



GETTLER-RYAN INC.

TRANSMITTAL

Ru-459
APR 11 2002

March 25, 2002
G-R #180021

TO: Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

CC: Mr. Doug Lee
Gettler-Ryan Inc.
Dublin, California

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: **Tosco (Unocal) Service Station
#6419
6401 Dublin Boulevard
Dublin, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 20, 2002	Groundwater Monitoring and Sampling Report First Semi-Annual - Event of February 6, 2002

COMMENTS:

This report is being sent to you for your review/comment, prior to being distributed on your behalf. If no comments are received by **April 8, 2002**, this report will be distributed to the following:

cc: Ms. Eva Chu, Alameda County Health Care Services, 1131 Harbor Bay Pkwy., Alameda, CA 94502

Enclosure

trans/6419.dbd



GETTLER - RYAN INC.

March 20, 2002
G-R Job #180021

Mr. David B. De Witt
Phillips 66 Company
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583

RE: First Semi-Annual Event of February 6, 2002
Groundwater Monitoring & Sampling Report
Tosco (Unocal) Service Station #6419
6401 Dublin Boulevard
Dublin, California

Dear Mr. De Witt:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are summarized in Table 1. Dissolved Oxygen Concentrations are summarized in Table 3. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are summarized in Tables 1, 2 and 4. A Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are also attached.

Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882

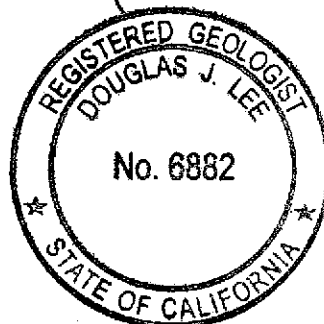



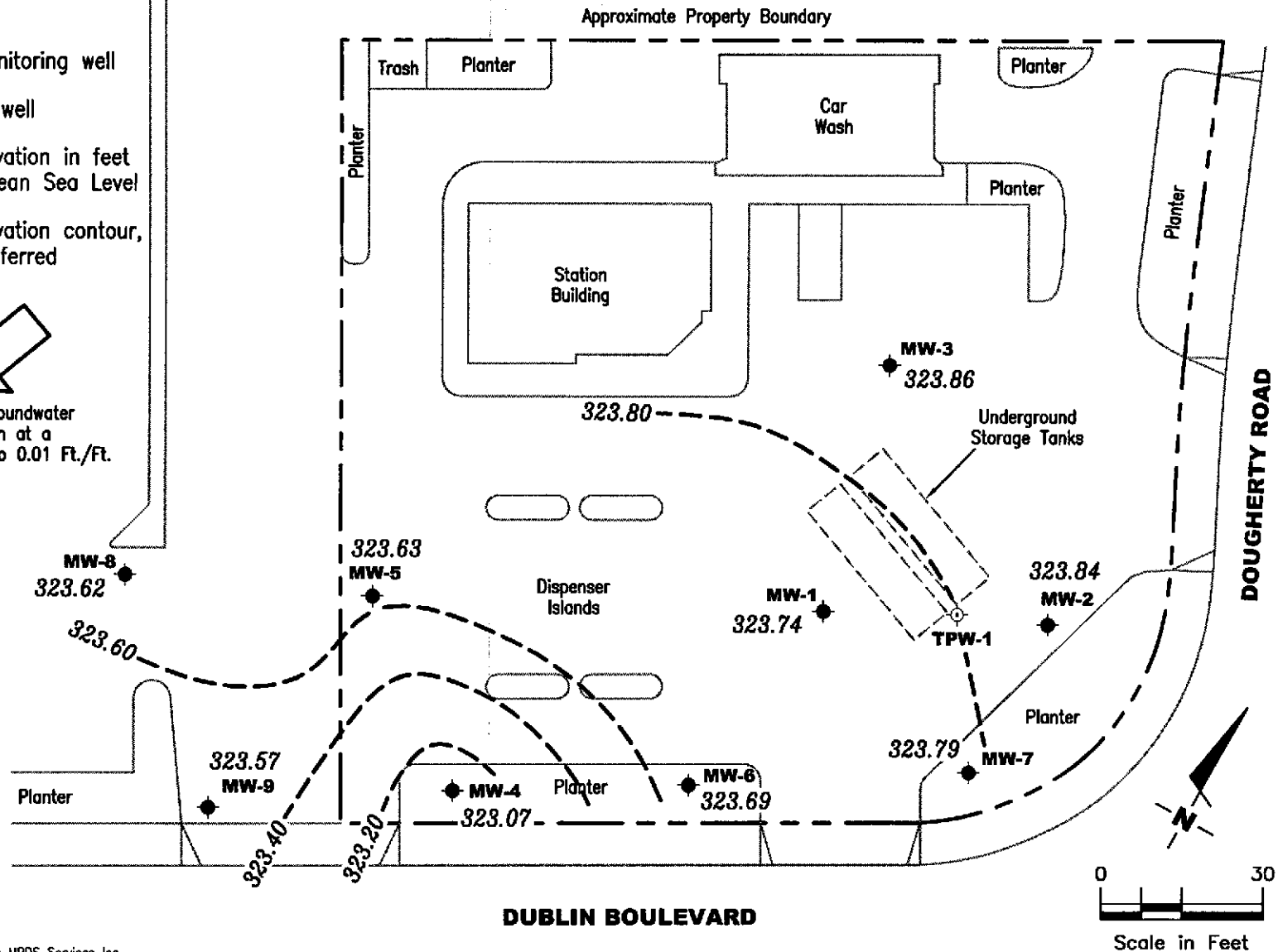
Figure 1: Potentiometric Map
Figure 2: Concentration Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Table 3: Dissolved Oxygen Concentrations
Table 4: Groundwater Analytical Results - Metals
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

6419.qml

EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ UST Pit backfill well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 Groundwater elevation contour, dashed where inferred


 Approximate groundwater flow direction at a gradient of 0.003 to 0.01 Ft./Ft.



Source: Figure modified from drawing provided by MPDS Services Inc..


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POTENTIOMETRIC MAP
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

FIGURE
1

PROJECT NUMBER
180021

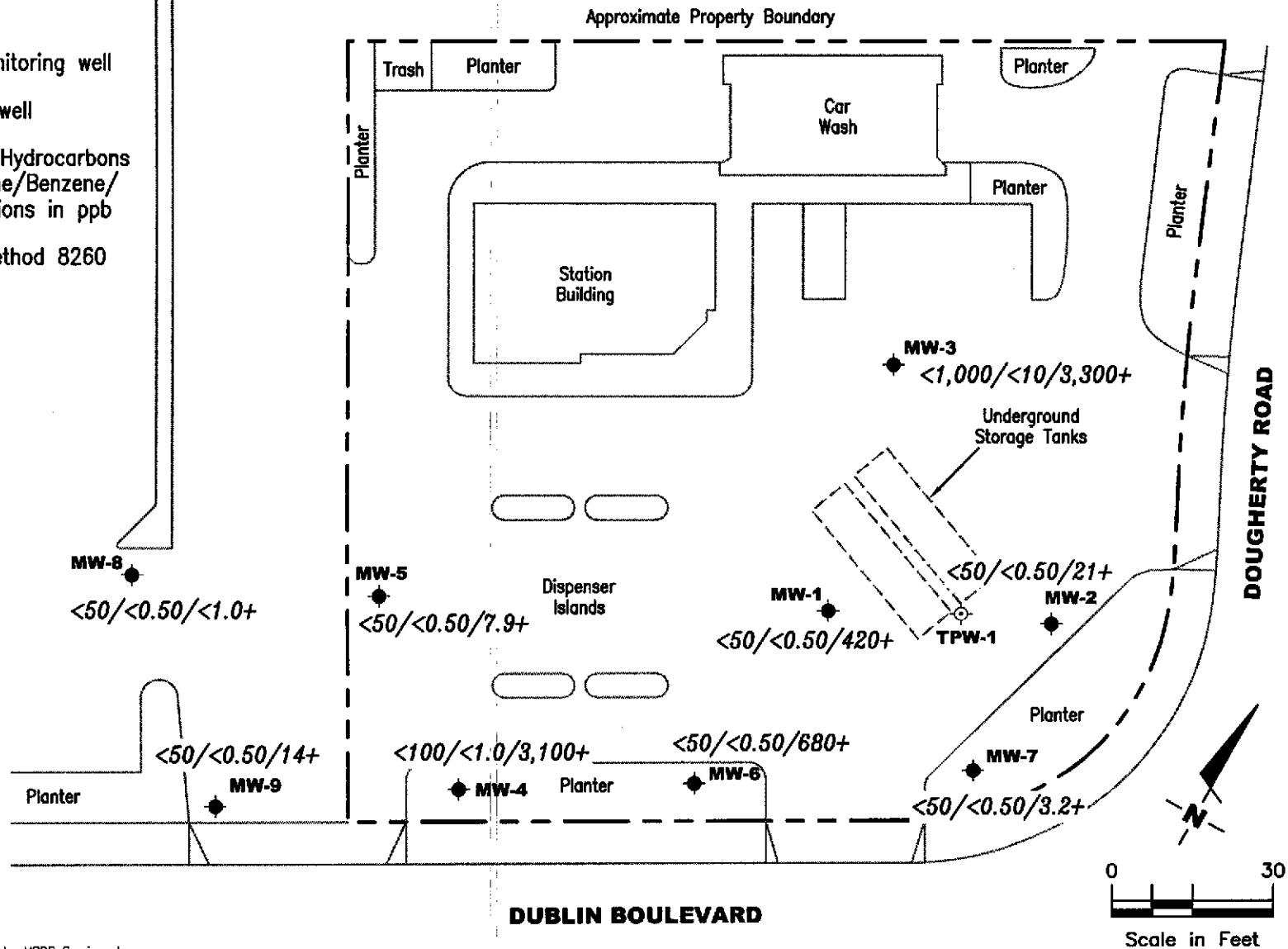
REVIEWED BY

DATE
February 6, 2002

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ UST Pit backfill well
- A/B/C Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb
- + MTBE by EPA Method 8260



Source: Figure modified from drawing provided by MPDS Services Inc..

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CONCENTRATION MAP
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

FIGURE
2

PROJECT NUMBER
 180021

REVIEWED BY

DATE
 February 6, 2002

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #6419
6401 Dublin Boulevard
Dublin, California

WELL ID/ TOC*(ft)	DATE	DTW (ft)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1											
330.45	03/14/94	7.27	4.0-19.0	323.18	810 ¹	1,800 ²	17	ND	ND	ND	--
	08/25/94	8.57		321.88	910 ³	9,200 ²	48	ND	540	ND	--
	09/30/94	8.78		321.67	--	--	--	--	--	--	--
	10/20/94	8.98		321.47	--	--	--	--	--	--	--
	11/18/94	7.69		322.76	910 ³	5,100	33	ND	560	38	--
	12/20/94	7.58		322.87	--	--	--	--	--	--	--
	01/17/95	6.03		324.42	--	--	--	--	--	--	--
	02/15/95	6.29		324.16	660 ¹	3,300	13	ND	180	5.2	--
	03/13/95	5.64		324.81	--	--	--	--	--	--	--
	04/06/95	5.62		324.83	--	--	--	--	--	--	--
	05/17/95	6.26		324.19	200 ³	130	0.75	ND	1.5	ND	--
	06/15/95	6.75		323.70	--	--	--	--	--	--	--
	08/25/95	7.91		322.54	--	490	9.1	ND	21	2.0	-- ⁵
	11/28/95	9.03		321.42	--	1,400	18	3.0	98	3.6	-- ⁵
	02/26/96	5.77		324.68	--	560	9.3	ND	22	ND	1,300
	08/23/96	7.78		322.67	--	ND	ND	ND	ND	ND	640
330.23	02/17/97	5.73		324.50	--	120 ⁴	1.0	0.95	ND	ND	280
	08/18/97	7.38		322.85	--	ND	ND	ND	ND	ND	100
	02/02/98 ⁶	5.10		325.13	--	ND ⁷	130	ND ⁷	ND ⁷	ND ⁷	32,000
	08/24/98	6.73		323.50	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	26,000/24,000 ⁸
	02/10/99	5.46		324.77	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	84,000/100,000 ⁸
	04/12/99	6.38		323.85	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	140,000/120,000 ⁸
330.21	05/21/99	5.95		324.26	--	--	--	--	--	--	--
	08/02/99	6.75		323.46	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	91,000/140,000 ¹⁰
	02/11/00	6.44		323.77	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	38,000/39,000 ⁸
330.18	07/26/00 ¹³	7.08		323.10	--	146 ¹²	ND	ND	ND	ND	30,900/42,800 ¹⁰
	02/02/01	6.99		323.19	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	5,380/6,430 ⁸
	08/24/01	7.72		322.46	--	<50	8.3	<0.50	<0.50	<0.50	10,000/6,600 ⁸
330.17	10/11/01	7.72		322.45	--	--	--	--	--	--	--
	02/06/02	6.43		323.74	--	<50	<0.50	<0.50	<0.50	<0.50	450/420 ⁸

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID/ TOC*(fl)	DATE	DTW (ft.)	S.L. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2											
330.40	03/14/94	7.23	4.0-20.0	323.17	--	ND	ND	2.8	1.1	8.0	--
	08/25/94	8.41		321.99	--	ND	ND	ND	ND	ND	--
	09/30/94	8.73		321.67	--	--	--	--	--	--	--
	10/20/94	8.92		321.48	--	--	--	--	--	--	--
	11/18/94	7.67		322.73	--	ND	ND	ND	ND	ND	--
	12/20/94	7.48		322.92	--	--	--	--	--	--	--
	01/17/95	6.00		324.40	--	--	--	--	--	--	--
	02/15/95	6.16		324.24	--	ND	ND	ND	ND	ND	--
	03/13/95	5.59		324.81	--	--	--	--	--	--	--
	04/06/95	5.51		324.89	--	--	--	--	--	--	--
	05/17/95	6.15		324.25	--	ND	ND	ND	ND	ND	--
	06/15/95	6.61		323.79	--	--	--	--	--	--	--
	08/25/95	7.45		322.95	--	ND	ND	ND	ND	ND	--
	11/28/95	8.85		321.55	--	ND	ND	ND	ND	ND	--
	02/26/96	5.49		324.91	--	ND	ND	ND	ND	ND	--
	08/23/96	7.44		322.96	SAMPLED ANNUALLY		--	--	--	--	--
330.27	02/17/97	5.64		324.63	--	ND	ND	ND	ND	ND	ND
	08/18/97	7.40		322.87	--	--	--	--	--	--	--
	02/02/98	5.09		325.18	--	ND	ND	ND	ND	ND	62
	08/24/98	6.70		323.57	--	--	--	--	--	--	--
	02/10/99	5.56		324.71	--	ND	ND	ND	ND	ND	130
330.30	05/21/99	5.98		324.32	--	--	--	--	--	--	--
	08/02/99	6.72		323.58	--	ND	ND	ND	ND	ND	120
	02/11/00	6.43		323.87	--	ND	ND	ND	ND	ND	39
330.24	07/26/00 ¹³	7.03		323.21	--	ND	ND	ND	ND	ND	89.9
	02/02/01	6.81		323.43	--	ND	ND	ND	ND	ND	20.1
	08/24/01	7.57		322.67	--	<50	<0.50	<0.50	<0.50	<0.50	36
330.24	10/11/01	7.62		322.62	--	--	--	--	--	--	--
	02/06/02	6.40		323.84	--	<50	<0.50	<0.50	<0.50	<0.50	23/21 ⁸

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3											
331.11	03/14/94	7.93	4.0-20.0	323.18	--	150 ⁴	ND	ND	ND	ND	--
	08/25/94	9.20		321.91	--	130 ⁴	ND	ND	ND	ND	--
	09/30/94	9.43		321.68	--	--	--	--	--	--	--
	10/20/94	9.64		321.47	--	--	--	--	--	--	--
	11/18/94	8.39		322.72	--	130 ⁴	ND	ND	ND	ND	--
	12/20/94	8.20		322.91	--	--	--	--	--	--	--
	01/17/95	6.72		324.39	--	--	--	--	--	--	--
	02/15/95	6.93		324.18	--	130 ⁴	ND	ND	ND	ND	--
	03/13/95	6.30		324.81	--	--	--	--	--	--	--
	04/06/95	8.20		322.91	--	--	--	--	--	--	--
	05/17/95	6.88		324.23	--	99 ⁴	ND	ND	ND	ND	--
	06/15/95	7.35		323.76	--	--	--	--	--	--	--
	08/25/95	8.20		322.91	--	ND	ND	ND	ND	ND	-- ⁵
	11/28/95	9.52		321.59	--	ND	ND	ND	ND	ND	--
	02/26/96	6.25		324.86	--	ND	ND	ND	ND	ND	-- ⁵
	08/23/96	7.98		323.13	SAMPLED ANNUALLY		--	--	--	--	--
330.68	02/17/97	6.07		324.61	--	ND	ND	ND	ND	ND	68
	08/18/97	7.82		322.86	--	--	--	--	--	--	--
	02/02/98	5.50		325.18	--	ND	ND	ND	ND	ND	100
	08/24/98	7.12		323.56	--	--	--	--	--	--	--
	02/10/99	5.80		324.88	--	ND	ND	ND	ND	ND	92
330.49	05/21/99	6.16		324.33	--	--	--	--	--	--	--
	08/02/99	6.95		323.54	--	ND	ND	ND	ND	ND	140
	02/11/00	6.71		-- ¹¹	--	ND	ND	ND	ND	ND	46
330.60	07/26/00 ¹³	7.35		323.25	--	ND	ND	ND	ND	ND	927
	02/02/01	7.17		323.43	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	2,240
	08/24/01	7.88		322.72	--	<50	<0.50	<0.50	<0.50	<0.50	2,500
330.59	10/11/01	7.83		322.76	--	--	--	--	--	--	--
	02/06/02	6.73		323.86	--	<1,000	<10	<10	<10	<10	4,300/3,300 ⁸

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4											
330.36	05/21/99 ⁹	6.43	4.0-19.0	323.93	--	ND	ND	ND	ND	ND	960/910 ⁸
	08/02/99	7.34		323.02	--	ND	10	ND	13	11	ND
	02/11/00	6.92		323.44	--	ND	ND	ND	ND	ND	2,700
330.35	07/26/00 ¹³	7.68		322.67	--	ND	ND	ND	ND	ND	3,710
	02/02/01	7.40		322.95	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	5,340
	08/24/01	8.14		322.21	--	<50	<0.50	<0.50	<0.50	<0.50	7,800
330.35	10/11/01	8.29		322.06	--	--	--	--	--	--	--
	02/06/02	7.28		323.07	--	<100	<1.0	<1.0	<1.0	<1.0	2,300/3,100 ⁸
MW-5											
330.20	05/21/99 ⁹	5.99	4.0-19.0	324.21	--	ND	ND	ND	ND	ND	32/33 ⁸
	08/02/99	6.83		323.37	--	ND	ND	ND	ND	ND	230
	02/11/00	6.34		323.86	--	ND	ND	ND	ND	ND	98
	07/26/00 ¹³	7.06		323.14	--	ND	ND	ND	ND	ND	25.9
	02/02/01	6.81		323.39	--	ND	ND	ND	ND	ND	18.0
	08/24/01	7.60		322.60	--	<50	<0.50	<0.50	<0.50	<0.50	18
330.18	10/11/01	7.34		322.84	--	--	--	--	--	--	--
	02/06/02	6.55		323.63	--	<50	<0.50	<0.50	<0.50	<0.50	7.7/7.9 ⁸
MW-6											
330.49	05/21/99 ⁹	6.24	4.0-19.0	324.25	--	ND	ND	ND	ND	ND	2,200/2,300 ⁸
	08/02/99	7.10		323.39	--	ND	ND	ND	ND	ND	ND
	02/11/00	6.60		323.89	--	ND	ND	ND	ND	ND	2,500
	07/26/00 ¹³	7.31		323.18	--	ND	ND	ND	ND	ND	4,280
	02/02/01	7.02		323.47	--	ND ⁷	ND ⁷	ND ⁷	ND ⁷	ND ⁷	1,990
	08/24/01	7.84		322.65	--	<200	<2.0	<2.0	<2.0	<2.0	1,100
330.47	10/11/01	8.03		322.44	--	--	--	--	--	--	--
	02/06/02	6.78		323.69	--	<50	<0.50	<0.50	<0.50	<0.50	610/680 ⁸

Table 1
Groundwater Monitoring Data and Analytical Results
Tosco (Unocal) Service Station #6419
6401 Dublin Boulevard
Dublin, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7											
330.43	05/21/99 ⁹	6.13	4.0-19.0	324.30	--	ND	ND	ND	ND	ND	22/22 ⁸
	08/02/99	6.92		323.51	--	ND	ND	ND	ND	ND	31
	02/11/00	6.50		323.93	--	ND	ND	ND	ND	ND	20
	07/26/00 ¹³	7.18		323.25	--	ND	ND	ND	ND	ND	17.9
	02/02/01	6.95		323.48	--	ND	ND	ND	ND	ND	ND
	08/24/01	7.72		322.71	--	<50	<0.50	<0.50	<0.50	<0.50	4.4
330.41	10/11/01	7.87		322.54	--	--	--	--	--	--	--
	02/06/02	6.62		323.79	--	<50	<0.50	<0.50	<0.50	<0.50	3.9/3.2 ⁸
MW-8											
329.97	10/11/01	7.57	--	322.40	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<2.0 ⁸
	02/06/02	6.35		323.62	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5/<1.0 ⁸
MW-9											
329.51	10/11/01	7.12	--	322.39	--	<50	<0.50	<0.50	<0.50	<0.50	22/15 ⁸
	02/06/02	5.94		323.57	--	<50	<0.50	<0.50	<0.50	<0.50	19/14 ⁸
Trip Blank											
TB-LB	02/02/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	08/24/98	--		--	--	ND	ND	ND	ND	ND	ND
	02/10/99	--		--	--	ND	ND	ND	ND	ND	ND
	04/12/99	--		--	--	ND	ND	ND	ND	ND	ND
	05/21/99	--		--	--	ND	ND	ND	ND	ND	ND
	08/02/99	--		--	--	ND	ND	ND	ND	ND	ND
	02/11/00	--		--	--	ND	ND	ND	ND	ND	ND
	07/26/00 ¹³	--		--	--	ND	ND	ND	ND	ND	ND

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID/ TOC*(ft)	DATE	DTW (ft.)	S.I. (ft.bgs)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TB-LB	02/02/01	--		--	--	ND	ND	ND	ND	ND	ND
(cont)	08/24/01	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	02/06/02	--		--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

EXPLANATIONS:

Groundwater monitoring data and laboratory results prior to February 2, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing	TPH-D = Total Petroleum Hydrocarbons as Diesel	(ppb) = Parts per billion
DTW = Depth to Water	TPH-G = Total Petroleum Hydrocarbons as Gasoline	ND = Not Detected
(ft.) = Feet	B = Benzene	-- = Not Measured/Not Analyzed
S.I. = Screen Interval	T = Toluene	
(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 on November 1, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was a chiseled square on top center of the concrete curb at the north curb return at the northwest corner of the intersection of Dougherty Road and Dublin Boulevard, (Benchmark Elevation = 330.60 ft., NGVD 1929).

TOC elevations have been surveyed relative to msl, per the benchmark on the northwest corner of Dougherty Road and Sierra Way, (Elevation = 331.728 feet, msl). These TOC elevations have been used prior to the February 17, 1997 monitoring event. TOC elevations have been resurveyed (after station rebuilding) relative to msl, per the Benchmark on the northwest corner of Dougherty Road and Sierra Way, (Elevation = 331.728 feet, msl). TOC elevations were surveyed on August 18, 2000.

- 1 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
- 2 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
- 3 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
- 4 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
- 5 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
- 6 Well appears to be obstructed at approximately 9 feet.
- 7 Detection limit raised. Refer to analytical reports.
- 8 MTBE by EPA Method 8260.
- 9 Ethanol, t-butanol (TBA), di-isopropyl ether (DIPE), ethyl t-butyl ether (ETBE), and t-amyl methyl ether (TAME) by EPA Method 8260 were all ND.
- 10 MTBE by EPA Method 8260, was analyzed past EPA recommended hold time.
- 11 TOC has been damaged. Cannot accurately calculate GWE.
- 12 Laboratory report indicates unidentified hydrocarbons C6-C12.
- 13 Laboratory report indicates insufficient preservative to reduce ample pH to less than 2. Sample was analyzed within 14 days, but beyond the seventh day recommended for Benzene, Toluene, Xylene and Ethylbenzene.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	07/26/00	--	ND ¹	42,800	ND ¹	ND ¹	ND ¹	ND ¹	ND ¹
	02/02/01	--	--	6,430	--	--	--	--	--
	08/24/01	<25,000	<1,000	6,600	<100	<100	<100	<100	<100
	02/06/02	<2,500	<100	420	<5.0	<5.0	<5.0	<5.0	<5.0
MW-2	02/06/02	<500	<20	21	<1.0	<1.0	<1.0	<1.0	<1.0
MW-3	02/06/02	<17,000	<670	3,300	<33	<33	<33	<33	<33
MW-4	02/06/02	<12,000	<500	3,100	<25	<25	<25	<25	<25
MW-5	02/06/02	<500	<20	7.9	<1.0	<1.0	<1.0	<1.0	<1.0
MW-6	02/06/02	<4,200	<170	680	<8.3	<8.3	<8.3	<8.3	<8.3
MW-7	02/06/02	<500	<20	3.2	1.4	<1.0	<1.0	<1.0	<1.0
MW-8	10/11/01	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	02/06/02	<500	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9	10/11/01	<500	<20	15	<2.0	<2.0	<2.0	<2.0	<2.0
	02/06/02	<500	<20	14	<1.0	<1.0	<1.0	<1.0	<1.0

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Tosco (Unocal) Service Station #6419
6401 Dublin Boulevard
Dublin, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane/Ethylene dibromide
(ppb) = Parts per billion
-- = Not Analyzed
ND = Not Detected

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Detection limit raised. Refer to analytical reports.

Table 3
Dissolved Oxygen Concentrations
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-1	02/15/95	--	4.30
	05/17/95	--	1.20
	08/25/95	--	2.71
	11/28/95	--	3.25
	02/26/96	5.23	1.41
	08/23/96	3.83	N/A
	02/17/97	0.82	0.78
	08/18/97	1.28	2.35
	05/16/01	1.54	--
	08/24/01	--	3.10
MW-2	02/15/95	--	1.90
	02/26/96	0.62	0.43
	08/23/96	2.04	N/A
	02/17/97	0.90	0.82
	08/18/97	1.16	--
	05/16/01	1.47	--
	08/24/01	--	2.60
MW-3	02/15/95	--	2.60
	05/17/95	--	1.13
	08/25/95	--	1.86
	11/28/95	--	6.81
	02/26/96	16.83	1.11
	08/23/96	3.29	N/A
	02/17/97	0.80	0.80
	08/18/97	1.43	--
	05/16/01	1.65	--
	08/24/01	--	2.60
MW-4	08/24/01	--	2.30
MW-5	08/24/01	--	2.10
MW-6	08/24/01	--	2.70

Table 3
Dissolved Oxygen Concentrations
Tosco (Unocal) Service Station #6419
6401 Dublin Boulevard
Dublin, California

WELL ID	DATE	Before Purging (mg/L)	After Purging (mg/L)
MW-7	08/24/01	--	2.70

EXPLANATIONS:

Dissolved oxygen concentrations were compiled from reports prepared by MPDS Services, Inc.

(mg/L) = Milligrams per liter

-- = Not Measured

N/A = Not Applicable

Table 4
Groundwater Analytical Data - Metals
 Tosco (Unocal) Service Station #6419
 6401 Dublin Boulevard
 Dublin, California

WELL ID	DATE	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
MW-1	03/14/94	ND	0.012	ND	0.030	0.039
	08/25/94	ND	ND	0.024	ND	ND
	11/18/94	ND	0.076	ND	0.067	ND
	02/15/95	ND	ND	ND	ND	ND
	05/17/95	ND	ND	ND	0.021	ND

EXPLANATIONS:

Groundwater laboratory analytical results were compiled from reports prepared by MPDS Services, Inc.

(ppm) = Parts per million

ND = Not Detected

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. The measurements are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Phillips 66 Company, the purge water and decontamination water generated during sampling activities is transported to Phillips 66 - San Francisco Refinery, located in Rodeo, California.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/Facility # Tasco # 6419 Job#: 180021.85
 Address: 6401 Dublin Blvd. Date: 2/6/02
 City: Dublin, CA Sampler: Vortex

Well ID MW-1 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 9.25 ft.
 Depth to Water 6.43 ft.

Volume	2" = 0.17	3" = 0.38	4" = 0.66
Factor (VF)	6" = 1.50	12" = 5.80	

2.83 x VF 0.17 = 0.47 x 3 (case volume) = Estimated Purge Volume: 1.5 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
 Stack
 Suction
 Grundfos
 Other: _____

Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 1615 Weather Conditions: clear
 Sampling Time: 1628 Water Color: clear Odor: mild
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1617</u>	<u>0.5</u>	<u>7.63</u>	<u>783</u>	<u>60.5</u>			
<u>1621</u>	<u>1</u>	<u>7.48</u>	<u>782</u>	<u>60.4</u>			
<u>1623</u>	<u>1.5</u>	<u>7.45</u>	<u>780</u>	<u>60.2</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 824)</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/Facility# Tasco # 6419 Job#: 180021.85
 Address: 6401 Dublin Blvd. Date: 2/6/02
 City: Dublin, CA Sampler: Vaztley

Well ID MW-2 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Amount Bailed
 Thickness: 0.00 (feet) (product/water): 0 (Gallons)
 Total Depth 17.60 ft.
 Depth to Water 6.40 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.20 x VF 0.17 = 1.90 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer
 Bailer
Suction
 Grundfos
 Other: _____
 Sampling Equipment: Disposable Bailer
 Bailer
 Pressure Bailer
 Grab Sample
 Other: _____

Starting Time: 1415 Weather Conditions: clear
 Sampling Time: 1430 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did-well-de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1417</u>	<u>2</u>	<u>7.60</u>	<u>1745</u>	<u>68.6</u>			
<u>1419</u>	<u>4</u>	<u>7.47</u>	<u>1757</u>	<u>67.5</u>			
<u>1424</u>	<u>6</u>	<u>7.44</u>	<u>1763</u>	<u>66.9</u>			
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 804's</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/
Facility # Tasco # 6419
Address: 6401 Dublin Blvd.
City: Dublin, CA

Job#: 180021.85
Date: 2/6/02
Sampler: Sortley

Well ID MW-3
Well Diameter 2 in.
Total Depth 18.50 ft.
Depth to Water 6.73 ft.

Well Condition: OK
Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 7 (Gallons)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.77 x VF 0.17 = 2.00 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1515
Sampling Time: 1530
Purging Flow Rate: 1 gpm.
Did well de-water? no

Weather Conditions: clear
Water Color: clear Odor: y
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1517</u>	<u>2</u>	<u>7.57</u>	<u>1429</u>	<u>68.8</u>			
<u>1519</u>	<u>4</u>	<u>7.42</u>	<u>1423</u>	<u>68.2</u>			
<u>1521</u>	<u>6</u>	<u>7.39</u>	<u>1420</u>	<u>68.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPHIG/btex/mtbe + 804's</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/Facility# Tasco # 6419 Job#: 180021.85
 Address: 6401 Dublin Blvd. Date: 2/6/02
 City: Dublin, CA Sampler: Vortex

Well ID MW-4 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0.07 (feet) Amount Bailed (product/water): 3 (Gallons)
 Total Depth 19.10 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 7.28 ft. Factor (VF) 6" = 1.50 12" = 5.80

11.82 x VF 0.17 = 200 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer Bailer Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 1545 Weather Conditions: clear
 Sampling Time: 1600 Water Color: brn Odor: y
 Purging Flow Rate: 1 gpm. Sediment Description: S/H
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1547</u>	<u>2</u>	<u>7.61</u>	<u>1540</u>	<u>68.6</u>			
<u>1549</u>	<u>4</u>	<u>7.43</u>	<u>1524</u>	<u>68.0</u>			
<u>1551</u>	<u>6</u>	<u>7.41</u>	<u>1513</u>	<u>67.7</u>			
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 804y's</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/Facility # Tosco # 6419 Job#: 180021.85
 Address: 6401 Dublin Blvd. Date: 2/6/02
 City: Dublin, CA Sampler: Varthel

Well ID MW-5 Well Condition: ON
 Well Diameter 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (Gallons) 0
 Total Depth 19.40 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 6.55 ft. Factor (VF) 6" = 1.50 12" = 5.80

12.85 x VF 0.17 = 2.18 x 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 1340 Weather Conditions: clear
 Sampling Time: 1358 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did well de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1342</u>	<u>2</u>	<u>7.70</u>	<u>1410</u>	<u>70.5</u>			
<u>1345</u>	<u>4.5</u>	<u>7.57</u>	<u>1429</u>	<u>69.4</u>			
<u>1347</u>	<u>7</u>	<u>7.53</u>	<u>1426</u>	<u>69.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 8 others</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/Facility # Tosco # 6419 Job#: 180021.85
 Address: 6401 Dublin Blvd. Date: 2/6/02
 City: Dublin, CA Sampler: Vastley

Well ID MW-6 Well Condition: OK
 Well Diameter 2 in. Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)
 Total Depth 19.35 ft. Volume 2" = 0.17 3" = 0.38 4" = 0.66
 Depth to Water 6.78 ft. Factor (VF) 6" = 1.50 12" = 5.80

12.57 x VF 0.17 = 2.13 x 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge Equipment: Disposable Bailer Bailer Stack Suction Grundfos Other: _____
 Sampling Equipment: Disposable Bailer Bailer Pressure Bailer Grab Sample Other: _____

Starting Time: 1445 Weather Conditions: clear
 Sampling Time: 1500 Water Color: clear Odor: no
 Purging Flow Rate: 1 gpm. Sediment Description: _____
 Did-well-de-water? no If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu\text{mhos/cm}$	Temperature $^{\circ}\text{F}$	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1447</u>	<u>2</u>	<u>7.62</u>	<u>1680</u>	<u>67.6</u>			
<u>1449</u>	<u>4</u>	<u>7.49</u>	<u>1674</u>	<u>66.8</u>			
<u>1451</u>	<u>6.5</u>	<u>7.46</u>	<u>1665</u>	<u>66.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(GI)/btex/mtbe + 80493</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/
Facility # Tesco # 6419
Address: 6401 Dublin Blvd.
City: Dublin, CA

Job#: 180021.85
Date: 2/6/02
Sampler: Vasthe

Well ID MW-7

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon
Thickness: 0.00 (feet) Amount Bailed 0 (Gallons)

Total Depth 19.35 ft.

Depth to Water 6.62 ft.

Volume	2" = 0.17	3" = 0.38	4" = 0.66
Factor (VF)	6" = 1.50	12" = 5.80	

12.73 x VF 0.17 = 2.16 x 3 (case volume) = Estimated Purge Volume: 6.5 (gal.)

Purge
Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling
Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1225
Sampling Time: 1245
Purging Flow Rate: 1 gpm.
Did well de-water? no

Weather Conditions: clear
Water Color: brown Odor: no
Sediment Description: slt
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1227</u>	<u>2</u>	<u>7.65</u>	<u>1380</u>	<u>67.6</u>			
<u>1229</u>	<u>4</u>	<u>7.53</u>	<u>1367</u>	<u>68.8</u>			
<u>1232</u>	<u>6.5</u>	<u>7.49</u>	<u>1360</u>	<u>69.7</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 804's</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/
Facility # Tosco # 6419
Address: 6401 Dublin Blvd.
City: Dublin, CA

Job#: 180021.85
Date: 2/16/02
Sampler: Vertek

Well ID MW-8
Well Diameter 2 in.
Total Depth 20.10 ft.
Depth to Water 6.35 ft.

Well Condition: ON
Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (Gallons)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

13.75 x VF 0.17 = 2.33 x 3 (case volume) = Estimated Purge Volume: 7 (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1145
Sampling Time: 1205
Purging Flow Rate: 1 gpm.
Did well de-water? no

Weather Conditions: ptly cldy
Water Color: brn Odor: no
Sediment Description: silt
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1147</u>	<u>2.5</u>	<u>7.70</u>	<u>1610</u>	<u>67.3</u>			
<u>1149</u>	<u>5</u>	<u>7.56</u>	<u>1593</u>	<u>67.9</u>			
<u>1252</u>	<u>7</u>	<u>7.52</u>	<u>1587</u>	<u>68.5</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 8 org's</u>

COMMENTS: _____

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/
Facility # Tosco # 6419
Address: 6401 Dublin Blvd.
City: Dublin, CA

Job#: 180021.85
Date: 2/6/02
Sampler: Vertles

Well ID MW-9
Well Diameter 2 in.
Total Depth 20.15 ft.
Depth to Water 5.94 ft.

Well Condition: OK
Hydrocarbon Thickness: 0.00 (feet) Amount Bailed (product/water): 0 (Gallons)
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66
6" = 1.50 12" = 5.80

14.21 x VF 0.17 = 2.41 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer
Bailer Stack
Suction
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer
Grab Sample
Other: _____

Starting Time: 1300
Sampling Time: 1320
Purging Flow Rate: 1 gpm.
Did well de-water? no

Weather Conditions: clear
Water Color: brn. Odor: no
Sediment Description: silt
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1302</u>	<u>2.5</u>	<u>7.64</u>	<u>1213</u>	<u>68.9</u>			
<u>1305</u>	<u>5</u>	<u>7.50</u>	<u>1221</u>	<u>67.9</u>			
<u>1308</u>	<u>7.5</u>	<u>7.46</u>	<u>1230</u>	<u>67.1</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>5 X VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>SEQUOIA</u>	<u>TPH(G)/btex/mtbe + 80415</u>

COMMENTS: _____

GLOBAL ID# T0600101443

Keep to original container - VINYL or original



Tosco Marketing Company
5220 Central Expressway
Elk Ranch, California 94521

Facility Number Tosco #6419
 Facility Address 6401 Dublin Blvd., Dublin, CA
 Consultant Project Number 180021.85
 Consultant Name Gattler-Ryan Inc. (G-R Inc.)
 Address 6747 SIERRA COURT, SUITE J, DUBLIN, CA 94568
 Project Contact (Name) Deanna L. Harding
 (Phone) (925) 551-7555 (Fax Number) 925-551-7899

Contact (Name) MR. Dave DeWitt
 (Phone) 925-277-2384
 Laboratory Name Sequoia Analytical
 Laboratory Release Number _____
 Samples Collected by (Name) Natties Tashjian
 Collection Date 2/6/02
 Signature [Signature]

Feb-07-02 10:22am From-Gattler-Ryan Inc 925-551-7899 -7-745 F-049 F-032/002

202051

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iod (Yes or No)	Analytes To Be Performed															
								THQ GW- BTXs with the rest	TPH blend (6015)	Oil and Grease (6022)	Purgeable Hydrocarbons (6010)	Purgeable Aromatics (6022)	Purgeable Organics (6040)	Extractable Organics (6270)	Inerts Calc/Non-Calc (608 or 61)	80 xup	By 8260						
TH-LB	01	1	W	G		HCl	Y	X															
MW-1	02	5	u	u	1628	u	u	X										X					
MW-2	03	5	u	u	1430	u	u	X										X					
MW-3	04	5	u	u	1530	u	u	X										X					
MW-4	05	5	u	u	1600	u	u	X										X					
MW-5	06	5	u	u	1358	u	u	X										X					
MW-6	07	5	u	u	1500	u	u	X										X					
MW-7	08	5	u	u	1245	u	u	X										X					
MW-8	09	5	u	u	1205	u	u	X										X					
MW-9	10	5	u	u	1320	u	u	X										X					

DO NOT BILL TH-LB ANALYSIS

8 Ox's -- MTBB, THA, DTP, HTBB, TAME, 1,2DCA, BDB, Ethanol

Amended 2/7/02

[Signature]

Requisitioned By (Signature) [Signature] Organization G-R Inc. Date/Time 2/6/02 Received By (Signature) [Signature] Organization Sequoia Ana! Date/Time 2/6/02
 Requisitioned By (Signature) _____ Organization _____ Date/Time _____ Received By (Signature) _____ Organization _____ Date/Time _____
 Requisitioned For Laboratory By (Signature) _____ Date/Time _____
 Turn Around Time (Circle Choice)
 24 Hrs.
 48 Hrs.
 8 Days
 10 Days
 As Unbuffered



**Sequoia
Analytical**

1551 Industrial Road
San Carlos, CA 94070
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

20 February, 2002

Deanna Harding
Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin, CA 94568

RECEIVED

FEB 20 2002

RE: Tosco(1)
Sequoia Report: L202051

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Enclosed are the results of analyses for samples received by the laboratory on 02/06/02 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wayne Stevenson
Project Manager

CA ELAP Certificate #2360

Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco #6419
Project Manager: Deanna Harding

Reported:
02/20/02 10:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	L202051-01	Water	02/06/02 00:00	02/06/02 17:45
MW-1	L202051-02	Water	02/06/02 16:28	02/06/02 17:45
MW-2	L202051-03	Water	02/06/02 14:30	02/06/02 17:45
MW-3	L202051-04	Water	02/06/02 15:30	02/06/02 17:45
MW-4	L202051-05	Water	02/06/02 16:00	02/06/02 17:45
MW-5	L202051-06	Water	02/06/02 13:58	02/06/02 17:45
MW-6	L202051-07	Water	02/06/02 15:00	02/06/02 17:45
MW-7	L202051-08	Water	02/06/02 12:45	02/06/02 17:45
MW-8	L202051-09	Water	02/06/02 12:05	02/06/02 17:45
MW-9	L202051-10	Water	02/06/02 13:20	02/06/02 17:45

Sequoia Analytical - San Carlos

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Wayne Stevenson, Project Manager



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco #6419
Project Manager: Deanna Harding

Reported:
02/20/02 10:30

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (L202051-02) Water Sampled: 02/06/02 16:28 Received: 02/06/02 17:45									
Ethanol	ND	2500	ug/l	5	2020030	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	420	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	100	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>111 %</i>		<i>70-130</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>97.6 %</i>		<i>70-130</i>	"	"	"	"	
MW-2 (L202051-03) Water Sampled: 02/06/02 14:30 Received: 02/06/02 17:45									
Ethanol	ND	500	ug/l	1	2020029	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	21	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>101 %</i>		<i>70-130</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>104 %</i>		<i>70-130</i>	"	"	"	"	
MW-3 (L202051-04) Water Sampled: 02/06/02 15:30 Received: 02/06/02 17:45									
Ethanol	ND	17000	ug/l	33.33	2020030	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	33	"	"	"	"	"	"	
1,2-Dichloroethane	ND	33	"	"	"	"	"	"	
Di-isopropyl ether	ND	33	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	33	"	"	"	"	"	"	
Methyl tert-butyl ether	3300	33	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	33	"	"	"	"	"	"	
Tert-butyl alcohol	ND	670	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>108 %</i>		<i>70-130</i>	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>99.0 %</i>		<i>70-130</i>	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco #6419
 Project Manager: Deanna Harding

 Reported:
 02/20/02 10:30

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (L202051-05) Water Sampled: 02/06/02 16:00 Received: 02/06/02 17:45									
Ethanol	ND	12000	ug/l	25	2020030	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	25	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Methyl tert-butyl ether	3100	25	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	25	"	"	"	"	"	"	
Tert-butyl alcohol	ND	500	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.4 %		70-130	"	"	"	"	
MW-5 (L202051-06) Water Sampled: 02/06/02 13:58 Received: 02/06/02 17:45									
Ethanol	ND	500	ug/l	1	2020029	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	7.9	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %		70-130	"	"	"	"	
MW-6 (L202051-07) Water Sampled: 02/06/02 15:00 Received: 02/06/02 17:45									
Ethanol	ND	4200	ug/l	8.33	2020030	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	8.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	8.3	"	"	"	"	"	"	
Di-isopropyl ether	ND	8.3	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	8.3	"	"	"	"	"	"	
Methyl tert-butyl ether	680	8.3	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	8.3	"	"	"	"	"	"	
Tert-butyl alcohol	ND	170	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.0 %		70-130	"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco #6419
Project Manager: Deanna Harding

Reported:
02/20/02 10:30

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (L202051-08) Water Sampled: 02/06/02 12:45 Received: 02/06/02 17:45									
Ethanol	ND	500	ug/l	1	2020029	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	1.4	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	3.2	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	"	"	"	"	
MW-8 (L202051-09) Water Sampled: 02/06/02 12:05 Received: 02/06/02 17:45									
Ethanol	ND	500	ug/l	1	2020029	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.2 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %		70-130	"	"	"	"	
MW-9 (L202051-10) Water Sampled: 02/06/02 13:20 Received: 02/06/02 17:45									
Ethanol	ND	500	ug/l	1	2020029	02/11/02	02/11/02	EPA 8260B	
1,2-Dibromoethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	14	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	20	"	"	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %		70-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco #6419
 Project Manager: Deanna Harding

Reported:
 02/20/02 10:30

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (L202051-01) Water Sampled: 02/06/02 00:00 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		118 %	70-130	"	"	"	"	"	
MW-1 (L202051-02) Water Sampled: 02/06/02 16:28 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/18/02	02/18/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	70-130	"	"	"	"	"	
MW-1 (L202051-02RE1) Water Sampled: 02/06/02 16:28 Received: 02/06/02 17:45									
Methyl tert-butyl ether (MTBE)	450	25	ug/l	10	2B14002	02/15/02	02/15/02	EPA 8015M/8021	Q-28a
<i>Surrogate: a,a,a-Trifluorotoluene</i>		100 %	70-130	"	"	"	"	"	
MW-2 (L202051-03) Water Sampled: 02/06/02 14:30 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	23	2.5	"	"	"	"	"	"	Q-28a
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130	"	"	"	"	"	

Gettler-Ryan/Geostrategies(1)
 6747 Sierra Court, Suite J
 Dublin CA, 94568

 Project: Tosco(1)
 Project Number: Tosco #6419
 Project Manager: Deanna Harding

 Reported:
 02/20/02 10:30

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (L202051-04) Water Sampled: 02/06/02 15:30 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	1000	ug/l	20	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	4300	50	"	"	"	"	"	"	Q-28b
Surrogate: a,a,a-Trifluorotoluene		98 %		70-130	"	"	"	"	
MW-4 (L202051-05) Water Sampled: 02/06/02 16:00 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	100	ug/l	2	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		100 %		70-130	"	"	"	"	
MW-4 (L202051-05RE1) Water Sampled: 02/06/02 16:00 Received: 02/06/02 17:45									
Methyl tert-butyl ether (MTBE)	2300	500	ug/l	200	2B14002	02/18/02	02/18/02	EPA 8015M/8021	
Surrogate: a,a,a-Trifluorotoluene		98 %		70-130	"	"	"	"	
MW-5 (L202051-06) Water Sampled: 02/06/02 13:58 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	7.7	2.5	"	"	"	"	"	"	Q-28a
Surrogate: a,a,a-Trifluorotoluene		98 %		70-130	"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco #6419
Project Manager: Deanna Harding

Reported:
02/20/02 10:30

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (L202051-07) Water Sampled: 02/06/02 15:00 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95 %		70-130	"	"	"	"	
MW-6 (L202051-07RE1) Water Sampled: 02/06/02 15:00 Received: 02/06/02 17:45									
Methyl tert-butyl ether (MTBE)	610	120	ug/l	50	2B14002	02/18/02	02/18/02	EPA 8015M/8021	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		110 %		70-130	"	"	"	"	
MW-7 (L202051-08) Water Sampled: 02/06/02 12:45 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	3.9	2.5	"	"	"	"	"	"	Q-28a
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95 %		70-130	"	"	"	"	
MW-8 (L202051-09) Water Sampled: 02/06/02 12:05 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95 %		70-130	"	"	"	"	



Gettler-Ryan/Geostrategies(1)
6747 Sierra Court, Suite J
Dublin CA, 94568

Project: Tosco(1)
Project Number: Tosco #6419
Project Manager: Deanna Harding

Reported:
02/20/02 10:30

**Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Walnut Creek**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (L202051-10) Water Sampled: 02/06/02 13:20 Received: 02/06/02 17:45									
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l	1	2B14002	02/15/02	02/15/02	EPA 8015M/8021	
Benzene	ND	0.50	"	"	"	"	"	"	Q-28
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether (MTBE)	19	2.5	"	"	"	"	"	"	Q-28a
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>112 %</i>		<i>70-130</i>	"	"	"	"	



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Reported:
02/20/02 10:30

**Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020029 - EPA 5030B [P/T]										
Blank (2020029-BLK1)										
Prepared & Analyzed: 02/08/02										
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.6		"	50.0		95.2	70-130			
<i>Surrogate: Toluene-d8</i>	52.0		"	50.0		104	70-130			
Blank (2020029-BLK2)										
Prepared & Analyzed: 02/11/02										
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.4		"	50.0		101	70-130			
<i>Surrogate: Toluene-d8</i>	51.6		"	50.0		103	70-130			
LCS (2020029-BS1)										
Prepared & Analyzed: 02/08/02										
Methyl tert-butyl ether	35.9	1.0	ug/l	50.0		71.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.8		"	50.0		97.6	70-130			
<i>Surrogate: Toluene-d8</i>	54.2		"	50.0		108	70-130			



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Reported:
02/20/02 10:30

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020029 - EPA 5030B [P/T]

LCS (2020029-BS2) Prepared & Analyzed: 02/11/02										
Methyl tert-butyl ether	46.2	1.0	ug/l	50.0		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	48.7		"	50.0		97.4	70-130			
Surrogate: Toluene-d8	50.8		"	50.0		102	70-130			
Matrix Spike (2020029-MS1) Source: L202051-03 Prepared: 02/08/02 Analyzed: 02/11/02										
Methyl tert-butyl ether	76.3	1.0	ug/l	50.0	21	111	60-140			
Surrogate: 1,2-Dichloroethane-d4	49.8		"	50.0		99.6	70-130			
Surrogate: Toluene-d8	51.6		"	50.0		103	70-130			
Matrix Spike Dup (2020029-MSD1) Source: L202051-03 Prepared: 02/08/02 Analyzed: 02/11/02										
Methyl tert-butyl ether	74.8	1.0	ug/l	50.0	21	108	60-140	1.99	25	
Surrogate: 1,2-Dichloroethane-d4	49.2		"	50.0		98.4	70-130			
Surrogate: Toluene-d8	51.0		"	50.0		102	70-130			

Batch 2020030 - EPA 5030B [P/T]

Blank (2020030-BLK1) Prepared & Analyzed: 02/08/02										
Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
Surrogate: 1,2-Dichloroethane-d4	53.1		"	50.0		106	70-130			
Surrogate: Toluene-d8	49.6		"	50.0		99.2	70-130			



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Reported:
02/20/02 10:30

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2020030 - EPA 5030B [P/T]

Blank (2020030-BLK2)

Prepared & Analyzed: 02/11/02

Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.5		"	50.0		101	70-130			
<i>Surrogate: Toluene-d8</i>	48.9		"	50.0		97.8	70-130			

Blank (2020030-BLK3)

Prepared & Analyzed: 02/12/02

Ethanol	ND	500	ug/l							
1,2-Dibromoethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
Di-isopropyl ether	ND	1.0	"							
Ethyl tert-butyl ether	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	20	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.3		"	50.0		107	70-130			
<i>Surrogate: Toluene-d8</i>	50.0		"	50.0		100	70-130			

LCS (2020030-BS1)

Prepared & Analyzed: 02/08/02

Methyl tert-butyl ether	42.1	1.0	ug/l	50.0		84.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.0		"	50.0		106	70-130			
<i>Surrogate: Toluene-d8</i>	47.3		"	50.0		94.6	70-130			

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 02/20/02 10:30

Volatile Organic 8 Oxygenated Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020030 - EPA 5030B [P/T]										
LCS (2020030-BS2)										
Prepared & Analyzed: 02/11/02										
Methyl tert-butyl ether	41.8	1.0	ug/l	50.0		83.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	52.6		"	50.0		105	70-130			
Surrogate: Toluene-d8	46.5		"	50.0		93.0	70-130			
LCS (2020030-BS3)										
Prepared & Analyzed: 02/12/02										
Methyl tert-butyl ether	45.3	1.0	ug/l	50.0		90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	54.4		"	50.0		109	70-130			
Surrogate: Toluene-d8	47.4		"	50.0		94.8	70-130			
Matrix Spike (2020030-MS1)										
Source: L202058-07 Prepared & Analyzed: 02/08/02										
Methyl tert-butyl ether	43.6	1.0	ug/l	50.0	1.5	84.2	60-140			
Surrogate: 1,2-Dichloroethane-d4	55.8		"	50.0		112	70-130			
Surrogate: Toluene-d8	46.3		"	50.0		92.6	70-130			
Matrix Spike Dup (2020030-MSD1)										
Source: L202058-07 Prepared & Analyzed: 02/08/02										
Methyl tert-butyl ether	46.6	1.0	ug/l	50.0	1.5	90.2	60-140	6.65	25	
Surrogate: 1,2-Dichloroethane-d4	58.0		"	50.0		116	70-130			
Surrogate: Toluene-d8	45.8		"	50.0		91.6	70-130			



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Project: Tosco(1)
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Reported:
02/20/02 10:30

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2B14002 - EPA 5030B P/T										
Blank (2B14002-BLK2) Prepared & Analyzed: 02/15/02										
Purgeable Hydrocarbons (C6-C12)	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 (MTBE)	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	31.0		"	30.0		103	70-130			
Blank (2B14002-BLK3) Prepared & Analyzed: 02/18/02										
Purgeable Hydrocarbons (C6-C12)	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 (MTBE)	ND	2.5	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	33.3		"	30.0		111	70-130			
LCS (2B14002-BS2) Prepared & Analyzed: 02/15/02										
Benzene	20.9	0.50	ug/l	20.0		104	70-130			
Toluene	21.1	0.50	"	20.0		106	70-130			
Ethylbenzene	22.4	0.50	"	20.0		112	70-130			
Xylenes (total)	66.0	0.50	"	60.0		110	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	34.6		"	30.0		115	70-130			
LCS (2B14002-BS3) Prepared & Analyzed: 02/18/02										
Benzene	18.4	0.50	ug/l	20.0		92	70-130			
Toluene	18.6	0.50	"	20.0		93	70-130			
Ethylbenzene	19.2	0.50	"	20.0		96	70-130			
Xylenes (total)	58.7	0.50	"	60.0		98	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	32.2		"	30.0		107	70-130			



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Project: Tosco(1)
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Reported:
02/20/02 10:30

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2B14002 - EPA 5030B P/T

Matrix Spike (2B14002-MS1)

Source: W202156-03

Prepared & Analyzed: 02/15/02

Benzene	18.3	0.50	ug/l	20.0	ND	92	70-130			
Toluene	18.5	0.50	"	20.0	ND	92	70-130			
Ethylbenzene	19.1	0.50	"	20.0	ND	96	70-130			
Xylenes (total)	57.6	0.50	"	60.0	ND	96	70-130			
Surrogate: a,a,a-Trifluorotoluene	34.5		"	30.0		115	70-130			

Matrix Spike Dup (2B14002-MSD1)

Source: W202156-03

Prepared & Analyzed: 02/15/02

Benzene	16.1	0.50	ug/l	20.0	ND	80	70-130	13	20	
Toluene	17.4	0.50	"	20.0	ND	87	70-130	6	20	
Ethylbenzene	17.3	0.50	"	20.0	ND	86	70-130	10	20	
Xylenes (total)	55.6	0.50	"	60.0	ND	93	70-130	4	20	
Surrogate: a,a,a-Trifluorotoluene	31.2		"	30.0		104	70-130			

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Reported:
02/20/02 10:30

Notes and Definitions

- Q-28 The opening calibration verification standard was outside acceptance criteria by -3%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
- Q-28a The opening calibration verification standard was outside acceptance criteria by 13%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
- Q-28b The opening calibration verification standard was outside acceptance criteria by 5%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.
- 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