

RO 486



Shell Oil Products US

September 5, 2003

Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County

SEP 09 2003

Environmental Health

Subject: Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California

Dear Mr. Hwang:

Attached for your review and comment is a copy of the *Third Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

A handwritten signature in cursive script that reads "Karen Petryna".

Karen Petryna
Sr. Environmental Engineer

September 5, 2003

Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Third Quarter 2003 Monitoring Report**
Former Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758
Cambria Project #245-0524-002

Alameda County
SEP 09 2003
Environmental Health



Dear Mr. Hwang:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

HYDROCARBON REMOVAL SUMMARY

Groundwater Extraction (GWE): Monthly GWE using a vacuum truck has been conducted intermittently at the site since April 1999. Mobile GWE vacuum operations consist of lowering dedicated stingers into selected monitoring wells and extracting fluids using a vacuum truck. The volume of extracted fluid is recorded and used to calculate the quantity of aqueous-phase hydrocarbon removed from the subsurface. To date, an estimated 14.9 pounds of liquid-phase hydrocarbons and 26.6 pounds of liquid-phase methyl tert-butyl ether (MTBE) have been removed from the site. Liquid-phase mass removal data for the site are presented in Table 1.

Dual Phase Vapor Extraction (DVE): DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance GWE from the saturated zone. For mobile DVE, a vacuum truck is used to create the vacuum and contain extracted fluids. Mobile DVE augmented hydrocarbon removal efforts from November 2000 to June 2001, and has been reinstated as of July 2003. To date, the system has removed an estimated 23.3 pounds of vapor-phase hydrocarbons. Vapor-phase mass removal data for the site are presented in Table 2.

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

samples were analyzed for tert-butyl alcohol (TBA). Analytical results for MTBE, di-isopropyl ether, ethyl tert-butyl ether, tert-amyl methyl ether, TBA, and ethanol are presented in Table 4.

DVE: In July 2003, Cambria reinstated DVE using wells MW-2 and MW-3 in an effort to remove additional MTBE in the vicinity of those wells. Events were conducted weekly for three events and will continue every two weeks until the end of September 2003. Mass-removal data for the site are presented in Tables 1 and 2. GWE, DVE and quarterly monitoring data for MW-2 are depicted graphically in Figure 3.

Potential Off-Site Source: MTBE concentrations in upgradient Unocal wells MW-2 and MW-7 and in Shell's well MW-2 are depicted graphically in Figure 4. The highest MTBE concentration was observed in Shell well MW-2 in the second quarter of 2000; however, it declined steadily until the second quarter of 2002. The current rebound in MTBE concentrations in MW-2 might be attributed to the observed upgradient Unocal plume: beginning with Unocal well MW-2 in the third quarter of 2000, progressing to Unocal well MW-7 in the fourth quarter of 2001, and appearing to influence Shell well MW-2 beginning in the third quarter of 2002. It is clear from the concentrations observed in Unocal wells MW-2 and MW-7 that the Unocal plume is migrating in the direction of the former Shell station. Unocal's out-going consultant indicated to Cambria that there are no current plans to address the migrating Unocal plume.

ANTICIPATED FOURTH QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells and tabulate the data Cambria will prepare a monitoring report.

Joint Groundwater Sampling: Cambria will continue to coordinate joint sampling with the adjacent TOSCO site and use the coordinated sampling data to determine groundwater elevation contours.

DVE: Cambria will continue conducting DVE using wells MW-2 and MW-3 through the end of September 2003 and will evaluate DVE effectiveness in the fourth quarter of 2003.

Groundwater Monitoring Well Installation Work Plan: Cambria will submit a work plan to install one monitoring well in the southern corner of the former tank pit, as recommended in the April 28, 2003 *Tank Closure and Soil Excavation Report*. Upon approval of the work plan by Alameda County Health Care Services Agency, Cambria will schedule drilling.

Discontinue Biological Parameter Monitoring: Bioattenuation parameters have been monitored annually in the third quarter at the site. Results collected over the past five years (Table 3) indicate that biodegradation is occurring at the site and therefore, analysis for these parameters will be discontinued as of 2004.

CLOSING

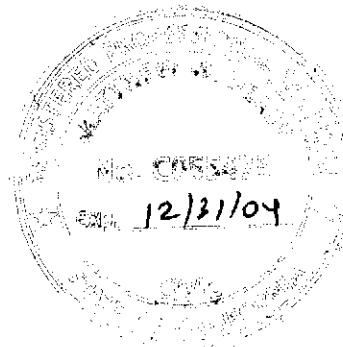


We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Melody Munz
Project Engineer

Matthew W. Derby, P.E.
Senior Project Engineer



- Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Elevation Contour Map
 3 - VacOps/DVE Effect on MTBE Concentration (MW-2)
 4 - MTBE Concentrations – MacArthur and High Streets, Oakland

- Tables: 1 - Groundwater Extraction - Mass Removal Data
 2 - Vapor Extraction - Mass Removal Data
 3 - Groundwater Analytical Data – Bioattenuation Parameters
 4 - Groundwater Analytical Data – Oxygenates

- Attachments: A - Blaine Groundwater Monitoring Report and Field Notes
 B - TOSCO 76 Service Station #1156 Groundwater Monitoring Data and Analytical Results

cc: Karen Petryna, Shell Oil Products US, P.O.Box 7869, Burbank, CA 91510-7869
 Roland C. Malone, Jr., PO Box 2744, Castro Valley, CA 94546



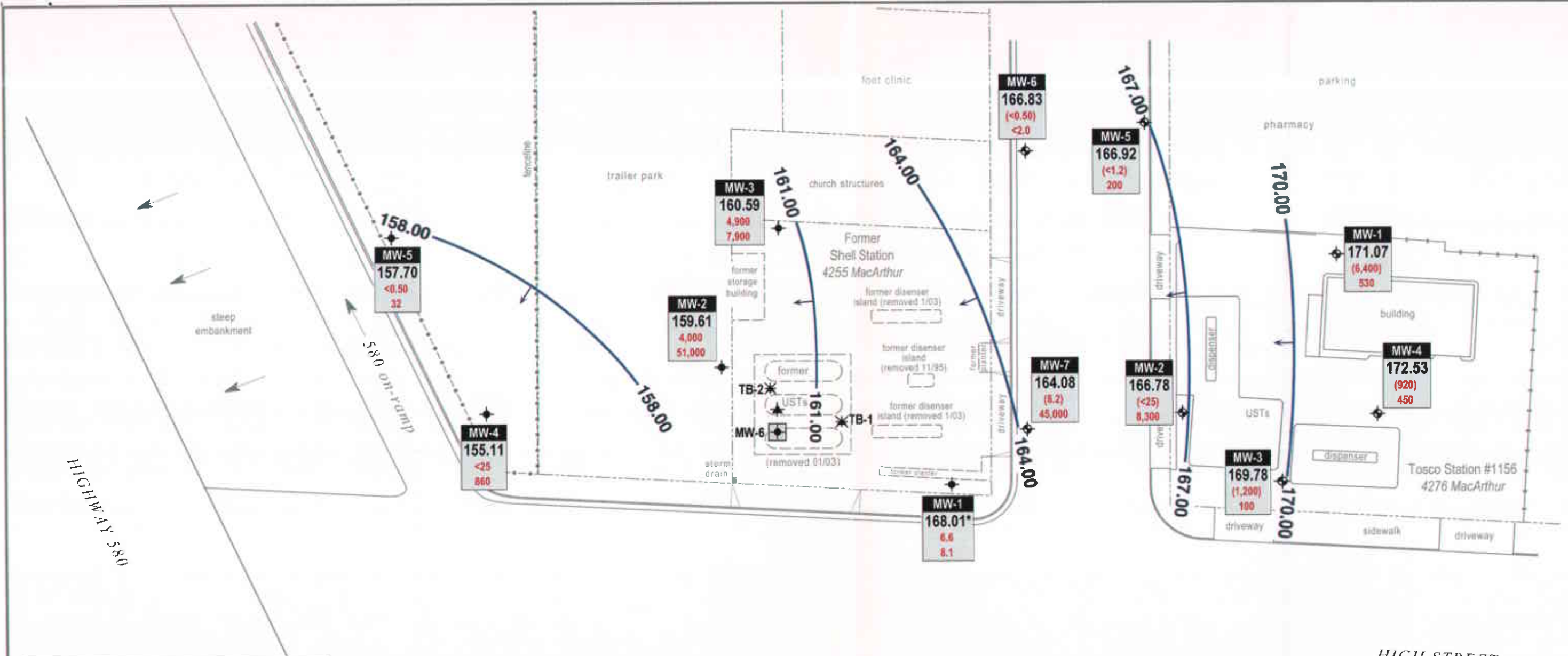
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Former Shell-branded Service Station
 4255 MacArthur Boulevard
 Oakland, California
 Incident #98995758



C A M B R I A

**Vicinity/Area Well
 Survey Map**
 (1/2 Mile Radius)



EXPLANATION

- MW-6 Proposed monitoring well location (Shell)
- MW-1 Shell monitoring well location
- TB-1 Destroyed Shell tank backfill well location
- MW-1 Tosco monitoring well location
- Data anomalous, not used for contouring
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
- Inferred groundwater flow direction
- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260. Results in parentheses were analyzed by EPA Method 8020.

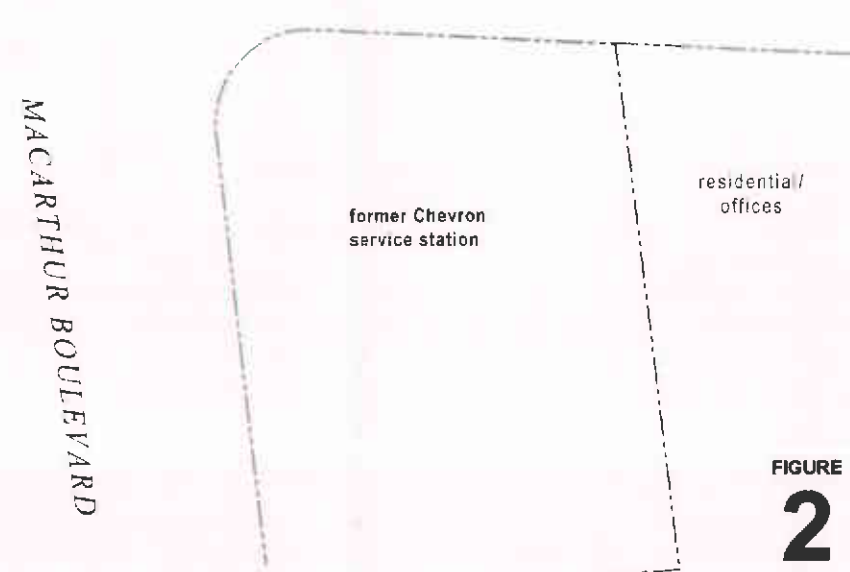
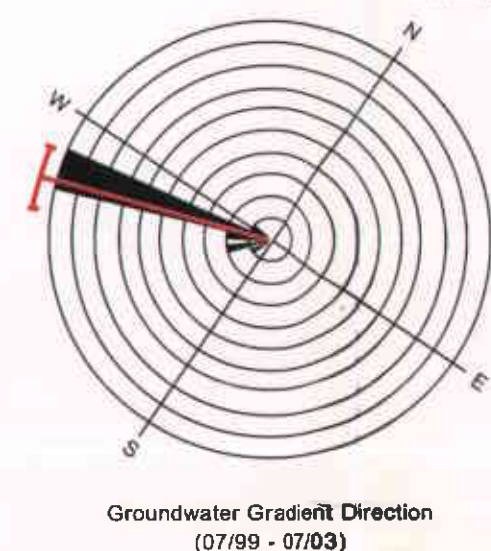
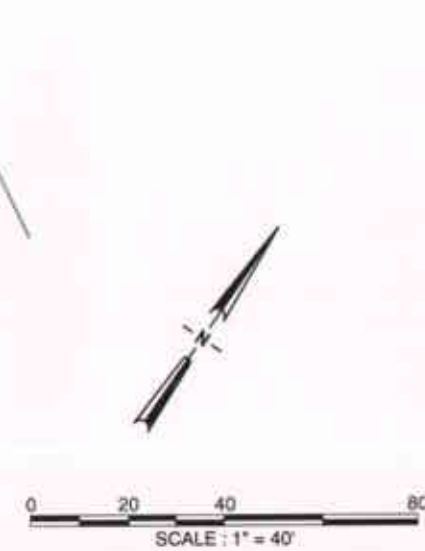
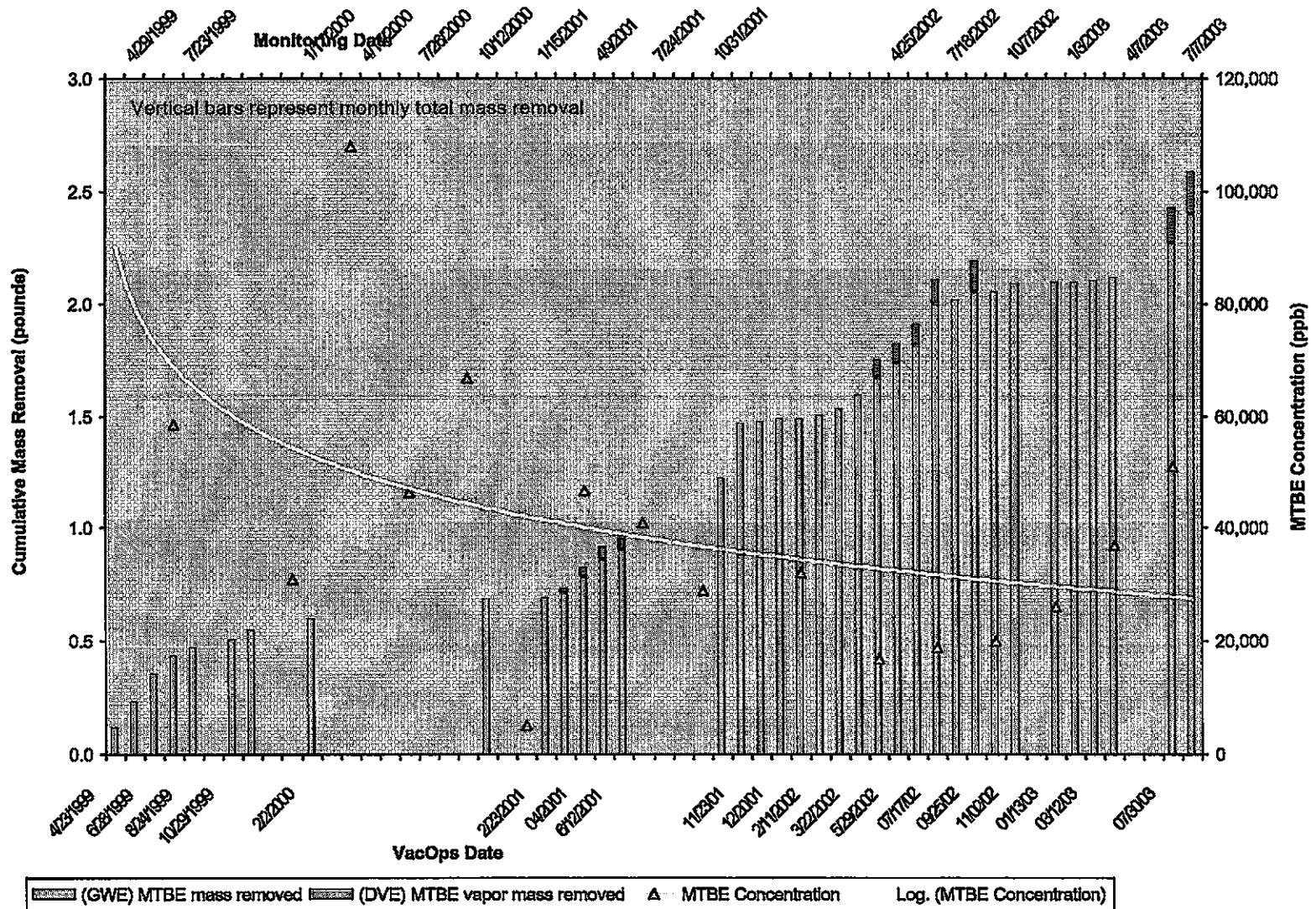


FIGURE 2

VacOps/DVE Effect on MTBE Concentration
4255 MacArthur, Oakland MW-2

Date	DTW
4/29/99	9.86
7/23/99	14.45
11/01/99	11.84
1/17/00	11.00
4/17/00	11.06
7/26/00	12.82
10/12/00	11.32
1/15/01	10.19
4/09/01	11.15
7/24/01	11.67
10/31/01	11.04
01/10/02	9.58
4/25/02	11.40
7/18/02	12.68
10/7/02	11.58
1/06/03	9.09
4/7/03	11.08
7/7/03	11.27



MTBE Concentrations
MacArthur & High Streets, Oakland

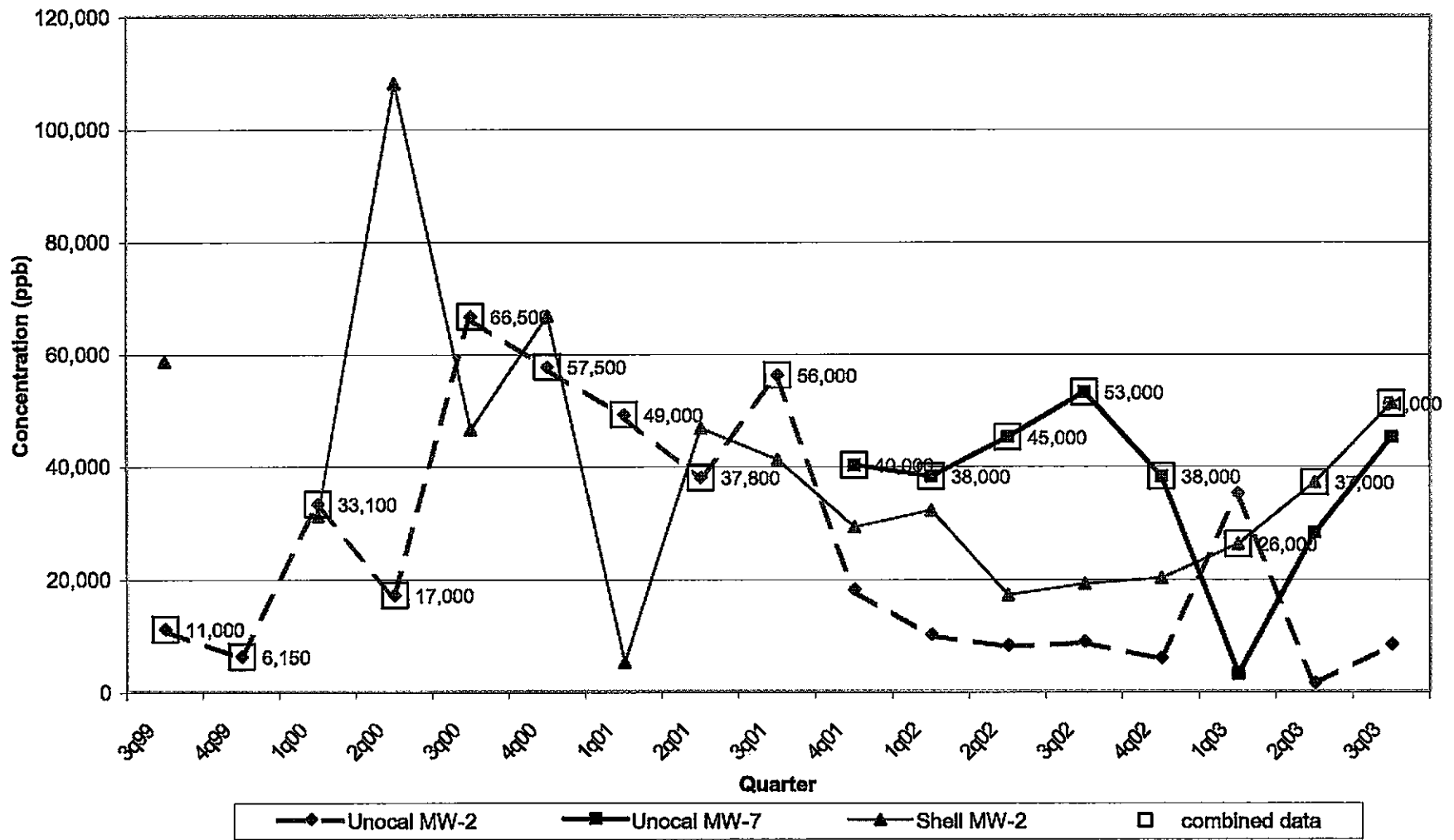


Figure 4

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
04/23/99	MW-2	200	200	04/13/98	180,000	0.30040	0.30040	2,800	0.00467	0.00467	71,000	0.11849	0.11849
05/24/99	MW-2	200	400	04/13/98	180,000	0.30040	0.60079	2,800	0.00467	0.00935	71,000	0.11849	0.23698
06/28/99	MW-2	200	600	04/13/98	180,000	0.30040	0.90119	2,800	0.00467	0.01402	71,000	0.11849	0.35547
07/30/99	MW-2	200	800	07/23/99	65,800	0.10981	1.01100	6,500	0.01085	0.02487	46,600	0.07777	0.43324
08/24/99	MW-2	100	900	07/23/99	65,800	0.05491	1.06591	6,500	0.00542	0.03029	46,600	0.03888	0.47212
10/29/99	MW-2	100	1,000	07/23/99	65,800	0.05491	1.12081	6,500	0.00542	0.03571	46,600	0.03888	0.51101
11/30/99	MW-2	100	1,100	07/23/99	65,800	0.05491	1.17572	6,500	0.00542	0.04114	46,600	0.03888	0.54989
02/02/00	MW-2	200	1,300	01/17/00	46,000	0.07677	1.25249	6,000	0.01001	0.05115	31,000	0.05174	0.60163
11/16/00	MW-2	150	1,450	10/12/00	63,200	0.07910	1.33159	5,840	0.00731	0.05846	66,600	0.08336	0.68499
02/23/01	MW-2	200	1,650	01/15/01	59,700	0.09963	1.43122	2,630	0.00439	0.06285	5,080	0.00848	0.69347
03/14/01	MW-2	300	1,950	01/15/01	59,700	0.14945	1.58067	2,630	0.00658	0.06943	5,080	0.01272	0.70618
04/20/01*	MW-2	200	2,150	04/09/01	56,900	0.09496	1.67563	1,860	0.00310	0.07254	46,600	0.07777	0.78395
05/30/01	MW-2	200	2,350	04/09/01	56,900	0.09496	1.77059	1,860	0.00310	0.07564	46,600	0.07777	0.86172
06/12/01	MW-2	100	2,450	04/09/01	56,900	0.04748	1.81807	1,860	0.00155	0.07719	46,600	0.03888	0.90061
11/06/01	MW-2	1,350	3,800	10/31/01	45,000	0.50692	2.32499	2,200	0.02478	0.10198	29,000	0.32668	1.22729
11/23/01	MW-2	1,000	4,800	10/31/01	45,000	0.37550	2.70048	2,200	0.01836	0.12033	29,000	0.24199	1.46927
12/04/01	MW-2	20	4,820	10/31/01	45,000	0.00751	2.70799	2,200	0.00037	0.12070	29,000	0.00484	1.47411
12/20/01	MW-2	50	4,870	10/31/01	45,000	0.01877	2.72677	2,200	0.00092	0.12162	29,000	0.01210	1.48621
01/14/02	MW-2	10	4,880	01/10/02	28,000	0.00234	2.72911	840	0.00007	0.12169	32,000	0.00267	1.48888
02/11/02	MW-2	62	4,942	01/10/02	28,000	0.01449	2.74359	840	0.00043	0.12212	32,000	0.01656	1.50544
02/25/02	MW-2	100	5,042	01/10/02	28,000	0.02336	2.76696	840	0.00070	0.12282	32,000	0.02670	1.53214
03/08/02*	MW-2	125	5,167	01/10/02	28,000	0.02921	2.79616	840	0.00088	0.12370	32,000	0.03338	1.56552
03/22/02	MW-2	125	5,292	01/10/02	28,000	0.02921	2.82537	840	0.00088	0.12458	32,000	0.03338	1.59890
04/10/02	MW-2	53	5,345	01/10/02	28,000	0.01238	2.83775	840	0.00037	0.12495	32,000	0.01415	1.61305
04/16/02	MW-2	100	5,445	01/10/02	28,000	0.02336	2.86111	840	0.00070	0.12565	32,000	0.02670	1.63975
04/24/02	MW-2	100	5,545	01/10/02	28,000	0.02336	2.88448	840	0.00070	0.12635	32,000	0.02670	1.66645
05/08/02	MW-2	29	5,574	04/25/02	41,000	0.00992	2.89440	1,900	0.00046	0.12681	17,000	0.00411	1.67057
05/22/02	MW-2	300	5,874	04/25/02	41,000	0.10264	2.99703	1,900	0.00476	0.13157	17,000	0.04256	1.71312
05/29/02	MW-2	122	5,996	04/25/02	41,000	0.04174	3.03877	1,900	0.00193	0.13350	17,000	0.01731	1.73043

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					TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
06/05/02	MW-2	30	6,026	04/25/02	41,000	0.01026	3.04904	1,900	0.00048	0.13398	17,000	0.00426	1.73468
06/19/02	MW-2	500	6,526	04/25/02	41,000	0.17106	3.22010	1,900	0.00793	0.14190	17,000	0.07093	1.80561
06/26/02	MW-2	50	6,576	04/25/02	41,000	0.01711	3.23720	1,900	0.00079	0.14270	17,000	0.00709	1.81270
07/10/02	MW-2	900	7,476	04/25/02	41,000	0.30791	3.54511	1,900	0.01427	0.15696	17,000	0.12767	1.94037
07/17/02	MW-2	400	7,876	04/25/02	41,000	0.13685	3.68196	1,900	0.00634	0.16331	17,000	0.05674	1.99711
08/21/02	MW-2	100	7,976	07/18/02	87,000	0.07260	3.75455	2,000	0.00167	0.16498	19,000	0.01585	2.01297
08/27/02	MW-2	50	8,026	07/18/02	87,000	0.03630	3.79085	2,000	0.00083	0.16581	19,000	0.00793	2.02089
09/25/02	MW-2	178	8,204	07/18/02	87,000	0.12922	3.92007	2,000	0.00297	0.16878	19,000	0.02822	2.04912
10/22/02	MW-2	50	8,254	10/07/02	110,000	0.04589	3.96596	3,900	0.00163	0.17041	20,000	0.00834	2.05746
11/01/02	MW-2	152	8,406	10/07/02	110,000	0.13952	4.10548	3,900	0.00495	0.17535	20,000	0.02537	2.08283
11/02/02	MW-2	56	8,462	10/07/02	110,000	0.05140	4.15688	3,900	0.00182	0.17718	20,000	0.00935	2.09217
01/13/03	MW-2	40	8,502	01/06/03	65,000	0.02170	4.17858	2,400	0.00080	0.17798	26,000	0.00868	2.10085
02/12/03	MW-2	0	8,502	01/06/03	65,000	0.00000	4.17858	2,400	0.00000	0.17798	26,000	0.00000	2.10085
03/12/03	MW-2	30	8,532	01/06/03	65,000	0.01627	4.19485	2,400	0.00060	0.17858	26,000	0.00651	2.10736
04/15/03	MW-2	70	8,602	04/07/03	57,000	0.03329	4.22814	1,900	0.00111	0.17969	37,000	0.02161	2.12897
07/22/03	MW-2	200	8,802	07/07/03	34,000	0.05674	4.28489	4,000	0.00668	0.18636	51,000	0.08511	2.21408
07/30/03	MW-2	125	8,927	07/07/03	34,000	0.03546	4.32035	4,000	0.00417	0.19054	51,000	0.05320	2.26728
08/05/03	MW-2	175	9,102	07/07/03	34,000	0.04965	4.37000	4,000	0.00584	0.19638	51,000	0.07447	2.34175
08/19/03	MW-2	127	9,229	07/07/03	34,000	0.03603	4.40603	4,000	0.00424	0.20062	51,000	0.05405	2.39580
05/30/01	MW-3	50	50	04/09/01	33,800	0.01410	0.01410	7,100	0.00296	0.00296	13,000	0.00542	0.00542
06/12/01	MW-3	50	100	04/09/01	33,800	0.01410	0.02820	7,100	0.00296	0.00592	13,000	0.00542	0.01085
08/27/02	MW-3	300	400	07/18/02	56,000	0.14019	0.16839	3,300	0.00826	0.01419	8,400	0.02103	0.03188
09/25/02	MW-3	200	600	07/18/02	56,000	0.09346	0.26185	3,300	0.00551	0.01969	8,400	0.01402	0.04589
10/22/02	MW-3	125	725	07/18/02	56,000	0.05841	0.32026	3,300	0.00344	0.02313	8,400	0.00876	0.05466
11/01/02	MW-3	100	825	07/18/02	56,000	0.04673	0.36698	3,300	0.00275	0.02589	8,400	0.00701	0.06166
11/02/02	MW-3	250	1,075	07/18/02	56,000	0.11682	0.48381	3,300	0.00688	0.03277	8,400	0.01752	0.07919
01/13/03	MW-3	60	1,135	01/06/03	57,000	0.02854	0.51234	3,200	0.00160	0.03437	5,100	0.00255	0.08174
02/12/03	MW-3	0	1,135	01/06/03	57,000	0.00000	0.51234	3,200	0.00000	0.03437	5,100	0.00000	0.08174

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					TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
03/12/03	MW-3	52	1,187	01/06/03	57,000	0.02473	0.53708	3,200	0.00139	0.03576	5,100	0.00221	0.08395
04/15/03	MW-3	14	1,201	04/07/03	57,000	0.00666	0.54373	6,200	0.00072	0.03649	8,200	0.00096	0.08491
07/22/03	MW-3	66	1,267	07/07/03	28,000	0.01542	0.55916	4,900	0.00270	0.03919	7,900	0.00435	0.08926
07/30/03	MW-3	156	1,423	07/07/03	28,000	0.03645	0.59560	4,900	0.00638	0.04556	7,900	0.01028	0.09955
08/05/03	MW-3	74	1,497	07/07/03	28,000	0.01729	0.61289	4,900	0.00303	0.04859	7,900	0.00488	0.10442
08/19/03	MW-3	127	1,624	07/07/03	28,000	0.02967	0.64257	4,900	0.00519	0.05378	7,900	0.00837	0.11280
09/05/01	TB-1	300	300	10/31/01	1,000	0.00250	0.00250	85	0.00021	0.00021	4,100	0.01026	0.01026
09/19/01	TB-1	1,400	1,700	10/31/01	1,000	0.01168	0.01419	85	0.00099	0.00121	4,100	0.04790	0.05816
10/16/01	TB-1	1,200	2,900	10/31/01	1,000	0.01001	0.02420	85	0.00085	0.00206	4,100	0.04105	0.09921
04/16/02	TB-1	1,111	4,011	10/31/01	5,000	0.04635	0.07055	410	0.00380	0.00586	9,000	0.08344	0.18265
04/23/99	TB-2	4,800	4,800	08/24/99	6,240	0.24993	0.24993	400	0.01602	0.01602	86,100	3.44856	3.44856
05/24/99	TB-2	4,800	9,600	08/24/99	6,240	0.24993	0.49986	400	0.01602	0.03204	86,100	3.44856	6.89711
06/28/99	TB-2	4,800	14,400	08/24/99	6,240	0.24993	0.74979	400	0.01602	0.04806	86,100	3.44856	10.34567
07/30/99	TB-2	4,800	19,200	08/24/99	6,240	0.24993	0.99972	400	0.01602	0.06408	86,100	3.44856	13.79422
08/24/99	TB-2	2,400	21,600	08/24/99	6,240	0.12497	1.12469	400	0.00801	0.07210	86,100	1.72428	15.51850
10/29/99	TB-2	2,255	23,855	10/29/99	7,460	0.14037	1.26506	656	0.01234	0.08444	442	0.00832	15.52682
11/30/99	TB-2	3,800	27,655	10/29/99	7,460	0.23655	1.50160	656	0.02080	0.10524	442	0.01402	15.54083
02/02/00	TB-2	4,500	32,155	01/31/00	2,070	0.07773	1.57933	108	0.00406	0.10930	6,550	0.24595	15.78678
11/16/00	TB-2	974	33,129	11/16/00	107,000	0.86963	2.44896	3,390	0.02755	0.13685	16,800	0.13654	15.92332
02/23/01	TB-2	2,506	35,635	02/23/01	80,600	1.68542	4.13439	2,410	0.05040	0.18724	38,100	0.79671	16.72003
03/14/01	TB-2	1,075	36,710	02/23/01	80,600	0.72300	4.85738	2,410	0.02162	0.20886	38,100	0.34176	17.06179
04/20/01*	TB-2	1,760	38,470	04/09/01	46,600	0.68437	5.54175	1,240	0.01821	0.22707	31,300	0.45967	17.52147
05/30/01	TB-2	2,100	40,570	04/09/01	46,600	0.81658	6.35833	1,240	0.02173	0.24880	31,300	0.54847	18.06994
06/12/01	TB-2	2,400	42,970	04/09/01	46,600	0.93323	7.29156	1,240	0.02483	0.27363	31,300	0.62683	18.69677
08/07/01	TB-2	2,510	43,080	07/24/01	11,000	0.23039	7.52195	630	0.01319	0.28683	11,000	0.23039	18.92716
08/21/01	TB-2	2,700	45,670	07/24/01	11,000	0.24783	7.76978	630	0.01419	0.30102	11,000	0.24783	19.17499
09/05/01	TB-2	2,100	45,180	07/24/01	11,000	0.19275	7.96253	630	0.01104	0.31206	11,000	0.19275	19.36774

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
09/19/01	TB-2	1,500	47,170	07/24/01	11,000	0.13768	8.10022	630	0.00789	0.31995	11,000	0.13768	19.50542
10/16/01	TB-2	1,750	46,930	07/24/01	11,000	0.16063	8.26085	630	0.00920	0.32915	11,000	0.16063	19.66605
11/06/01	TB-2	1,500	48,670	10/31/01	7,500	0.09387	8.35472	530	0.00663	0.33578	2,500	0.03129	19.69734
11/23/01	TB-2	1,500	48,430	10/31/01	7,500	0.09387	8.44859	530	0.00663	0.34241	2,500	0.03129	19.72863
10/04/01	TB-2	2,900	51,570	10/31/01	7,500	0.18149	8.63008	530	0.01283	0.35524	2,500	0.06050	19.78913
12/20/01	TB-2	2,950	51,380	10/31/01	7,500	0.18462	8.81470	530	0.01305	0.36829	2,500	0.06154	19.85067
01/14/02	TB-2	2,542	54,112	01/10/02	<5,000	0.05303	8.86773	480	0.01018	0.37847	12,000	0.25454	20.10521
02/11/02	TB-2	1,300	52,680	01/10/02	<5,000	0.02712	8.89485	480	0.00521	0.38367	12,000	0.13017	20.23538
02/25/02	TB-2	2,400	56,512	01/10/02	<5,000	0.05007	8.94492	480	0.00961	0.39329	12,000	0.24032	20.47570
03/08/02*	TB-2	3,052	55,732	01/10/02	<5,000	0.06367	9.00858	480	0.01222	0.40551	12,000	0.30560	20.78130
03/22/02	TB-2	2,234	58,746	01/10/02	<5,000	0.04660	9.05519	480	0.00895	0.41446	12,000	0.22370	21.00499
04/10/02	TB-2	2,156	57,888	01/10/02	<5,000	0.04498	9.10016	480	0.00864	0.42309	12,000	0.21589	21.22088
04/24/02	TB-2	1,308	60,054	01/10/02	<5,000	0.02729	9.12745	480	0.00524	0.42833	12,000	0.13097	21.35185
05/08/02	TB-2	1,400	59,288	04/27/02	4,700	0.05491	9.18235	470	0.00549	0.43382	7,400	0.08645	21.43830
05/22/02	TB-2	1,707	61,761	04/27/02	4,700	0.06695	9.24930	470	0.00669	0.44052	7,400	0.10540	21.54370
05/29/02	TB-2	900	60,188	04/27/02	4,700	0.03530	9.28460	470	0.00353	0.44405	7,400	0.05557	21.59928
06/05/02	TB-2	1,615	63,376	04/27/02	4,700	0.06334	9.34793	470	0.00633	0.45038	7,400	0.09972	21.69900
06/19/02	TB-2	400	60,588	04/27/02	4,700	0.01569	9.36362	470	0.00157	0.45195	7,400	0.02470	21.72370
06/26/02	TB-2	1,027	64,403	04/27/02	4,700	0.04028	9.40390	470	0.00403	0.45598	7,400	0.06342	21.78712
07/10/02	TB-2	165	60,753	04/27/02	4,700	0.00647	9.41037	470	0.00065	0.45662	7,400	0.01019	21.79730
07/17/02	TB-2	315	64,718	04/27/02	4,700	0.01235	9.42272	470	0.00124	0.45786	7,400	0.01945	21.81676
08/21/02	TB-2	634	61,387	07/18/02	7,500	0.03968	9.46240	630	0.00333	0.46119	44,000	0.23277	22.04953
08/27/02	TB-2	34	64,752	07/18/02	7,500	0.00213	9.46453	630	0.00018	0.46137	44,000	0.01248	22.06201
09/25/02	TB-2	1,200	62,587	07/18/02	7,500	0.07510	9.53963	630	0.00631	0.46768	44,000	0.44058	22.50259
10/22/02	TB-2	1,520	66,272	10/07/02	<10,000	0.06342	9.60305	580	0.00736	0.47504	30,000	0.38050	22.88310
11/01/02	TB-2	1,952	64,539	10/07/02	<10,000	0.08144	9.68449	580	0.00945	0.48448	30,000	0.48865	23.37174
11/02/02	TB-2	2,000	68,272	10/07/02	<10,000	0.08344	9.76793	580	0.00968	0.49416	30,000	0.50066	23.87240
01/13/03	TB-2	2,616	67,155	01/06/03	120	0.00262	9.77055	4.8	0.00010	0.49427	220	0.00480	23.87721
02/12/03	TB-2	0	68,272	01/06/03	120	0.00000	9.77055	4.8	0.00000	0.49427	220	0.00000	23.87721

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
Total Gallons Extracted:					109,721			Total Pounds Removed:			14.88970		
					Total Gallons Removed:			2.44093			0.75452		
											26.56845		
											4.28523		

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline, analyzed by EPA Method 8015

MTBE = Methyl tert-butyl ether by EPA Method 8020; MTBE results in bold are analyzed by EPA Method 8260

ppb = Parts per billion

lb = Pound

gal = Gallon

* = Purge volume estimated

Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10⁶µg) x (pound/453.6g) x (3.785 L/gal)

Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)

Benzene analyzed by EPA Method 8020

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date	Well ID	Interval Hours of Operation (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
				TPHg	Benzene	MTBE	TPHg Removal Rate (#/hour)	Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	Cumulative MTBE Removed (#)
				(Concentrations in ppmv)								
11/16/00	MW-2	0.67	0.5	663.0	7.00	42.0	0.004	0.003	0.000	0.000	0.000	0.000
02/23/01	MW-2	7.00	3.2	24.1	0.93	11.9	0.001	0.010	0.000	0.000	0.001	0.004
03/14/01	MW-2	6.00	4.0	203	4.13	51.9	0.011	0.075	0.000	0.001	0.003	0.021
04/20/01*	MW-2	4.00	6.2	310	4.4	49	0.026	0.178	0.000	0.003	0.004	0.037
05/30/01	MW-2	3.00	7.7	360	4.4	50	0.037	0.289	0.000	0.004	0.005	0.053
06/12/01	MW-2	3.00	5.1	56	0.33	2.0	0.004	0.301	0.000	0.004	0.000	0.054
04/16/02	MW-2	6.00	7.7	1,600	7.2	47	0.165	1.289	0.001	0.008	0.005	0.083
05/22/02	MW-2	2.00	7.5	160	1.3	13	0.016	1.321	0.000	0.008	0.001	0.086
06/19/02	MW-2	5.00	11.5	95	0.94	10	0.015	1.394	0.000	0.009	0.002	0.094
07/17/02	MW-2	6.00	10.0	420	3.2	18	0.056	1.731	0.000	0.011	0.002	0.109
09/25/02	MW-2	4.00	27.3	980	4.0	20	0.358	3.161	0.001	0.017	0.007	0.139
07/22/03	MW-2	3.00	NA	NA	NA	NA	0.000	3.161	0.000	0.017	0.000	0.139
07/30/03	MW-2	3.00	4.1	3,500	23	140	0.192	3.737	0.001	0.020	0.008	0.162
08/05/03	MW-2	2.83	5.8	8,000	57	110	0.620	5.492	0.004	0.031	0.009	0.187
08/19/03	MW-2	3.17	6.9	3,300	11	71	0.304	6.457	0.001	0.034	0.007	0.208
05/30/01	MW-3	3.00	4.0	4,200	7.1	14	0.225	0.674	0.000	0.001	0.001	0.002
06/12/01	MW-3	3.00	3.3	2,400	5.8	9.8	0.106	0.991	0.000	0.002	0.000	0.004
09/25/02	MW-3	3.00	18.7	8,800	11	14	2.200	7.591	0.002	0.009	0.004	0.014
07/22/03	MW-3	3.00	NA	NA	NA	NA	0.000	7.591	0.000	0.009	0.000	0.014
07/30/03	MW-3	3.00	5.2	17,000	60	18	1.182	11.136	0.004	0.021	0.001	0.018
08/05/03	MW-3	3.00	5.3	18,000	84	35	1.275	14.962	0.005	0.037	0.003	0.026
08/19/03	MW-3	3.33	6.1	6,800	12	14	0.554	16.808	0.001	0.040	0.001	0.030

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Total Pounds Removed:	TPHg = 23.266	Benzene = 0.074	MTBE = 0.238
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Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

TPHg, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE)
x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

* = Interval hours of operation estimated.

Table 3. Groundwater Analytical Data - Bioattenuation Parameters - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, California

Well ID	Date	ORP (mV)	DO	Total Alkalinity	Ferrous Iron (Concentrations in mg/L)	Nitrate as Nitrate	Sulfate	Notes
MW-1	07/17/98	---	0.8	460	1.6	<1.0	12	
	07/23/99	---	1.0	480	0.790	7.49	28.6	
	07/26/00	-140	13.2	92.9	<0.0100	7.80	387	
	07/24/01	43	>20	530	<0.10	6.6	35	DO reading off-scale
	07/07/03	16	0.5	(490)	(<0.20)	1.7	19	
MW-2	07/17/98	---	---	---	---	---	---	SPH
	07/23/99	---	1.4	440	26.0	<1.00	3.24	
	07/26/00	113	2.2	26.5	3.74	7.59	399	
	07/24/01	53	0.2	510	0.22	0.35	1.0	
	07/07/03	-17	1.3	(460)	(2.8)	<1.0	<1.0	
MW-3	07/17/98	---	1.3	860	5.3	<1.0	6.5	
	07/17/98	---	1.3	860	5.4	<1.0	5.8	duplicate
	07/23/99	---	1.3	920	76.0	<1.00	4.23	
	07/26/00	-70	0.9	440	4.04	<1.00	355	
	07/24/01	29	0.4	940	<0.10	0.73	3.4	
	07/07/03	-11	1.0	(700)	(4.7)	<1.0	<1.0	
MW-4	07/17/98	---	1.4	630	2.8	<1.0	13	
	07/23/99	---	0.9	620	46.0	7.41	6.03	
	07/26/00	-137	1.4	228	0.223	6.30	372	
	07/24/01	106	0.5	650	0.14	0.91	4.9	
	07/07/03	-3	0.5	(490)	(0.65)	<1.0	4.3	
MW-5	07/07/03	-17	0.3	(360)	(0.66)	8.2	26	
TB-2	07/24/01	-51	0.4	530	<0.10	2.7	1.5	

Table 3. Groundwater Analytical Data - Bioattenuation Parameters - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, California

Well ID	Date	ORP (mV)	DO	Total Alkalinity	Ferrous Iron	Nitrate as Nitrate	Sulfate	Notes
				← (Concentrations in mg/L) →				

Abbreviations & Notes:

ORP = Oxidation reduction potential, measured pre-purge

mV = Millivolts

DO = Dissolved oxygen, measured pre-purge

mg/L = Milligrams per liter

SPH = Separate-phase hydrocarbons in well; not sampled

--- = Not analyzed / Not available

<n = Below detection limit of n mg/L

Total alkalinity by EPA Method 310.2, concentrations in mg CaCO₃/L. Results in parenthesis by EPA Method SM2320B, concentrations in mg CaCO₃/L.

Ferrous iron by EPA Method 200.7. Results in parenthesis analyzed by EPA Method 6010B.

Nitrate as nitrate and sulfate by EPA Method 300.0

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Table 4. Groundwater Analytical Data - Oxygenates - Shell-branded Service Station, Incident #98995758, 4255 MacArthur, Oakland, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol
		(Concentrations in ppb)					
MW-1	04/07/03	12	---	---	---	<5.0	---
	07/07/03	8.1	---	---	---	<5.0	---
MW-2	10/31/01	29,000	<50	<50	<50	51,000	<500
	04/07/03	37,000	---	---	---	34,000	---
	07/07/03	51,000	---	---	---	44,000	---
MW-3	10/31/01	9,800	<20	<20	<20	5,200	<500
	04/07/03	8,200	---	---	---	3,900	---
	07/07/03	7,900	---	---	---	4,700	---
MW-4	04/07/03	1,700	---	---	---	5,900	---
	07/07/03	860	---	---	---	6,900	---
MW-5	04/07/03	77	---	---	---	28	---
	07/07/03	32	---	---	---	23	---

CAMBRIA

Table 4. Groundwater Analytical Data - Oxygenates - Shell-branded Service Station, Incident #98995758, 4255 MacArthur, Oakland, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol
		← (Concentrations in ppb) →					

Abbreviations:

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260

ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260

TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260

TBA = Tert-butyl alcohol, analyzed by EPA Method 8260

Ethanol analyzed by EPA Method 8260

ppb = Parts per billion

--- = not analyzed

ATTACHMENT A

Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES, INC.



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July 23, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Third Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Monitoring performed on July 7, 2003

Groundwater Monitoring Report 030707-SS-2

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	11/17/1993	410	21	11	7.9	47	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	01/20/1994	1,200	180	19	48	47	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	04/25/1994	3,100	610	<10	130	27	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	07/07/1994	2,400	1,000	10	250	20	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/1994	2,200	500	3.1	72	1.8	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	01/13/1995	570	75	2.5	6.7	11	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	04/21/1995	1,800	480	<5.0	79	<5.0	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	07/25/1995	120	15	1.1	2.1	2.9	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	01/17/1996	250	22	0.9	1.6	2.3	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/01/1996	1,200	500	12	57	82	1,900	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	01/22/1997	640	170	4.3	33	33	1,200	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	01/09/1998	970	390	12	48	71	1,200	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	07/17/1998	2,500	750	11	88	67	150	NA	175.79	7.28	NA	168.51	NA	NA	NA
MW-1	10/02/1998	8,000	970	36	270	440	35	NA	175.79	7.77	NA	168.02	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
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MW-1	02/03/1999	210	56	0.82	<0.50	3.2	220	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	07/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	120	111*	175.79	8.51	NA	167.28	NA	1.0	NA
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	NA	175.79	8.30	NA	167.49	NA	1.4	-71
MW-1	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-1	04/17/2000	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	NA	175.79	8.00	NA	167.79	NA	1.8	112
MW-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	NA	175.79	7.52	NA	168.27	NA	13.2	-140
MW-1	10/12/2000	101	40.7	2.68	3.00	5.18	25.0	NA	175.79	7.71	NA	168.08	NA	>20	534
MW-1	01/15/2001	<50.0	0.633	<0.500	0.505	1.74	<2.50	NA	175.79	7.33	NA	168.46	NA	16.9	-127
MW-1	04/09/2001	<50.0	<0.500	<0.500	<0.500	0.927	<2.50	NA	175.79	7.68	NA	168.11	NA	12.8	-117
MW-1	07/24/2001	<50	4.0	0.65	0.53	1.3	NA	<5.0	175.79	8.00	NA	167.79	NA	>20	43
MW-1	10/31/2001	<50	4.4	<0.50	<0.50	0.98	NA	<5.0	175.79	7.94	NA	167.85	NA	13.6	123
MW-1	01/10/2002	<50	2.2	<0.50	<0.50	1.2	NA	6.1	175.79	7.63	NA	168.16	NA	0.1	63
MW-1	04/25/2002	<50	2.0	<0.50	<0.50	<0.50	NA	<5.0	175.79	7.76	NA	168.03	NA	0.3	54
MW-1	07/18/2002	<50	6.1	<0.50	<0.50	0.98	NA	<5.0	175.79	8.29	NA	167.50	NA	1.1	32
MW-1	10/07/2002	500	17	14	11	60	NA	9.0	175.76	8.34	NA	167.42	NA	2.8	-26
MW-1	01/06/2003	<50	12	<0.50	0.73	0.58	NA	14	175.76	7.18	NA	168.58	NA	0.5	-22
MW-1	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	12	175.76	7.75	NA	168.01	NA	0.7	-24
MW-1	07/07/2003	<50	6.6	<0.50	<0.50	<1.0	NA	8.1	175.76	7.75	NA	168.01	NA	0.5	16

MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	07/07/1994	280,000a	40,000	26,000	8,100	32,000	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	07/25/1995	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA
MW-2	01/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA
MW-2	07/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	NA	NA
MW-2	10/01/1996	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA
MW-2	01/22/1997	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	04/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	07/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	01/08/1998	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	NA	170.91	10.05	NA	160.86	NA	NA	NA
MW-2	07/17/1998	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/02/1998	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	07/23/1999	65,800	6,500	4,480	1,960	8,960	46,600	58,500*	170.91	14.45	NA	156.46	NA	1.4	NA
MW-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	01/17/2000	46,000	6,000	2,400	1,500	5,500	50,000	31,000	170.91	11.00	NA	159.91	NA	1.3	-54
MW-2	04/17/2000	96,300	8,150	10,200	2,820	14,900	112,000	108,000	170.91	11.06	NA	159.85	NA	2.6	125
MW-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	170.91	12.82	NA	158.09	NA	2.2	113

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2	10/12/2000	63,200	5,840	4,180	2,310	11,100	61,200	66,600	170.91	11.32	NA	159.59	NA	0.4	55
MW-2	01/15/2001	59,700	2,630	4,800	2,050	11,500	44,400	5,080	170.91	10.19	NA	160.72	NA	1.1	-22
MW-2	04/09/2001	56,900	1,860	2,550	1,810	9,720	40,000	46,600	170.91	11.15	NA	159.76	NA	1.0	-55
MW-2	07/24/2001	84,000	3,000	4,600	2,500	13,000	NA	41,000	170.91	11.67	NA	159.24	NA	0.2	53
MW-2	10/31/2001	45,000	2,200	3,000	1,500	7,700	NA	29,000	170.91	11.04	NA	159.87	NA	1.2	-17
MW-2	01/10/2002	28,000	840	740	760	3,300	NA	32,000	170.91	9.58	NA	161.33	NA	2.1	-76
MW-2	04/25/2002	41,000	1,900	2,000	1,200	6,900	NA	17,000	170.91	11.40	NA	159.51	NA	0.8	-95
MW-2	07/18/2002	87,000	2,000	2,200	1,400	10,000	NA	19,000	170.91	12.68	NA	158.23	NA	0.7	-34
MW-2	10/07/2002	110,000	3,900	6,700	2,700	15,000	NA	20,000	170.88	11.58	NA	159.30	NA	1.4	-52
MW-2	01/06/2003	65,000	2,400	3,500	1,400	8,600	NA	26,000	170.88	9.09	NA	161.79	NA	0.4	40
MW-2	04/07/2003	57,000	1,900	2,500	1,700	8,600	NA	37,000	170.88	11.08	NA	159.80	NA	1.0	60
MW-2	07/07/2003	34,000	4,000	4,200	1,600	8,500	NA	51,000	170.88	11.27	NA	159.61	NA	1.3	-17
MW-3	11/17/1993	18,000	5,400	660	720	2,200	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3 (D)	04/25/1994	78,000	12,000	1,900	2,600	7,300	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	07/07/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/1994	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/1994	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA
MW-3	11/28/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3 (D)	01/13/1995	23,000	4,000	690	960	3,000	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA
MW-3	07/25/1995	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	01/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	07/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/01/1996	46,000	7,300	530	1,700	3,900	3,200	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3 (D)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3	04/08/1997	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	NA	174.61	15.21	NA	159.40	NA	1.3	NA
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	174.61	15.43	NA	159.18	NA	1.5	-68
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950*	174.61	14.95	NA	159.66	NA	1.3	NA
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	174.61	14.66	NA	159.95	NA	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	NA	174.61	13.94	NA	160.67	NA	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	NA	174.61	14.00	NA	160.61	NA	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	NA	174.61	13.72	NA	160.89	NA	0.9	-70
MW-3	10/12/2000	14,300	2,630	86.7	241	1,360	16,300	NA	174.61	14.15	NA	160.46	NA	0.9	50
MW-3	01/15/2001	22,100	4,400	266	977	2,990	13,200	NA	174.61	13.05	NA	161.56	NA	1.3	-40
MW-3	04/09/2001	33,800	7,100	147	1,700	2,660	13,000	NA	174.61	13.59	NA	161.02	NA	0.6	-56

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	07/24/2001	220,000	5,600	1,900	4,400	19,000	NA	12,000	174.61	14.43	NA	160.18	NA	0.4	29
MW-3	10/31/2001	65,000	2,700	510	1,800	7,200	NA	9,800	174.61	14.59	NA	160.02	NA	0.9	-27
MW-3	01/10/2002	66,000	2,400	490	1,700	6,600	NA	5,500	174.61	12.65	NA	161.96	NA	1.7	-76
MW-3	04/25/2002	55,000	4,600	460	2,400	6,900	NA	8,100	174.61	14.13	NA	160.48	NA	1.2	-96
MW-3	07/18/2002	56,000	3,300	270	1,700	5,000	NA	8,400	174.61	15.48	15.45	159.15	0.03	0.8	-41
MW-3	10/07/2002	NA	NA	NA	NA	NA	NA	NA	174.59	14.60	14.40	160.15	0.20	NA	NA
MW-3	01/06/2003	57,000	3,200	330	1,800	5,400	NA	5,100	174.59	11.62	11.60	162.99	0.02	0.4	33
MW-3	04/07/2003	57,000	6,200	500	2,400	6,700	NA	8,200	174.59	13.80	NA	160.79	NA	0.5	61
MW-3	07/07/2003	28,000	4,900	300	1,500	4,100	NA	7,900	174.59	14.00	NA	160.59	NA	1.0	-11
MW-4	11/17/1994	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA
MW-4	11/28/1994	2,900	200	17	76	260	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	01/13/1995	1,900	130	5.6	13	40	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA
MW-4	04/12/1995	680	150	<2.0	10	13	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	07/25/1995	340	100	0.8	8.8	3	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/1995	150	31	<0.5	3.5	0.8	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	01/17/1996	290	14	<0.5	1.8	0.8	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	04/25/1996	<500	65	<5	<5	<5	1,700	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	04/25/1996	<500	66	<5	8.7	<5	1,500	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	NA	164.06	7.51	NA	156.55	NA	NA	NA
MW-4	04/08/1997	770	200	7	26	55	1,500	8	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	Depth to SPH (ft)	GW Elevation (MSL)	SPH Thickness (ft)	DO Reading (ppm)	ORP Reading (mV)
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	NA	164.06	7.90	NA	156.16	NA	NA	NA
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	02/03/1999	560	120	2.5	29	34	6,800	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000*	164.06	11.33	NA	152.73	NA	0.9	NA
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	NA	164.06	10.66	NA	153.40	NA	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	NA	164.06	10.15	NA	153.91	NA	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	NA	164.06	10.10	NA	153.96	NA	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	NA	164.06	10.09	NA	153.97	NA	1.4	-137
MW-4	10/12/2000	172	19.8	<0.500	7.47	4.50	8,290	NA	164.06	9.35	NA	154.71	NA	3.5	529
MW-4	01/15/2001	53.6	1.50	<0.500	2.45	1.80	9,260	NA	164.06	8.77	NA	155.29	NA	2.3	53
MW-4	04/09/2001	<500	<5.00	<5.00	<5.00	5.52	10,300	NA	164.06	7.75	NA	156.31	NA	1.0	-133
MW-4	07/24/2001	58	3.8	<0.50	3.2	2.9	NA	1,700	164.06	10.07	NA	153.99	NA	0.5	106
MW-4	10/31/2001	<1,000	<10	<10	<10	<10	NA	7,400	164.06	9.97	NA	154.09	NA	0.8	22
MW-4	01/10/2002	<2,000	<20	<20	<20	<20	NA	12,000	164.06	8.53	NA	155.53	NA	8.9	224
MW-4	04/25/2002	<2,000	<20	<20	<20	<20	NA	7,900	164.06	7.33	NA	156.73	NA	3.6	-84
MW-4	07/18/2002	<2,000	<20	<20	<20	<20	NA	7,200	164.06	9.05	NA	155.01	NA	1.7	120
MW-4	10/07/2002	<1,000	<10	<10	<10	<10	NA	3,300	164.03	9.06	NA	154.97	NA	2.5	33
MW-4	01/06/2003	<500	21	<5.0	<5.0	<5.0	NA	2,500	164.03	7.09	NA	156.94	NA	0.5	55
MW-4	04/07/2003	<2,500	<25	<25	<25	<50	NA	1,700	164.03	8.26	NA	155.77	NA	1.2	69
MW-4	07/07/2003	<2,500	<25	<25	<25	<50	NA	860	164.03	8.92	NA	155.11	NA	0.5	-3
MW-5	01/04/2002	NA	NA	NA	NA	NA	NA	NA	NA	5.62	NA	NA	NA	NA	NA
MW-5	01/10/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	164.06	5.88	NA	158.18	NA	3.3	172

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft)	DO Reading (ppm)	ORP Reading (mV)
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MW-5	04/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	73	164.06	6.81	NA	157.25	NA	0.3	-44
MW-5	07/18/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	75	164.06	7.38	NA	156.68	NA	0.4	170
MW-5	10/07/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	41	164.14	6.75	NA	157.39	NA	1.5	16
MW-5	01/06/2003	<50	<0.50	<0.50	<0.50	<0.50	NA	81	164.14	5.96	NA	158.18	NA	0.6	166
MW-5	04/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	77	164.14	6.51	NA	157.63	NA	0.8	174
MW-5	07/07/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	32	164.14	6.44	NA	157.70	NA	0.3	-17

TB-1	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	3.8	-132
TB-1	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.65	NA	NA	NA	0.2	-165
TB-1	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.72	NA	NA	NA	0.8	-178
TB-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.65	NA	NA	NA	0.5	-152
TB-1	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.13	NA	NA	NA	1.0	-124
TB-1	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.20	NA	NA	NA	0.7	-73
TB-1	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	5.09	NA	NA	NA	1.2	-118
TB-1	04/09/2001	NA	NA	NA	NA	NA	NA	NA	NA	4.96	NA	NA	NA	1.0	-72
TB-1	07/24/2001	NA	NA	NA	NA	NA	NA	NA	NA	6.03	NA	NA	NA	1.4	31
TB-1	10/31/2001	1,000	85	<10	<10	42	NA	4,100	NA	5.89	NA	NA	NA	1.8	88
TB-1	01/10/2002	5,000	410	390	65	620	NA	9,000	NA	7.47	NA	NA	NA	2.0	95
TB-1	04/25/2002	5,000	780	60	49	91	NA	6,000	NA	11.71	NA	NA	NA	1.7	-136
TB-1	07/18/2002	Insufficient water		NA	NA	NA	NA	NA	NA	13.50	NA	NA	NA	NA	NA
TB-1	10/07/2002	4,600	480	36	98	200	NA	4,000	NA	12.95	NA	NA	NA	1.6	-48
TB-1	01/06/2003	130	30	<0.50	<0.50	0.78	NA	330	NA	5.56	NA	NA	NA	0.4	-20

TB-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	4.76	NA	NA	NA	4.2	-108
TB-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.33	NA	NA	NA	0.5	-148
TB-2	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.79	NA	NA	NA	0.7	-162
TB-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.75	NA	NA	NA	0.9	-121

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
TB-2	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.73	NA	NA	NA	0.9	-85
TB-2	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.05	NA	NA	NA	0.6	-47
TB-2	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.87	NA	NA	NA	0.7	-91
TB-2	04/09/2001	46,600	1,240	1,310	1,110	12,100	31,300	NA	NA	3.76	NA	NA	NA	0.8	-24
TB-2	07/24/2001	11,000	630	<25	310	200	NA	11,000	NA	4.75	NA	NA	NA	0.4	-51
TB-2	10/31/2001	7,500	530	1,500	100	500	NA	2,500	NA	4.24	NA	NA	NA	0.6	-7
TB-2	01/10/2002	<5,000	480	47	34	110	NA	12,000	NA	6.26	NA	NA	NA	1.3	-81
TB-2	04/25/2002	4,700	470	140	<20	80	NA	7,400	NA	11.78	NA	NA	NA	0.9	-107
TB-2	07/18/2002	7,500	630	650	<25	390	NA	44,000	NA	12.34	NA	NA	NA	0.9	-67
TB-2	10/07/2002	<10,000	580	<100	<100	180	NA	30,000	NA	11.62	NA	NA	NA	1.0	-41
TB-2	01/06/2003	120	4.8	<0.50	<0.50	2.0	NA	220	NA	4.35	NA	NA	NA	0.5	-515

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 24, 2001, analyzed by EPA Method 8020.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

DO = Dissolved Oxygens

ppm = Parts per million

ORP = Oxidation Reduction Potential

mV = Millivolts

Notes:

* = Sample analyzed outside the EPA recommended holding time.

a = Ground water surface had a sheen when sampled.

b = MTBE value is estimated by Sequoia Analytical of Redwood City, California.

Site surveyed March 14, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:

Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

Blaine Tech Services, Inc.

July 20, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105
Attn.: Leon Gearhart
Project#: 030707-SS1
Project: 98995758
Site: 4255 MacArthur Boulevard, Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 07/07/2003 16:00
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
08/21/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/07/2003 12:05	Water	1
MW-2	07/07/2003 13:00	Water	2
MW-3	07/07/2003 12:35	Water	3
MW-4	07/07/2003 13:34	Water	4
MW-5	07/07/2003 13:52	Water	5

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2003-07-0207 - 1
Sampled:	07/07/2003 12:05	Extracted:	7/16/2003 22:35
Matrix:	Water	QC Batch#:	2003/07/16-1F.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/16/2003 22:35	
Benzene	6.6	0.50	ug/L	1.00	07/16/2003 22:35	
Toluene	ND	0.50	ug/L	1.00	07/16/2003 22:35	
Ethylbenzene	ND	0.50	ug/L	1.00	07/16/2003 22:35	
Total xylenes	ND	1.0	ug/L	1.00	07/16/2003 22:35	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/16/2003 22:35	
Methyl tert-butyl ether (MTBE)	8.1	0.50	ug/L	1.00	07/16/2003 22:35	
Surrogates(s)						
1,2-Dichloroethane-d4	92.1	76-130	%	1.00	07/16/2003 22:35	
Toluene-d8	102.7	78-115	%	1.00	07/16/2003 22:35	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2003-07-0207 - 2
Sampled: 07/07/2003 13:00	Extracted: 7/16/2003 22:57
Matrix: Water	QC Batch#: 2003/07/16-1H.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	34000	25000	ug/L	500.00	07/16/2003 22:57	
Benzene	4000	250	ug/L	500.00	07/16/2003 22:57	
Toluene	4200	250	ug/L	500.00	07/16/2003 22:57	
Ethylbenzene	1600	250	ug/L	500.00	07/16/2003 22:57	
Total xylenes	8500	500	ug/L	500.00	07/16/2003 22:57	
tert-Butyl alcohol (TBA)	44000	2500	ug/L	500.00	07/16/2003 22:57	
Methyl tert-butyl ether (MTBE)	51000	250	ug/L	500.00	07/16/2003 22:57	
Surrogates(s)						
1,2-Dichloroethane-d4	100.9	76-130	%	500.00	07/16/2003 22:57	
Toluene-d8	106.5	78-115	%	500.00	07/16/2003 22:57	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-3	Lab ID: 2003-07-0207 - 3
Sampled: 07/07/2003 12:35	Extracted: 7/17/2003 00:27
Matrix: Water	QC Batch#: 2003/07/16-2A.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	28000	10000	ug/L	200.00	07/17/2003 00:27	
Benzene	4900	100	ug/L	200.00	07/17/2003 00:27	
Toluene	300	100	ug/L	200.00	07/17/2003 00:27	
Ethylbenzene	1500	100	ug/L	200.00	07/17/2003 00:27	
Total xylenes	4100	200	ug/L	200.00	07/17/2003 00:27	
tert-Butyl alcohol (TBA)	4700	1000	ug/L	200.00	07/17/2003 00:27	
Methyl tert-butyl ether (MTBE)	7900	100	ug/L	200.00	07/17/2003 00:27	
Surrogates(s)						
1,2-Dichloroethane-d4	111.1	76-130	%	200.00	07/17/2003 00:27	
Toluene-d8	103.8	78-115	%	200.00	07/17/2003 00:27	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-07-0207 - 4
Sampled:	07/07/2003 13:34	Extracted:	7/17/2003 00:49
Matrix:	Water	QC Batch#:	2003/07/16-2A.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2500	ug/L	50.00	07/17/2003 00:49	
Benzene	ND	25	ug/L	50.00	07/17/2003 00:49	
Toluene	ND	25	ug/L	50.00	07/17/2003 00:49	
Ethylbenzene	ND	25	ug/L	50.00	07/17/2003 00:49	
Total xylenes	ND	50	ug/L	50.00	07/17/2003 00:49	
tert-Butyl alcohol (TBA)	6900	250	ug/L	50.00	07/17/2003 00:49	
Methyl tert-butyl ether (MTBE)	860	25	ug/L	50.00	07/17/2003 00:49	
Surrogates(s)						
1,2-Dichloroethane-d4	111.7	76-130	%	50.00	07/17/2003 00:49	
Toluene-d8	105.3	78-115	%	50.00	07/17/2003 00:49	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-5	Lab ID:	2003-07-0207 - 5
Sampled:	07/07/2003 13:52	Extracted:	7/17/2003 01:11
Matrix:	Water	QC Batch#:	2003/07/16-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2003 01:11	
Benzene	ND	0.50	ug/L	1.00	07/17/2003 01:11	
Toluene	ND	0.50	ug/L	1.00	07/17/2003 01:11	
Ethylbenzene	ND	0.50	ug/L	1.00	07/17/2003 01:11	
Total xylenes	ND	1.0	ug/L	1.00	07/17/2003 01:11	
tert-Butyl alcohol (TBA)	23	5.0	ug/L	1.00	07/17/2003 01:11	
Methyl tert-butyl ether (MTBE)	32	0.50	ug/L	1.00	07/17/2003 01:11	
Surrogates(s)						
1,2-Dichloroethane-d4	125.6	76-130	%	1.00	07/17/2003 01:11	
Toluene-d8	103.8	78-115	%	1.00	07/17/2003 01:11	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report					
Prep(s) 5030B			Test(s) 8260FAB		
Method Blank			Water		
MB: 2003/07/16-1F.65-045			QC Batch # 2003/07/16-1F.65		
			Date Extracted: 07/16/2003 10:45		
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/16/2003 10:45	
Gasoline	ND	50	ug/L	07/16/2003 10:45	
Benzene	ND	0.5	ug/L	07/16/2003 10:45	
Toluene	ND	0.5	ug/L	07/16/2003 10:45	
Ethylbenzene	ND	0.5	ug/L	07/16/2003 10:45	
Total xylenes	ND	1.0	ug/L	07/16/2003 10:45	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/16/2003 10:45	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/16/2003 10:45	
Surrogates(s)					
1,2-Dichloroethane-d4	93.9	76-130	%	07/16/2003 10:45	
Toluene-d8	104.0	78-115	%	07/16/2003 10:45	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/07/16-1H.65	
MB: 2003/07/16-1H.65-045				Date Extracted: 07/16/2003 10:45	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/16/2003 10:45	
Gasoline	ND	50	ug/L	07/16/2003 10:45	
Benzene	ND	0.5	ug/L	07/16/2003 10:45	
Toluene	ND	0.5	ug/L	07/16/2003 10:45	
Ethylbenzene	ND	0.5	ug/L	07/16/2003 10:45	
Total xylenes	ND	1.0	ug/L	07/16/2003 10:45	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/16/2003 10:45	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/16/2003 10:45	
Surrogates(s)					
1,2-Dichloroethane-d4	93.9	76-130	%	07/16/2003 10:45	
Toluene-d8	104.0	78-115	%	07/16/2003 10:45	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/07/16-2A.65	
MB: 2003/07/16-2A.65-004				Date Extracted: 07/17/2003 00:04	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/17/2003 00:04	
Benzene	ND	0.5	ug/L	07/17/2003 00:04	
Toluene	ND	0.5	ug/L	07/17/2003 00:04	
Ethylbenzene	ND	0.5	ug/L	07/17/2003 00:04	
Total xylenes	ND	1.0	ug/L	07/17/2003 00:04	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/17/2003 00:04	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/17/2003 00:04	
Surrogates(s)					
1,2-Dichloroethane-d4	92.8	76-130	%	07/17/2003 00:04	
Toluene-d8	104.3	78-115	%	07/17/2003 00:04	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/07/16-1F.65				
LCS	2003/07/16-1F.65-000		Extracted: 07/16/2003			Analyzed: 07/16/2003 10:00				
LCSD	2003/07/16-1F.65-022		Extracted: 07/16/2003			Analyzed: 07/16/2003 10:22				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.8	27.6	25	103.2	110.4	6.7	69-129	20		
Toluene	26.6	27.2	25	106.4	108.8	2.2	70-130	20		
Methyl tert-butyl ether (MTBE)	23.6	24.0	25	94.4	96.0	1.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	499	482	500	99.8	96.4		76-130			
Toluene-d8	521	505	500	104.2	101.0		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report										
Prep(s): 5030B							Test(s): 8260FAB			
Laboratory Control Spike				Water			QC Batch # 2003/07/16-1H.65			
LCS	2003/07/16-1H.65-000			Extracted: 07/16/2003			Analyzed: 07/16/2003 10:00			
LCSD	2003/07/16-1H.65-022			Extracted: 07/16/2003			Analyzed: 07/16/2003 10:22			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.8	27.6	25	103.2	110.4	6.7	69-129	20		
Toluene	26.6	27.2	25	106.4	108.8	2.2	70-130	20		
Methyl tert-butyl ether (MTBE)	23.6	24.0	25	94.4	96.0	1.7	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	499	482	500	99.8	96.4		76-130			
Toluene-d8	521	505	500	104.2	101.0		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report										
Prep(s): 5030B					Test(s): 8260FAB					
Laboratory Control Spike			Water			QC Batch # 2003/07/16-2A.65				
LCS	2003/07/16-2A.65-019		Extracted: 07/16/2003			Analyzed: 07/16/2003 23:19				
LCSD	2003/07/16-2A.65-042		Extracted: 07/16/2003			Analyzed: 07/16/2003 23:42				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	26.1	23.7	25	104.4	94.8	9.6	69-129	20		
Toluene	27.0	25.0	25	108.0	100.0	7.7	70-130	20		
Methyl tert-butyl ether (MTBE)	22.3	22.2	25	89.2	88.8	0.4	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	468	501	500	93.6	100.2		76-130			
Toluene-d8	506	524	500	101.2	104.8		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Dissolved Metals

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/07/2003 12:05	Water	1
MW-2	07/07/2003 13:00	Water	2
MW-3	07/07/2003 12:35	Water	3
MW-4	07/07/2003 13:34	Water	4
MW-5	07/07/2003 13:52	Water	5

Dissolved Metals

Blaine Tech Services, Inc.

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1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	3005A	Test(s):	6010B
Sample ID:	MW-1	Lab ID:	2003-07-0207 - 1
Sampled:	07/07/2003 12:05	Extracted:	7/11/2003 18:12
Matrix:	Water	QC Batch#:	2003/07/11-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	07/14/2003 08:40	

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

07/18/2003 09:35

Dissolved Metals

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 3005A	Test(s): 6010B
Sample ID: MW-2	Lab ID: 2003-07-0207 - 2
Sampled: 07/07/2003 13:00	Extracted: 7/11/2003 18:12
Matrix: Water	QC Batch#: 2003/07/11-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	2.8	0.20	mg/L	1.00	07/14/2003 08:52	

Dissolved Metals

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 3005A	Test(s): 6010B
Sample ID: MW-3	Lab ID: 2003-07-0207-3
Sampled: 07/07/2003 12:35	Extracted: 7/11/2003 18:12
Matrix: Water	QC Batch#: 2003/07/11-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	4.7	0.20	mg/L	1.00	07/14/2003 08:57	

Dissolved Metals

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 3005A	Test(s): 6010B
Sample ID: MW-4	Lab ID: 2003-07-0207 - 4
Sampled: 07/07/2003 13:34	Extracted: 7/11/2003 18:12
Matrix: Water	QC Batch#: 2003/07/11-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	0.65	0.20	mg/L	1.00	07/14/2003 09:01	

Dissolved Metals

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 3005A	Test(s): 6010B
Sample ID: MW-5	Lab ID: 2003-07-0207 - 5
Sampled: 07/07/2003 13:52	Extracted: 7/11/2003 18:12
Matrix: Water	QC Batch#: 2003/07/11-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	0.66	0.20	mg/L	1.00	07/14/2003 09:22	

Dissolved Metals

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report					
Prep(s): 3005A		Water		Test(s): 6010B	
Method Blank				QC Batch # 2003/07/11-01.15	
MB: 2003/07/11-01.15-011				Date Extracted: 07/11/2003 18:12	
Compound	Conc.	RL	Unit	Analyzed	Flag
Iron	ND	0.20	mg/L	07/14/2003 07:23	

Dissolved Metals

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report										
Prep(s): 3010A						Test(s): 6010B				
Laboratory Control Spike				Water			QC Batch # 2003/07/11-01.15			
LCS	2003/07/11-01.15-030			Extracted: 07/11/2003			Analyzed: 07/14/2003 07:27			
LCSD	2003/07/11-01.15-013			Extracted: 07/11/2003			Analyzed: 07/14/2003 07:31			
Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Iron	4.93	5.10	5.00	98.6	102.0	3.4	80-120	20		

Dissolved Metals

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report			
Prep(s): 3005A	Test(s): 6010B		
Matrix Spike (MS / MSD)	Water	QC Batch # 2003/07/11-01.15	
MW-1 >> MS		Lab ID:	2003-07-0207 - 001
MS: 2003/07/11-01.15-028	Extracted: 07/11/2003	Analyzed:	07/14/2003 08:44
		Dilution:	1.00
MSD: 2003/07/11-01.15-029	Extracted: 07/11/2003	Analyzed:	07/14/2003 08:48
		Dilution:	1.00

Compound	Conc. mg/L			Spk.Level mg/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Iron	4.84	4.94	ND	5.00	96.8	98.8	2.0	75-125	20		

Misc Anions by Ion Chromatograph

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/07/2003 12:05	Water	1
MW-2	07/07/2003 13:00	Water	2
MW-3	07/07/2003 12:35	Water	3
MW-4	07/07/2003 13:34	Water	4
MW-5	07/07/2003 13:52	Water	5

Misc Anions by Ion Chromatograph

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 300.0/9056	Test(s): 300.0/9056
Sample ID: MW-1	Lab ID: 2003-07-0207 - 1
Sampled: 07/07/2003 12:05	Extracted: 7/8/2003 00:00
Matrix: Water	QC Batch#: 2003/07/08-01-41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	1.7	1.0	mg/L	1.00	07/08/2003	
Sulfate	19	1.0	mg/L	1.00	07/08/2003	

Misc Anions by Ion Chromatograph

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98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s): 300.0/9056	Test(s): 300.0/9056
Sample ID: MW-2	Lab ID: 2003-07-0207 - 2
Sampled: 07/07/2003 13:00	Extracted: 7/8/2003 00:00
Matrix: Water	QC Batch#: 2003/07/08-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	07/08/2003	
Sulfate	ND	1.0	mg/L	1.00	07/08/2003	

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Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	MW-3	Lab ID:	2003-07-0207 - 3
Sampled:	07/07/2003 12:35	Extracted:	7/8/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/08-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	07/08/2003	
Sulfate	ND	1.0	mg/L	1.00	07/08/2003	

Misc Anions by Ion Chromatograph

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	MW-4	Lab ID:	2003-07-0207 - 4
Sampled:	07/07/2003 13:34	Extracted:	7/8/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/08-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	07/08/2003	
Sulfate	4.3	1.0	mg/L	1.00	07/08/2003	

Misc Anions by Ion Chromatograph

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	MW-5	Lab ID:	2003-07-0207 - 5
Sampled:	07/07/2003 13:52	Extracted:	7/8/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/08-01.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	8.2	1.0	mg/L	1.00	07/08/2003	
Sulfate	26	1.0	mg/L	1.00	07/08/2003	

Misc Anions by Ion Chromatograph

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Received: 07/07/2003 16:00

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Batch QC Report					
Prep(s): 300.0/9056		Test(s): 300.0/9056			
Method Blank		Water		QC Batch # 2003/07/08-01.41	
MB: 2003/07/08-01.41-001		Date Extracted: 07/08/2003			
Compound	Conc.	RL	Unit	Analyzed	Flag
Nitrate	ND	1.0	mg/L	07/08/2003	
Sulfate	ND	1.0	mg/L	07/08/2003	

Misc Anions by Ion Chromatograph

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Batch QC Report										
Prep(s): 300.0/9056						Test(s): 300.0/9056				
Laboratory Control Spike				Water			QC Batch # 2003/07/08-01.41			
LCS	2003/07/08-01.41-002			Extracted: 07/08/2003			Analyzed: 07/08/2003			
LCSD	2003/07/08-01.41-003			Extracted: 07/08/2003			Analyzed: 07/08/2003			
Compound	Conc. mg/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Nitrate	19.4	19.4	20.0	97.0	97.0	0.0	80-120	20		
Sulfate	19.8	19.5	20.0	99.0	97.5	1.5	80-120	20		

Misc Anions by Ion Chromatograph

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Batch QC Report			
Prep(s):	300.0/9056	Test(s):	300.0/9056
Matrix Spike (MS / MSD)	Water	QC Batch # 2003/07/08-01.41	
MW-5 >> MS		Lab ID:	2003-07-0207 - 005
MS: 2003/07/08-01.41-004	Extracted: 07/08/2003	Analyzed:	07/08/2003
		Dilution:	1.00
MSD: 2003/07/08-01.41-005	Extracted: 07/08/2003	Analyzed:	07/08/2003
		Dilution:	1.00

Compound	Conc. mg/L			Spk.Level mg/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Nitrate	27.4	27.5	8.16	20.0	96.2	96.7	0.5	80-120	20		
Sulfate	46.7	46.6	25.5	20.0	106.0	105.5	0.5	80-120	20		

Alkalinity (Total)

Blaine Tech Services, Inc.

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Project: 030707-SS1

98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	07/07/2003 12:05	Water	1
MW-2	07/07/2003 13:00	Water	2
MW-3	07/07/2003 12:35	Water	3
MW-4	07/07/2003 13:34	Water	4
MW-5	07/07/2003 13:52	Water	5

Alkalinity (Total)

Blaine Tech Services, Inc.

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Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	SM2320B	Test(s):	SM2320B
Sample ID:	MW-1	Lab ID:	2003-07-0207 - 1
Sampled:	07/07/2003 12:05	Extracted:	7/17/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/17-01.58

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Alkalinity, Carbonate (as CaCO3)	ND	5.0	mg/L	1.00	07/17/2003	
Alkalinity, Bicarbonate (as CaCO3)	490	5.0	mg/L	1.00	07/17/2003	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	mg/L	1.00	07/17/2003	
Alkalinity (Total)	490	5.0	mg/L	1.00	07/17/2003	

Alkalinity (Total)

Blaine Tech Services, Inc.

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98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	SM2320B	Test(s):	SM2320B
Sample ID:	MW-2	Lab ID:	2003-07-0207 - 2
Sampled:	07/07/2003 13:00	Extracted:	7/17/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/17-01.58

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Alkalinity, Carbonate (as CaCO3)	ND	5.0	mg/L	1.00	07/17/7200	
Alkalinity, Bicarbonate (as CaCO3)	460	5.0	mg/L	1.00	07/17/7200	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	mg/L	1.00	07/17/7200	
Alkalinity (Total)	460	5.0	mg/L	1.00	07/17/7200	

Alkalinity (Total)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	SM2320B	Test(s):	SM2320B
Sample ID:	MW-3	Lab ID:	2003-07-0207 - 3
Sampled:	07/07/2003 12:35	Extracted:	7/17/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/17-01.58

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Alkalinity, Carbonate (as CaCO3)	ND	5.0	mg/L	1.00	07/17/7200	
Alkalinity, Bicarbonate (as CaCO3)	700	5.0	mg/L	1.00	07/17/7200	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	mg/L	1.00	07/17/7200	
Alkalinity (Total)	700	5.0	mg/L	1.00	07/17/7200	

Alkalinity (Total)

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	SM2320B	Test(s):	SM2320B
Sample ID:	MW-4	Lab ID:	2003-07-0207 - 4
Sampled:	07/07/2003 13:34	Extracted:	7/17/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/17-01.58

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Alkalinity, Carbonate (as CaCO3)	ND	5.0	mg/L	1.00	07/17/7200	
Alkalinity, Bicarbonate (as CaCO3)	490	5.0	mg/L	1.00	07/17/7200	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	mg/L	1.00	07/17/7200	
Alkalinity (Total)	490	5.0	mg/L	1.00	07/17/7200	

Alkalinity (Total)

Blaine Tech Services, Inc.

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Prep(s):	SM2320B	Test(s):	SM2320B
Sample ID:	MW-5	Lab ID:	2003-07-0207 - 5
Sampled:	07/07/2003 13:52	Extracted:	7/17/2003 00:00
Matrix:	Water	QC Batch#:	2003/07/17-01.58

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Alkalinity, Carbonate (as CaCO3)	ND	5.0	mg/L	1.00	07/17/2003	
Alkalinity, Bicarbonate (as CaCO3)	360	5.0	mg/L	1.00	07/17/2003	
Alkalinity, Hydroxide (as CaCO3)	ND	5.0	mg/L	1.00	07/17/2003	
Alkalinity (Total)	360	5.0	mg/L	1.00	07/17/2003	

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

07/18/2003 06:44

Alkalinity (Total)

Blaine Tech Services, Inc.
Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report					
Prep(s): SM2320B		Test(s): SM2320B			
Method Blank		Water		QC Batch # 2003/07/17-01.58	
MB: 2003/07/17-01.58-001		Date Extracted: 07/16/2003			
Compound	Conc.	RL	Unit	Analyzed	Flag
Alkalinity (Total)	ND	5.0	mg/L	07/17/2003	

Alkalinity (Total)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030707-SS1
98995758

Received: 07/07/2003 16:00

Site: 4255 MacArthur Boulevard, Oakland

Batch QC Report										
Prep(s): SM2320B						Test(s): SM2320B				
Laboratory Control Spike				Water			QC Batch # 2003/07/17-01.58			
LCS	2003/07/17-01.58-002			Extracted: 07/16/2003			Analyzed: 07/16/2003			
LCSD	2003/07/17-01.58-003			Extracted: 07/16/2003			Analyzed: 07/16/2003			
Compound	Conc. mg/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Alkalinity (Total)	2270	2330	2500	90.8	93.2	2.6	80-120	20		

Lab Identification (if necessary)

Address:

City, State, Zip:

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 8

SAP or CRMT NUMBER (TS/CRMT)

DATE: 7/7/03

PAGE: 1 of 1

Blaine Tech Services
 1680 Rogers Avenue, San Jose, CA 95112
 Leon Gearhart
 408-573-0555
 408-573-7771
 gearhart@blainetech.com

LOG CODE: BTSS

SITE ADDRESS (Street and City): 4255 MacArthur Boulevard, Oakland

GLOBAL ID NO: T0600101261

EDP DELIVERABLE TO (Precedence Party or Language): Annal Kroml (510)420-3335 ShellOaklandEDF@cambria-env.com

COMBIA PART PROJECT NO: BTS # 030707-551

LAB USE ONLY

SUCTION SWB

TURNAROUND TIME (BUSINESS DAYS)
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT LIST AGENCY

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EOD IS NOT NEEDED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (821B - 5ppb RL)	MTBE (8280B - 0.5ppb RL)	Oxygenates (5) by (8280B)	Ethanol (8280B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable: (8015m)	Total Alkalinity	Ferrous Iron (Field Filtered)	Nitrate as Nitrate	Sulfate	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
		DATE	TIME																		
	MW-1	7/7/03	1205	GW	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5.6°C
	MW-2		1300			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	MW-3		1235			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	MW-4		1329			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	MW-5		1352			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Released by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i>	07-07-03	1600
Released by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i>	07-07-03	1700
Released by: (Signature)	Received by: (Signature)	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i>	7/7/03	1700

WELL GAUGING DATA

Project # 030707-SS2 Date 7/7/03 Client SHELL 98995758

Site 4255 MACARTHUR BLVD. OAKLAND, CA.

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4					7.75	23.32	↓
* MW-2	4	NO SPA DETECTED				11.27	19.71	
* MW-3	4	NO SPA DETECTED				14.00	21.94	
MW-4	2					8.92	30.50	
MW-5	2					6.44	19.96	
* GAUGED W/ STINGER W WELL								

SHELL WELL MONITORING DATA SHEET

BTS #: 030707-882	Site: 98995758
Sampler: SDOCA	Date: 7/7/03
Well I.D.: MW-1	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): 23.32	Depth to Water (DTW): 7.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.86	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing

Other: _____

<u>10</u> (Gals.) X	<u>3</u>	<u>= 30</u> Gals.	
1 Case Volume	Specified Volumes	Calculated Volume	

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or <u>μS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1155	65.6	7.2	999	5	10	CLEAR / GALS. 10.00 WELL DEWATERED @ 5 gal. DTW = 20.70
1205	65.8	7.3	1136	11	—	CLEAR

Did well dewater? (Yes) No Gallons actually evacuated: 5

Sampling Date: 7/7/03 Sampling Time: 1205 Depth to Water: 10.85

Sample I.D.: MW-1 Laboratory: (STL) Other _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: TBA D.L.S.Z.N. ALKALINITY, SULFATE, NITRATE

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): FEPPMS IRON

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	<u>(Pre-purge):</u>	<u>0.5</u> mg/L	<u>(Post-purge):</u>	mg/L
O.R.P. (if req'd):	<u>(Pre-purge):</u>	<u>16</u> mV	<u>(Post-purge):</u>	mV

SHELL WELL MONITORING DATA SHEET

BTS #: <u>030707-SS2</u>	Site: <u>95995758</u>
Sampler: <u>SOOCH</u>	Date: <u>7/7/03</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth (TD): <u>21.94</u>	Depth to Water (DTW): <u>14.00</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>15.59</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$\frac{5.2 \text{ (Gals.)} \times 3}{1 \text{ Case Volume Specified Volumes}} = \frac{15.6 \text{ Gals.}}{\text{Calculated Volume}}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1221	67.7	6.6	1302	158	5.5	<u>STERN/GAS ODOR</u>
WELL DEWATERED @			5.5 gal.			DTW = 19.05
1235	68.0	6.6	1341	77	—	<u>STERN/GAS ODOR</u>

Did well dewater? <u>Yes</u> No	Gallons actually evacuated: <u>5.5</u>
Sampling Date: <u>7/7/03</u>	Sampling Time: <u>1235</u> Depth to Water: <u>15.59</u>
Sample I.D.: <u>MW-3</u>	Laboratory: <u>(STL)</u> Other _____
Analyzed for: <u>(TPH-G BTEX MTBE)</u> TPH-D	Other: <u>TBA BY 8260 ALKALINITY, SULFATE, NITRATE</u>
EB I.D. (if applicable): @ _____	Duplicate I.D. (if applicable): <u>FERRUS IRON</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____
D.O. (if req'd): <u>Pre-purge:</u> <u>1.0</u> mg/L	<u>Post-purge:</u> _____ mg/L
O.R.P. (if req'd): <u>Pre-purge:</u> <u>-11</u> mV	<u>Post-purge:</u> _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030707-SSZ	Site: 98995758
Sampler: SDOCA	Date: 7/7/03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 30.50 30.50	Depth to Water (DTW): 8.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.24	

Purge Method: Bailer Waterra Sampling Method: Bailer
 (Disposable Bailer) Peristaltic Disposable Bailer
 Middletown Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

$3.5 \text{ (Gals.)} \times 3 = 10.5 \text{ Gals.}$ 1 Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1320	69.7	6.7	1062	>200	3.5	TURBID
1324	68.9	6.7	1076	>200	7.0	"
1328	69.0	6.7	1064	>200	10.5	"

Did well dewater? Yes No Gallons actually evacuated: 10.5

Sampling Date: 7/7/03 Sampling Time: 1334 Depth to Water: 9.31

Sample I.D.: MW-4 Laboratory: (STL) Other _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: TBA PH 8260 ALKALINITY, SULFATE, NITRATE

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): FERROUS IRON

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd): <u>Pre-purge:</u> 0.5 mg/L	<u>Post-purge:</u> _____ mg/L
O.R.P. (if req'd): <u>Pre-purge:</u> -3 mV	<u>Post-purge:</u> _____ mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030707-552	Site: 92995758
Sampler: S006A	Date: 7/7/03
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8
Total Well Depth (TD): 19.96	Depth to Water (DTW): 6.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.14	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

$2.2 \text{ (Gals.)} \times 3 = 6.6 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														
I Case Volume	Specified Volumes	Calculated Volume															

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	Gals. Removed	Observations
1345	67.1	7.0	741	>200	2.2	TURBID
1347	66.5	6.9	715	>200	4.4	"
1349	66.4	6.9	699	>200	6.6	"

Did well dewater? Yes No Gallons actually evacuated: 6.6

Sampling Date: 7/7/03 Sampling Time: 1352 Depth to Water: 10.15 @ SITE DEPTH

Sample I.D.: MW-5 Laboratory: (STL) Other _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: TBA BY 8260 ALKALINITY, SULFATE, NITRATE

EB I.D. (if applicable): _____ @ _____ Duplicate I.D. (if applicable): FERRUS IRON

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: _____

D.O. (if req'd): <u>Pre-purge:</u> 0.3 mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): <u>Pre-purge:</u> -17 mV	Post-purge: _____ mV

ATTACHMENT B

TOSCO 76 Service Station #1156

Groundwater Monitoring Data and Analytical Results

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

WELL ID/ TOC*(<i>µ</i>)	DATE	DTW (<i>ft</i>)	S.I. (<i>ft. bgs</i>)	GWE (<i>mst</i>)	Product							
					Thickness (<i>ft.</i>)	TPH-D (<i>ppb</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)
MW-1												
174.86	07/20/99 ⁵	7.50	5.0-25.0	167.36	--	16,000 ²	120,000	11,000	27,000	3,300	18,000	ND ¹
	09/28/99	8.75		166.11	<0.01	2,410 ²	6,020 ⁶	1,030	1,040	68.5	412	321/333 ³
	01/07/00	9.05		165.83**	0.02	7,870 ^{2,4}	72,700 ⁶	7,410	13,900	2,070	9,620	ND ¹
	03/31/00	7.18		167.68	0.00	3,600 ²	92,000 ⁶	10,000	23,000	3,200	14,000	ND ¹
	07/14/00	7.68		167.18	0.00	8,580 ²	108,000 ⁶	8,250	18,700	3,750	17,800	ND ¹
	10/03/00	7.99		166.87	0.00	9,260 ²	96,000 ⁶	8,760	20,000	3,350	15,600	ND ¹
	01/03/01	9.18		165.68	0.00	11,000 ⁸	37,000 ⁶	5,800	13,000	1,700	8,100	2,200
	04/04/01	8.05		166.81	0.00	14,000 ⁸	86,900 ⁶	7,780	18,500	2,470	11,800	¹ ND/481 ³
	07/17/01	7.01		167.85	0.00	2,200 ⁸	79,000 ⁶	5,600	11,000	2,800	12,000	¹ ND/230 ³
177.54	10/03/01	7.89		169.65	0.00	--	99,000 ⁶	8,200	18,000	3,000	16,000	<2,500
	10/05/01	7.91		169.63	0.00	13,000 ²	--	--	--	--	--	--
	01/28/02	5.98		171.56	0.00	4,400 ¹¹	110,000 ¹²	8,900	19,000	2,600	12,000	3,000/440 ³
	04/25/02	6.19		171.35	0.00	9,000 ¹³	93,000	8,100	18,000	3,000	15,000	810/670 ³
	07/18/02	6.99		170.55	0.00	9,200 ¹³	69,000	5,400	10,000	2,100	10,000	<500/620 ³
	10/07/02	7.73		169.81	0.00	3,400	82,000	9,200	20,000	2,600	13,000	1,300/760 ³
	01/06/03	5.48		172.06	0.00	5,100 ¹³	82,000	6,500	18,000	2,700	11,000	<1,000/790 ^{3,4}
	04/07/03	6.30		171.24	0.00	2,800 ¹³	74,000	7,000	15,000	2,400	11,000	1,000/800 ³
	07/07/03	6.47		171.07	0.00	7,000 ¹³	60,000 ⁷	6,400 ⁷	11,000 ⁷	2,600 ⁷	11,000 ⁷	⁷ 600/530 ³
MW-2												
173.01	07/20/99	5.40	5.0-25.0	167.61	--	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	4,500/11,000 ^{3,4}
	09/28/99	5.60		167.41	0.00	--	1,390 ⁶	124	ND ¹	62.9	43.1	5,280/6,150 ³
	01/07/00	5.92		167.09	0.00	--	1,450 ⁶	99.0	ND ¹	23.8	16.0	33,100
	03/31/00	5.23		167.78	0.00	--	ND ¹	42	ND ¹	ND ¹	ND ¹	17,000
	07/14/00	5.52		167.49	0.00	--	ND ¹	44.7	ND ¹	ND ¹	ND ¹	66,500
	10/03/00	6.04		166.97	0.00	--	ND ¹	56.7	ND ¹	ND ¹	ND ¹	57,500
	01/03/01	6.42		166.59	0.00	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	49,000

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

WELL ID/ TOC*(<i>f.</i>)	DATE	DTW (<i>f.</i>)	S.I. (<i>f. bgs</i>)	GWE (<i>mst</i>)	Product								
					Thickness (<i>f.</i>)	TPH-D (<i>ppb</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)	
MW-2	04/04/01	6.14	5.0-25.0	166.87	0.00	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	38,700/37,800 ³
(cont)	07/17/01	5.30		167.71	0.00	--	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹	65,000/56,000 ³
173.50	10/03/01	7.38		166.12	0.00	--	<250	2.7	<2.5	<2.5	<2.5	<2.5	14,000/18,000 ³
	01/28/02	5.68		167.82	0.00	--	<250	2.5	4.4	2.8	7.4	7.4	11,000/10,000 ³
	04/25/02	5.82		167.68	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	8,400/8,100 ³
	07/18/02	6.90		166.60	0.00	--	<500	<5.0	<5.0	<5.0	<5.0	<5.0	4,300/8,800 ³
	10/07/02	7.54		165.96	0.00	--	4,300	<10	27	21	75	75	7,100/5,900 ³
	01/06/03	6.79		166.71	0.00	--	5,900	<5.0	<5.0	<5.0	<5.0	<5.0	31,000/35,000 ³
	04/07/03	6.49		167.01	0.00	--	1,500	<10	14	11	38	38	2,000/1,500 ³
	07/07/03	6.72		166.78	0.00	--	<2,500 ¹⁵	<25	<25	<25	<25	<25	5,500/8,300 ^{3,14}
MW-3													
178.44	07/20/99	8.50	5.0-25.0	169.94	--	--	1,000	76	52	79	76	76	330
	09/28/99	8.31		170.13	0.00	--	1,860 ⁶	174	95.4	71.8	135	135	443/288 ³
	01/07/00	8.56		169.88	0.00	--	28,400 ⁶	2,450	3,090	1,560	3,910	3,910	1,940
	03/31/00	8.42		170.02	0.00	--	26,000 ⁶	1,300	2,900	2,600	3,500	3,500	2,800
	07/14/00	8.61		169.83	0.00	--	24,500 ⁶	1,850	2,630	2,750	3,900	3,900	548
	10/03/00	9.14		169.30	0.00	--	22,000 ⁶	1,910	2,020	2,400	2,680	2,680	965
	01/03/01	9.06		169.38	0.00	--	14,000 ⁶	1,600	1,100	2,300	1,400	1,400	3,300
	04/04/01	8.98		169.46	0.00	--	19,600 ⁶	1,150	1,470	2,100	1,820	1,820	1,050/450 ³
	07/17/01	7.46		170.98	0.00	--	26,000 ⁶	1,500	2,100	2,100	3,400	3,400	¹ ND/350 ³
178.13	10/03/01	9.81		168.32	0.00	--	22,000 ⁶	830	1,900	1,700	3,000	3,000	<1,000
	01/28/02	7.39		170.74	0.00	--	30,000 ¹²	880	2,600	1,800	4,300	4,300	3,200/210 ³
	04/25/02	7.86		170.27	0.00	--	18,000	500	2,000	1,300	3,800	3,800	500/260 ³
	07/18/02	8.83		169.30	0.00	--	37,000	1,800	3,800	2,200	8,000	8,000	<250/270 ³
	10/07/02	9.71		168.42	0.00	--	26,000	600	2,000	1,800	6,400	6,400	<120/<200 ³

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

WELL ID/ TOC*(<i>f.</i>)	DATE	DTW (<i>f.</i>)	S.I. (<i>f. bgs.</i>)	GWE (<i>mst.</i>)	Product							
					Thickness (<i>f.</i>)	TPH-D (<i>ppb.</i>)	TPH-G (<i>ppb.</i>)	B (<i>ppb.</i>)	T (<i>ppb.</i>)	E (<i>ppb.</i>)	X (<i>ppb.</i>)	MTBE (<i>ppb.</i>)
MW-3	01/06/03	7.40	5.0-25.0	170.73	0.00	--	27,000	800	2,100	2,000	6,400	440/110 ³
(cont)	04/07/03	8.17		169.96	0.00	--	28,000	660	2,200	1,900	6,300	440/100 ³
	07/07/03	8.35		169.78	0.00	--	33,000	1,200	2,500	2,700	8,300	280/100 ³
MW-4												
179.10	07/20/99	7.40	5.0-25.0	171.70	--	--	69	2.7	0.77	ND	7.1	100
	09/28/99	7.19		171.91	0.00	--	4,050 ⁶	1,250	72.0	51.3	133	416/459 ³
	01/07/00	8.98		170.12	0.00	--	7,010 ⁶	2,260	167	271	276	764
	03/31/00	7.26		171.84	0.00	--	5,500 ⁶	1,800	230	330	400	1,000
	07/14/00	7.67		171.43	0.00	--	7,940 ⁶	2,810	332	450	247	1,530
	10/03/00	8.12		170.98	0.00	--	11,400 ⁶	3,110	437	519	816	1,040
	01/03/01 ⁷	9.10		170.00	0.00	--	8,600 ⁶	2,500	340	480	960	850
	04/04/01	8.63		170.47	0.00	--	9,950 ⁶	2,380	126	416	725	1,140/819 ³
	07/17/01	6.49		172.61	0.00	--	10,000 ⁶	2,300	110	410	800	1,200/900 ³
178.96	10/03/01	7.01		171.95	0.00	--	7,800 ⁶	2,100	85	380	390	580/820 ³
	01/28/02	6.21		172.75	0.00	--	12,000 ¹²	2,100	130	350	670	1,100/500 ³
	04/25/02	5.49		173.47	0.00	--	3,300	1,300	42	270	250	680/600 ³
	07/18/02	8.28		170.68	0.00	--	4,800	1,300	71	290	220	530/760 ³
	10/07/02	7.49		171.47	0.00	--	5,100	1,400	110	330	380	650/540 ³
	01/06/03	6.36		172.60	0.00	--	5,600	1,100	57	260	320	370/520 ³
	04/07/03	6.24		172.72	0.00	--	5,100	1,100	55	190	370	550/420 ³
	07/07/03	6.43		172.53	0.00	--	3,000	920	28	170	330	480/450 ³
MW-5												
169.18	10/03/01 ¹⁰	2.81	--	166.37	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	1,800/2,100 ³
	01/28/02	1.88		167.30	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	650/550 ³
	04/25/02	1.99		167.19	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	2,200/2,400 ³

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

WELL ID/ TOC*(<i>f.</i>)	DATE	DTW (<i>f.</i>)	S.I. (<i>f. bgs</i>)	GWE (<i>mst</i>)	Product								
					Thickness (<i>f.</i>)	TPH-D (<i>ppb</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)	
MW-5	07/18/02	2.49	--	166.69	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	530/690 ³
(cont)	10/07/02	2.80		166.38	0.00	--		140	<0.50	<0.50	<0.50	<0.50	300/330 ³
	01/06/03	1.86		167.32	0.00	<50	120 ¹³	<0.50	<0.50	<0.50	<0.50	<0.50	410/350 ³
	04/07/03	2.15		167.03	0.00	--	220 ¹⁴	0.53	<0.50	<0.50	<0.50	<0.50	450/420 ³
	07/07/03	2.26		166.92	0.00	--	120¹⁶	<1.2	<1.2	<1.2	<1.2	<1.2	220/200³
MW-6													
169.04	10/03/01 ¹⁰	2.87	--	166.17	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	200/270 ³
	01/28/02	1.82		167.22	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/02	2.01		167.03	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/18/02	2.44		166.60	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ³
	10/07/02	2.72		166.32	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ³
	01/06/03	1.90		167.14	0.00	--	<50	0.62	1.2	1.2	3.5	<2.0/<2.0 ³	
	04/07/03	2.02		167.02	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	46/46 ³
	07/07/03	2.21		166.83	0.00	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0/<2.0³
MW-7													
171.64	10/03/01 ¹⁰	7.62	--	164.02	0.00	--	10,000 ⁹	210	<50	<50	800	<50	35,000/40,000 ³
	01/28/02	7.21		164.43	0.00	--	<1,000	<10	<10	<10	<10	<10	42,000/38,000 ³
	04/25/02	7.25		164.39	0.00	--	<5,000	660	<50	<50	<50	<50	42,000/45,000 ³
	07/18/02	8.12		163.52	0.00	--	<5,000	130	<50	<50	<50	<50	51,000/53,000 ³
	10/07/02	7.71		163.93	0.00	--	18,000	<50	<50	<50	<50	<50	33,000/38,000 ³
	01/06/03	7.63		164.01	0.00	<50	410	0.61	1.0	0.89	2.9	<50	3,900/3,100 ³
	04/07/03	7.58		164.06	0.00	--	13,000 ¹⁴	<20	<20	<20	<20	<20	32,000/28,000 ³
	07/07/03	7.56		164.08	0.00	--	990¹⁷	8.2	<0.50	1.2	<0.50	<0.50	36,000/45,000³

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Groundwater Monitoring Data and Analytical Results
Tosco 76 Service Station #1156
4276 MacArthur Boulevard
Oakland, California

WELL ID/ TOC*(<i>f.</i>)	DATE	DTW (<i>f.</i>)	S.I. (<i>f. bgs</i>)	GWE (<i>mst</i>)	Product							
					Thickness (<i>f.</i>)	TPH-D (<i>ppb</i>)	TPH-G (<i>ppb</i>)	B (<i>ppb</i>)	T (<i>ppb</i>)	E (<i>ppb</i>)	X (<i>ppb</i>)	MTBE (<i>ppb</i>)
Trip Blank												
TB-LB	07/20/99	--	--	--	--	--	--	--	--	--	--	--
	09/28/99	--		--	--	--	ND	ND	ND	ND	ND	ND
	01/07/00	--		--	--	--	ND	ND	ND	ND	ND	ND
	03/31/00	--		--	--	--	ND	ND	ND	ND	ND	ND
	07/14/00	--		--	--	--	ND	ND	ND	ND	ND	ND
	10/03/00	--		--	--	--	ND	ND	ND	ND	ND	ND
	01/03/01	--		--	--	--	ND	ND	ND	ND	ND	ND
	04/04/01	--		--	--	--	ND	ND	ND	ND	ND	ND
	07/17/01	--		--	--	--	ND	ND	ND	ND	ND	ND
	10/03/01	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	10/05/01	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	01/28/02	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	04/25/02	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	07/18/02	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA	10/07/02	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	01/06/03	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0
	04/07/03	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/07/03	--		--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.0

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco 76 Service Station #1156
 4276 MacArthur Boulevard
 Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to September 28, 1999, were compiled from reports prepared by Environmental Resolutions, Inc.

TOC = Top of Casing	TPH-D = Total Petroleum Hydrocarbons as Diesel	(ppb) = Parts per billion
(ft) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline	ND = Not Detected
DTW = Depth to Water	B = Benzene	-- = Not Measured/Not Analyzed
S.I. = Screen Interval	T = Toluene	QA =Quality Assurance/Trip Blank
(ft. bgs) = Feet Below Ground Surface	E = Ethylbenzene	
GWE = Groundwater Elevation	X = Xylenes	
(msl) = Mean sea level	MTBE = Methyl tertiary butyl ether	

* TOC elevations were resurveyed in September 2001, by Morrow Surveying. TOC elevations are based on City of Oakland Benchmark No. 3967, (Elevation = 174.40 feet, msl).

** GWE has been corrected due to the presence of free product; correction factor: [(TOC - DTW) + (Product Thickness x 0.77)].

- 1 Detection limit raised. Refer to analytical reports.
- 2 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 3 MTBE by EPA Method 8260.
- 4 Laboratory report indicates sample was analyzed past EPA recommended holding time.
- 5 Total Recoverable Petroleum Oil was ND.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 This sample was originally analyzed within holding time. Re-analysis for confirmation or dilution was performed past the recommended holding time.
- 8 Laboratory report indicates unidentified hydrocarbons <C16.
- 9 Laboratory report indicates weathered gasoline C6-C12.
- 10 Well development performed.
- 11 Laboratory report indicates unidentified hydrocarbons C10-C28.
- 12 Laboratory report indicates gasoline C6-C10.
- 13 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but it does not resemble the pattern of the requested fuel.
- 14 Laboratory report indicates discrete peak @ MTBE.
- 15 Laboratory report indicates discrete peak @ MTBE @ 3.9 minutes at 110.0619 ppb.
- 16 Laboratory report indicates discrete peak @ MTBE @ 3.9 minutes at 88.5931 ppb.
- 17 Laboratory report indicates most purgeable hydrocarbons area from MTBE.



23 July, 2003

Deanna L. Harding
Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin, CA 94568

RE: TOSCO 1156, Oakland, CA
Work Order: S307213

Enclosed are the results of analyses for samples received by the laboratory on 07/08/03 14:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
QA Manager / Client Services Representative

CA ELAP Certificate #1624



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
QA	S307213-01	Water	07/07/03 00:00	07/08/03 14:35
MW-1	S307213-02	Water	07/07/03 12:08	07/08/03 14:35
MW-2	S307213-03	Water	07/07/03 09:55	07/08/03 14:35
MW-3	S307213-04	Water	07/07/03 11:27	07/08/03 14:35
MW-4	S307213-05	Water	07/07/03 10:45	07/08/03 14:35
MW-5	S307213-06	Water	07/07/03 07:40	07/08/03 14:35
MW-6	S307213-07	Water	07/07/03 08:25	07/08/03 14:35
MW-7	S307213-08	Water	07/07/03 09:10	07/08/03 14:35



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
QA (S307213-01) Water Sampled: 07/07/03 00:00 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070152	07/16/03	07/17/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91 %	60-140	"	"	"	"	"	
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35 HT-RS									
Purgeable Hydrocarbons	60000	10000	ug/l	200	3070261	07/22/03	07/22/03	EPA 8015/8021	
Benzene	6400	100	"	"	"	"	"	"	
Toluene	11000	200	"	400	"	"	07/22/03	"	
Ethylbenzene	2600	100	"	200	"	"	07/22/03	"	
Xylenes (total)	11000	100	"	"	"	"	"	"	
Methyl tert-butyl ether	600	400	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		98 %	60-140	"	"	"	"	"	
MW-2 (S307213-03) Water Sampled: 07/07/03 09:55 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	ND	2500	ug/l	50	3070184	07/18/03	07/18/03	EPA 8015/8021	HC-19a
Benzene	ND	25	"	"	"	"	"	"	
Toluene	ND	25	"	"	"	"	"	"	
Ethylbenzene	ND	25	"	"	"	"	"	"	
Xylenes (total)	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	5500	100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88 %	60-140	"	"	"	"	"	



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (S307213-04) Water Sampled: 07/07/03 11:27 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	33000	2000	ug/l	40	3070184	07/18/03	07/18/03	EPA 8015/8021	
Benzene	1200	20	"	"	"	"	"	"	
Toluene	2500	50	"	100	"	"	07/18/03	"	
Ethylbenzene	2700	20	"	40	"	"	07/18/03	"	
Xylenes (total)	8300	50	"	100	"	"	07/18/03	"	
Methyl tert-butyl ether	280	80	"	40	"	"	07/18/03	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %	60-140		"	"	"	"	
MW-4 (S307213-05) Water Sampled: 07/07/03 10:45 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	3000	2000	ug/l	40	3070184	07/18/03	07/18/03	EPA 8015/8021	
Benzene	920	20	"	"	"	"	"	"	
Toluene	28	20	"	"	"	"	"	"	
Ethylbenzene	170	20	"	"	"	"	"	"	
Xylenes (total)	330	20	"	"	"	"	"	"	
Methyl tert-butyl ether	480	80	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		86 %	60-140		"	"	"	"	
MW-5 (S307213-06) Water Sampled: 07/07/03 07:40 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	120	120	ug/l	2.5	3070184	07/18/03	07/18/03	EPA 8015/8021	HC-19b
Benzene	ND	1.2	"	"	"	"	"	"	
Toluene	ND	1.2	"	"	"	"	"	"	
Ethylbenzene	ND	1.2	"	"	"	"	"	"	
Xylenes (total)	ND	1.2	"	"	"	"	"	"	
Methyl tert-butyl ether	220	5.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93 %	60-140		"	"	"	"	

Gettler-Ryan - Dublin
 6747 Sierra Court, Ste. J
 Dublin CA, 94568

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (S307213-07) Water Sampled: 07/07/03 08:25 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	3070184	07/18/03	07/18/03	EPA 8015/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		80 %	60-140		"	"	"	"	
MW-7 (S307213-08) Water Sampled: 07/07/03 09:10 Received: 07/08/03 14:35									
Purgeable Hydrocarbons	990	50	ug/l	1	3070184	07/18/03	07/18/03	EPA 8015/8021	A-01
Benzene	8.2	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.2	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	36000	2000	"	1000	"	"	07/21/03	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		92 %	60-140		"	"	07/18/03	"	



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Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

**Diesel Hydrocarbons by DHS LUFT
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									
Diesel Range Organics (C10-C28)	7000	500	ug/l	10	3070204	07/16/03	07/17/03	DHS LUFT	HC-12
<i>Surrogate: Octacosane</i>		<i>367 %</i>	<i>50-150</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>S-02</i>

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 Project: TOSCO 1156, Oakland, CA
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 S307213
 Reported:
 07/23/03 16:21

Volatile Organic Compounds 8010B list by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									
									R-05
Freon 113	ND	250	ug/l	250	3070211	07/17/03	07/17/03	EPA 8260B	
Bromodichloromethane	ND	120	"	"	"	"	"	"	
Bromoform	ND	120	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	120	"	"	"	"	"	"	
Chlorobenzene	ND	120	"	"	"	"	"	"	
Chloroethane	ND	120	"	"	"	"	"	"	
Chloroform	ND	120	"	"	"	"	"	"	
Chloromethane	ND	120	"	"	"	"	"	"	
Dibromochloromethane	ND	120	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	120	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	120	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	120	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	120	"	"	"	"	"	"	
1,1-Dichloroethane	ND	120	"	"	"	"	"	"	
1,2-Dichloroethane	ND	120	"	"	"	"	"	"	
1,1-Dichloroethene	ND	120	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	120	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	120	"	"	"	"	"	"	
1,2-Dichloropropane	ND	120	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	120	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	120	"	"	"	"	"	"	
Methylene chloride	ND	1200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	ND	120	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	120	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	120	"	"	"	"	"	"	
Trichloroethene	ND	120	"	"	"	"	"	"	
Trichlorofluoromethane	ND	120	"	"	"	"	"	"	
Vinyl chloride	ND	120	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		100 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	"	"	"	"	
<i>Surrogate: 4-BFB</i>		113 %		70-130	"	"	"	"	



Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 1156, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307213 Reported: 07/23/03 16:21
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Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									R-05
Tert-butyl alcohol	ND	25000	ug/l	250	3070211	07/17/03	07/17/03	EPA 8260B	
Methyl tert-butyl ether	530	500	"	"	"	"	"	"	
Di-isopropyl ether	ND	500	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	500	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	500	"	"	"	"	"	"	
Ethanol	ND	120000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		100 %	60-140	"	"	"	"	"	
MW-2 (S307213-03) Water Sampled: 07/07/03 09:55 Received: 07/08/03 14:35									
Tert-butyl alcohol	ND	5000	ug/l	50	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	8300	100	"	"	"	"	"	"	HC-19
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	100	"	"	"	"	"	"	
Ethanol	ND	25000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		118 %	60-140	"	"	"	"	"	
MW-3 (S307213-04) Water Sampled: 07/07/03 11:27 Received: 07/08/03 14:35									
Tert-butyl alcohol	ND	2000	ug/l	20	3070239	07/18/03	07/18/03	EPA 8260B	R-05
Methyl tert-butyl ether	100	40	"	"	"	"	"	"	
Di-isopropyl ether	ND	40	"	"	"	"	"	"	R-05
Ethyl tert-butyl ether	ND	40	"	"	"	"	"	"	R-05
Tert-amyl methyl ether	ND	40	"	"	"	"	"	"	R-05
Ethanol	ND	10000	"	"	"	"	"	"	R-05
1,2-Dichloroethane	ND	40	"	"	"	"	"	"	R-05
1,2-Dibromoethane (EDB)	ND	40	"	"	"	"	"	"	R-05
<i>Surrogate: 1,2-DCA-d4</i>		86 %	60-140	"	"	"	"	"	

Gettler-Ryan - Dublin
 6747 Sierra Court, Ste. J
 Dublin CA, 94568

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
Reported:
 07/23/03 16:21

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-4 (S307213-05) Water Sampled: 07/07/03 10:45 Received: 07/08/03 14:35										
Tert-butyl alcohol	ND	1000		ug/l	10	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	450	20		"	"	"	"	"	"	
Di-isopropyl ether	ND	20		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20		"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20		"	"	"	"	"	"	
Ethanol	ND	5000		"	"	"	"	"	"	
1,2-Dichloroethane	ND	20		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	20		"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		79 %		60-140		"	"	"	"	
MW-5 (S307213-06) Water Sampled: 07/07/03 07:40 Received: 07/08/03 14:35										
Tert-butyl alcohol	ND	200		ug/l	2	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	200	4.0		"	"	"	"	"	"	
Di-isopropyl ether	ND	4.0		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	4.0		"	"	"	"	"	"	
Tert-amyl methyl ether	ND	4.0		"	"	"	"	"	"	
Ethanol	ND	1000		"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.0		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	4.0		"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		73 %		60-140		"	"	"	"	
MW-6 (S307213-07) Water Sampled: 07/07/03 08:25 Received: 07/08/03 14:35										
Tert-butyl alcohol	ND	100		ug/l	1	3070239	07/18/03	07/18/03	EPA 8260B	
Methyl tert-butyl ether	ND	2.0		"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0		"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0		"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0		"	"	"	"	"	"	
Ethanol	ND	500		"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0		"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.0		"	"	"	"	"	"	
<i>Surrogate: 1,2-DCA-d4</i>		97 %		60-140		"	"	"	"	



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6747 Sierra Court, Ste. J
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Project: TOSCO 1156, Oakland, CA
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Reported:
07/23/03 16:21

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (S307213-08) Water Sampled: 07/07/03 09:10 Received: 07/08/03 14:35									
Tert-butyl alcohol	27000	20000	ug/l	200	3070255	07/21/03	07/21/03	EPA 8260B	
Methyl tert-butyl ether	45000	400	"	"	"	"	"	"	
Di-isopropyl ether	ND	400	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	400	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	400	"	"	"	"	"	"	
Ethanol	ND	100000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	400	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	400	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		105 %		60-140	"	"	"	"	



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Reported:
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Semivolatile Organic Compounds by EPA Method 8270C

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35									
N-Nitrosodimethylamine	ND	5.0	ug/l	1	3070166	07/14/03	07/14/03	EPA 8270C	
Phenol	ND	5.0	"	"	"	"	"	"	
Aniline	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Benzyl alcohol	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2-Methylphenol	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.0	"	"	"	"	"	"	
4-Methylphenol	22	5.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Nitrobenzene	ND	5.0	"	"	"	"	"	"	
Isophorone	ND	5.0	"	"	"	"	"	"	
2-Nitrophenol	ND	20	"	"	"	"	"	"	
2,4-Dimethylphenol	8.5	5.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.0	"	"	"	"	"	"	
Benzoic acid	ND	20	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
Naphthalene	850	100	"	10	"	"	07/15/03	"	
4-Chloroaniline	ND	5.0	"	1	"	"	07/14/03	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	260	50	"	10	"	"	07/15/03	"	
Hexachlorocyclopentadiene	ND	20	"	1	"	"	07/14/03	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	
2-Chloronaphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	5.0	"	"	"	"	"	"	
Acenaphthylene	ND	5.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	5.0	"	"	"	"	"	"	
3-Nitroaniline	ND	5.0	"	"	"	"	"	"	
Acenaphthene	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	20	"	"	"	"	"	"	
4-Nitrophenol	ND	20	"	"	"	"	"	"	
Dibenzofuran	ND	5.0	"	"	"	"	"	"	



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
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Project: TOSCO 1156, Oakland, CA
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Reported:
07/23/03 16:21

Semivolatile Organic Compounds by EPA Method 8270C
Sequoia Analytical - Sacramento

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
MW-1 (S307213-02) Water Sampled: 07/07/03 12:08 Received: 07/08/03 14:35										
2,4-Dinitrotoluene	ND	5.0		ug/l	1	3070166	07/14/03	07/14/03	EPA 8270C	
Diethyl phthalate	ND	5.0		"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	5.0		"	"	"	"	"	"	
Fluorene	ND	5.0		"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	20		"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	5.0		"	"	"	"	"	"	
Azobenzene	ND	5.0		"	"	"	"	"	"	
4-Nitroaniline	ND	5.0		"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0		"	"	"	"	"	"	
Hexachlorobenzene	ND	5.0		"	"	"	"	"	"	
Pentachlorophenol	ND	20		"	"	"	"	"	"	
Phenanthrene	ND	5.0		"	"	"	"	"	"	
Anthracene	ND	5.0		"	"	"	"	"	"	
Carbazole	ND	5.0		"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0		"	"	"	"	"	"	
Fluoranthene	ND	5.0		"	"	"	"	"	"	
Pyrene	ND	5.0		"	"	"	"	"	"	
Benzyl butyl phthalate	ND	5.0		"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	10		"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	70	5.0		"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.0		"	"	"	"	"	"	
Chrysene	ND	5.0		"	"	"	"	"	"	
Di-n-octyl phthalate	ND	5.0		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.0		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.0		"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.0		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	5.0		"	"	"	"	"	"	
Dibenz (a,b) anthracene	ND	5.0		"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.0		"	"	"	"	"	"	
<i>Surrogate: 2-Fluorophenol</i>		63 %								11.2-69.6
<i>Surrogate: Phenol-d6</i>		21 %								10-58.7
<i>Surrogate: Nitrobenzene-d5</i>		81 %								36.7-118
<i>Surrogate: 2-Fluorobiphenyl</i>		67 %								44-112
<i>Surrogate: 2,4,6-Tribromophenol</i>		88 %								41.5-117
<i>Surrogate: Terphenyl-d14</i>		51 %								20.7-144



Gettler-Ryan - Dublin
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Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070152 - EPA 5030B (P/T)

Blank (3070152-BLK1)

Prepared & Analyzed: 07/11/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	8.49		"	10.0		85	60-140			

Blank (3070152-BLK2)

Prepared & Analyzed: 07/16/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	8.70		"	10.0		87	60-140			

Laboratory Control Sample (3070152-BS1)

Prepared & Analyzed: 07/11/03

Benzene	9.33	0.50	ug/l	10.0		93	70-130			
Toluene	9.47	0.50	"	10.0		95	70-130			
Ethylbenzene	9.33	0.50	"	10.0		93	70-130			
Xylenes (total)	27.2	0.50	"	30.0		91	70-130			
Methyl tert-butyl ether	9.89	2.0	"	10.0		99	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.29		"	10.0		93	60-140			

Laboratory Control Sample (3070152-BS2)

Prepared & Analyzed: 07/16/03

Benzene	9.55	0.50	ug/l	10.0		96	70-130			
Toluene	9.94	0.50	"	10.0		99	70-130			
Ethylbenzene	10.3	0.50	"	10.0		103	70-130			
Xylenes (total)	31.7	0.50	"	30.0		106	70-130			
Methyl tert-butyl ether	8.60	2.0	"	10.0		86	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.48		"	10.0		95	60-140			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070152 - EPA 5030B (P/T)

Matrix Spike (3070152-MS1)	Source: S307076-02			Prepared & Analyzed: 07/11/03						
Benzene	8.60	0.50	ug/l	10.0	ND	86	60-140			
Toluene	8.94	0.50	"	10.0	ND	89	60-140			
Ethylbenzene	8.64	0.50	"	10.0	ND	86	60-140			
Xylenes (total)	25.0	0.50	"	30.0	ND	83	60-140			
Methyl tert-butyl ether	9.07	2.0	"	10.0	ND	91	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.34		"	10.0		93	60-140			

Matrix Spike Dup (3070152-MSD1)	Source: S307076-02			Prepared & Analyzed: 07/11/03						
Benzene	8.40	0.50	ug/l	10.0	ND	84	60-140	2	25	
Toluene	8.69	0.50	"	10.0	ND	87	60-140	3	25	
Ethylbenzene	8.41	0.50	"	10.0	ND	84	60-140	3	25	
Xylenes (total)	24.5	0.50	"	30.0	ND	82	60-140	2	25	
Methyl tert-butyl ether	8.78	2.0	"	10.0	ND	88	60-140	3	25	
Surrogate: a,a,a-Trifluorotoluene	8.25		"	10.0		82	60-140			

Batch 3070184 - EPA 5030B (P/T)

Blank (3070184-BLK1)	Prepared & Analyzed: 07/15/03									
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	8.15		"	10.0		82	60-140			

Blank (3070184-BLK2)	Prepared & Analyzed: 07/16/03									
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
Surrogate: a,a,a-Trifluorotoluene	8.17		"	10.0		82	60-140			



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6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070184 - EPA 5030B (P/T)

Blank (3070184-BLK3)

Prepared & Analyzed: 07/18/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.65		"	10.0		86	60-140			

Blank (3070184-BLK4)

Prepared & Analyzed: 07/21/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.69		"	10.0		87	60-140			

Laboratory Control Sample (3070184-BS1)

Prepared & Analyzed: 07/15/03

Benzene	9.46	0.50	ug/l	10.0		95	70-130			
Toluene	9.56	0.50	"	10.0		96	70-130			
Ethylbenzene	9.40	0.50	"	10.0		94	70-130			
Xylenes (total)	27.8	0.50	"	30.0		93	70-130			
Methyl tert-butyl ether	10.3	2.0	"	10.0		103	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.08		"	10.0		91	60-140			

Laboratory Control Sample (3070184-BS2)

Prepared & Analyzed: 07/16/03

Benzene	9.18	0.50	ug/l	10.0		92	70-130			
Toluene	9.34	0.50	"	10.0		93	70-130			
Ethylbenzene	9.08	0.50	"	10.0		91	70-130			
Xylenes (total)	27.6	0.50	"	30.0		92	70-130			
Methyl tert-butyl ether	9.74	2.0	"	10.0		97	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	7.95		"	10.0		80	60-140			



Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 1156, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307213 Reported: 07/23/03 16:21
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Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070184 - EPA 5030B (P/T)

Laboratory Control Sample (3070184-BS3)				Prepared & Analyzed: 07/18/03						
Benzene	8.60	0.50	ug/l	10.0		86	70-130			
Toluene	8.88	0.50	"	10.0		89	70-130			
Ethylbenzene	8.70	0.50	"	10.0		87	70-130			
Xylenes (total)	26.4	0.50	"	30.0		88	70-130			
Methyl tert-butyl ether	10.5	2.0	"	10.0		105	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.91		"	10.0		89	60-140			

Laboratory Control Sample (3070184-BS4)				Prepared & Analyzed: 07/21/03						
Benzene	8.14	0.50	ug/l	10.0		81	70-130			
Toluene	8.43	0.50	"	10.0		84	70-130			
Ethylbenzene	8.26	0.50	"	10.0		83	70-130			
Xylenes (total)	24.7	0.50	"	30.0		82	70-130			
Methyl tert-butyl ether	9.13	2.0	"	10.0		91	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.74		"	10.0		87	60-140			

Matrix Spike (3070184-MS1)				Source: S307210-01 Prepared & Analyzed: 07/15/03						
Benzene	9.67	0.50	ug/l	10.0	ND	97	60-140			
Toluene	9.82	0.50	"	10.0	ND	98	60-140			
Ethylbenzene	9.54	0.50	"	10.0	ND	95	60-140			
Xylenes (total)	28.1	0.50	"	30.0	ND	94	60-140			
Methyl tert-butyl ether	10.8	2.0	"	10.0	ND	108	60-140			QR-02
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.80		"	10.0		88	60-140			

Matrix Spike Dup (3070184-MSD1)				Source: S307210-01 Prepared & Analyzed: 07/16/03						
Benzene	8.44	0.50	ug/l	10.0	ND	84	60-140	14	25	
Toluene	8.70	0.50	"	10.0	ND	87	60-140	12	25	
Ethylbenzene	8.49	0.50	"	10.0	ND	85	60-140	12	25	
Xylenes (total)	25.0	0.50	"	30.0	ND	83	60-140	12	25	
Methyl tert-butyl ether	6.28	2.0	"	10.0	ND	63	60-140	53	25	QR-02
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.48		"	10.0		95	60-140			



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Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070261 - EPA 5030B (P/T)

Blank (3070261-BLK1)

Prepared & Analyzed: 07/21/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.69		"	10.0		87	60-140			

Blank (3070261-BLK2)

Prepared & Analyzed: 07/22/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.99		"	10.0		90	60-140			

Blank (3070261-BLK3)

Prepared & Analyzed: 07/23/03

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.0	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.08		"	10.0		81	60-140			

Laboratory Control Sample (3070261-BS1)

Prepared & Analyzed: 07/21/03

Benzene	8.14	0.50	ug/l	10.0		81	70-130			
Toluene	8.43	0.50	"	10.0		84	70-130			
Ethylbenzene	8.26	0.50	"	10.0		83	70-130			
Xylenes (total)	24.7	0.50	"	30.0		82	70-130			
Methyl tert-butyl ether	9.13	2.0	"	10.0		91	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	8.74		"	10.0		87	60-140			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Gasoline (2-Methylpentane to 1,2,4-Trimethylbenzene) and BTEX by EPA 8015M and 8021B - Quality Contr
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070261 - EPA 5030B (P/T)

Laboratory Control Sample (3070261-BS2)

Prepared & Analyzed: 07/22/03

Benzene	8.37	0.50	ug/l	10.0		84	70-130			
Toluene	8.62	0.50	"	10.0		86	70-130			
Ethylbenzene	8.47	0.50	"	10.0		85	70-130			
Xylenes (total)	25.5	0.50	"	30.0		85	70-130			
Methyl tert-butyl ether	8.85	2.0	"	10.0		88	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.80		"	10.0		88	60-140			

Matrix Spike (3070261-MS1)

Source: S307236-01

Prepared & Analyzed: 07/22/03

Benzene	8.83	0.50	ug/l	10.0	ND	88	60-140			
Toluene	8.99	0.50	"	10.0	ND	90	60-140			
Ethylbenzene	8.70	0.50	"	10.0	ND	87	60-140			
Xylenes (total)	25.4	0.50	"	30.0	ND	85	60-140			
Methyl tert-butyl ether	7.48	2.0	"	10.0	ND	75	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.30		"	10.0		93	60-140			

Matrix Spike Dup (3070261-MSD1)

Source: S307236-01

Prepared & Analyzed: 07/22/03

Benzene	8.98	0.50	ug/l	10.0	ND	90	60-140	2	25	
Toluene	9.18	0.50	"	10.0	ND	92	60-140	2	25	
Ethylbenzene	8.73	0.50	"	10.0	ND	87	60-140	0.3	25	
Xylenes (total)	25.5	0.50	"	30.0	ND	85	60-140	0.4	25	
Methyl tert-butyl ether	9.11	2.0	"	10.0	ND	91	60-140	20	25	
Surrogate: a,a,a-Trifluorotoluene	8.93		"	10.0		89	60-140			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

**Diesel Hydrocarbons by DHS LUFT - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070204 - EPA 3510C

Blank (3070204-BLK1)

Prepared & Analyzed: 07/16/03

Diesel Range Organics (C10-C28)	ND	50	ug/l							
<i>Surrogate: Octacosane</i>	21.3		"	20.0		106	50-150			

Laboratory Control Sample (3070204-BS1)

Prepared & Analyzed: 07/16/03

Diesel Range Organics (C10-C28)	503	50	ug/l	500		101	60-140			
<i>Surrogate: Octacosane</i>	23.7		"	20.0		118	50-150			

Laboratory Control Sample Dup (3070204-BSD1)

Prepared & Analyzed: 07/16/03

Diesel Range Organics (C10-C28)	538	50	ug/l	500		108	60-140	7	50	
<i>Surrogate: Octacosane</i>	24.0		"	20.0		120	50-150			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Volatile Organic Compounds 8010B list by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070211 - EPA 5030B [P/T]

Blank (3070211-BLK1)

Prepared: 07/16/03 Analyzed: 07/17/03

Freon 113	ND	1.0	ug/l							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Methylene chloride	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Surrogate: 1,2-DCA-d4	24.6		"	25.0		98	70-130			
Surrogate: Toluene-d8	26.3		"	25.0		105	70-130			
Surrogate: 4-BFB	26.1		"	25.0		104	70-130			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Volatile Organic Compounds 8010B list by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070211 - EPA 5030B [P/T]

Laboratory Control Sample (3070211-BS1)

Prepared: 07/16/03 Analyzed: 07/17/03

Chlorobenzene	24.6	0.50	ug/l	25.0		98	70-130			
1,1-Dichloroethene	19.2	0.50	"	25.0		77	70-130			
Trichloroethene	20.8	0.50	"	25.0		83	70-130			
Surrogate: 1,2-DCA-d4	23.3		"	25.0		93	70-130			
Surrogate: Toluene-d8	24.0		"	25.0		96	70-130			
Surrogate: 4-BFB	24.4		"	25.0		98	70-130			

Matrix Spike (3070211-MS1)

Source: S307299-07

Prepared: 07/16/03 Analyzed: 07/17/03

Chlorobenzene	26.2	0.50	ug/l	25.0	ND	105	60-140			
1,1-Dichloroethene	20.7	0.50	"	25.0	ND	83	60-140			
Trichloroethene	21.0	0.50	"	25.0	0.68	81	60-140			
Surrogate: 1,2-DCA-d4	23.9		"	25.0		96	70-130			
Surrogate: Toluene-d8	23.8		"	25.0		95	70-130			
Surrogate: 4-BFB	25.0		"	25.0		100	70-130			

Matrix Spike Dup (3070211-MSD1)

Source: S307299-07

Prepared: 07/16/03 Analyzed: 07/17/03

Chlorobenzene	24.2	0.50	ug/l	25.0	ND	97	60-140	8	25	
1,1-Dichloroethene	19.4	0.50	"	25.0	ND	78	60-140	6	25	
Trichloroethene	19.8	0.50	"	25.0	0.68	76	60-140	6	25	
Surrogate: 1,2-DCA-d4	24.4		"	25.0		98	70-130			
Surrogate: Toluene-d8	23.2		"	25.0		93	70-130			
Surrogate: 4-BFB	23.7		"	25.0		95	70-130			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070211 - EPA 5030B [P/T]

Blank (3070211-BLK1)

Prepared: 07/16/03 Analyzed: 07/17/03

Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							

Surrogate: 1,2-DCA-d4

24.6

"

25.0

98

60-140

Laboratory Control Sample (3070211-BS1)

Prepared: 07/16/03 Analyzed: 07/17/03

Methyl tert-butyl ether	19.4	2.0	ug/l	25.0		78	60-140			
Surrogate: 1,2-DCA-d4	23.3		"	25.0		93	60-140			

Matrix Spike (3070211-MS1)

Source: S307299-07

Prepared: 07/16/03 Analyzed: 07/17/03

Methyl tert-butyl ether	22.1	2.0	ug/l	25.0	ND	88	60-140			
Surrogate: 1,2-DCA-d4	23.9		"	25.0		96	60-140			

Matrix Spike Dup (3070211-MSD1)

Source: S307299-07

Prepared: 07/16/03 Analyzed: 07/17/03

Methyl tert-butyl ether	21.6	2.0	ug/l	25.0	ND	86	60-140	2	25	
Surrogate: 1,2-DCA-d4	24.4		"	25.0		98	60-140			

Batch 3070239 - EPA 5030B [P/T]

Blank (3070239-BLK1)

Prepared & Analyzed: 07/17/03

Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							

Surrogate: 1,2-DCA-d4

26.5

"

25.0

106

60-140



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070239 - EPA 5030B [P/T]

Blank (3070239-BLK2)

Prepared & Analyzed: 07/18/03

Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							

Surrogate: 1,2-DCA-d4

21.2

"

25.0

85

60-140

Laboratory Control Sample (3070239-BS1)

Prepared & Analyzed: 07/17/03

Methyl tert-butyl ether	23.7	2.0	ug/l	24.8		96	60-140			
Surrogate: 1,2-DCA-d4	28.6		"	25.0		114	60-140			

Laboratory Control Sample (3070239-BS2)

Prepared & Analyzed: 07/18/03

Methyl tert-butyl ether	27.1	2.0	ug/l	24.8		109	60-140			
Surrogate: 1,2-DCA-d4	28.6		"	25.0		114	60-140			

Matrix Spike (3070239-MS1)

Source: S307213-07

Prepared: 07/18/03 Analyzed: 07/19/03

Methyl tert-butyl ether	32.3	2.0	ug/l	24.8	1.0	126	60-140			
Surrogate: 1,2-DCA-d4	26.9		"	25.0		108	60-140			

Matrix Spike Dup (3070239-MSD1)

Source: S307213-07

Prepared: 07/18/03 Analyzed: 07/19/03

Methyl tert-butyl ether	28.5	2.0	ug/l	24.8	1.0	111	60-140	12	25	
Surrogate: 1,2-DCA-d4	25.5		"	25.0		102	60-140			

Batch 3070255 - EPA 5030B [P/T]

Blank (3070255-BLK1)

Prepared & Analyzed: 07/21/03

Tert-butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Ethanol	ND	500	"							
1,2-Dichloroethane	ND	2.0	"							
1,2-Dibromoethane (EDB)	ND	2.0	"							

Surrogate: 1,2-DCA-d4

24.3

"

25.0

97

60-140

Sequoia Analytical - Sacramento

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Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 1156, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307213 Reported: 07/23/03 16:21
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070255 - EPA 5030B [P/T]

Laboratory Control Sample (3070255-BS1)

Prepared & Analyzed: 07/21/03

Methyl tert-butyl ether	25.3	2.0	ug/l	24.8		102	60-140			
Surrogate: 1,2-DCA-d4	23.8		"	25.0		95	60-140			

Matrix Spike (3070255-MS1)

Source: S307231-04

Prepared: 07/21/03 Analyzed: 07/22/03

Methyl tert-butyl ether	30.0	2.0	ug/l	24.8	0.38	119	60-140			
Surrogate: 1,2-DCA-d4	27.8		"	25.0		111	60-140			

Matrix Spike Dup (3070255-MSD1)

Source: S307231-04

Prepared: 07/21/03 Analyzed: 07/22/03

Methyl tert-butyl ether	26.0	2.0	ug/l	24.8	0.38	103	60-140	14	25	
Surrogate: 1,2-DCA-d4	24.2		"	25.0		97	60-140			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070166 - EPA 3510C Sep Funnel

Blank (3070166-BLK1)

Prepared & Analyzed: 07/14/03

N-Nitrosodimethylamine	ND	5.0	ug/l
Phenol	ND	5.0	"
Aniline	ND	5.0	"
Bis(2-chloroethyl)ether	ND	5.0	"
2-Chlorophenol	ND	10	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Benzyl alcohol	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
2-Methylphenol	ND	5.0	"
Bis(2-chloroisopropyl)ether	ND	5.0	"
4-Methylphenol	ND	5.0	"
N-Nitrosodi-n-propylamine	ND	5.0	"
Hexachloroethane	ND	5.0	"
Nitrobenzene	ND	5.0	"
Isophorone	ND	5.0	"
2-Nitrophenol	ND	20	"
2,4-Dimethylphenol	ND	5.0	"
Bis(2-chloroethoxy)methane	ND	5.0	"
Benzoic acid	ND	20	"
2,4-Dichlorophenol	ND	10	"
1,2,4-Trichlorobenzene	ND	5.0	"
Naphthalene	ND	10	"
4-Chloroaniline	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
4-Chloro-3-methylphenol	ND	5.0	"
2-Methylnaphthalene	ND	5.0	"
Hexachlorocyclopentadiene	ND	20	"
2,4,6-Trichlorophenol	ND	10	"
2,4,5-Trichlorophenol	ND	10	"
2-Chloronaphthalene	ND	5.0	"
2-Nitroaniline	ND	5.0	"
Dimethyl phthalate	ND	5.0	"
Acenaphthylene	ND	5.0	"
2,6-Dinitrotoluene	ND	5.0	"
3-Nitroaniline	ND	5.0	"

Sequoia Analytical - Sacramento

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Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070166 - EPA 3510C Sep Funnel

Blank (3070166-BLK1)

Prepared & Analyzed: 07/14/03

Acenaphthene	ND	5.0	ug/l							
2,4-Dinitrophenol	ND	20	"							
4-Nitrophenol	ND	20	"							
Dibenzofuran	ND	5.0	"							
2,4-Dinitrotoluene	ND	5.0	"							
Diethyl phthalate	ND	5.0	"							
4-Chlorophenyl phenyl ether	ND	5.0	"							
Fluorene	ND	5.0	"							
4,6-Dinitro-2-methylphenol	ND	20	"							
N-Nitrosodiphenylamine	ND	5.0	"							
Azobenzene	ND	5.0	"							
4-Nitroaniline	ND	5.0	"							
4-Bromophenyl phenyl ether	ND	5.0	"							
Hexachlorobenzene	ND	5.0	"							
Pentachlorophenol	ND	20	"							
Phenanthrene	ND	5.0	"							
Anthracene	ND	5.0	"							
Carbazole	ND	5.0	"							
Di-n-butyl phthalate	ND	5.0	"							
Fluoranthene	ND	5.0	"							
Pyrene	ND	5.0	"							
Benzyl butyl phthalate	ND	5.0	"							
3,3'-Dichlorobenzidine	ND	10	"							
Bis(2-ethylhexyl)phthalate	ND	5.0	"							
Benzo (a) anthracene	ND	5.0	"							
Chrysene	ND	5.0	"							
Di-n-octyl phthalate	ND	5.0	"							
Benzo (b) fluoranthene	ND	5.0	"							
Benzo (k) fluoranthene	ND	5.0	"							
Benzo (a) pyrene	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	5.0	"							
Dibenz (a,h) anthracene	ND	5.0	"							
Benzo (ghi) perylene	ND	5.0	"							
Surrogate: 2-Fluorophenol	62.5		"	150		42	11.2-69.6			
Surrogate: Phenol-d6	43.8		"	150		29	10-58.7			
Surrogate: Nitrobenzene-d5	114		"	100		114	36.7-118			

Sequoia Analytical - Sacramento

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Gettler-Ryan - Dublin
 6747 Sierra Court, Ste. J
 Dublin CA, 94568

 Project: TOSCO 1156, Oakland, CA
 Project Number: N/A
 Project Manager: Deanna L. Harding

 S307213
 Reported:
 07/23/03 16:21

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070166 - EPA 3510C Sep Funnel
Blank (3070166-BLK1)

Prepared & Analyzed: 07/14/03

<i>Surrogate: 2-Fluorobiphenyl</i>	97.5		"	100		98	44-112			
<i>Surrogate: 2,4,6-Tribromophenol</i>	136		"	150		91	41.5-117			
<i>Surrogate: Terphenyl-d14</i>	96.9		"	100		97	20.7-144			

Laboratory Control Sample (3070166-BS1)

Prepared & Analyzed: 07/14/03

Phenol	54.7	5.0	ug/l	150		36	22-117			
2-Chlorophenol	114	10	"	150		76	28-111			
1,4-Dichlorobenzene	90.0	5.0	"	100		90	29-108			
N-Nitrosodi-n-propylamine	107	5.0	"	100		107	29-119			
1,2,4-Trichlorobenzene	96.7	5.0	"	100		97	24-131			
4-Chloro-3-methylphenol	141	5.0	"	150		94	51-116			
Acenaphthene	97.6	5.0	"	100		98	58-120			
4-Nitrophenol	58.8	20	"	150		39	25-148			
2,4-Dinitrotoluene	106	5.0	"	100		106	60-140			
Pentachlorophenol	79.8	20	"	150		53	40-131			
Pyrene	94.5	5.0	"	100		94	52-127			
<i>Surrogate: 2-Fluorophenol</i>	62.4		"	150		42	11.2-69.6			
<i>Surrogate: Phenol-d6</i>	43.0		"	150		29	10-58.7			
<i>Surrogate: Nitrobenzene-d5</i>	105		"	100		105	36.7-118			
<i>Surrogate: 2-Fluorobiphenyl</i>	90.2		"	100		90	44-112			
<i>Surrogate: 2,4,6-Tribromophenol</i>	131		"	150		87	41.5-117			
<i>Surrogate: Terphenyl-d14</i>	82.5		"	100		82	20.7-144			

Laboratory Control Sample Dup (3070166-BSD1)

Prepared & Analyzed: 07/14/03

Phenol	52.7	5.0	ug/l	150		35	22-117	4	22	
2-Chlorophenol	113	10	"	150		75	28-111	0.9	39	
1,4-Dichlorobenzene	86.6	5.0	"	100		87	29-108	4	41	
N-Nitrosodi-n-propylamine	107	5.0	"	100		107	29-119	0	44	
1,2,4-Trichlorobenzene	92.2	5.0	"	100		92	24-131	5	48	
4-Chloro-3-methylphenol	134	5.0	"	150		89	51-116	5	30	
Acenaphthene	95.5	5.0	"	100		96	58-120	2	27	
4-Nitrophenol	56.3	20	"	150		38	25-148	4	44	
2,4-Dinitrotoluene	105	5.0	"	100		105	60-140	0.9	22	
Pentachlorophenol	73.7	20	"	150		49	40-131	8	33	
Pyrene	90.1	5.0	"	100		90	52-127	5	25	
<i>Surrogate: 2-Fluorophenol</i>	58.7		"	150		39	11.2-69.6			

Sequoia Analytical - Sacramento

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Gettler-Ryan - Dublin 6747 Sierra Court, Ste. J Dublin CA, 94568	Project: TOSCO 1156, Oakland, CA Project Number: N/A Project Manager: Deanna L. Harding	S307213 Reported: 07/23/03 16:21
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3070166 - EPA 3510C Sep Funnel

Laboratory Control Sample Dup (3070166-BSD1)

Prepared & Analyzed: 07/14/03

Surrogate: Phenol-d6	40.5		ug/l	150		27	10-58.7			
Surrogate: Nitrobenzene-d5	102		"	100		102	36.7-118			
Surrogate: 2-Fluorobiphenyl	86.4		"	100		86	44-112			
Surrogate: 2,4,6-Tribromophenol	117		"	150		78	41.5-117			
Surrogate: Terphenyl-d14	76.0		"	100		76	20.7-144			



Gettler-Ryan - Dublin
6747 Sierra Court, Ste. J
Dublin CA, 94568

Project: TOSCO 1156, Oakland, CA
Project Number: N/A
Project Manager: Deanna L. Harding

S307213
Reported:
07/23/03 16:21

Notes and Definitions

- A-01 most of purgeable hydrocarbons area from MTBE
- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- HC-19 Discrete peak @ MTBE.
- HC-19a Discrete peak @ MTBE@3.9min at 110.0619ppb.
- HC-19b Discrete peak @ mtbe@3.9min at 88.5931ppb.
- HT-RS This sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. The results may still be useful for their intended purpose.
- QR-02 The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Gettler-Ryan Inc., Chain-of-Custody

Tosco Corp./ Phillips 66 Co. 2000 Crow Canyon Place Suite 400 San Ramon, CA 94583	Facility Number <u>#1156</u>	Laboratory Name <u>SQUOTA ANALYTICAL</u>
	Facility Address <u>4276 MACARTHUR, OAKLAND, CA</u>	Consultant <u>GETTLER-RYAN, INC. DEANNA L. HARDING</u>
	Global ID <u>T0800102279</u> Project <u>180225.80</u>	Address <u>6747 SIERRA CT., SUITE J, DUBLIN CA 94568</u>
	Client Contact <u>MR. DAVID B. DENITT</u>	Phone <u>(925) 551-7555</u> Fax <u>(925) 551-7899</u>
	Phone <u>916-558-7666</u>	Samples Collected by <u>JOE AJEMIAN</u>

SAC

SAMPLE ID	Number of Containers Media	S - Soil W - Water A - Air C - Charcoal	Sample Preservation	Date/Time (2400 Hrs)	TPH-GAS/ETEX/MTBE EPA 8015/8021B	TPH-DIESEL EPA 8015	TPH-DIESEL w/SIBEX pH EPA 8015	TPH-GAS EPA 8015	TPH-GAS/ETEX/MTBE EPA 8260	OXYGENATES EPA 8260	METHANOL EPA 8015	TOTAL OIL & GREASE EPA 8260	METALS Cd, Cr, Pb, Zn, Ni	NITRATE/SULFATE/ALKALINITY EPA 300 SERIES	HMCS (8010) EPA 8021B	VOC'S (8240) EPA 8260	SMOC'S EPA 8270	Remarks	
QA	1 box	W	KCC	7-7-03	✓														Run MTBE by 8260 on all 8021 MTBE hits.
MW-1	8YOA 2AYS			1208	✓	✓				✓					✓				53072.13-01 returned -02 -03 -04 -05 -06 -07 -08
MW-2	5YOA			0955	✓					✓									
MW-3	"			1127	✓					✓									
MW-4	"			1045	✓					✓									
MW-5	"			0740	✓					✓									
MW-6	"			0825	✓					✓									
MW-7	"			0910	✓					✓									

- OXYGENATES 8260
- 1 - MTBE
 - 2 - TBA
 - 3 - TAME
 - 4 - DPE
 - 5 - ETBE
 - 6 - 1,2-DCA
 - 7 - EDB
 - 8 - ETHANOL

Relinquished By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time (2400 Hrs) 7-7-03	Received By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time (2400 Hrs) 7/7/03	Load Y/N Y	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 72 Hrs. 5 Days 10 Days As Contracted
Relinquished By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time 7/3/03	Received By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time (2400 Hrs) 7/8/03	Load Y/N Y	
Relinquished By (Signature) <i>[Signature]</i>	Organization KCC	Date/Time (2400 Hrs) 7/8/03	Received For Laboratory By (Signature) <i>[Signature]</i>		Date/Time (2400 Hrs) 7/8/03 15:37	Load Y/N Y	

7/9/03
 Deanna Harding
 7/9/03 16:10

FILE NAME: P:\ADMIN\CHUNKLIST\STD-COC.DWG | Layout Tab: Model

Monica Gilman 7/10/03 11:45 AM - 2011 08

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: Gettler Ryan
 REC. BY (PRINT) maruca
 WORKORDER: 8307213

DATE Received at Lab: 7/10/03
 TIME Received at Lab: 11:15
 LOG IN DATE: 7/10/03

Drinking water for regulatory purposes: YES NO
 Wastewater for regulatory purposes: YES NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	#	CLIENT ID	CONTAINER DESCRIPTION	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*							SPP COC
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*							
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent							
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent							
5. Airbill #:							
6. Sample Labels: <input checked="" type="radio"/> Present / Absent							
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody							
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*							
9. Does information on custody reports, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*							
10. Sample received within hold time: <input checked="" type="radio"/> Yes / No*							
11. Proper Preservatives used: <input checked="" type="radio"/> Yes / No*							
12. Temp Rec. at Lab: Is temp 4 +/- 2°C? <input checked="" type="radio"/> Yes / No**							
(Acceptance range for samples requiring thermal pres.) **Exception (if any): Metals / DFP on ice? / DFP no ice? or Problem COC							

Sample Receipt Log
 Revision 2.3 (12/23/02)
 Replaces Revision 2.1 (04/11/02)
 Effective 12/24/02

***If Circled, contact Project Manager and attach record of resolution.**



GETTLER-RYAN INC.

GROUNDWATER MONITORING SUMMARY SHEET

CLIENT/

FACILITY: ConocoPhillips #1156

JOB #: 180225

ADDRESS: 4276 Macarthur

DATE: 7-7-03 (inclusive)

CITY: Oakland, CA

SAMPLER: Soc

Well ID	Total Well Depth	Depth to Water	Product Thickness (ft)	List Item IN Well	Additional Comments
MW-1	25.10	6.47	↓	↓	9.5
MW-2	24.15	6.72	↓	↓	9
MW-3	25.06	8.35	↓	↓	9
MW-4	25.30	6.43	↓	↓	10
MW-5	25.37	2.26	↓	↓	12
MW-6	24.90	2.21	↓	↓	12
MW-7	25.52	7.56	↓	↓	9.5

Comments _____