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October 15, 2002

Mr. Jerome Jaminet
 Project Manager
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Project No. 208-A

Revised Third Quarter 2002
Vapor Extraction and Ground Water Treatment System O&M Report
 Tosco/76 Service Station No. 6519
 28903 Rancho California Road
 Temecula, California

Dear Mr. Jaminet

Environ Strategy Consultants, Inc. is pleased to submit this remediation system operation and maintenance (O&M) report for Tosco/76 Service Station No. 6519, located at 28903 Rancho California Road. in Temecula, California. This report summarizes the soil and ground water remediation system operation, field data and laboratory analytical results collected during the Third Quarter 2002.

	<u>Soil Vapor Extraction System</u>	<u>Ground Water Treatment System</u>
Equipment Information	Unipure 500 scfm Catalytic/Thermal VES System. Serial #: 76-TCO-250.	Three (3) 1,000 lbs carbon vessels
Discharge Permit Information	SCAQMD Permit No. F11797 Expiration Date: January 16, 2003 Discharge Limits: 3 ppm (v) Hexane	E.M.W.D. Permit No. 520 Discharge Limits: 2,130 ppb Total of BTEX and MTBE
Operation Data During Reporting Period: July 1 - Sept. 30, 2002	Hours of Operation: 1,645 Pounds of Hydrocarbon Recovered: 2,473	Gallons of Ground Water Processed: 30,911
System Operation Data Since Startup: Vapor: July 31, 2000 GWTS: May 15, 2002	Total Hours of Operation: 12,114 Total Pounds of Hydrocarbon Recovered: 10,506	Total Gallons of Ground Water Processed: 73,472
Notes: July 22, 2002 Ground Water Treatment system shutdown per request of the Sanitation District.		

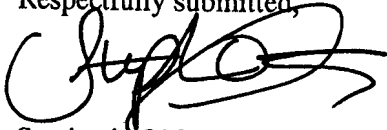
Third Quarter 2002 O&M Report

Tosco Service Station No. 6519
Temecula, California

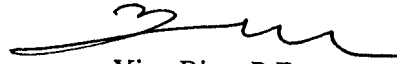
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Environ Strategy appreciates the opportunity to be of service. If you have any questions or require additional information regarding this report, please do not hesitate to call us at (949) 581-3222.

Respectfully submitted,



Stephanie O'Connor
Project Coordinator



Ying Bian, P.E.
Senior Engineer



Attachments: Figure - Site Plan

Table 1- Summary of Vapor Extraction System Monitoring Data
Table 2 - VES Hydrocarbon Well Concentrations
Table 3 - VES Influent and Well Analytical Data
Table 4 - Discharge Monitoring Analytical Data

Graph 1 - VES Performance
Graph 2 - VES Hydrocarbon Concentration
Graph 3 - VES Laboratory Analytical Data

Laboratory Analytical Results

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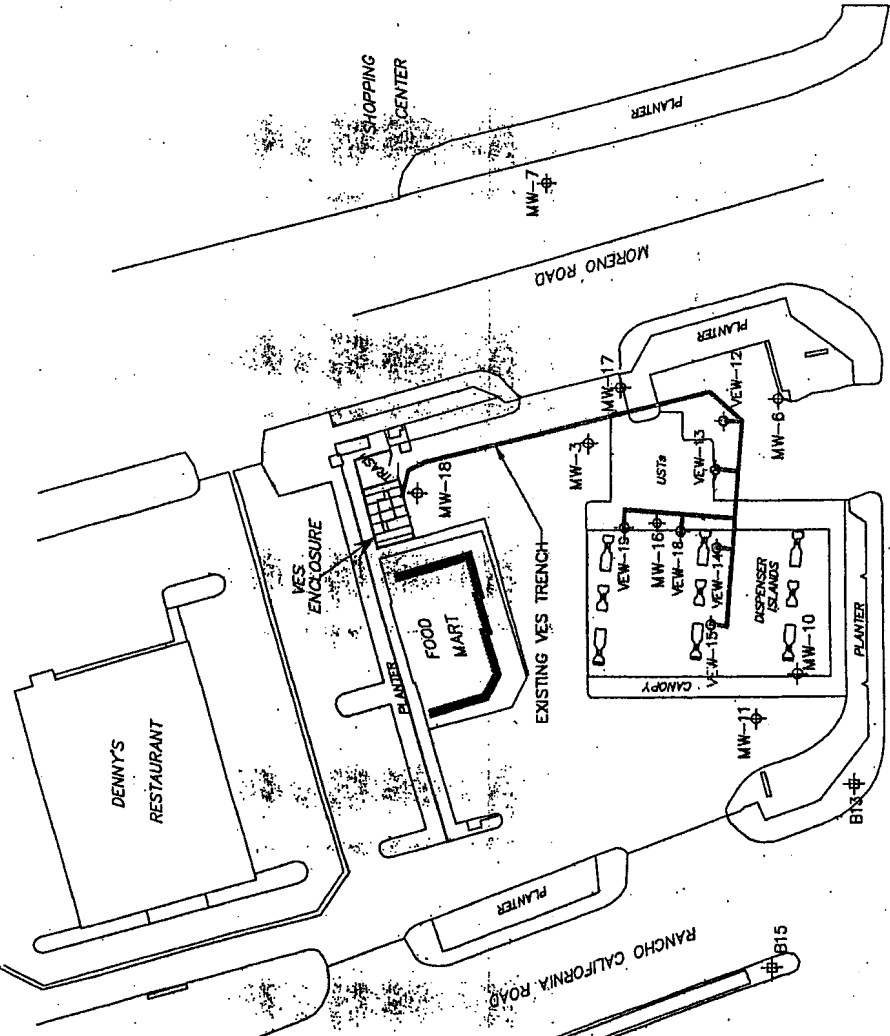
Figures



LEGEND	
MW-9	Monitoring Well
AS-2	Air Sparge Well
VW-1	Vapor Extraction Well
B13	Boring Location
—	Existing Vapor Extraction Trench

NOTES:
All dimensions and locations are estimated.

SOURCE:
Modified from a map provided by Unisure Environmental and General Arrangement provided by Unocal Corporation.



TRC	PROJECT: 600121	REV #	REVISION	BY	DATE
	FACILITY: 76 STATION 6519 28803 RANCHO CALIFORNIA ROAD TEMECULA, CALIFORNIA	TITLE: EXISTING SITE PLAN			
6519	DATE: 11/28/01	DRAWING No. B-1		SHEET 1 of 1	

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Tables

Table 1
Summary of Vapor Extraction System Monitoring Data
Tosco/76 Products SS 6519
Sheet 1 of 2

Date	Possible Period Hours	Period On-line Factor	Cumulative On-line Factor	# of Wells (Zones) On-line	Cumulative Operating Hours	Actual Period Hours	Influent Vacuum (inches H ₂ O)	System Flowrate (scfm)	Total Well Flow (scfm)	Ave. Well Infl. Conc. (ppmV)	Ave. System Infl. Conc. (ppmV)	System Infl. O ₂ Conc. %	Effluent Conc. (ppmV)	System Combustion Temp. (F)	Temp. Below Cat. Bed (F)	Temp. Above Cat. Bed (F)	Removal Rate (#DIV/ft)	HC Period (hrs)	HC Cumulative (lbs)
07/23/00	1	0.00	0.00	2	0	0	21	193	30	800	125	20.0	0	1,405	NA	NA	NA	0	0
08/02/00	48	0.96	1	4	46	46	37	168	21	400	50	21.0	0	1,441	NA	NA	5	9	9
08/09/00	168	1.00	1	2	214	168	52	159	22	1,104	150	20.0	0	1,404	NA	NA	5	36	45
08/10/00	24	0.92	1	2	236	22	73	132	22	1,360	225	20.0	0	1,400	NA	NA	8	7	53
08/16/00	144	0.98	1	4	290	54	78	171	47	550	150	18.0	0	1,445	NA	NA	10	24	76
08/17/00	24	0.96	1	4	313	23	73	143	44	410	125	20.0	0	1,435	NA	NA	6	6	83
08/22/00	120	1.00	1	4	433	120	78	145	48	225	75	21.0	0	1,400	NA	NA	5	24	106
08/29/00	24	1.00	1	4	461	28	72	146	73	150	75	21.0	0	1,427	NA	NA	4	4	110
08/30/00	168	0.99	1	4	627	168	60	161	67	75	45	20.5	0	1,453	NA	NA	3	22	132
09/07/00	192	0.99	1	4	817	180	125	123	62	200	100	20.5	0	1,455	NA	NA	3	23	155
09/19/00	288	0.01	1	4	819	2	55	171	120	250	175	19.0	0	1,455	NA	NA	8	1	155
09/29/00	240	0.50	1	4	940	121	39	179	143	200	200	21.0	0	1,455	NA	NA	11	55	211
10/09/00	96	1.00	1	4	1,080	140	104	183	165	250	225	21.0	0	1,450	NA	NA	13	74	285
10/20/00	264	0.36	1	4	1,185	105	104	145	116	1,380	1,104	20.5	0	1,442	NA	NA	31	138	423
10/26/00	144	0.99	1	4	1,279	94	39	187	34	100	20	21.5	0	1,442	NA	NA	34	134	558
11/02/00	168	0.99	1	4	1,422	143	40	188	38	100	20	21.5	0	1,455	NA	NA	1	7	565
11/08/00	144	1.00	1	4	1,588	166	60	189	19	250	25	20.5	0	1,415	NA	NA	6	10	575
11/17/00	216	1.00	1	4	1,735	147	52	173	53	650	200	19.0	0	1,415	NA	NA	6	39	614
11/29/00	168	0.50	1	4	2,001	48	64	170	82	450	250	21.0	0	1,377	NA	NA	18	98	712
12/06/00	192	0.98	1	4	2,167	168	62	168	458	110	300	22.0	0	1,440	NA	NA	11	36	748
12/13/00	168	1.00	1	4	2,355	188	65	170	73	210	90	21.0	0	1,420	NA	NA	19	133	881
12/20/00	168	1.00	1	4	2,528	171	75	159	159	50	50	21.0	0	1,420	NA	NA	11	85	986
12/27/00	168	1.00	1	4	2,801	75	42	183	183	100	100	20.5	0	1,420	NA	NA	4	26	991
01/03/01	168	0.99	1	4	2,770	169	48	182	100	200	110	21.0	0	1,418	NA	NA	6	14	1,005
01/08/01	120	1.00	1	5	2,937	167	42	185	77	275	115	22.0	0	1,420	NA	NA	7	44	1,049
01/15/01	168	0.99	1	5	3,059	122	40	184	51	715	200	22.0	0	1,420	NA	NA	9	47	1,087
01/25/01	240	1.00	1	5	3,225	166	41	186	72	775	300	22.0	0	1,420	NA	NA	15	105	1,145
01/31/01	144	0.98	1	5	3,467	242	41	186	74	625	250	22.0	0	1,420	NA	NA	17	169	1,419
02/07/01	168	0.98	1	5	3,608	141	64	157	111	425	300	21.0	0	1,420	NA	NA	14	83	1,501
02/13/01	144	0.94	1	5	3,708	98	62	166	123	3,208	2,380	20.0	0	1,420	NA	NA	73	297	1,798
02/21/01	192	0.99	1	5	3,842	136	72	140	301	100	215	22.0	0	1,422	NA	NA	59	336	2,135
02/27/01	144	1.00	1	5	4,033	191	78	144	216	50	75	22.0	0	1,422	NA	NA	7	54	2,189
03/06/01	848	0.06	1	5	4,178	145	90	140	196	50	70	22.0	0	1,417	NA	NA	3	20	2,209
04/04/01	216	0.11	1	5	4,220	42	80	150	122	552	552	16.0	0	1,420	NA	NA	15	27	2,236
04/09/01	120	1.00	1	5	4,243	23	86	143	129	100	90	22.0	0	1,422	NA	NA	19	19	2,254
04/16/01	168	0.95	1	5	4,364	121	86	143	129	125	175	22.0	0	1,422	NA	NA	7	33	2,287
04/26/01	240	0.28	1	5	4,524	160	75	145	203	225	300	19.0	0	1,422	NA	NA	6	42	2,329
05/02/01	144	0.97	1	5	4,590	86	80	140	187	225	300	18.0	0	1,422	NA	NA	11	30	2,359
05/09/01	144	1.00	1	5	4,730	140	76	146	127	75	65	20.0	0	1,421	NA	NA	9	51	2,410
05/14/01	144	1.00	1	5	4,877	147	73	143	143	200	200	22.0	0	1,420	NA	NA	6	38	2,448
05/24/01	240	1.00	1	6	5,023	146	74	146	142	1,000	975	21.0	0	1,420	NA	NA	25	170	2,618
05/29/01	120	1.00	1	6	5,262	239	74	145	88	125	78	21.0	0	1,420	NA	NA	28	248	2,868
06/04/01	144	1.00	1	6	5,384	122	74	143	114	125	100	21.0	0	1,420	NA	NA	4	21	2,887
06/10/01	168	0.99	1	6	5,528	144	74	144	144	325	325	21.0	0	1,420	NA	NA	10	60	2,947
06/19/01	168	0.96	1	6	5,719	191	76	144	144	125	125	21.0	0	1,420	NA	NA	6	84	3,031
07/03/01	336	0.68	1	6	5,881	182	77	146	146	125	125	21.0	0	1,420	NA	NA	11	84	3,071
07/10/01	168	0.32	1	6	6,110	229	90	128	128	350	350	19.0	0	1,425	NA	NA	10	95	3,168
07/18/01	192	0.14	1	6	6,184	54	86	136	136	350	350	18.0	0	1,422	NA	NA	16	35	3,201
07/25/01	168	0.01	1	6	6,190	26	85	127	127	600	600	17.0	0	1,425	NA	NA	20	21	3,223
07/30/01	120	0.06	1	6	6,199	2	86	133	253	475	475	17.0	0	1,425	NA	NA	23	2	3,224
08/09/01	240	0.99	1	6	6,436	237	49	169	143	800	675	18.0	0	1,425	NA	NA	32	9	3,234
08/17/01	192	0.99	1	6	6,436	191	54	163	183	75	75	21.0	0	1,420	NA	NA	21	164	3,593
08/22/01	120	1.00	1	6	6,766	139	58	164	123	100	100	21.0	0	1,418	NA	NA	4	23	3,781
08/29/01	168	0.89	1	6	6,915	149	56	165	165	50	50	21.0	0	1,420	NA	NA	3	21	3,802
09/05/01	192	0.88	1	6	7,084	169	65	149	112	100	75	21.0	0	1,418	NA	NA	3	21	3,823
09/12/01	144	0.99	1	6	7,227	143	72	144	144	50	50	21.0	0	1,418	NA	NA	3	18	3,841

Table 1
Summary of Vapor Extraction System Monitoring Data
Tosco/76 Products SS 6519
Sheet 2 of 2

Date	Possible Period (Hours)	Period On-line Factor	Cumulative On-line Factor	# of Wells (Zones) On-line	Cumulative Operating Hours	Actual Period Hours	Influent Vacuum (inches H ₂ O)	System Flowrate (scfm)	Total Well Flow (scfm)	Ave. Well Infl. Conc (ppm(v))	Ave. System Infl. Conc (ppm(v))	System O ₂ Conc. %	Effluent Conc (ppm(v))	System Combustion Temp. (F)	Temp. Below Cat. Bed (F)	Temp. Above Cat. Bed (F)	Removal Rate (lbs/day)	HC Period (lbs)	HC Cumulative (lbs)
09/17/01	120	1.00	1	6	7,353	128	70	144	144	175	175	21.0	0	1,420	NA	NA	5	28	3,868
10/09/01	384	0.05	1	6	7,374	21	70	145	145	300	300	20.8	0	1,450	NA	NA	11	10	3,878
10/15/01	120	1.00	1	6	7,496	122	70	151	151	275	275	20.8	0	1,453	NA	NA	14	72	3,950
10/15/01	168	0.58	1	6	7,593	97	70	147	147	325	325	20.8	0	1,452	NA	NA	14	58	4,009
10/22/01	168	0.91	1	6	7,746	153	70	142	142	300	300	20.8	0	1,457	NA	NA	14	92	4,101
10/29/01	168	0.81	1	6	7,848	102	-	-	-	-	-	-	-	-	-	-	-	0	4,101
11/12/01	336	0.00	1	1	7,848	0	100	116	77	1,200	800	20.8	0	1,452	NA	NA	-	0	4,101
11/19/01	168	0.02	1	1	7,851	3	100	112	81	1,000	725	20.8	1	1,450	NA	NA	656	82	4,183
11/26/01	168	0.05	1	1	7,859	8	100	117	80	1,100	750	20.8	0	1,453	NA	NA	28	9	4,192
12/03/01	168	0.10	1	3	7,876	17	100	120	120	850	850	20.8	2	1,452	NA	NA	31	22	4,215
12/10/01	168	0.35	1	3	7,934	58	100	126	126	750	750	20.8	1	1,450	NA	NA	33	80	4,294
12/17/01	168	0.90	1	3	8,085	151	100	124	124	825	825	20.8	0	1,452	NA	NA	32	201	4,495
12/24/01	168	0.99	1	3	8,251	166	100	127	127	875	875	20.8	1	1,455	NA	NA	35	244	4,739
12/31/01	168	0.89	1	3	8,401	150	100	125	125	850	850	20.8	1	1,452	NA	NA	35	220	4,959
01/07/02	168	-1.23	1	3	8,195	-206	100	129	129	800	800	20.8	1	1,454	NA	NA	35	290	4,961
01/14/02	168	0.45	1	3	8,271	76	100	127	127	750	750	20.8	1	1,450	NA	NA	32	102	4,762
01/21/02	168	0.51	1	3	8,357	86	100	130	130	775	775	20.8	0	1,452	NA	NA	32	116	4,879
01/28/02	72	0.54	1	3	8,396	39	100	0	0	775	775	20.8	0	0	NA	NA	0	0	4,879
02/05/02	768	0.00	1	3	8,396	0	100	136	136	775	775	20.8	0	1,455	NA	NA	0	0	4,879
03/05/02	192	1.00	1	3	8,591	195	100	133	133	775	775	20.8	0	1,456	NA	NA	34	274	5,152
03/11/02	144	1.00	1	3	8,735	144	100	138	138	775	775	20.8	0	1,452	NA	NA	35	210	5,362
03/15/02	96	1.00	1	3	8,831	96	100	134	134	775	775	20.8	0	1,455	NA	NA	34	136	5,498
03/18/02	72	1.00	1	3	8,921	90	100	139	139	775	775	20.8	0	1,458	NA	NA	35	132	5,530
03/25/02	168	0.96	1	3	9,083	162	100	137	137	775	775	20.8	0	1,454	NA	NA	35	234	5,884
04/01/02	168	0.15	1	-	9,108	25	-	-	-	-	-	-	-	-	-	-	-	0	5,964
05/15/02	1056	0.00	1	3	9,108	0	75	187	187	528	525	20.8	0	1,455	NA	NA	0	0	5,964
05/20/02	120	1.00	1	3	9,785	677	75	188	188	600	600	20.8	0	1,453	NA	NA	35	975	6,939
05/27/02	168	0.28	1	3	9,632	47	75	185	185	550	550	20.8	0	1,454	NA	NA	35	68	6,907
06/03/02	168	0.76	1	10	9,960	128	75	186	186	875	875	20.8	0	1,456	NA	NA	43	231	7,138
06/10/02	168	0.96	1	10	10,121	161	75	181	181	725	725	20.8	0	1,458	NA	NA	47	317	7,455
06/17/02	168	0.98	1	10	10,285	164	75	184	184	600	600	20.8	0	1,455	NA	NA	40	272	7,727
06/24/02	168	1.00	1	10	10,469	184	75	188	188	700	700	20.8	0	1,452	NA	NA	40	306	8,033
07/01/02	168	0.99	1	16	10,635	166	75	189	189	650	650	20.8	0	1,454	NA	NA	42	288	8,322
07/08/02	168	0.99	1	16	10,802	167	75	185	185	700	700	20.8	0	1,452	NA	NA	40	288	8,605
07/15/02	168	1.00	1	16	10,970	168	75	186	186	625	625	20.8	0	1,458	NA	NA	40	282	8,987
07/22/02	168	0.88	1	16	11,118	148	75	183	183	550	550	20.8	0	1,456	NA	NA	35	217	9,104
07/29/02	168	1.00	1	16	11,303	185	75	187	187	600	600	20.8	0	1,458	NA	NA	35	271	9,375
08/05/02	168	0.99	1	16	11,488	165	75	185	185	575	575	20.8	0	1,458	NA	NA	36	244	9,619
08/12/02	168	0.98	1	16	11,632	164	75	187	187	625	625	20.8	0	1,456	NA	NA	37	251	9,869
08/19/02	168	1.00	1	16	11,790	158	75	183	183	550	550	20.8	0	1,454	NA	NA	35	231	10,101
08/26/02	168	0.94	1	16	11,976	186	75	184	184	525	525	20.8	0	1,455	NA	NA	32	250	10,351
09/02/02	168	0.48	1	16	12,057	81	75	185	185	425	425	20.8	0	1,454	NA	NA	29	97	10,448
09/09/02	168	0.34	1	16	12,114	57	75	186	186	375	375	20.8	0	1,455	NA	NA	24	58	10,506

- Notes:
1. VES began operating on August 31, 2000.
 2. Hydrocarbon concentrations were measured using a Oxygen Vapor Monitor Model # 1314
 3. Effluent HC concentrations include only non-methane hydrocarbons
 4. Average system influent HC concentrations include dilution air
 5. 1% LEL = 138 ppmv (approximately)
 6. NR = Not reported by previous consultant.

Table 1
Summary of Vapor Extraction System Monitoring Data
Tosco/76 Products SS 6519
Sheet 2 of 2

Date	Possible Period Hours	Period On-line Factor	Cumulative On-line Factor	# of Wells (Zones) On-line	Cumulative Operating Hours	Actual Period Hours	Influent Vacuum (Inches H ₂ O)	System Flowrate (scfm)	Total Well Flow (scfm)	Ave. Well Infl. Conc (ppmv)	Ave. System Infl. Conc (ppmv)	System O ₂ Conc. %	System Infl. Conc (ppmv)	Effluent Conc (ppmv)	System Combustion Temp. (F)	Temp. Below Cat. Bed (F)	Temp. Above Cat. Bed (F)	Removal Rate (lbs/day)	HC Period (lbs)	HC Cumulative (lbs)
09/17/01	120	1.00	1	6	7,353	126	70	144	144	175	175	21.0	144	0	1,420	NA	NA	5	28	3,668
10/03/01	384	0.05	1	6	7,374	21	70	145	145	300	300	20.8	145	0	1,450	NA	NA	11	10	3,678
10/08/01	120	1.00	1	6	7,496	122	70	151	151	275	275	20.8	151	0	1,453	NA	NA	14	72	3,950
10/15/01	168	0.58	1	6	7,593	97	70	147	147	325	325	20.8	147	0	1,452	NA	NA	14	58	4,009
10/22/01	168	0.91	1	6	7,746	153	70	142	142	300	300	20.8	142	0	1,457	NA	NA	14	92	4,101
10/29/01	168	0.61	1	-	7,848	102	-	-	-	-	-	-	-	-	-	-	-	-	0	4,101
11/12/01	336	0.00	1	1	7,848	0	100	116	77	1,200	800	20.8	116	0	1,452	NA	NA	-	0	4,101
11/19/01	168	0.02	1	1	7,851	3	100	112	81	1,000	725	20.8	112	0	1,450	NA	NA	656	82	4,183
11/26/01	168	0.05	1	1	7,859	8	100	117	80	1,100	750	20.8	117	0	1,453	NA	NA	28	9	4,192
12/03/01	168	0.10	1	3	7,876	17	100	120	120	850	850	20.8	120	2	1,452	NA	NA	31	22	4,215
12/10/01	168	0.35	1	3	7,934	58	100	126	126	750	750	20.8	126	1	1,450	NA	NA	33	80	4,294
12/17/01	168	0.80	1	3	8,085	151	100	124	124	825	825	20.8	124	1	1,452	NA	NA	32	201	4,495
12/24/01	168	0.69	1	3	8,251	166	100	127	127	875	875	20.8	127	1	1,455	NA	NA	35	244	4,739
12/31/01	168	0.89	1	3	8,401	150	100	125	125	850	850	20.8	125	1	1,454	NA	NA	35	220	4,959
01/07/02	168	-1.23	1	3	8,195	-206	100	129	129	800	800	20.8	129	0	1,454	NA	NA	35	-298	4,661
01/14/02	168	0.45	1	3	8,271	76	100	127	127	750	750	20.8	127	1	1,450	NA	NA	32	102	4,762
01/21/02	168	0.51	1	3	8,357	88	100	130	130	775	775	20.8	130	0	1,452	NA	NA	32	116	4,879
01/28/02	72	0.54	1	3	8,396	39	100	0	0	775	775	0.0	0	0	0	NA	NA	0	0	4,879
02/05/02	168	0.00	1	3	8,396	0	100	136	136	775	775	20.8	136	0	1,455	NA	NA	0	0	4,879
03/05/02	192	1.00	1	3	8,591	195	100	139	133	775	775	20.8	139	0	1,456	NA	NA	34	274	5,152
03/11/02	144	1.00	1	3	8,735	144	100	138	138	775	775	20.8	138	0	1,452	NA	NA	35	210	5,362
03/15/02	96	1.00	1	3	8,831	96	100	134	134	775	775	20.8	134	0	1,455	NA	NA	34	136	5,498
03/18/02	72	1.00	1	3	8,921	90	100	139	139	775	775	20.8	139	0	1,458	NA	NA	35	132	5,630
03/25/02	168	0.96	1	3	9,083	162	100	137	137	775	775	20.8	137	0	1,454	NA	NA	35	234	5,864
04/01/02	168	0.15	1	-	9,108	25	-	-	-	-	-	-	-	-	-	-	-	-	0	5,864
05/15/02	1056	0.00	1	3	9,108	0	75	187	187	528	525	20.8	187	0	1,455	NA	NA	0	0	5,864
05/22/02	120	1.00	1	3	9,785	877	75	188	188	600	600	20.8	188	0	1,453	NA	NA	35	975	6,838
05/27/02	168	0.28	1	3	9,832	47	75	185	185	550	550	20.8	185	0	1,454	NA	NA	35	68	6,907
06/03/02	168	0.76	1	10	9,960	128	75	186	186	875	875	20.8	186	0	1,456	NA	NA	43	231	7,136
06/10/02	168	0.96	1	10	10,121	161	75	181	181	725	725	20.8	181	0	1,458	NA	NA	47	317	7,455
06/17/02	168	0.98	1	10	10,285	164	75	184	184	600	600	20.8	184	0	1,452	NA	NA	40	272	7,727
06/24/02	168	1.00	1	10	10,469	184	75	188	188	700	700	20.8	188	0	1,452	NA	NA	40	306	8,033
07/01/02	168	0.99	1	16	10,635	166	75	189	189	650	650	20.8	189	0	1,454	NA	NA	42	288	8,322
07/08/02	168	0.99	1	16	10,802	167	75	185	185	700	700	20.8	185	0	1,452	NA	NA	41	284	8,605
07/15/02	168	1.00	1	16	10,970	166	75	186	186	625	625	20.8	186	0	1,459	NA	NA	40	282	8,887
07/22/02	168	0.88	1	16	11,118	148	75	183	183	550	550	20.8	183	0	1,456	NA	NA	35	217	9,104
07/29/02	168	1.00	1	16	11,303	185	75	187	187	600	600	20.8	187	0	1,455	NA	NA	35	271	9,375
08/05/02	168	0.98	1	16	11,468	165	75	185	185	575	575	20.8	185	0	1,458	NA	NA	36	244	9,619
08/12/02	168	0.98	1	16	11,632	164	75	187	187	625	625	20.8	187	0	1,456	NA	NA	37	251	9,869
08/19/02	168	0.94	1	16	11,790	158	75	183	183	550	550	20.8	183	0	1,454	NA	NA	35	231	10,101
08/26/02	168	1.00	1	16	11,976	186	75	184	184	525	525	20.8	184	0	1,455	NA	NA	32	250	10,351
09/02/02	168	0.48	1	16	12,057	81	75	185	185	425	425	20.8	185	0	1,454	NA	NA	29	97	10,448
09/09/02	168	0.34	1	16	12,114	57	75	186	186	375	375	20.8	186	0	1,455	NA	NA	24	58	10,506

- Notes:
1. VES began operating on August 31, 2000.
 2. Hydrocarbon concentrations were measured using a Oxygen Vapor Monitor Model #1314
 3. Effluent HC concentrations include only non-methane hydrocarbons
 4. Average system influent HC concentrations include dilution air
 5. 1% LEL = 138 ppmv (approximately)
 6. NR = Not reported by previous consultant.
 7. NA = Not applicable

Table 3
Tosco/76 Products SS 6519
System and Well Analytical Data
Sheet 1 of 2

Date	Pre-Dilution VAPOR SYSTEM	EPA METHOD 8015/8020 w/MTBE										FIXED GASES			
		Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio	O2 (%)	N2 (%)	CO2 (%)	CO (%)	H2 (%)	CH4 (%)	C2H6 (%)	
07/31/00	1,680	2.4	1.4	1.5	9.4	26	0.1%								
08/09/00	1,550	3.1	1.7	2.3	17	29	0.2%	18.6	3.3	<0.1					
09/19/00	171	0.29	4.0	1.2	8.6	13	0.2%								
10/09/00	395	3.4	4.1	0.6	13.0	1.1	0.9%								
11/21/00	244	0.081	1.2	0.37	3.5	3.9	0.0%	22.1	0.2	ND					
12/20/00	96	0.11	1.5	0.3	2.2	3.3	0.1%								
01/03/01	61	0.028	0.18	0.07	0.75	0.98	0.0%	22.4	0.1	ND					
02/13/01	50	0.081	1.4	0.05	0.96	0.955	0.2%								
03/26/01	913	1.5	3.3	3.3	1.5	1.7	0.2%								
04/04/01	7	0.002	0.0067	0.0036	0.048	0.049	0.0%	22.4	0.1	ND					
05/08/01	108	0.38	2.3	0.7	4.1	0.73	0.4%								
06/19/01	23	0.027	0.45	0.074	0.099	-2.0	0.1%								
07/10/01	167	0.82	5.4	0.82	1.9	8.7	0.5%								
08/22/01	38	<1.6	<1.3	<1.2	3.1	<1.4	4.2%	22.0	0.1	ND					
09/12/01	20	<1.6	<1.3	<1.2	1.5	<1.4	8.0%								
10/09/01	190	<1.6	4	1.9	12	<1.4	#VALUE!								
11/12/01	110	120	7.9	36	220	7.3%									
12/03/01	550	5.2	14	2.5	39	4.1	0.2%	18	1.8	<0.10					
01/07/02	600	26	18	<2.4	8.5	39	4.3%								
03/15/02	470	14	<5.2	<4.8	4.9	14	3.0%	21	0.94	<0.10					
06/10/02	880	34	42	5.5	38	<1.4	3.9%								
07/08/02	560	7.4	25	4.8	34	4.7	1.3%								
08/05/02	240	<1.6	11	3.8	21	<1.4	#VALUE!	21	0.47	<0.0010					
09/09/02	50	<1.6	3.0	<1.2	4.8	<1.4	#VALUE!								

Date	TPH-G (ppmv)	EPA METHOD 8015/8020 w/MTBE										EPA METHOD 8015/8020 w/MTBE			
		Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio	Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/09/00	1,320	2.4	15	2.1	15	24	0.2%	08/09/00	5.840	2	12	1.9	15	250	0.0%
12/20/00	12	0.0039	0.067	0.062	0.47	0.0088	0.0%	12/20/00	10	0.006	0.055	0.049	0.39	0.12	0.1%
02/13/01	<3.0	0.0032	0.018	0.025	0.14	0.015	0.1%	02/13/01	NT	NT	NT	NT	NT	NT	NT
04/04/01	<3.0	0.0083	0.007	0.0031	0.04	0.0044	0.0%	04/04/01	<3.0	0.00083	0.0088	0.0042	0.053	0.004	0.0%
08/22/01	61	<1.6	<1.3	<1.2	<1.2	<1.4	26.2%	04/04/01	15	<1.6	<1.3	<1.2	<1.4	<1.4	10.7%
03/15/02	370	6.1	9.5	3.1	33	3.9	1.6%	03/15/02	310	5.1	7	2.3	21	3.2	1.6%
09/05/02	450	<1.6	14	7.5	56	<1.4	#VALUE!	09/05/02	100	<1.6	<1.3	1.4	9.9	<1.4	#VALUE!

Date	TPH-G (ppmv)	EPA METHOD 8015/8020 w/MTBE										EPA METHOD 8015/8020 w/MTBE			
		Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio	Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/09/00	NT	NT	NT	NT	NT	NT	NT	08/09/00	4,500	0.34	0.16	0.15	0.72	100	0.0%
12/20/00	NT	NT	NT	NT	NT	NT	NT	12/20/00	67	0.038	0.038	0.038	0.53	0.26	0.0%
02/13/01	62	0.087	0.15	0.12	0.99	0.052	0.1%	02/13/01	11	0.0072	0.062	0.064	0.79	0.035	0.1%
04/04/01	12	0.0087	0.004	0.0028	0.036	0.013	0.0%	04/04/01	<3.0	<0.0005	0.0045	0.002	0.0261	0.019	0.0%
08/22/01	97	<1.6	<1.3	<1.2	<1.2	<1.4	16.5%	08/22/01	23	<1.6	<1.3	<1.2	<1.4	<1.4	7.0%
03/15/02	99	3.7	<1.3	<1.2	<1.2	3.5	3.7%	03/15/02	200	8.6	21	3.4	45	7.9	1.1%
09/05/02	630	<1.6	21	11	82	<1.4	#VALUE!	09/05/02	120	<1.6	<1.3	1.7	13	<1.4	4.3%

Table 3 LAB DATA TAB

Table 3
 Tosco/76 Products SS 6519
 System and Well Analytical Data
 Sheet 2 of 2

VIEW19		EPA METHOD 8015/8020 w/MTBE						EPA METHOD 8015/8020 w/MTBE							
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio	Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/09/00	6,790	15	120	31	170	280	0.2%	08/09/00	NT	NT	NT	NT	NT	NT	NT
12/20/00	123	0.23	3.3	0.52	4.3	9.8	0.2%	12/20/00	NT	NT	NT	NT	NT	NT	NT
02/13/01	62	0.31	0.46	0.098	2.2	7.5	0.5%	02/13/01	NT	NT	NT	NT	NT	NT	NT
04/04/01	15	0.11	0.11	0.03	0.5	1.8	0.7%	05/08/01	105	0.15	0.88	0.66	5.2	3.9	0.1%
08/22/01	420	4.9	6.4	2.1	37	4.2	1.2%	08/22/01	300	1.8	3.6	1.8	39	1.5	0.5%
12/03/01	1,100	11	12	2.5	41	46	1.0%	12/03/01	740	7.6	12	4.0	24	24	1.0%
03/15/02	750	34	2.9	5.0	3.4	34	4.5%	03/15/02	480	22	1.7	3.6	1.2	21	4.6%
08/06/02	42	<1.6	<1.3	1.3	3.1	<1.4	#VALUE!	08/06/02	37	<1.6	<1.3	<1.2	2.5	<1.4	#VALUE!

MW-10		EPA METHOD 8015/8020 w/MTBE					
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/05/02	78	<1.6	3.1	1.3	7.3	<1.4	#VALUE!

MW-16		EPA METHOD 8015/8020 w/MTBE					
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/05/02	330	<1.6	5.8	3.9	37	<1.4	#VALUE!

PEW-2		EPA METHOD 8015/8020 w/MTBE					
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/05/02	160	3.8	<1.3	<1.2	3.0	4.7	2.4%

PEW-4		EPA METHOD 8015/8020 w/MTBE					
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/05/02	130	<1.6	8.4	2.2	17	<1.4	#VALUE!

PEW-6		EPA METHOD 8015/8020 w/MTBE					
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/05/02	80	<1.6	2.7	<1.2	6.0	<1.4	#VALUE!

PEW-7		EPA METHOD 8015/8020 w/MTBE					
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
08/05/02	80	<1.6	2.7	<1.2	6.0	<1.4	#VALUE!

Effluent		EPA METHOD 8015/8020 w/MTBE					
Date	TPH-G (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	MTBE (ppmv)	Benzene/TPH Ratio
10/08/01	4.1	<1.6	<1.3	1.5	<1.2	<1.4	#VALUE!
11/12/01	9.5	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
12/03/01	19	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
01/07/02	<2.4	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
03/15/02	<2.4	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
05/27/02	<2.4	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
06/10/02	4.7	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
07/08/02	6.3	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
08/05/02	4.6	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!
08/09/02	6.6	<1.6	<1.3	<1.2	<1.2	<1.4	#VALUE!

ERI began operation of the system on July 31, 2000.
 < 3 = Non Detect, less than laboratory reporting limit
 NT = Not Tested
 CL = Closed Well
 ppmv = parts per million by volume

Table 4
Dewatering/P&T Remediation System
Discharge Monitoring Analytical Data
76 Station No. 5965
NPDES Permit No. CAG919002
Page 1 of 1

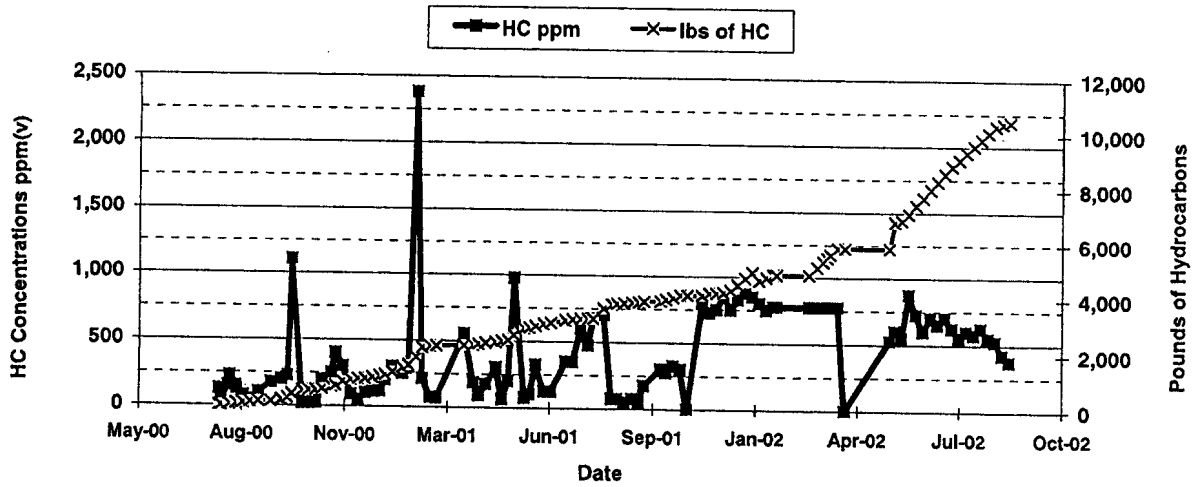
Date	Sample ID	Total flow gallons	Average Flowrate gpd	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)
5/27/2002	Influent	18,450	2,011							
	Effluent A									
	Effluent B									
	Effluent C				<0.30	<0.30	<0.30	<0.60	<10	
6/10/2002	Influent	30,540	864	16,000	1,300	2,700	750	4,100	2,200	26,000
	Effluent A									
	Effluent B									
	Effluent C				<0.30	<0.30	<0.30	<0.60	<10	
7/8/2002	Influent	29,087	848	10,000	640	1,600	190	2,900	860	21,000
	Effluent A									
	Effluent B									
	Effluent C				<0.30	<0.30	<0.30	<0.60	<10	
Discharge Limits										

Notes:
Effluent A sample collected from between carbon vessel
Effluent B sample collected after both carbon vessels
Effluent C sample collected all carbon vessels
TPHg - total petroleum hydrocarbons as gasoline
MTBE - methyl tertiary butyl ether

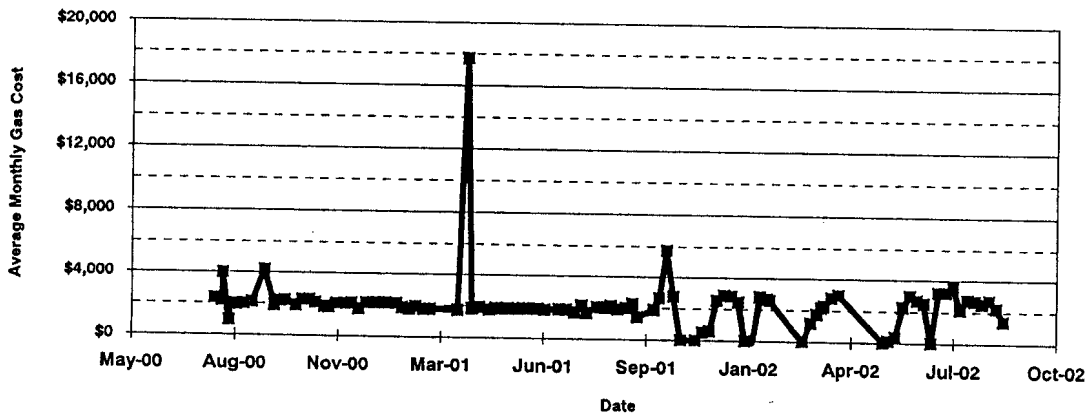
Graphs

Graph 1
SS 6519 VES System Performance

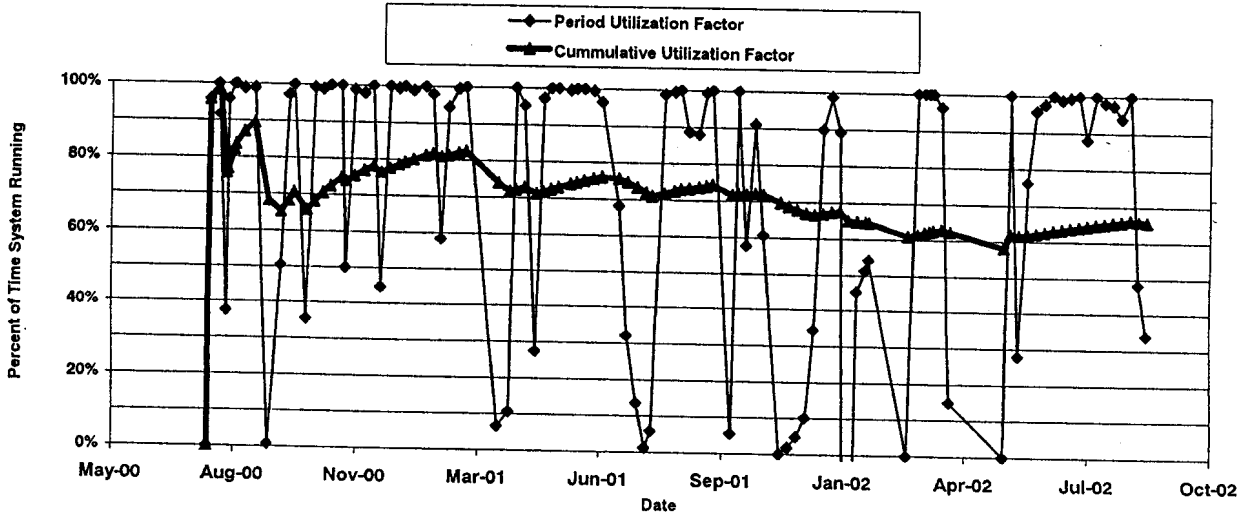
Cumulative HC Removal and System Influent Hydrocarbon Concentrations



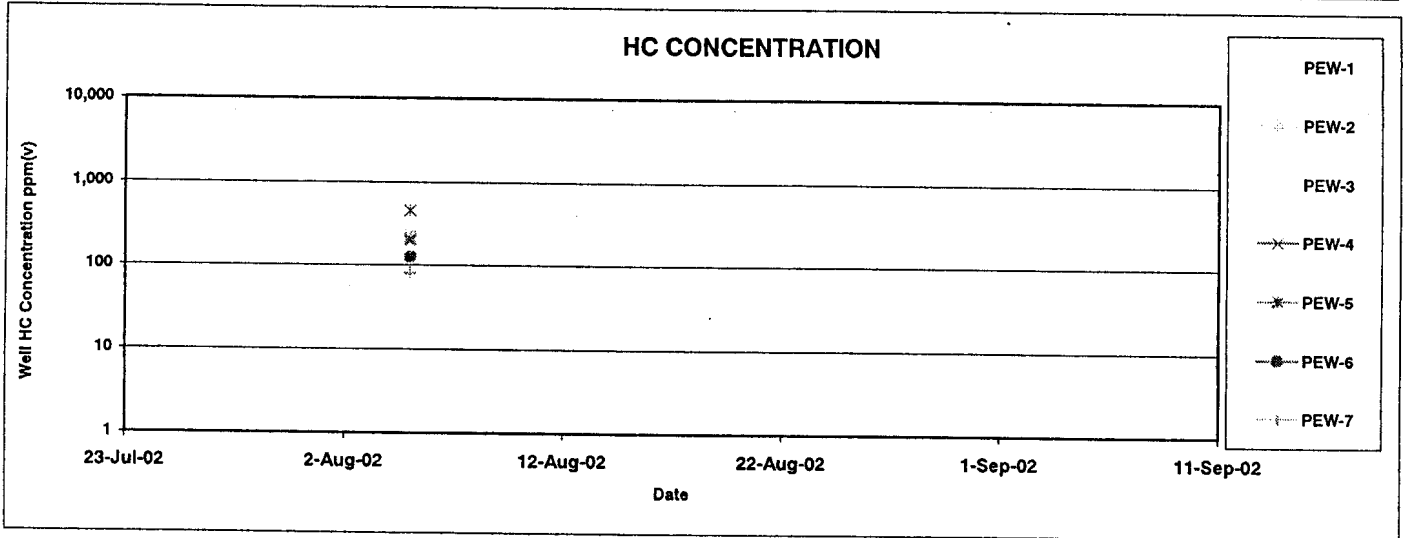
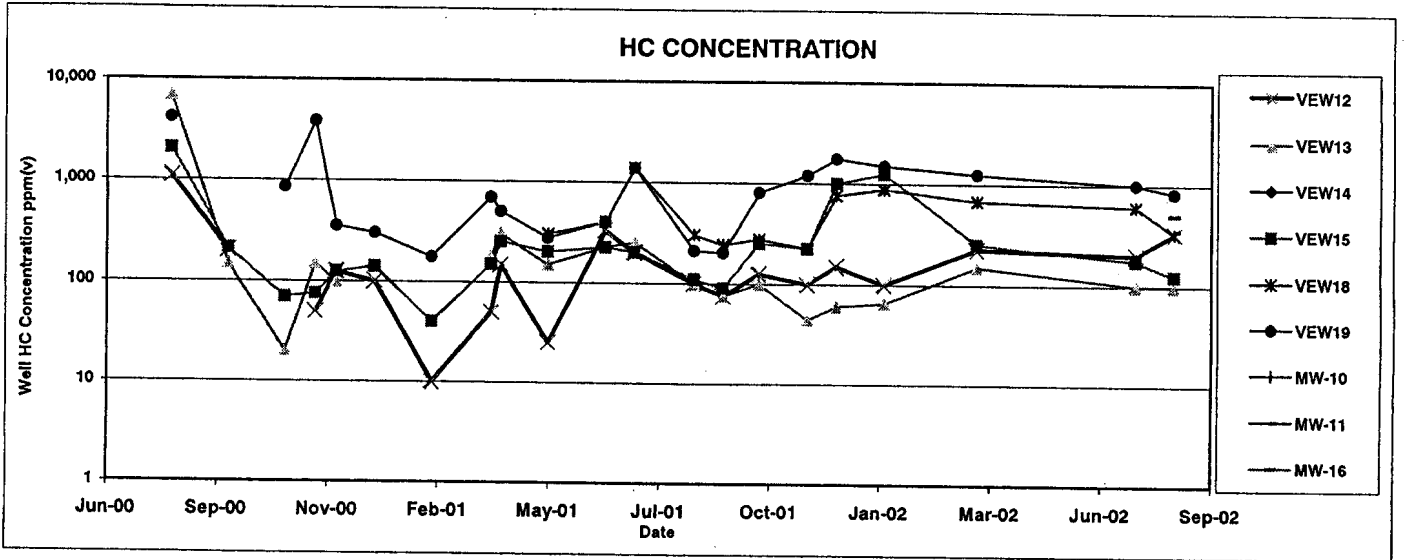
Average Monthly Gas Cost



System Utilization (On-line) Factor

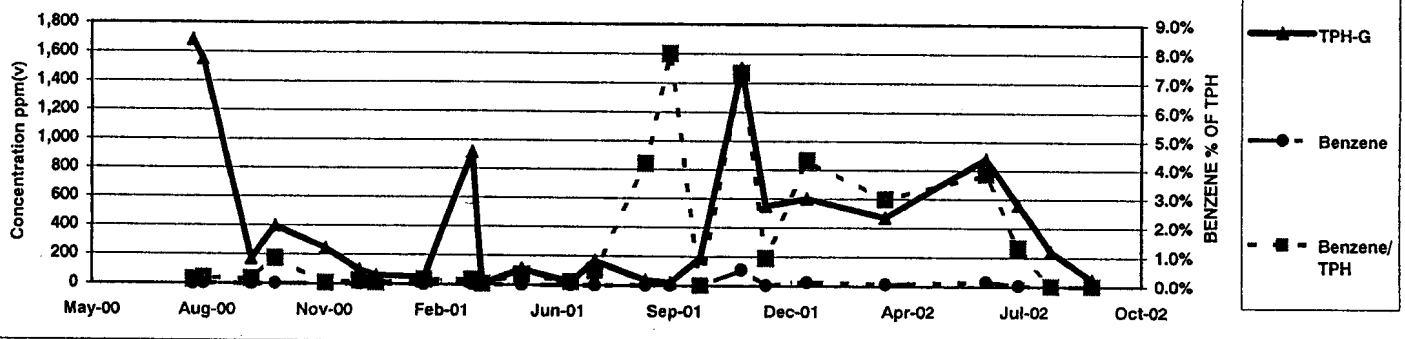


Graph 2
 SS 6519 VES Hydrocarbon Concentration

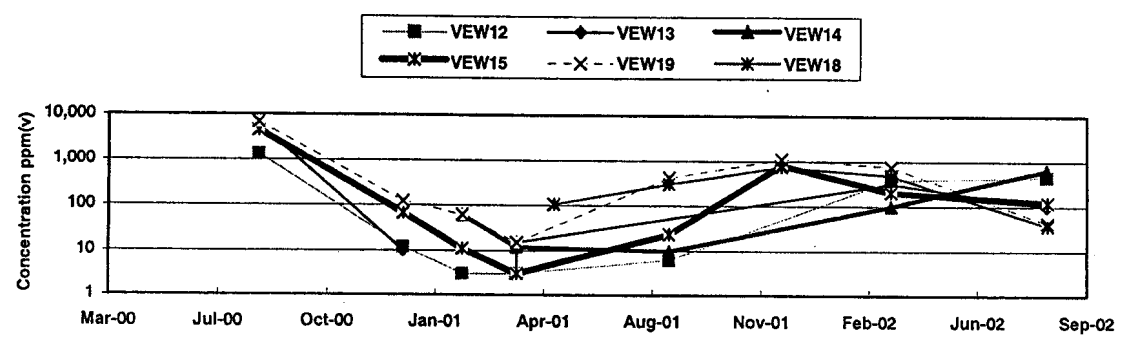


Graph 3
SS 6519 VES Laboratory Analytical Data

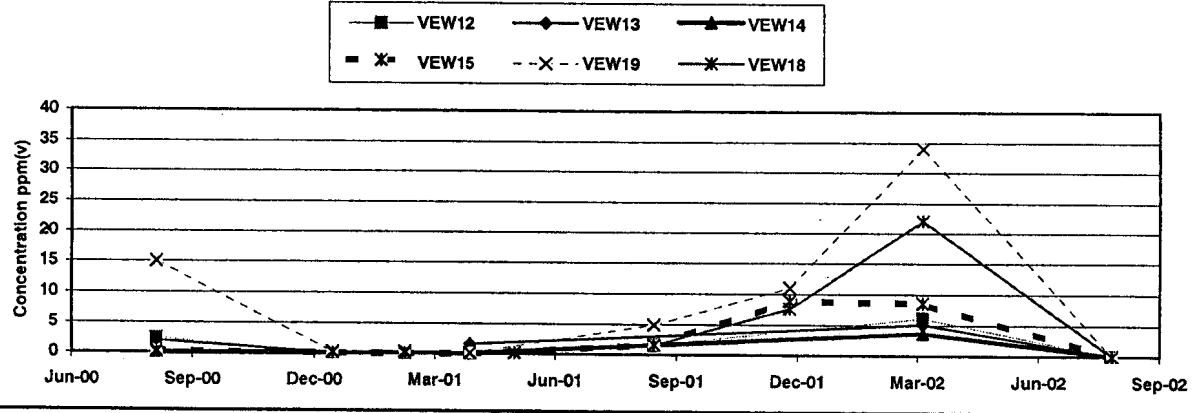
System TPH & Benzene Concentrations (EPA 8015/8020) and Benzene to TPH Ratio



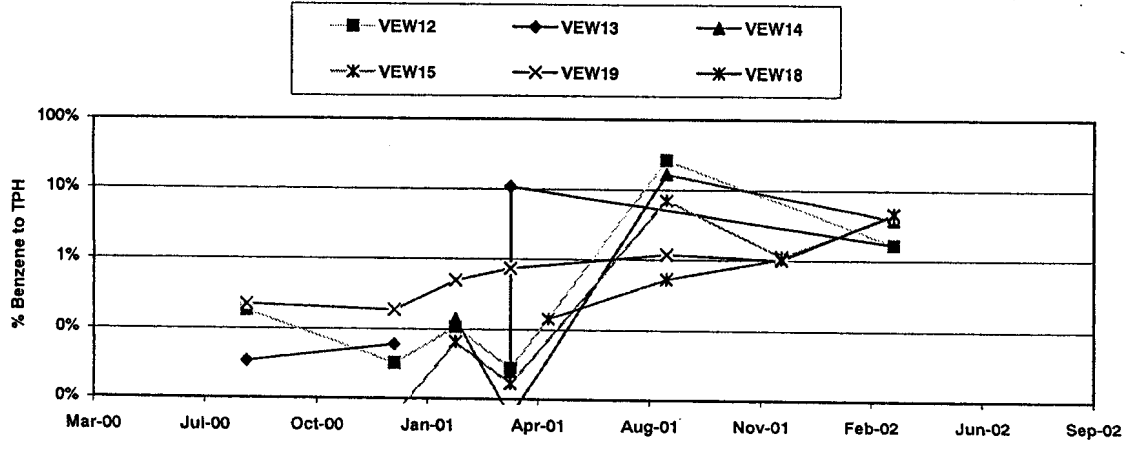
Well Screen TPH Concentrations (EPA 8015/8020)



Well Screen Benzene Concentrations (EPA 8015/8020)



Well Screen Benzene To TPH Ratio



Appendix A
Laboratory Analytical Results



LABORATORY REPORT

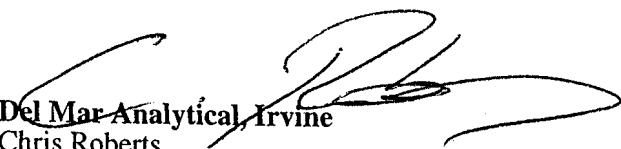
Prepared For: Environ Strategy Consultants
30 Hughes, Suite 205
Irvine, CA 92618

Attention: Jinghui Niu
Project: TOSCO 6519
Work Order #: 256519-O&M-001

Sampled: 07/08/02
Received: 07/09/02
Reported: 07/14/02

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Del Mar Analytical, Irvine
Chris Roberts
Project Manager

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Environ Strategy Consultants
 30 Hughes, Suite 205
 Irvine, CA 92618
 Attention: Jinghui Niu

Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILG0278

Sampled: 07/08/02
 Received: 07/09/02

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/m ³	mg/m ³				
Sample ID: ILG0278-01 (VES Inf-6519 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2G1041	10	2300	1	7/10/2002	7/10/2002	
Benzene	EPA 8015M/802	I2G1041	5.0	24	1	7/10/2002	7/10/2002	
Toluene	EPA 8015M/802	I2G1041	5.0	96	1	7/10/2002	7/10/2002	
Ethylbenzene	EPA 8015M/802	I2G1041	5.0	20	1	7/10/2002	7/10/2002	
Total Xylenes	EPA 8015M/802	I2G1041	5.0	150	1	7/10/2002	7/10/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2G1041	5.0	17	1	7/10/2002	7/10/2002	
Sample ID: ILG0278-02 (VES Eff-6519 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2G1041	10	26	1	7/10/2002	7/10/2002	
Benzene	EPA 8015M/802	I2G1041	5.0	ND	1	7/10/2002	7/10/2002	
Toluene	EPA 8015M/802	I2G1041	5.0	ND	1	7/10/2002	7/10/2002	
Ethylbenzene	EPA 8015M/802	I2G1041	5.0	ND	1	7/10/2002	7/10/2002	
Total Xylenes	EPA 8015M/802	I2G1041	5.0	ND	1	7/10/2002	7/10/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2G1041	5.0	ND	1	7/10/2002	7/10/2002	

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Environ Strategy Consultants 30 Hughes, Suite 205 Irvine, CA 92618 Attention: Jinghui Niu	Project ID: TOSCO 6519 Work Order #: 256519-O&M-001 Report Number: ILG0278	Sampled: 07/08/02 Received: 07/09/02
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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
				ppmv	ppmv			
Sample ID: ILG0278-01 (VES Inf-6519 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2G1041	2.4	560	1	7/10/2002	7/10/2002	
Benzene ppmv	EPA 8015M/802	I2G1041	1.6	7.4	1	7/10/2002	7/10/2002	
Toluene ppmv	EPA 8015M/802	I2G1041	1.3	25	1	7/10/2002	7/10/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2G1041	1.2	4.6	1	7/10/2002	7/10/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2G1041	1.2	34	1	7/10/2002	7/10/2002	
Methyl-tert-butyl Ether (MTBE) ppm	EPA 8015M/802	I2G1041	1.4	4.7	1	7/10/2002	7/10/2002	
Sample ID: ILG0278-02 (VES Eff-6519 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2G1041	2.4	6.3	1	7/10/2002	7/10/2002	
Benzene ppmv	EPA 8015M/802	I2G1041	1.6	ND	1	7/10/2002	7/10/2002	
Toluene ppmv	EPA 8015M/802	I2G1041	1.3	ND	1	7/10/2002	7/10/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2G1041	1.2	ND	1	7/10/2002	7/10/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2G1041	1.2	ND	1	7/10/2002	7/10/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2G1041	1.4	ND	1	7/10/2002	7/10/2002	

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Environ Strategy Consultants 30 Hughes, Suite 205 Irvine, CA 92618 Attention: Jinghui Niu	Project ID: TOSCO 6519 Work Order #: 256519-O&M-001 Report Number: ILG0278	Sampled: 07/08/02 Received: 07/09/02
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METHOD BLANK/OC DATA

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: I2G1041 Extracted: 07/10/02									
Blank Analyzed: 07/10/02 (I2G1041-BLK1)									
Volatile Fuel Hydrocarbons	ND	10	mg/m ³						
Benzene	ND	5.0	mg/m ³						
Toluene	ND	5.0	mg/m ³						
Ethylbenzene	ND	5.0	mg/m ³						
Total Xylenes	ND	5.0	mg/m ³						
Methyl-tert-butyl Ether (MTBE)	ND	5.0	mg/m ³						
LCS Analyzed: 07/10/02 (I2G1041-BS1)									
Benzene	54.5	5.0	mg/m ³	52.8		103 80-120			
Toluene	53.5	5.0	mg/m ³	52.8		101 80-120			
Ethylbenzene	51.2	5.0	mg/m ³	52.8		97 80-120			
Total Xylenes	155	5.0	mg/m ³	158		98 80-120			
Methyl-tert-butyl Ether (MTBE)	49.0	5.0	mg/m ³	53.9		91 70-130			
LCS Analyzed: 07/10/02 (I2G1041-BS2)									
Volatile Fuel Hydrocarbons	295	10	mg/m ³	286		103 70-130			
Duplicate Analyzed: 07/10/02 (I2G1041-DUP1)									
Volatile Fuel Hydrocarbons	2340	10	mg/m ³		2300		2	20	
Benzene	24.3	5.0	mg/m ³		24		1	20	
Toluene	101	5.0	mg/m ³		96		5	20	
Ethylbenzene	21.6	5.0	mg/m ³		20		8	20	
Total Xylenes	160	5.0	mg/m ³		150		6	20	
Methyl-tert-butyl Ether (MTBE)	18.1	5.0	mg/m ³		17		6	20	

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Environ Strategy Consultants 30 Hughes, Suite 205 Irvine, CA 92618 Attention: Jinghui Niu	Project ID: TOSCO 6519 Work Order #: 256519-O&M-001 Report Number: ILG0278	Sampled: 07/08/02 Received: 07/09/02
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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits RPD	RPD Limit	Data Qualifiers
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Batch: I2G1041 Extracted: 07/10/02

Blank Analyzed: 07/10/02 (I2G1041-BLK1)

Volatile Fuel Hydrocarbons ppmv	ND	2.4	ppmv						
Benzene ppmv	ND	1.6	ppmv						
Toluene ppmv	ND	1.3	ppmv						
Ethylbenzene ppmv	ND	1.2	ppmv						
Xylenes, Total ppmv	ND	1.2	ppmv						
Methyl-tert-butyl Ether (MTBE) ppmv	ND	1.4	ppmv						

Duplicate Analyzed: 07/10/02 (I2G1041-DUP1)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits RPD	RPD Limit	Data Qualifiers
Volatile Fuel Hydrocarbons ppmv	572	2.4	ppmv		560		2	20	
Benzene ppmv	7.60	1.6	ppmv		7.4		3	20	
Toluene ppmv	26.8	1.3	ppmv		25		7	20	
Ethylbenzene ppmv	4.98	1.2	ppmv		4.6		8	20	
Xylenes, Total ppmv	36.8	1.2	ppmv		34		8	20	
Methyl-tert-butyl Ether (MTBE) ppmv	5.03	1.4	ppmv		4.7		7	20	

Source: ILG0278-01

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Environ Strategy Consultants
30 Hughes, Suite 205
Irvine, CA 92618
Attention: Jinghui Niu

Project ID: TOSCO 6519
Work Order #: 256519-O&M-001
Report Number: ILG0278

Sampled: 07/08/02
Received: 07/09/02

DATA QUALIFIERS AND DEFINITIONS

- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- NR** Not reported.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For VFH (ppmv):

The molecular weight of 100 was used to convert Volatile Fuel Hydrocarbons from mg/m3 to ppm by volume (ppmv).

For Volatile Fuel Hydrocarbons (C6-C12):

Volatile Fuel Hydrocarbons (C6-C12) are quantitated against a gasoline standard.

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Project Manager





LABORATORY REPORT


Prepared For: Environ Strategy Consultants
30 Hughes, Suite 205
Irvine, CA 92618

Attention: Jinghui Niu
Project: TOSCO 6519
Work Order #: 256519-O&M-001

Sampled: 08/05/02
Received: 08/06/02
Reported: 08/09/02

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Environ Strategy Consultants 30 Hughes, Suite 205 Irvine, CA 92618 Attention: Jinghui Niu	Project ID: TOSCO 6519 Work Order #: 256519-O&M-001 Report Number: ILH0211	Sampled: 08/05/02 Received: 08/06/02
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VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/m ³	mg/m ³				
Sample ID: ILH0211-01 (VES-Inf-6519 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0728	10	1000	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0728	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0728	5.0	43	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0728	5.0	16	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0728	5.0	93	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0728	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-02 (VES-Eff-6519 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	19	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-03 (VEW-12 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	1800	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	53	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	32	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	240	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	

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VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/m ³	mg/m ³				
Sample ID: ILH0211-04 (VEW-13 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	410	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	6.2	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	43	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-05 (VEW-14 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	2600	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	79	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	47	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	360	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-06 (VEW-15 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	500	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	7.5	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	55	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	

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VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Method	Batch	Reporting	Sample	Dilution	Date	Date	Data
			Limit	Result				
			mg/m ³	mg/m ³				
Sample ID: ILH0211-07 (VEW-18 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	150	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	11	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-08 (VEW-19 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	170	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	5.8	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	13	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-09 (MW-10 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	320	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	12	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	5.6	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	32	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	

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 Irvine, CA 92618
 Attention: Jinghui Niu

Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILH0211

Sampled: 08/05/02
 Received: 08/06/02

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/m ³	mg/m ³				
Sample ID: ILH0211-10 (MW-11 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	950	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	6.1	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	67	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	23	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	130	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-11 (MW-16 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	1300	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	22	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	17	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	160	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-12 (PEW-1 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	390	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	29	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	

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 Attention: Jinghui Niu

 Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILH0211

 Sampled: 08/05/02
 Received: 08/06/02

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Method	Batch	Reporting	Sample	Dilution	Date	Date	Data
			Limit	Result				
			mg/m ³	mg/m ³				
Sample ID: ILH0211-13 (PEW-2 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	670	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	12	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	13	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	17	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-14 (PEW-3 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	100	25000	10	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	50	690	10	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	50	2300	10	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	50	320	10	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	50	1800	10	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	50	240	10	8/7/2002	8/7/2002	
Sample ID: ILH0211-15 (PEW-4 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	550	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	32	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	9.4	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	73	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	

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Environ Strategy Consultants
 30 Hughes, Suite 205
 Irvine, CA 92618
 Attention: Jinghui Niu

Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILH0211

Sampled: 08/05/02
 Received: 08/06/02

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Method	Batch	Reporting	Sample	Dilution	Date	Date	Data
			Limit	Result				
			mg/m ³	mg/m ³				
Sample ID: ILH0211-16 (PEW-5 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	1500	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	37	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	16	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	45	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	37	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-17 (PEW-6 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	330	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	10	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	26	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-18 (PEW-7 - Air)								
Volatile Fuel Hydrocarbons	EPA 8015M/802	I2H0736	10	170	1	8/7/2002	8/7/2002	
Benzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Toluene	EPA 8015M/802	I2H0736	5.0	6.2	1	8/7/2002	8/7/2002	
Ethylbenzene	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	
Total Xylenes	EPA 8015M/802	I2H0736	5.0	18	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015M/802	I2H0736	5.0	ND	1	8/7/2002	8/7/2002	



Environ Strategy Consultants 30 Hughes, Suite 205 Irvine, CA 92618 Attention: Jinghui Niu	Project ID: TOSCO 6519 Work Order #: 256519-O&M-001 Report Number: ILH0211	Sampled: 08/05/02 Received: 08/06/02
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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ppmv	ppmv				
Sample ID: ILH0211-01 (VES-Inf-6519 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0728	2.4	240	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0728	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0728	1.3	11	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0728	1.2	3.8	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0728	1.2	21	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0728	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-02 (VES-Eff-6519 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	4.6	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	ND	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-03 (VEW-12 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	450	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	14	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	7.5	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	56	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	

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Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILH0211

Sampled: 08/05/02
 Received: 08/06/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ppmv	ppmv				
Sample ID: ILH0211-04 (VEW-13 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	100	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	ND	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	1.4	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	9.9	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-05 (VEW-14 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	630	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	21	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	11	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	82	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-06 (VEW-15 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	120	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	ND	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	1.7	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	13	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ppmv	ppmv				
Sample ID: ILH0211-07 (VEW-18 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	37	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	ND	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	2.5	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-08 (VEW-19 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	42	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	ND	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	1.3	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	3.1	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-09 (MW-10 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	78	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	3.1	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	1.3	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	7.3	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	

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 Attention: Jinghui Niu

Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILH0211

Sampled: 08/05/02
 Received: 08/06/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ppmv	ppmv				
Sample ID: ILH0211-10 (MW-11 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	230	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	1.9	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	18	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	5.4	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	29	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-11 (MW-16 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	330	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	5.8	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	3.9	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	37	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-12 (PEW-1 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	96	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	ND	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	6.8	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	

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Environ Strategy Consultants 30 Hughes, Suite 205 Irvine, CA 92618 Attention: Jinghui Niu	Project ID: TOSCO 6519 Work Order #: 256519-O&M-001 Report Number: ILH0211	Sampled: 08/05/02 Received: 08/06/02
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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting	Sample	Dilution	Date	Date	Data
			Limit	Result				
			ppmv	ppmv				
Sample ID: ILH0211-13 (PEW-2 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	160	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	3.8	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	ND	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	3.0	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	4.7	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-14 (PEW-3 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	24	6000	10	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	16	210	10	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	13	610	10	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	12	74	10	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	12	420	10	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	14	66	10	8/7/2002	8/7/2002	
Sample ID: ILH0211-15 (PEW-4 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	130	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	8.4	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	2.2	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	17	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	

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Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILH0211

Sampled: 08/05/02
 Received: 08/06/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
				ppmv	ppmv			
Sample ID: ILH0211-16 (PEW-5 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	380	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	12	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	4.2	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	10	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	10	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-17 (PEW-6 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	80	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	2.7	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	6.0	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	
Sample ID: ILH0211-18 (PEW-7 - Air)								
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2H0736	2.4	43	1	8/7/2002	8/7/2002	
Benzene ppmv	EPA 8015M/802	I2H0736	1.6	ND	1	8/7/2002	8/7/2002	
Toluene ppmv	EPA 8015M/802	I2H0736	1.3	1.6	1	8/7/2002	8/7/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2H0736	1.2	ND	1	8/7/2002	8/7/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2H0736	1.2	4.1	1	8/7/2002	8/7/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2H0736	1.4	ND	1	8/7/2002	8/7/2002	

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Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILH0211

Sampled: 08/05/02
 Received: 08/06/02

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: I2H0728 Extracted: 08/07/02									
Blank Analyzed: 08/07/02 (I2H0728-BLK1)									
Volatile Fuel Hydrocarbons	ND	10	mg/m ³						
Benzene	ND	5.0	mg/m ³						
Toluene	ND	5.0	mg/m ³						
Ethylbenzene	ND	5.0	mg/m ³						
Total Xylenes	ND	5.0	mg/m ³						
Methyl-tert-butyl Ether (MTBE)	ND	5.0	mg/m ³						
LCS Analyzed: 08/07/02 (I2H0728-BS1)									
Benzene	52.8	5.0	mg/m ³	52.8		100 80-120			
Toluene	52.1	5.0	mg/m ³	52.8		99 80-120			
Ethylbenzene	50.5	5.0	mg/m ³	52.8		96 80-120			
Total Xylenes	152	5.0	mg/m ³	158		96 80-120			
Methyl-tert-butyl Ether (MTBE)	51.6	5.0	mg/m ³	53.9		96 70-130			
LCS Analyzed: 08/07/02 (I2H0728-BS2)									
Volatile Fuel Hydrocarbons	278	10	mg/m ³	286		97 70-130			
Duplicate Analyzed: 08/07/02 (I2H0728-DUP1)									
Volatile Fuel Hydrocarbons	5640	40	mg/m ³		Source: ILH0216-01 5800		3	20	
Benzene	ND	20	mg/m ³		ND			20	
Toluene	374	20	mg/m ³		380		2	20	
Ethylbenzene	102	20	mg/m ³		100		2	20	
Total Xylenes	685	20	mg/m ³		700		2	20	
Methyl-tert-butyl Ether (MTBE)	ND	20	mg/m ³		ND			20	
Batch: I2H0736 Extracted: 08/07/02									
Blank Analyzed: 08/07/02 (I2H0736-BLK1)									
Volatile Fuel Hydrocarbons	ND	10	mg/m ³						
Benzene	ND	5.0	mg/m ³						
Toluene	ND	5.0	mg/m ³						
Ethylbenzene	ND	5.0	mg/m ³						
Total Xylenes	ND	5.0	mg/m ³						
Methyl-tert-butyl Ether (MTBE)	ND	5.0	mg/m ³						

Del Mar Analytical, Irvine
 Chris Roberts
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.



Environ Strategy Consultants 30 Hughes, Suite 205 Irvine, CA 92618 Attention: Jinghui Niu	Project ID: TOSCO 6519 Work Order #: 256519-O&M-001 Report Number: ILH0211	Sampled: 08/05/02 Received: 08/06/02
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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits RPD	RPD Limit	Data Qualifiers
Batch: I2H0736 Extracted: 08/07/02									
LCS Analyzed: 08/07/02 (I2H0736-BS1)									
Benzene	52.9	5.0	mg/m ³	52.8		100	80-120		
Toluene	55.2	5.0	mg/m ³	52.8		105	80-120		
Ethylbenzene	57.0	5.0	mg/m ³	52.8		108	80-120		
Total Xylenes	176	5.0	mg/m ³	158		111	80-120		
Methyl-tert-butyl Ether (MTBE)	51.5	5.0	mg/m ³	53.9		96	70-130		
LCS Analyzed: 08/07/02 (I2H0736-BS2)									
Volatile Fuel Hydrocarbons	270	10	mg/m ³	286		94	70-130		
Duplicate Analyzed: 08/07/02 (I2H0736-DUP1)									
Volatile Fuel Hydrocarbons	455	10	mg/m ³		500			9	20
Benzene	ND	5.0	mg/m ³		ND				20
Toluene	ND	5.0	mg/m ³		ND			5	20
Ethylbenzene	7.68	5.0	mg/m ³		7.5			2	20
Total Xylenes	52.1	5.0	mg/m ³		55			5	20
Methyl-tert-butyl Ether (MTBE)	ND	5.0	mg/m ³		ND				20

Source: ILH0211-06

Del Mar Analytical, Irvine
 Chris Roberts
 Project Manager

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Environ Strategy Consultants
 30 Hughes, Suite 205
 Irvine, CA 92618
 Attention: Jinghui Niu

Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILI0356

Sampled: 09/09/02
 Received: 09/10/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ILI0356-01 (VES-Inf-6519 - Air)				ppmv	ppmv			
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2I1127	2.4	50	1	9/11/2002	9/11/2002	
Benzene ppmv	EPA 8015M/802	I2I1127	1.6	ND	1	9/11/2002	9/11/2002	
Toluene ppmv	EPA 8015M/802	I2I1127	1.3	3.0	1	9/11/2002	9/11/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2I1127	1.2	ND	1	9/11/2002	9/11/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2I1127	1.2	4.8	1	9/11/2002	9/11/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2I1127	1.4	ND	1	9/11/2002	9/11/2002	
Sample ID: ILI0356-02 (VES-Eff-6519 - Air)				ppmv	ppmv			
Volatile Fuel Hydrocarbons ppmv	EPA 8015M/802	I2I1127	2.4	6.6	1	9/11/2002	9/11/2002	
Benzene ppmv	EPA 8015M/802	I2I1127	1.6	ND	1	9/11/2002	9/11/2002	
Toluene ppmv	EPA 8015M/802	I2I1127	1.3	ND	1	9/11/2002	9/11/2002	
Ethylbenzene ppmv	EPA 8015M/802	I2I1127	1.2	ND	1	9/11/2002	9/11/2002	
Xylenes, Total ppmv	EPA 8015M/802	I2I1127	1.2	ND	1	9/11/2002	9/11/2002	
Methyl-tert-butyl Ether (MTBE) ppmv	EPA 8015M/802	I2I1127	1.4	ND	1	9/11/2002	9/11/2002	



Environ Strategy Consultants
 30 Hughes, Suite 205
 Irvine, CA 92618
 Attention: Jinghui Niu

Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILI0356

Sampled: 09/09/02
 Received: 09/10/02

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS with BTEX/MTBE in Air (EPA 8015/8021B MOD)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD Limits RPD	RPD Limit	Data Qualifiers
Batch: I2I1127 Extracted: 09/11/02									
Blank Analyzed: 09/11/02 (I2I1127-BLK1)									
Volatile Fuel Hydrocarbons (C6-C12)	ND	10	mg/m ³						
Benzene	ND	5.0	mg/m ³						
Toluene	ND	5.0	mg/m ³						
Ethylbenzene	ND	5.0	mg/m ³						
Total Xylenes	ND	5.0	mg/m ³						
Methyl-tert-butyl Ether (MTBE)	ND	5.0	mg/m ³						
LCS Analyzed: 09/11/02 (I2I1127-BS1)									
Benzene	54.7	5.0	mg/m ³	52.8		104	80-120		
Toluene	55.8	5.0	mg/m ³	52.8		106	80-120		
Ethylbenzene	56.5	5.0	mg/m ³	52.8		107	80-120		
Total Xylenes	172	5.0	mg/m ³	158		109	80-120		
Methyl-tert-butyl Ether (MTBE)	50.5	5.0	mg/m ³	53.9		94	70-130		
LCS Analyzed: 09/11/02 (I2I1127-BS2)									
Volatile Fuel Hydrocarbons (C6-C12)	289	10	mg/m ³	286		101	70-130		
Duplicate Analyzed: 09/11/02 (I2I1127-DUP1)									
Volatile Fuel Hydrocarbons (C6-C12)	539	10	mg/m ³		530			2	20
Benzene	8.94	5.0	mg/m ³		8.4			6	20
Toluene	20.9	5.0	mg/m ³		20			4	20
Ethylbenzene	5.22	5.0	mg/m ³		5.3			2	20
Total Xylenes	27.2	5.0	mg/m ³		28			3	20
Methyl-tert-butyl Ether (MTBE)	ND	5.0	mg/m ³		ND			13	20

Source: ILI0352-01

Del Mar Analytical, Irvine
 Patty Mata For Chris Roberts
 Project Manager

Environ Strategy Consultants
 30 Hughes, Suite 205
 Irvine, CA 92618
 Attention: Jinghui Niu

Project ID: TOSCO 6519
 Work Order #: 256519-O&M-001
 Report Number: ILI0356

Sampled: 09/09/02
 Received: 09/10/02

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE in Air (EPA 8015/8021B MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: I2I1127 Extracted: 09/11/02									
Blank Analyzed: 09/11/02 (I2I1127-BLK1)									
Volatile Fuel Hydrocarbons ppmv	ND	2.4	ppmv						
Benzene ppmv	ND	1.6	ppmv						
Toluene ppmv	ND	1.3	ppmv						
Ethylbenzene ppmv	ND	1.2	ppmv						
Xylenes, Total ppmv	ND	1.2	ppmv						
Methyl-tert-butyl Ether (MTBE) ppmv	ND	1.4	ppmv						
Duplicate Analyzed: 09/11/02 (I2I1127-DUP1)									
Volatile Fuel Hydrocarbons ppmv	132	2.4	ppmv		130		2	20	
Benzene ppmv	2.80	1.6	ppmv		2.6		7	20	
Toluene ppmv	5.55	1.3	ppmv		5.4		3	20	
Ethylbenzene ppmv	1.20	1.2	ppmv		1.2		0	20	
Xylenes, Total ppmv	6.27	1.2	ppmv		6.4		2	20	
Methyl-tert-butyl Ether (MTBE) ppmv	ND	1.4	ppmv		ND		12	20	
Source: ILI0352-01									



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Project ID: TOSCO 6519
Work Order #: 256519-O&M-001
Report Number: ILI0356

Sampled: 09/09/02
Received: 09/10/02

DATA QUALIFIERS AND DEFINITIONS

- ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD Relative Percent Difference

ADDITIONAL COMMENTS

For VFH (ppmv):

The molecular weight of 100 was used to convert Volatile Fuel Hydrocarbons from mg/m3 to ppm by volume (ppmv).

For Volatile Fuel Hydrocarbons (C6-C12):

Volatile Fuel Hydrocarbons (C6-C12) are quantitated against a gasoline standard.



