	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/07/2005 19:36	
Surrogates(s)					
1,2-Dichloroethane-d4	85.8	73-130	%	09/07/2005 19:36	
Toluene-d8	90.0	81-114	%	09/07/2005 19:36	

Severn Trent Laboratories, Inc.

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09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/09/08-1B.64-032

Water

Test(s): 8260B
QC Batch # 2005/09/08-1B.64
Date Extracted: 09/08/2005 08:32

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	09/08/2005 08:32	
Toluene	ND	0.5	ug/L	09/08/2005 08:32	
Ethylbenzene	ND	0.5	ug/L	09/08/2005 08:32	
Total xylenes	ND	1.0	ug/L	09/08/2005 08:32	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/08/2005 08:32	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/08/2005 08:32	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/08/2005 08:32	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/08/2005 08:32	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/08/2005 08:32	
Surrogates(s)					
1,2-Dichloroethane-d4	96.7	73-130	%	09/08/2005 08:32	
Toluene-d8	103.7	81-114	%	09/08/2005 08:32	

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/09/11-1A.65-031

Water

Test(s): 8260B
QC Batch # 2005/09/11-1A.65
Date Extracted: 09/11/2005 14:31

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	09/11/2005 14:31	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/11/2005 14:31	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/11/2005 14:31	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/11/2005 14:31	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/11/2005 14:31	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/11/2005 14:31	
Toluene	ND	0.5	ug/L	09/11/2005 14:31	
Ethylbenzene	ND	0.5	ug/L	09/11/2005 14:31	
Total xylenes	ND	1.0	ug/L	09/11/2005 14:31	
Surrogates(s)					
1,2-Dichloroethane-d4	110.2	73-130	%	09/11/2005 14:31	
Toluene-d8	91.2	81-114	%	09/11/2005 14:31	

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/09/13-2B.64

MB: 2005/09/13-2B.64-052

Date Extracted: 09/13/2005 18:52

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C4-C12)	ND	50	ug/L	09/13/2005 18:52	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/13/2005 18:52	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/13/2005 18:52	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/13/2005 18:52	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/13/2005 18:52	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/13/2005 18:52	
Toluene	ND	0.5	ug/L	09/13/2005 18:52	
Ethylbenzene	ND	0.5	ug/L	09/13/2005 18:52	
Total xylenes	ND	1.0	ug/L	09/13/2005 18:52	
Surrogates(s)					
1,2-Dichloroethane-d4	92.8	73-130	%	09/13/2005 18:52	
Toluene-d8	104.0	81-114	%	09/13/2005 18:52	

Severn Trent Laboratories, Inc.

09/14/2005 14:13

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/09/07-2C.64

LCS 2005/09/07-2C.64-033

Extracted: 09/07/2005

Analyzed: 09/07/2005 18:33

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	26.1		25	104.4			65-165	20		
Toluene	26.1		25	104.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	452		500	90.4			73-130			
Toluene-d8	514		500	102.8			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/09/07-2D.71

LCS 2005/09/07-2D.71-009

Extracted: 09/07/2005

Analyzed: 09/07/2005 19:09

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.4		25	101.6			65-165	20		
Toluene	25.4		25	101.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	399		500	79.8			73-130			
Toluene-d8	460		500	92.0			81-114			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

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Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/09/08-1B.64

LCS 2005/09/08-1B.64-011

Extracted: 09/08/2005

Analyzed: 09/08/2005 08:11

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.0		25	96.0			65-165	20		
Toluene	27.0		25	108.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	448		500	89.6			73-130			
Toluene-d8	536		500	107.2			81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/09/11-1A.65

LCS 2005/09/11-1A.65-004

Extracted: 09/11/2005

Analyzed: 09/11/2005 14:04

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	27.4		25	109.6			65-165	20		
Toluene	27.0		25	108.0			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	486		500	97.2			73-130			
Toluene-d8	463		500	92.6			81-114			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

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Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268
Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2005/09/13-2B.64

LCS 2005/09/13-2B.64-031

Extracted: 09/13/2005

Analyzed: 09/13/2005 18:31

LCSD

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.3		25	93.2			65-165	20		
Toluene	26.9		25	107.6			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	415		500	83.0			73-130			
Toluene-d8	510		500	102.0			81-114			

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/09/07-2C.64

MS/MSD

Lab ID: 2005-08-0815 - 001

MS: 2005/09/07-2C.64-057

Extracted: 09/07/2005

Analyzed: 09/07/2005 19:57

Dilution: 1.00

MSD: 2005/09/07-2C.64-018

Extracted: 09/07/2005

Analyzed: 09/07/2005 20:18

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	24.0	26.4	ND	25	96.0	105.6	9.5	65-165	20		
Toluene	23.5	25.9	ND	25	94.0	103.6	9.7	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	513	512		500	102.6	102.4		73-130			
Toluene-d8	505	520		500	101.0	104.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268
Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/09/07-2D.71

MS/MSD

Lab ID: 2005-08-0817 - 003

MS: 2005/09/07-2D.71-043

Extracted: 09/07/2005

Analyzed: 09/07/2005 22:43

Dilution: 100.00

MSD: 2005/09/07-2D.71-010

Extracted: 09/07/2005

Analyzed: 09/07/2005 23:10

Dilution: 100.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	2220	2190	ND	2500	88.8	87.6	1.4	65-165	20		
Toluene	2720	2580	414	2500	92.2	86.6	6.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	395	405		500	79.0	81.0		73-130			
Toluene-d8	445	450		500	89.0	90.0		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/09/08-1B.64

MS/MSD

Lab ID: 2005-08-0800 - 006

MS: 2005/09/08-1B.64-038

Extracted: 09/08/2005

Analyzed: 09/08/2005 13:38

Dilution: 1.00

MSD: 2005/09/08-1B.64-059

Extracted: 09/08/2005

Analyzed: 09/08/2005 13:59

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	267	264	223	25	176.0	164.0	7.1	65-165	20	LM,AY	
Toluene	23.3	26.1	ND	25	93.2	104.4	11.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	495	476		500	99.0	95.2		73-130			
Toluene-d8	525	504		500	105.0	100.8		81-114			

Severn Trent Laboratories, Inc.
STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/09/11-1A.65

MS/MSD

Lab ID: 2005-09-0079 - 002

MS: 2005/09/11-1A.65-053

Extracted: 09/11/2005

Analyzed: 09/11/2005 16:53

Dilution: 20.00

MSD: 2005/09/11-1A.65-020

Extracted: 09/11/2005

Analyzed: 09/11/2005 17:20

Dilution: 20.00

Compound	Conc. ug/L			Spk. Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	620	662	69.3	500	110.1	118.5	7.3	65-165	20		
Toluene	562	545	0.842	500	112.2	108.8	3.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	474	493		500	94.8	98.6		73-130			
Toluene-d8	457	456		500	91.4	91.2		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Water

QC Batch # 2005/09/13-2B.64

MS/MSD

Lab ID: 2005-09-0088 - 006

MS: 2005/09/13-2B.64-054

Extracted: 09/13/2005

Analyzed: 09/13/2005 19:54

Dilution: 1.00

MSD: 2005/09/13-2B.64-015

Extracted: 09/13/2005

Analyzed: 09/13/2005 20:15

Dilution: 1.00

Compound	Conc. ug/L			Spk. Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	91.3	92.7	69.6	25	86.8	92.4	6.3	65-165	20		
Toluene	21.6	21.3	ND	25	86.4	85.2	1.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	480	488		500	96.0	97.6		73-130			
Toluene-d8	515	498		500	103.0	99.6		81-114			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13

Gas/BTEX Fuel Oxygenates by 8260B

URS-Oakland, CA
Attn.: Scott Robinson

1333 Broadway, Suite 800
Oakland, CA 94612
Phone: (510) 893-3600 Fax: (510) 874-3268

Project: 38487015
Station 608

Received: 08/26/2005 10:50

Site: 17601 Hesperaian Blvd., San Lorenzo

Legend and Notes

Analysis Flag

ET

Sample was extracted past end of recommended max. holding time

Result Flag

LM,AY

LM=MS and/or MSD above acceptance limits. See Blank Spike(LCS).

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/14/2005 14:13



STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

September 6, 2005

STL LOT NUMBER: E5I010300
PO/CONTRACT: GEM 6-21909

AFSANEH SALIMPOUR
STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Dear AFSANEH SALIMPOUR,

This report contains the analytical results for the sample received under chain of custody by STL Los Angeles on September 1, 2005. This sample is associated with your STATION 608 project.

STL Los Angeles certifies that the test results provided in this report meet all the requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA/E87652.

Any matrix related anomaly is footnoted within the report. A cooler receipt temperature between 2-6 degrees Celsius is within EPA acceptance criteria. The temperature(s) of the coolers received for this project can be found on the Project Receipt Checklist.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000016 pages.

CASE NARRATIVE

Historical control limits for the LCS are used to define the estimate of uncertainty for a method.

All applicable quality control procedures met method-specified acceptance criteria.

If you have any questions, please feel free to call me at 714.258.8610.

Sincerely,



Sabina Sudoko
Project Manager
CC: Project File

000002





STL

Chain of Custody

Date Shipped: 8/29/2005

2005-08-0806 - 1

From:

STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

ESI 010800

To:

STL Los Angeles - Sub contract
1721 South Grand Avenue
Santa Ana, CA 92705

Project Manager:
Phone: (925) 484-1919

Afsaneh Salimpour
Ext: 107

Phone: (714) 258-8610 Ext:
Fax: (714) 258-0921

Fax: (925) 484-1096
Email: asalimpour@stl-inc.com

Contact: Sample Control
Phone: (714) 258-8610 Ext:

CL Submission #: 2005-08-0806
CL PO #:

Project #: 38487015
Project Name: Station 608
EDF Global ID: T000100085

Client Sample ID	QCL	Sampled	Matrix	Method
Analysis				
EFFL	4	8/25/2005 8:50:00AM	Water	
EDF Field ID: EFFL				
Subcontract - Others / TSS /				5 Day

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS

RELINQUISHED BY: 1.

Signature: *[Signature]* Time: 1500
Printed Name: Bryan Thomas Date: 8/29/05
Company: STL-SF

RELINQUISHED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RELINQUISHED BY: 3.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 1.

Signature: *[Signature]* Time: 11:10
Printed Name: SAL MAGALLANES Date: 8/30/05
Company: STL

RECEIVED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 3.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

3.5 +/- .4 = 3.1

000003



#1 66572

96948

Chain of Custody Record

Project Name: Station 608 - O&M - Remediation
 BP BU/AR Region/Enfos Segment: Retail
 State or Lead Regulatory Agency: Oro Loma Sanitary District
 Requested Due Date (mm/dd/yy): 9/8/05
 (14-day TAT)

2005-08-0806

On-site Time: <u>0830</u>	Temp: <u>68</u>
Off-site Time:	Temp:
Sky Conditions: <u>Overcast</u>	
Metereological Events: <u>None</u>	
Wind Speed: <u>N/A</u>	Direction: <u>N/A</u>

Lab Name: <u>STL-SF (Pleasanton)</u>	BP/AR Facility No.: <u>Station 608</u>	Consultant/Contractor: <u>URS Oakland</u>
Address: <u>1220 Quarry Lane</u>	BP/AR Facility Address: <u>17601 Hesperian Blvd, San Lorenzo</u>	Address: <u>1333 Broadway, Suite 800</u>
<u>Pleasanton CA</u>	Site Lat/Long: <u>37.673888 / -122.123</u>	<u>Oakland CA 94612</u>
Lab PM: <u>Afsaneh Saliapour</u>	California Global ID No.: <u>T000100085</u>	Consultant/Contractor Project No.: <u>J8487015</u>
Tele/Fax: <u>925.484.1919/925.484.1096</u>	Enfos Project No.: <u>GOC24-0005</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Provision or RCOP: <u>Provision</u>	Tele/Fax: <u>510.893.3600/510.874.3268</u>
Address: <u>P.O. Box 6549</u>	Phase/WBS: <u>03 - O&M</u>	Report Type & QC Level: <u>Level I and EDF</u>
<u>Moraga CA 94570</u>	Sub Phase/Task: <u>03 - Analytical</u>	E-mail EDD To: <u>Donna.Casper@urscorp.com</u>
Tele/Fax: <u>925.299.8891/925.299.8872</u>	Cost Element: <u>05 - Subcontractor Costs</u>	Invoice to: <u>Consultant or BP or Atlantic Richfield Co. (circle one)</u>

700000

Heat No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	BTEX/Oxy/TPH (\$260)	COD (410.4)	TSS (160.2)		
1	INF	0405	8/15	X			3				X							
2	MID-1	0900	8/15	X			3				X							
3	MID-2	0935	8/15	X			3				X							
4	EFFL	0850	8/15	X			3				X							
5	EFFL	0850	8/15	X			1	X					X					
6	EFFL	0850	8/15	X			1	X				X						
7	TRIP BLANK	0850	8/15	X			3											HOLD
8																		
9																		
10																		

Sampler's Name: <u>George Barnhill</u>	Relinquished By / Affiliation: <u>[Signature]</u>	Date: <u>9/8/05</u>	Time: <u>11:11</u>	Account By / Affiliation: <u>[Signature]</u>	Date: <u>9/8/05</u>	Time: <u>10:50</u>
Sampler's Company: <u>URS CORP.</u>						
Shipment Date: <u>9/8/05</u>						
Shipment Method: <u>SAC - STL</u>						
Shipment Tracking No.:	<u>Cheryl Wu</u>	<u>8/26/05</u>	<u>1535</u>	<u>By [Signature] STL-SF</u>	<u>8/26/05</u>	<u>15:35</u>

Special Instructions:

Custody Seals In Place Yes No X Temp Blank Yes X No Cooler Temperature on Receipt 2 °C Trip Blank Yes X No

STL LOS ANGELES - PROJECT RECEIPT CHECKLIST Date: 8/30/05

LIMS Lot #: EST1010300 Quote #: 66572
 Client Name: SAN FRANCISCO Project: 38487015
 Received by: SAL Date/Time Received: 8/30/05 11:10 AM
 Delivered by: Client STL DHL Fed Ex UPS Other

..... Initial / Date

Custody Seal Status Cooler: Intact Broken None SM 8/30/05

Custody Seal Status Samples: Intact Broken None SM

Custody Seal #(s): _____ No Seal #.....

Sampler Signature on COC Yes No N/A.....

IR Gun # A Correction Factor .4 °C IR passed daily verification Yes No.....

Temperature - BLANK 3.5 °C +/- .4 CF = 3.1 °C.....

Temperature - COOLER (_____ °C _____ °C _____ °C _____ °C) = _____ avg °C +/- _____ CF = _____ °C.....

Samples outside temperature criteria but received within 6 hours of final sampling: Yes N/A.....

Sample Container(s): STL-LA Client.....

One COC/Multiple coolers: Yes - # coolers _____ All within temp criteria Yes No N/A.....

One or more coolers with an anomaly: Yes - (fill out PRC for each) N/A.....

Samples: Intact Broken Other.....

pH measured: Yes Anomaly (if checked, notify lab and file NCM) N/A.....

Anomalies: No Yes - complete CUR and Create NCM NCM #.....

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes N/A.....

Labeled by: SAL m Labeling checked.....

.....

Turn Around Time: RUSH-24HR RUSH-48HR RUSH-72HR NORMAL.....

Short-Hold Notification: pH Wet Chem Metals (Filter/Pres) Encore >1/2 HT expired...

Outside Analysis(es) (Test/Lab/Date Sent Out):

..... LEAVE NO BLANK SPACES ; USE N/A SM 8/30/05

Headspace Anomaly N/A 8/30/05 ^{6PM}

Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm

SEVERN
TRENT

STL

Analytical Report

ANALYTICAL REPORT

PROJECT NO. 38487015

STATION 608

Lot #: KSID10300

AFRANKH SALIMPOUR

STL San Francisco

SEVERN TRENT LABORATORIES, INC.

Sabina Sudoko
Project Manager

September 8, 2005

METHODS SUMMARY

851010300

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

ESI010300

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
HJRNW	001	EPFL	08/25/05	08:50

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, byers, odor, paint filter test, pH, potashly pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

STL SAN FRANCISCO

Client Sample ID: EPFL

General Chemistry

Lot-Sample #...: ESI010300-001 Work Order #...: HJRNW Matrix.....: W
Date Sampled...: 08/25/05 08:50 Date Received..: 09/01/05 11:10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	ND	10000	ug/L	MCAWW 160.2	09/01/05	5244473

Dilution Factor: 1
Instrument ID.: W15

Analysis Time...: 16:30
MS Run #.....:

Analyst ID.....: 999999

SEVERN
TRENT

STL

QA/QC

QC DATA ASSOCIATION SUMMARY

RSI010300

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	W	MCAWW 160.2		5244473	

METHOD BLANK REPORT

General Chemistry

Client Lot #...: E5I010300

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Suspended Solids	ND	10000	ug/L	MCAWW 160.2	09/01/05	5244473
		Work Order #: HJLN31AA		MB Lot-Sample #: E5I010000-473		
		Dilution Factor: 1				
		Analysis Time...: 16:30		Analyst ID.....: 999995	Instrument ID...: W15	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: E5I010300

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids							
						WO#:HJLN31AC-LCS/HJLN31AD-LCSD LCS Lot-Sample#: E5I010000-473	
	101	(85 - 115)			MCAWW 160.2	09/01/05	5244473
	103	(85 - 115)	1.6	(0-20)	MCAWW 160.2	09/01/05	5244473
			Dilution Factor: 1		Analysis Time...: 16:30	Analyst ID.....: 999995	
			Instrument ID...: W18				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #....: E5I010300

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Suspended Solids								
				WO#: HJ1N31AC-LCS/HJ1N31AD-LCSD LCS Lot-Sample#: E5I010000-473				
	500000	505000	ug/L	101		MCAWW 160.2	09/01/05	5244473
	500000	513000	ug/L	103	1.6	MCAWW 160.2	09/01/05	5244473
				Dilution Factor: 1		Analysis Time...: 16:30	Analyst ID.....: 999995	
				Instrument ID...: W15				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.



Chain of Custody Record

96948

Project Name: Station 608 - O&M - Remediation
 BP BU/AR Region/Enfos Segment: Retail
 State or Lead Regulatory Agency: Oro Loma Sanitary District
 Requested Due Date (mm/dd/yy): 9/2/05
 (14-day TAT)

2005-08-0806

On-site Time: 0850	Temp: 68
Off-site Time:	Temp:
Sky Conditions: Overcast	
Meteorological Events: None	
Wind Speed: N/A	Direction: N/A

Lab Name: STL-SF (Pleasanton)	BP/AR Facility No.: Station 608	Consultant/Contractor: URS Oakland
Address: 1220 Quarry Lane Pleasanton CA	BP/AR Facility Address: 17601 Hesperian Blvd, San Lorenzo	Address: 1333 Broadway, Suite 800 Oakland CA 94612
Lab PM: Afshaneh Salimpour	Site Lat/Long: 37.673888 / -122.123	Consultant/Contractor Project No.: 38487015
Tele/Fax: 925.484.1919/925.484.1096	California Global ID No.: T000100085	Consultant/Contractor PM: Scott Robinson
BP/AR PM Contact: Paul Supple	Enfos Project No.: GOC24-0005	Tele/Fax: 510.893.3600/510.874.3268
Address: P.O. Box 6549 Moraga CA 94570	Provision or RCOP - Provision	Report Type & QC Level: Level I and EDF
Tele/Fax: 925.209.8891/925.209.8872	Phase/WBS: 03 - O&M	E-mail EDD To: Donna.Cosper@urscorp.com
	Sub Phase/Task: 03 - Analytical	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)
	Cost Element: 05 - Subcontractor Costs	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis			Sample Point Lat/Long and Comments
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	STEX-Oxy/TPH (8260)	COD (410.4)	TSS (160.2)	
1	INF	0945	8/15	X			3						X				HOLD
2	MID-1	0945	8/15	X			3						X				
3	MID-2	0855	8/15	X			3						X				
4	EFFL	0850	8/15	X			3						X				
5	EFFL	0850	8/15	X			1	X						X			
6	EFFL	0850	8/15	X			1	X					X				
7	TRIP BLANK	0850	8/15	X			3										
8																	
9																	
10																	

Sampler's Name: GEORGE BRADSHAW	Requested By / Affiliation: [Signature]	Date: 8/2/05	Time: 15:35	Account By / Affiliation: [Signature]	Date: 8/2/05	Time: 15:35
Sampler's Company: URS CORP.	Checked By: [Signature]	Date: 8/2/05	Time: 15:35	Account By: [Signature]	Date: 8/2/05	Time: 15:35
Shipment Date: 8/2/05	Shipment Method: SAC - STL	Shipment Trucking No:	Special Instructions:			

Custody Seals In Place Yes No Temp Blank Yes X No Cooler Temperature on Receipt 2 °C Trip Blank Yes X No

ATTACHMENT A

**CERTIFIED ANALYTICAL REPORT
AND CHAIN-OF-CUSTODY DOCUMENTATION**

ATTACHMENT B
OPERATION AND MAINTENANCE FIELD LOGS

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Project # 38487015 Cost Code: 0033501
 Station # ARCO 0608
 Site Address: 17601 Hesperian Blvd.
 County: San Lorenzo CA
 Project Manager: Scott Robinson (874-3280)
 Lead Engineer: Amber Budd (874-1769)
 Client: BP
 Client P.O.C.: Paul Supple
 Revision Date:
 Laboratory: STL

Site Remedial Technologies : Groundwater Extraction (GWE)

Permit Type : POTW

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

Data Sheet Section(s) / Part(s)	To be Completed	Budgeted Hrs	Actual Hrs	Mob-de Mob	Completed
GWE (A, B, E)	Every Visit				
GWE (C, D, G)	Monthly				
GWE (F)	Quarterly				

Monthly = once a month during week 1

Quarterly = once every quarter during months 1,4,7,10

Comments:

System Under Compliance:

Yes
 (If no, was the Engineer/PM contacted?)

Field Technician Response:

Completed by: George Brackley Date: 8/25/05
 Arrival time: 0830 Departure time: _____
 Sample this visit?: Yes Engineer contacted? _____

RECEIVED

AUG 20 2005

BP UNIT

55
 8/29/05

Groundwater Extraction & Treatment System
ARCO Service Station No. 0608
17601 Hesperian Blvd.
San Lorenzo CA

Date: 9/25/05

System Description:

Groundwater Extraction Wells							
Extraction Well	Size	Type	Control	Screen Interval	Set Depth (TOB)	Well Online (Yes/No)	Totalizer Reading (gallons)
E-1A	3"	Electric	Auto		23.9		

Abatement Device:

Carbon Vessels: three ASC-2,400 lbs

Filter: Rosedale P2 25 micron

Equipment Required:

pH meter, conductivity and temp meter, water level meter

PART A: SYSTEM DATA (twice a month during week 1 & 3)

System on upon arrival?

ON

(if no, specify reason in comments)

System on departure?

ON

(if no, specify reason in comments)

Filter Changed?

No

MEASUREMENT	ON ARRIVAL	ON DEPARTURE IF BACKFLUSHED OR FILTER CHANGED
TOTALIZER (gallons)	4,407,082	4,407,134
ELECTRIC METER READING (kWh)	43929 kWh	N/A
Hour Meter Reading (hrs)	23184.0	N/A
Holding Tank Level	N/A	
FILTER INLET PRESSURE (psig)	18.0	
CARBON #1 INLET PRESSURE (psig)	(Change filter if pressure > 30 psig) 18.0	After changing filter =
CARBON #2 INLET PRESSURE (psig)	(Backflush if pressure > 20 psig) 16.5	After backflush =
CARBON #3 INLET PRESSURE (psig)	(Backflush if pressure > 10 psig) 9.3	After backflush =
DISCHARGE PRESSURE (psig)	(Backflush if pressure > 10 psig) 4.6	After backflush =
EFF FLOW RATE (gpm)	0	
	1.6	

PART B: COMMENTS

PART C: WELL DATA (Monthly)

* Allow system to run 1 hour before obtaining DTW readings

Well ID	Size	Time	DTW (Feet)	TD (Feet)
E-1A				
UST-A				
UST-B				
SP1-V4				

PART D: SAMPLING & READINGS (Monthly during week 1)

	ANALYSIS	NUMBER OF SAMPLES	DATE
INFLUENT	GRO/BTEX /Fuel Oxys, EPA 8260, 14-day TAT	3X40 mL HCl VOA's	8/25/05
MID 1	GRO/BTEX /Fuel Oxys, EPA 8260, 14-day TAT	3X40 mL HCl VOA's	8/25/05
MID 1	GRO/BTEX /Fuel Oxys, EPA 8260, 14-day TAT	3X40 mL HCl VOA's	8/25/05
EFFLUENT	GRO/BTEX /Fuel Oxys (EPA 8260), COD (410.4), TSS (160.2), 14-day TAT	3X40 mL HCl VOA's, 1unpreserved, 1 H ₂ SO ₄	8/25/05
TRIP BLANK	GRO/BTEX, EPA 8260 (on Hold)	3X40 mL VOA supplied by the lab	8/25/05

PART E: SYSTEM MAINTENANCE (Every Visit)

Sump Pump Tested?	N/A	Enclosure Swept?	No
Test Compound Float Switch?	Yes	Test Filter Pressure Switch?	Yes
Air Solenoid Valve?	N/A	Number of Spare Filters On Site?	0
Test Holding Tank Switches?	N/A		

PART F: SYSTEM MAINTENANCE (Months 1, 4, 7, 10)

Submersible Pumps Checked?		Flow Totalizers Cleaned?	
Control Logics Checked?			

PART G: READINGS (Monthly during week 1)

	pH (UNITS):	Temperature (°F):	Electrical Conductivity:	Dissolved Oxygen (ppm):
EFFLUENT	6.91	23.2°C		
permit limits:	5.5 to 12.5	150°F	7621 µs	1.07

FIELD SERVICES / ROUTINE O&M REQUEST

Identification

Project # 38487015 Cost Code: 0033501
 Station # ARCO 0608
 Site Address: 17601 Hesperian Blvd.
 County: San Lorenzo CA
 Project Manager: Scott Robinson (874-3280)
 Lead Engineer: Amber Budd (874-1769)
 Client: BP
 Client P.O.C.: Paul Supple
 Revision Date:
 Laboratory: STL

Site Remedial Technologies : Groundwater Extraction (GWE)

Permit Type : POTW

Complete attached Data Sheets as prescribed in the following table:

Scheduling Table

Data Sheet Section(s) / Part(s)	To be Completed	Budgeted Hrs	Actual Hrs	Mob-de Mob	Completed
GWE (A, B, E)	Every Visit				
GWE (C, D, G)	Monthly				
GWE (F)	Quarterly				

Monthly = once a month during week 1

Quarterly = once every quarter during months 1,4,7,10

Comments:

System Under Compliance:

(If no, was the Engineer/PM contacted?)

Field Technician Response:

Completed by: George Bruch Date: 9/7/05
 Arrival time: 0930 Departure time: 1200
 Sample this visit?: No Engineer contacted? No

RECEIVED
 SEP 14 2005
 BP UNIT

65
09/13/05

Groundwater Extraction & Treatment System
 ARCO Service Station No. 0608
 17601 Hesperian Blvd.
 San Lorenzo CA

Date: 9/2/05

System Description:

Groundwater Extraction Wells							
Extraction Well	Size	Type	Control	Screen Interval	Set Depth (TOB)	Well Online (Yes/No)	Totalizer Reading (gallons)
E-1A	3"	Electric	Auto		23.9	Yes	4,421,840

Abatement Device: Carbon Vessels: three ASC-2,400 lbs
 Filter: Rosedale P2 25 micron

Equipment Required: pH meter, conductivity and temp meter, water level meter

PART A: SYSTEM DATA (twice a month during week 1 & 3)

System on upon arrival? ON (if no, specify reason in comments)
 System on departure? ON (if no, specify reason in comments)
 Filter Changed? No

MEASUREMENT	ON ARRIVAL	ON DEPARTURE IF BACKFLUSHED OR FILTER CHANGED
TOTALIZER (gallons)	4,409,600 4,421,840	
ELECTRIC METER READING (kWh)	44096 kWh	N/A
Hour Meter Reading (hrs)	23497.2	N/A
Holding Tank Level	N/A	
FILTER INLET PRESSURE (psig)	(Change filter if pressure > 30 psig) 19.0	After changing filter =
CARBON #1 INLET PRESSURE (psig)	(Backflush if pressure > 20 psig) 17.6	After backflush =
CARBON #2 INLET PRESSURE (psig)	(Backflush if pressure > 10 psig) 10.3	After backflush =
CARBON #3 INLET PRESSURE (psig)	(Backflush if pressure > 10 psig) 5.0	After backflush =
DISCHARGE PRESSURE (psig)	1.0	
EFF FLOW RATE (gpm)	1.0	

PART B: COMMENTS

PART C: WELL DATA (Monthly)

* Allow system to run 1 hour before obtaining DTW readings

Well ID	Size	Time	DTW (Feet)	TD (Feet)
E-1A				
UST-A				
UST-B				
SP1-V4				

PART D: SAMPLING & READINGS (Monthly during week 1)

To be Collected Week of 9/21

Sample Type	Parameters	Volume / Method	Notes
INFLUENT	GRO/BTEX /Fuel Oxys, EPA 8260, 14-day TAT	3X40 mL HCl VOA's	
MID 1	GRO/BTEX /Fuel Oxys, EPA 8260, 14-day TAT	3X40 mL HCl VOA's	
MID 1	GRO/BTEX /Fuel Oxys, EPA 8260, 14-day TAT	3X40 mL HCl VOA's	
EFFLUENT	GRO/BTEX /Fuel Oxys (EPA 8260), COD (410.4), TSS (160.2), 14-day TAT	3X40 mL HCl VOA's, 1 unpreserved, 1 H ₂ SO ₄	
TRIP BLANK	GRO/BTEX, EPA 8260 (on Hold)	3X40 mL VOA supplied by the lab	

PART E: SYSTEM MAINTENANCE (Every Visit)

Sump Pump Tested?	<i>n/a</i>	Enclosure Swept?	<i>No</i>
Test Compound Float Switch?	<i>Yes</i>	Test Filter Pressure Switch?	<i>Yes</i>
Air Solenoid Valve?	<i>n/a</i>	Number of Spare Filters On Site?	<i>0</i>
Test Holding Tank Switches?	<i>n/a</i>		

PART F: SYSTEM MAINTENANCE (Months 1, 4, 7, 10)

Submersible Pumps Checked?		Flow Totalizers Cleaned?	
Control Logics Checked?			

PART G: READINGS (Monthly during week 1)

To be Collected Week of 9/21

Parameter	pH (UNITS):	Temperature (°F):	Electrical Conductivity:	Dissolved Oxygen (ppm):
EFFLUENT				
permit limits:	5.5 to 12.5	150°F		



Chain of Custody Record

Project Name: Station 608 - O&M - Remediation
 BP BU/AR Region/Enfos Segment: Retail
 State or Lead Regulatory Agency: Oro Loma Sanitary District
 Requested Due Date (mm/dd/yy): 9/8/05
 (14- day TAT)

On-site Time: <u>0850</u>	Temp: <u>68</u>
Off-site Time:	Temp:
Sky Conditions: <u>Overcast</u>	
Meteorological Events: <u>None</u>	
Wind Speed: <u>N/A</u>	Direction: <u>N/A</u>

Lab Name: <u>STL-SF (Pleasanton)</u>	BP/AR Facility No.: <u>Station 608</u>	Consultant/Contractor: <u>URS Oakland</u>
Address: <u>1220 Quarry Lane</u> <u>Pleasanton CA</u>	BP/AR Facility Address: <u>17601 Hesperian Blvd, San Lorenzo</u>	Address: <u>1333 Broadway, Suite 800</u> <u>Oakland CA 94612</u>
Lab PM: <u>Afsaneh Salimpour</u>	Site Lat/Long: <u>37.673888 / -122.123</u>	Consultant/Contractor Project No.: <u>38487015</u>
Tele/Fax: <u>925.484.1919/925.484.1096</u>	California Global ID No.: <u>T000100085</u>	Consultant/Contractor PM: <u>Scott Robinson</u>
BP/AR PM Contact: <u>Paul Supple</u>	Enfos Project No.: <u>G0C24-0005</u>	Tele/Fax: <u>510.893.3600/510.874.3268</u>
Address: <u>P.O. Box 6549</u> <u>Moraga CA 94570</u>	Provision or RCOP: <u>Provision</u>	Report Type & QC Level: <u>Level I and EDF</u>
Tele/Fax: <u>925.299.8891/925.299.8872</u>	Phase/WBS: <u>03 - O&M</u>	E-mail EDD To: <u>Donna.Cosper@urscorp.com</u>
Lab Bottle Order No:	Sub Phase/Task: <u>03 - Analytical</u>	Invoice to: <u>Consultant or BP or Atlantic Richfield Co. (circle one)</u>
	Cost Element: <u>05 - Subcontractor Costs</u>	

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Sample Point Lat/Long and Comments	
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	BTEX/OP/TPH (B260)	COD (410.4)	TSS (160.2)				
1	INF	0945	9/5	X																
2	MID-1	0940	9/5	X																
3	MID-2	0855	9/5	X																
4	EFFL	0850	9/5	X																
5	EFFL	0850	9/5	X																
6	EFFL	0850	9/5	X																
7	TRIP BLANK	0850	9/5	X																
8																				HOLD
9																				
10																				

Sampler's Name: <u>George Blawie</u>	Requested By / Affiliation: <u>[Signature]</u>	Date / Time: <u>9/8/05</u>	Accepted By / Affiliation: <u>[Signature]</u>	Date / Time: <u>9/8/05</u>
Sampler's Company: <u>URS Corp.</u>				
Shipment Date: <u>9/5/05</u>				
Shipment Method: <u>SAC - STL</u>				
Shipment Tracking No:				
Special Instructions:				

Custody Seals In Place Yes No Temp Blank Yes No Cooler Temperature on Receipt °F/C Trip Blank Yes No

Distribution: White Copy - Laboratory / Yellow Copy - BP/Atlantic Richfield Co. / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04