GETTLER-RYAN INC.

1364 North McDowell Blvd. Suite B2 Petaluma, CA 94954 Alarredo Count Phone (707) 789-3255, Fax (707) 789-3218

TIRANSMIITTAL

TO:

Mr. David DeWitt

ConocoPhillips

76 Broadway

Sacramento, CA 95818

DATE:

June 13, 2003

PROJECT NO.

140101.3

SUBJECT:

Station No. 6419, Du

FROM:

Jed Douglas

WE ARE SENDING YOU:

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1	6/12/03	Remedial Status Report	

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☐ As noted below

COMMENTS:

Signed:

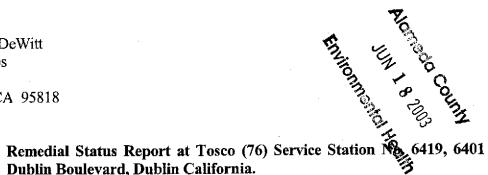
COPIES TO:

Ms. Eva Chu, Alameda County Health Care Services Agency

1131 Harbor Bay Parkway, Alameda, CA 94502

June 12, 2003

Mr. David B. DeWitt ConocoPhillips 76 Broadway Sacramento, CA 95818



Subject:

Dublin Boulevard, Dublin California.

Mr. De Witt:

At the request of ConocoPhillips, Gettler-Ryan Inc. (GR) has prepared this report to document the results of the groundwater purging and disposal conducted at the subject site. This work was performed to reduce methyl tertiary butyl ether (MtBE) concentrations in groundwater in the vicinity of the underground storage tank (UST) pit and groundwater monitoring well MW-1. Groundwater has been purged weekly from a four-inch diameter well in the UST pit backfill, installed to access the groundwater beneath the site. Up to 5,000 gallons of groundwater have been purged from the UST pit during each event and disposed of at the ConocoPhillips Refinery in Rodeo, California.

Background

The site is currently an operating 76 service station. Nine groundwater monitoring wells are present at and in the site vicinity and are monitored and sampled semi-annually. The site location is shown on Figure 1. The monitoring wells and other site features are shown on Figure 2. Groundwater flow direction has been consistently to the southwest with gradients ranging between 0.001 to 0.01 ft./ft. since February 1998. Of the existing monitoring wells, MW-1, located downgradient of the UST pit, has shown elevated concentrations of MtBE. In November 1999, a four-inch diameter, slotted poly-vinyl chloride (PVC) Tank Pit Well (TPW-1) was installed in the gasoline UST pit backfill to allow purging of MtBE-impacted groundwater. Purging of TPW-1 was initiated in December of 1999.

Groundwater Removal and Disposal

Groundwater was removed from the UST pit by Onyx Industrial Services (Onyx) of Benicia, California and transported to the ConocoPhillips Refinery in Rodeo, California for disposal. The groundwater was purged from TPW-1 directly into Onyx vacuum trucks on an approximate weekly basis. From December 23, 1999 through December 24, 2002, approximately 649,600 gallons of groundwater were removed from well TPW-1. Groundwater removal volumes and purging dates are summarized in Table 1.

Groundwater Sampling

Groundwater from TPW-1 is periodically sampled and the samples submitted under Chain-of-Custody documentation to Sequoia Analytical in Sacramento, California (ELAP No. 1624). Groundwater samples are analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg) by EPA Method 8015, benzene, toluene, ethylbenzene, and xylenes (ETEX), and methyl tert-butyl ether (MtBE) by EPA Method 8021. The results have been used to document hydrocarbon concentration trends and to comply with ConocoPhillips Refinery requirements. Sample dates and analytical results are summarized in Table 1. Laboratory analytical results for the December 12, 2002, sampling of well TW-1 are presented in Appendix A.

Groundwater Analytical Data and MtBE Mass Removal

Eleven grab groundwater samples were collected from TPW-1 between December 10, 1999 and December 12, 2002. For each weekly purging event, an estimated mass of MtBE removed was calculated. The estimated MtBE concentration for each mass removal calculation was determined by averaging the MtBE concentrations from the most recent grab groundwater samples (before and after the purging events). Based on this series of calculations, an estimated total of 130.21 pounds of MtBE have been removed from the site during the purging of 649,600 gallons of groundwater through December 24, 2002. The estimated cumulative MtBE removed and the calculation method are presented in Table 1. Laboratory analytical results for the grab sampling of well TPW-1 are presented in Appendix A.

Conclusions and Recommendations

As summarized in Table 1 and illustrated on Figure 3, petroleum hydrocarbon concentrations in groundwater within the former UST pit have been reduced by purging groundwater from the pit on a regular basis. MtBE concentrations have decreased from a high of 150,000 ppb on May 31, 2000 to 130 ppb on December 12, 2002. This represents a concentration decrease of over 99%. TPHg and benzene concentrations have also decreased from 2,100 and 96 ppb on February 3, 2000, to 79 ppb and <0.50 ppb for both analytes on December 12, 2002.

MtBE concentrations in groundwater samples from monitoring well MW-1 have decreased from a high of 140,000 ppb on August 2, 1999 to 2,400 ppb on July 30, 2002. This represents a decrease of over 98%. The most recent and historical groundwater analytical data for MW-1 are presented in GR's Second Semi-Annual 2002 Groundwater Monitoring and Sampling Report, dated September 9, 2002.

140101.3

In conclusion, the most recent groundwater analytical results from TPW-1 document significant decreases in dissolved hydrocarbon concentrations. In addition, the most recent semi-annual groundwater sampling results show over a 98% reduction in MtBE concentrations in monitoring well MW-1. As a result of the purging, ConocoPhillips has succeeded in removing an estimated 130.21 pounds of MtBE from groundwater beneath the site as of December 24, 2002.

On February 5, 2003, ConocoPhillips concurred with GR's recommendation to stop the groundwater purging, based on asymptotic levels of cumulative pounds of MtBE removed (Figure 3). Onyx was subsequently contacted and requested to cease the groundwater purging program at this site. Groundwater monitoring and sampling will continue at the site on a semi-annual basis. GR will interpret the groundwater analytical results and make future recommendations for additional work, if warranted.

If you have any questions regarding this report, please feel free to call us in our Petaluma office at (707) 789-3255.

Sincerely,

Gettler-Ryan Inc.

David J. Vossler Project Manager

Jed A. Douglas Senior Geologist R.G. No. 7516 JED A.

DOUGLAS

NO. 7516

OF CALIFORNIA

Attachments:

Table 1:

Groundwater Removal and Analytical Data

Figure 1:

Vicinity Map Site Plan

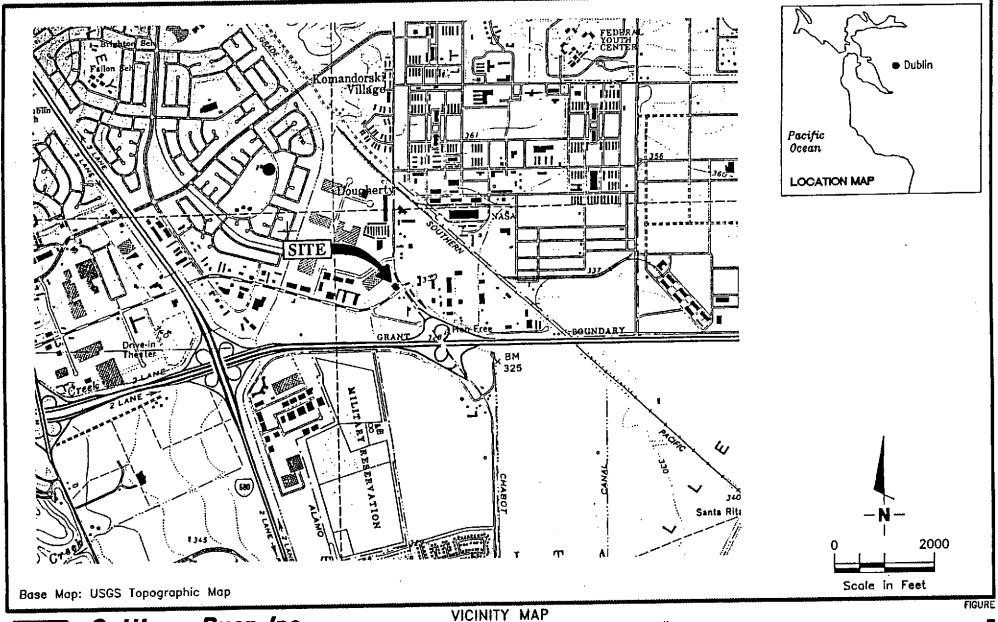
Figure 2: Figure 3:

MtBE Concentration and Pounds Removed

Appendix A:

Laboratory Analytical Results

cc: Ms. Eva Chu, Alameda County Health Care Services Agency



Gettler - Ryan Inc.

REVIEWED BY

6747 Sierro Ct., Suite J Dublin, CA 94568

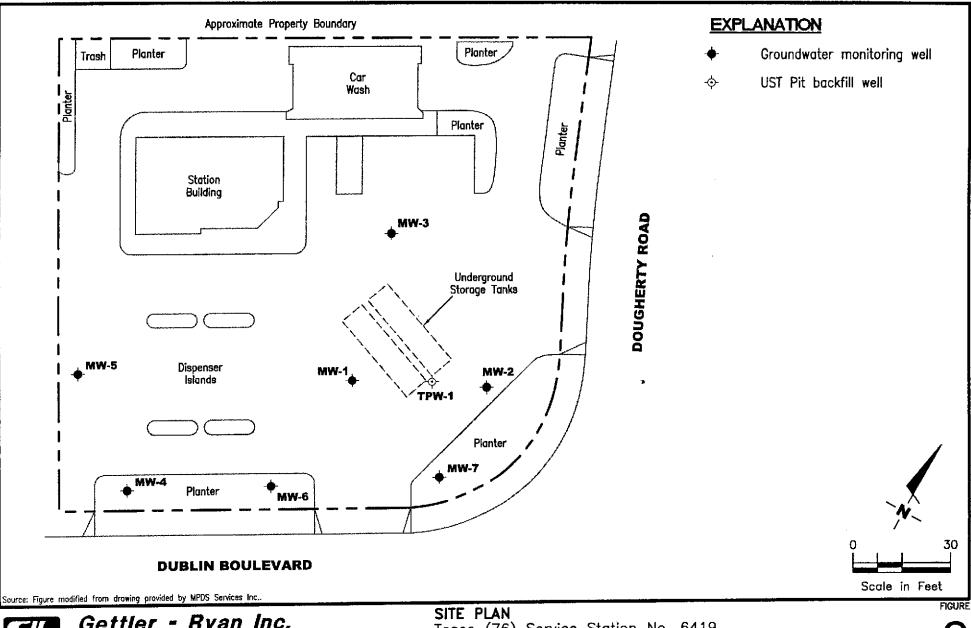
(925) 551-7555

Tosco 76 Branded Facility #6419 6401 Dublin Boulevard Dublin, California

REVISED DATE

JOB NUMBER 140101

November, 1998



Gettler - Ryan Inc.

REVIEWED BY

6747 Sierra Ct., Suite J Dublin, CA 94568

(925) 551-7555

Tosco (76) Service Station No. 6419 6401 Dublin Boulevard

Dublin, California

DATE

REVISED DATE

PROJECT NUMBER 140101

10/00

FILE NAME: P:\ENMRO\TOSCO\6419\A00-6419.DWG | Layout Tab: Site Plan

Figure 3
Tosco (76) Service Station No. 6419
MtBE Concentration and Pounds Removed

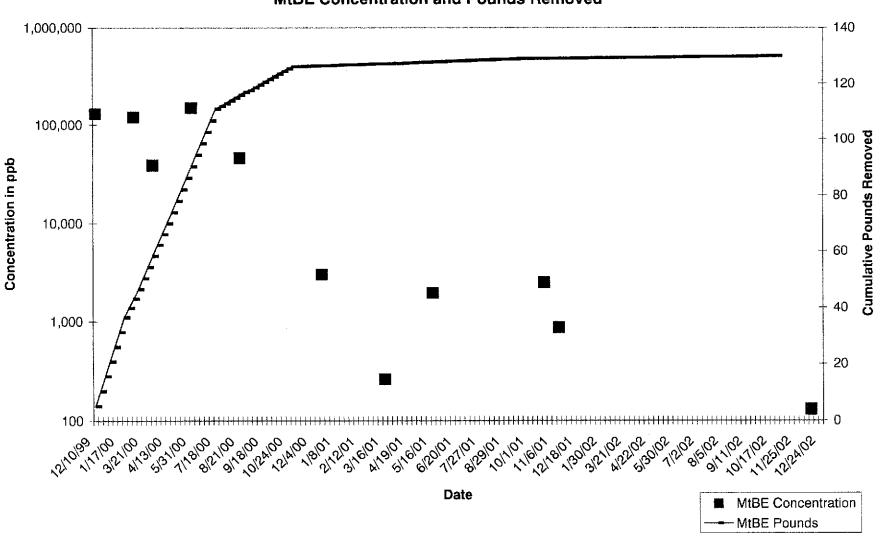


Table 1 - Groundwater Removal and Analytical Data

Tosco (76) Service Station No. 6419 6401 Dublin Boulevard Dublin, California

Date Sampled or Purged	Purge Volume in Gallons	Cumulative Purge Volume in Gallons	MtBE Removed in Pounds	Cumulative MtBE Removed in Pounds	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- Benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
		sing installed in			NEW T	GE E/	G.F.		N. E.	
12/10/99				***	<1,000	32	<10	<10	<10	130,000
12/23/99	5,000	5,000	5.21	5.21			**			
12/31/99	5,000	10,000	5.21	10.42						
1/6/00	5,000	15,000	5.21	15.63						
1/10/00	5,000	20,000	5.21	20.84				*-	A. 44	
1/17/00	5,000	25,000	5.21	26.05		pa an				
1/31/00	5,000	30,000	5.21	31.26						-
2/1/00	5,000	35,000	5.21	36.47			17 PA			
					$2,100^{-1}$	96	240	<10	210	120,000
2/3/00				39.79						
3/15/00	5,000	40,000	3.31							
3/21/00	5,000	45,000	3.31	43.10						
3/27/00	5,000	50,000	3.31	46.42						
3/28/00				46.42	<5,000	<50	<50	<50	<50	39,000
4/4/00	5,000	55,000	3.94	50.36		~~				
4/7/00	5,000	60,000	3.94	54.29						
4/13/00	5,000	65,000	3.94	58.23						
4/17/00	5,000	70,000	3.94	62.17			u- a-			
4/24/00	5,000	75,000	3.94	66.11						
5/1/00	4,800	79,800	3.78	69.89						
5/8/00	5,000	84,800	3.94	73.83		<u></u>				
5/31/00					<50	1.7	< 0.50	<0.50	<0.50	150,000
6/8/00	5,000	89,800	4.09	77.92				vir its		
6/27/00	5,000	94,800	4.09	82.00						-
7/3/00	5,000	99,800	4.09	86.09					- -	- -
7/12/00	5,000	104,800	4.09	90.17						
7/18/00	5,000	109,800	4.09	94.26						
7/24/00	5,000	114,800	4.09	98.34		u. pa				
8/2/00	5,000	119,800	4.09	102.43						
8/8/00	5,000	124,800	4.09	106.51	in to					
8/18/00	5,000	129,800	4.09	110.60						
8/21/00					<130	4.8	<1.3	<1.3	<1.3	46,000
8/25/00	5,000	134,800	1.02	111.62			*			
8/31/00	5,000	139,800	1.02	112.64		+=	==			
9/6/00	5,000	144,800	1.02	113.66		~	w -			
9/11/00	5,000	149,800	1.02	114.68						
9/18/00	5,000	154,800	1.02	115.71						
9/29/00	5,000	159,800	1.02	116.73						
10/3/00	3,000	162,800	0.61	117.34						
10/3/00	5,000	167,800	1.02	118.36		u				
10/10/00	5,000	172,800	1.02	119.38						

Page 1 of 4

Table 1 - Groundwater Removal and Analytical Data Tosco (76) Service Station No. 6419

Fosco (76) Service Station No. 6419 6401 Dublin Boulevard Dublin, California

Date Sampled or Purged 10/24/00 10/30/00	Purge Volume in Gallons	Cumulative Purge Volume	MtBE	Cumulative	ТРНд	Th	Talmana	Trakes)	3 7. 1	
10/24/00	in Callana		Removed	MtBE Removed	_	Benzene	Toluene	Ethyl- Benzene	Xylenes	MtBE
		in Gallons	in Pounds	in Pounds	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
10/30/00	5,000	177,800	1.02	120.40						
	5,000	182,800	1.02	121.43						
11/6/00	5,000	187,800	1.02	122.45						
11/13/00	5,000	192,800	1.02	123.47						
11/24/00	5,000	197,800	1.02	124.49				hn &-		
12/4/00	4,000	201,800	0.82	125.31						
12/11/00	4,000	205,800	0.82	126.12						
12/12/00					<50	<20	<20	<20	<20	3,000
12/18/00	3,500	209,300	0.05	126.17						
1/3/01	4,000	213,300	0.05	126.22						
1/8/01	3,000	216,300	0.04	126.27						
1/17/01	4,000	220,300	0.05	126.32						
1/22/01	3,500	223,800	0.05	126.37						
1/31/01	5,000	228,800	0.07	126.44						
2/5/01	3,000	231,800	0.04	126.48						
2/12/01	5,000	236,800	0.07	126.54						
2/24/01	5,000	241,800	0.07	126.61						
3/2/01	5,000	246,800	0.07	126.68						
3/6/01	5,000	251,800	0.07	126.75	im *d					
3/14/01	5,000	256,800	0.07	126.82						
3/16/01					<50	< 0.50	<0.50	< 0.50	<0.50	260
3/21/01	5,000	261,800	0.05	126.86						
3/28/01	5,000	266,800	0.05	126.91						
4/3/01	5,000	271,800	0.05	126.95						-
4/12/01	5,000	276,800	0.05	127.00					₩*	
4/19/01	5,000	281,800	0.05	127.05						
4/23/01	4,000	285,800	0.04	127.08					+ ⊢	
5/5/01	5,000	290,800	0.05	127.13						
5/8/01	5,000	295,800	0.05	127.18		-				
5/13/01	5,000	300,800	0.05	127.22						
5/16/01	3,000	303,800	0.03	127.25	<50	< 0.50	2.27	2.03	0.665	1,950
5/23/01	4,000	307,800	0.07	127.32						
6/1/01	5,000	312,800	0.09	127.42					~~	
6/6/01	5,000	317,800	0.09	127.51			No. 100			
6/12/01	3,000	320,800	0.06	127.56					-	
6/20/01	5,000	325,800	0.09	127.66						
6/25/01	3,000	328,800	0.06	127.71						
7/7/01	5,000	333,800	0.09	127.81						
7/13/01	3,000	336,800	0.06	127.86						
7/21/01	3,000	339,800	0.06	127.92		and the same of th				
7/27/01	5,000	344,800	0.09	128.01					w.e-	
8/2/01	3,000	347,800	0.06	128.07				p		
8/8/01	3,000	350,800	0.06	128.12						

140101.03

Table 1 - Groundwater Removal and Analytical Data

Tosco (76) Service Station No. 6419 6401 Dublin Boulevard Dublin, California

Date Sampled or Purged	Purge Volume in Gallons	Cumulative Purge Volume in Gallons	MtBE Removed in Pounds	Cumulative MtBE Removed in Pounds	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- Benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
8/16/01	3,500	354,300	0.06	128.19						
8/20/01	5,000	359,300	0.09	128.28						
8/29/01	4,500	363,800	0.08	128.36	***					***
9/4/01	3,000	366,800	0.06	128.42						
9/10/01	3,000	369,800	0.06	128.47						
9/17/01	3,000	372,800	0.06	128.53					im —	
9/24/01	3,000	375,800	0.06	128.58						
10/1/01	3,000	378,800	0.06	128.64						
10/17/01	3,500	382,300	0.06	128.71						
10/23/01	3,000	385,300	0.06	128.76				 .		
10/26/01		n-n			<500	<5.0	<5.0	<5.0	<5.0	2,500
10/29/01	5,000	390,300	0.07	128.83						
11/6/01	3,500	393,800	0.05	128.88						
11/12/01	3,500	397,300	0.05	128.93	<50	< 0.50	< 0.50	< 0.50	< 0.50	870
11/20/01	3,500	400,800	0.05	128.98						
11/26/01	5,000	405,800	0.07	129.05						
12/4/01	5,000	410,800	0.07	129.12						
12/18/01	5,000	415,800	0.07	129.19						
12/27/01	5,000	420,800	0.07	129.26						
1/7/02	5000	425,800	0.02	129.28			~~			
1/17/02	5000	430,800	0.02	129.30			→			
1/22/02	5000	435,800	0.02	129.32						
1/30/02	5000	440,800	0.02	129.34						
2/6/02	5000	445,800	0.02	129.36						
2/27/02	5000	450,800	0.02	129.38						
3/8/02	5000	455,800	0.02	129.41		MM		==	==	
3/15/02	5000	460,800	0.02	129.43						- -
3/21/02	5000	465,800	0.02	129.45						
3/25/02	5000	470,800	0.02	129.47						
4/2/02	5000	475,800	0.02	129.49						
4/8/02	5000	480,800	0.02	129.51						
4/16/02	4000	484,800	0.02	129.53						
4/22/02	4500	489,300	0.02	129.55						
4/30/02	4000	493,300	0.02	129.56						
5/8/02	5000	498,300	0.02	129.58						
5/16/02	5000	503,300	0.02	129.60				~-		
5/21/02	5000	508,300	0.02	129.62						
5/30/02	4500	512,800	0.02	129.64				be- bu		
6/6/02	5000	517,800	0.02	129.66						
6/11/02	5000	522,800	0.02	129.68						
6/18/02	5000	527,800	0.02	129.71						
6/26/02	5000	532,800	0.02	129.73						n=
7/2/02	5000	537,800	0.02	129.75						

140101.03

Table 1 - Groundwater Removal and Analytical Data

Tosco (76) Service Station No. 6419 6401 Dublin Boulevard Dublin, California

Date Sampled or Purged	Purge Volume in Gallons	Cumulative Purge Volume in Gallons	MtBE Removed in Pounds	Cumulative MtBE Removed in Pounds	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- Benzene (ppb)	Xylenes (ppb)	MtBE (ppb)
7/8/02	5000	542,800	0.02	129.77						
7/19/02	3500	546,300	0.01	129.78						
7/23/02	5000	551,300	0.02	129.80						
7/29/02	5000	556,300	0.02	129.82			Mar has			
8/5/02	5000	561,300	0.02	129.85						
8/12/02	5000	566,300	0.02	129.87	ph 5m				n=	
8/22/02	3500	569,800	0.01	129.88						
8/27/02	4000	573,800	0.02	129.90					den Mill	
9/5/02	5000	578,800	0.02	129.92						
9/11/02	5000	583,800	0.02	129.94		**				
9/18/02	5000	588,800	0.02	129.96					per the	
9/26/02	5000	593,800	0.02	129.98				**~		
10/3/02	5000	598,800	0.02	130.00						
10/9/02	5000	603,800	0.02	130.02					*-	
10/17/02	2800	606,600	0.01	130.03						
10/29/02	5000	611,600	0.02	130.05						
11/5/02	3000	614,600	0.01	130.07				MA LOS		
11/13/02	5000	619,600	0.02	130.09						
11/22/02	5000	624,600	0.02	130.11						
11/25/02	5000	629,600	0.02	130.13			-*			
12/3/02	5000	634,600	0.02	130.15						
12/10/02	5000	639,600	0.02	130.17						
12/12/02					79	< 0.50	< 0.50	< 0.50	< 0.50	130
12/20/02	5000	644,600	0.02	130.19						
12/24/02	5000	649,600	0.02	130.21						

EXPLANATION:

ppb = parts per billion

<50 = analyte not detected at or above laboratories reporting limit

MtBE Removed (lbs) = Average MtBE concentration (ppb) * gallons removed * 8.337lbs/gal $H_20 / 1 \times 10^9$ ppb

Average MtBE Concentration (ppb) = (MtBE concentration from water sample prior to purging event + MtBE concentration from water sample following purging event)/2

ANALYTICAL METHODS:

TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8015 Modified

Benzene, Toluene, Ethylbenzene, and Total Xylenes according to EPA Method 8020

MtBE = Methyl tertiary butyl ether according to EPA Methods 8020 or 8260

ANALYTICAL LABORATORY:

Sequoia Analytical Walnut Creek, CA (ELAP #1271)

Sequoia Analytical Morgan Hill, CA (ELAP #1210)

Sequoia Analytical Scaramento, CA (ELAP #1624)

^{-- =} Not Applicable

¹ = Chromatogram pattern: Gasoline C6-C12

APPENDIX A LABORATORY ANALYTICAL RESULTS



30 December, 1999

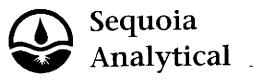
Doug Lee Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 13-Dec-99 17:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Laboratory Director



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 30-Dec-99 14:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled
W-1	W912275-01	Water	10-Dec-99 00:00
W-1	W912275-01	Water	10-Dec-99 14:00

Sequoia Analytical - Walnut Creek

Alan B. Kemp, Laboratory Director

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.



6747 Sierra Court Suite J Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419

Reported:

Project Manager: Doug Lee

30-Dec-99 14:36

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
W-1 (W912275-01) Water S	ampled: 10-Dec-99 14:00	Received:	13-Dec-9	9 17:14					
Purgeable Hydrocarbons	ND	1000	ug/l	20	9L17001	17-Dec-99	17-Dec-99	EPA	
Benzene	32	10	#	н	**	и	II	8015M/8020	
Toluene	ND	10	**	11	и	н	H	14	
Ethylbenzene	ND	10	17	11	н	11	n	**	
Xylenes (total)	ND	10	19	**	14	и	μ	**	
Surrogate: a,a,a-Trifluorotolue	ne	110 %	70-	-130	n	n	"	"	
W-1 (W912275-01RE1) Wate	r Sampled: 10-Dec-99 1	4:00 Recei	ved: 13-I	Dec-99 17:1	14				
Methyl tert-butyl ether	130000	2500	ug/l	1000	9L17001	17-Dec-99	17-Dec-99	EPA	
Surrogate: a,a,a-Trifluorotolue	ne	110 %	70-	-130	"	n	"	8015NJ/8020	

Sequoia Analytical - Walnut Creek

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.

Kemp, Daboratory Director



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

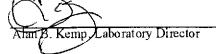
Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 30-Dec-99 14:36

Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Aпalyzed	Method	Notes
W-1 (W912275-01) Water	Sampled: 10-Dec-99 14:00	Received:	13-Dec-9	9 17:14					
Mercury	ND	0.00020	mg/l	1	9L20017	20-Dec-99	21-Dec-99	EPA 7470A	
Antimony	ND	0.10	н	11	9L21020	21-Dec-99	30-Dec-99	EPA 6010	
Arsenic	ND	0.10	II	п	u	**	11	**	A-01
Barium	0.12	0.010	II	li	Ħ	**	н	**	
Beryllium	ND	0.010	11	п	rt	н	7.7	11	
Cadmium	ND	0.010	II	II	**	11	11	ø	•
Chromium	0.020	0.010	II	1F	"	#	n	tf	
Cobalt	ND	0.010	II .	IF	**	**	**	н	
Copper	ND	0.010	II	II.	**	**	"	н	
Lead	0.040	0.020	JI	n	**	19	#	н	
Molybdenum	0.014	0.010	II	11	11	н	"	Ħ	
Nickel	0.048	0.010	п	п		II .	41	n	
Selenium	ND	0.10	II	ц	16	U	Ħ	41	
Silver	ND	0.010	II	11	**	"	11	**	
Tuallium	ND	0.50	II .	u	*1	"	n	"	
Vanadium	ND	0.010	п	ii	TE	11	n	17	
Zinc	0.046	0.020	II .	tt	**	u u	11	111	

Sequoia Analytical - Walnut Creek

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.





404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

30-Dec-99 14:36

Physical Parameters by APHA/ASTM/EPA Methods Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-1 (W912275-01) Water	Sampled: 10-Dec-99 14:00	Received:	13-Dec-9	9 17:14					
Corrosivity	7.3	0.10	pH units	1	9L16011	13-Dec-99	13-Dec-99	EPA 9045B	I-02
Ignitability by Flashpoint	ND	10	°C	T	9L14008	14-Dec-99	14-Dec-99	EPA 1010	F-01

Sequoia Analytical - Walnut Creek

Alan B. Kemp, Laboratory Director

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404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 30-Dec-99 14:36

Physical Parameters by APHA/ASTM/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
W-1 (W912275-01) Water	Sampled: 10-Dec-99 00:00	Received:	13-Dec-9	99 17:14					<u>.</u>
Reactive Cyanide	ND	10.0	mg/l	1	9120367	15-Dec-99	15-Dec-99	SW846 Ch.	
Reactive Sulfide	ND	50.0	II	**	**	"	"	SW846 Ch 7.3	

Sequoia Analytical - Walnut Creek

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.

Alan B. Kemp, Laboratory Director





Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 30-Dec-99 14:36

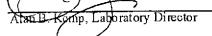
6747 Sierra Court Suite J Dublin CA, 94568

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 9L17001:	Prepared 17-Dec-99	Using E	PA 5030B [P/T]		· · · · · · · · · · · · · · · · · · ·					
Blank (9L17001-BL)	K1)	_									
Purgeable Hydrocarbons		ND	50	ug/l							•
Benzene		ND	0.50	н							
Toluene		ND	0.50	**							
Ethylbenzene		ND	0.50	**							
Xylenes (total)		ND	0.50	H							
Methyl tert-hutyl ether		ND	2.5	н							
Surrogate: a, a, a-Trifluoi	rotoluene	33.1		"	30.0		110	70-130			
LCS (9L17001-BS1)						_					
Benzene		19.2	0.50	ug/l	20.0		96.0	70-130			
Toluene		19.8	0.50	11	20.0		99.0	70-130			
Ethylhenzene		20.4	0.50	"	20.0		102	70-130			
Xylenes (total)		62.2	0.50	u	60.0		104	70-130			
Surrogate: a.a.a-Trifluot	rotoluene	29.7		"	30.0		99.0	70-130			
Matrix Spike (9L176	001-MS1)					Source: \	W912331-	03RE1			
Benzene		19.9	0.50	ug/l	20.0	ND	99.5	70-130			
Toluene		20.1	0.50	*	20.0	ND	101	70-130			
Ethylhenzene		21.2	0.50	11	20.0	ND	106	70-130			
Xylenes (total)		63.6	0.50	и	60.0	ND	106	70-130			
Surrogate: a,a,a-Trifluo.	rotoluene	30.7		"	30.0		102	70-130			
Matrix Spike Dup (5)L17001-MSD1)					Source: \	W912331	-03RE1			
Benzene		18.7	0.50	սց/1	20.0	ND	93.5	70-130	6.22	20	
Toluene		18.9	0.50	**	20.0	ND	94.5	70-130	6.15	20	
Ethylhenzene		19.6	0.50	11	20.0	ND	98.0	70-130	7.84	20	
Xylenes (total)		59.6	0,50	II	60.0	ND	99.3	70-130	6,49	20	
Surrogate: a,a,a-Trifluo	rotoluene	29.2		"	30.0		97.3	70-130			

Sequoia Analytical - Walnut Creek

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

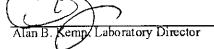
Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 30-Dec-99 14:36

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L20017:	Prepared 20-Dec-99	Using E	PA 200 Seri	es							
Blank (9L20017-Bl	LK1)										
Mercury		ND	0.00020	mg/l							
LCS (9L20017-BS1	3)										
Mercury		0.00218	0.00020	mg/l	0.00200		109	80-120			
Matrix Spike (9L20	0017-MS1)					Source: V	W912297-	01			
Mercury		0.00152	0.00020	mg/l	0.00200	ND	76.0	75-125			
Matrix Spike Dup	(9L20017-MSD1)					Source: V	V91 22 97-	01			
Mercury	·	0.00155	0,00020	mg/l	0.00200	ND	77.5	75-125	1.95	20	
Batch 9L21020:	Prepared 21-Dec-99	Using 20	00.7								
Blank (9L21020-Bl	LK1)								· · · ·		
Cadmium		ND	0.010	mg/l							
Chromium		ND	0.010	47							
Copper		ND	0.010	n							
Lead		ND	0.020	n							
Nickel		ДИ	0.010	II							
Zine		ND	0.020	II .						•	
LCS (9L21020-BS)	1)										
Beryllium		1.00	0.010	mg/l	1.00		100	80-120			
Cadmium		1.09	0.010	"	1.00		109	80-120			
Chromium		1.07	0.010	н	1.00		107	80-120			
Copper		0.998	0.010	**	1.00		99.8	80-120			
Lead		1.13	0.020	"	1.00		113	80-120			
NIC LLC		1.08	0.010	19	1.00		108	80-120			
Nickel											

Sequoia Analytical - Walnut Creek

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





6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Reported: 30-Dec-99 14:36

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Walnut Creek

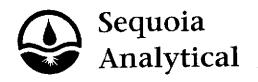
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L21020:	Prepared 21-Dec-99	Using 2	00.7								
Matrix Spike (9L2	1020-MS1)		•••			Source: V	W912275-	01			
Cadmium		1.09	0.010	mg/l	1.00	ND	109	80-120			
Chromium	•	1.06	0.010	**	1.00	0,020	104	80-120			
Copper		0.986	0.010	#	1.00	0.0058	98.0	80-120			
Lead		1.11	0.020	"	1.00	0.040	107	80-120			
Nickel		1.09	0.010	**	1.00	0.048	104	80-120			
Zine		80.1	0.020	11	1.00	0.046	103	80-120			
Matrix Spike Dup	(9L21020-MSD1)					Source: V	W912275-	01			
Cadmium		1.08	0.010	mg/l	1.00	ND	108	80-120	0.922	20	
Chromium		1.05	0.010	1)	1.00	0.020	103	80-120	0.948	20	
Соррег		0.983	0.010	**	1.00	0.0058	97.7	80-120	0.305	20	
Lead		1.10	0.020	**	1.00	0.040	106	80-120	0.905	20	
Nickel		1.09	0.010	"	1.00	0.048	104	80-120	0	20	
Zine		1.08	0.020	**	1.00	0.046	103	80-120	0	20	

Sequoia Analytical - Walnut Creek

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Han B. Kemp, Laboratory Director





404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 30-Dec-99 14:36

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Sequoia Analytical - Walnut Creek

RPD %REC Reporting Spike Source Limits RPD Limit Notes %REC Level Result Analyte Result Limit Units

Batch 9L14008: Prepared 14-Dec-99 Using General Preparation

 Duplicate (9L14008-DUP1)
 Source: W912276-01

 Ignitability by Flashpoint
 ND
 10 °C
 ND
 30
 F-01

Batch 9L16011: Prepared 13-Dec-99 Using General Preparation

 Duplicate (9L16011-DUP1)
 Source: W912276-01

 Corresivity
 7.12
 0.10 pH units
 7.1
 0.281
 30

Sequoia Analytical - Walnut Creek

Alan B. Komp, Laboratory Director

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



6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Reported:

Project Manager: Doug Lee

30-Dec-99 14:36

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control Sequoia Analytical - Petaluma

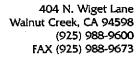
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9120367:	Prepared 15-Dec-99	Using G	eneral Prepa	ration							
Blank (9120367-BL	.K1)				 -						
Reactive Cyanide		ND	10.0	mg/l							
Reactive Sulfide		ND	50.0	"							
LCS (9120367-BS1))										
Reactive Sulfide		606	50.0	mg/l	1700		35.6	10.0-120			
LCS (9120367-BS2))										
Reactive Cyanide		398	10.0	mg/l	1000		39.8	5.00-120			

Sequoia Analytical - Walnut Creek

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

Alan B. Kemp, Laboratory Director







6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Reported:

30-Dec-99 14:36

Notes and Definitions

A-01 Continuing calibration identified a potential high bias for this analyte. Non-detect samples are not included in this bias.

F-01 No flash detected up to 95 °C

I-02 This sample was analyzed outside of the EPA recommended holding time.

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

Sequoia Analytical - Walnut Creek

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.

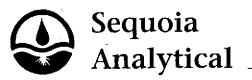
Alan B. Kemp, Laboratory Director



Nº 000539 TOSCO

□ 885 Jarvis Drive • Morgan Hill, UA 95037 • (408) 776-9600 • FAX (408) 782-6308
□ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Cettler-Kyzy	140101.03	Project Name: #6419	Tosco	
Address: 6747 Scrella Ct Suite J		TOSCO Engineer (required)	Dave DeWitt	
City: Oubline State: CA	Zip Code: 94568	W912	2275	
	× #(925)551-7888	Site #, City, State: # 1419	6401 Dublin Blue	Dublin te
Report To: Poug Lee Sampler:	Two. Colutine	QC Data:	☐ Level C ☐ Level B	Dublin tigo
Turnaround 25 10 Work Days ☐ 5 Work Days Time: ☐ 2 Work Days ☐ 1 Work Day	D 0 0 11 ' 1	nking Water	Analyses Requested	<u> </u>
CODE: Misc. Detect. Eval. Remed.	Demol. □ Closure □ Oth	ner swa con som som	a di la constitución de la const	
	of Cont. Sequoia's ont. Type Sample #	ste Water ner TRH RPA BUS HAR BOOT REPARTED TO THE PART OF THE PA	The distinct of the state of th	Comments
1. W-1 14/0/24 14:00 Hzo	4 1976 01A-D	844	14	10 Day &
2.				TAT
3.				
4.				Yellow
5.				
6.				
7.				
8.				
9.				duoia
10.				
Relinquished By: Ush talints	Date:/2/6/99 Time: /5"		Ola Date: 12 10/6	Time: \230
Relinquished By: Que week	Date: 12 13/95 Time: 17.	Received By:	Date:	Time: ≥
Relinquished By:	Date: Time:	Received By:	_lnz) Date: 17/13	Time: /7:/4
Were Samples Received in Good Condition? ☐ Yes ☐	No Samples on Ice?	☐ Yes ☐ No Method of Shipme	nt	Page of
To be completed upon receipt of report: 1) Were the analyses requested on the Chain 2) Was the report issued within the requested		es I No If no, what analyses I No If no, what was the turn	are still needed?	
Approved by:	Signature:	,		Date:



14 February, 2000

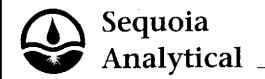
Clyde Galantine Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 03-Feb-00 15:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alan B. Kemp '
_aboratory Director



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Clyde Galantine Reported: 14-Feb-00 08:01

ANALYTICAL REPORT FOR SAMPLES

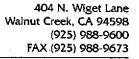
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CC-1	W002083-01	Water	03-Feb-00 08:15	03-Feb-00 15:55

Sequoia Analytical - Walnut Creek

Alan B. Kemp, Laboratory Director

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6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Clyde Galantine Reported: 14-Feb-00 08:01

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
CC-1 (W002083-01) Water S	ampled: 03-Feb-00 08:15	Received:	03-Feb-	00 15:55					P-01
Purgeable Hydrocarbons	2100	1000	ug/l	20	0B04003	04-Feb-00	04-Feb-00	EPA	
Benzene	96	10	"	"	H	**	**	8015M/8020	
Toluene	240	10	**	tt	11	17	**	**	
Ethylbenzene	ND	10	Ħ	tr	**	11	Ħ	n	
Xylenes (total)	210	10	11	ti	**	**	"	H	
Surrogate: a,a,a-Trifluorotoluen	e	85.3 %	70-	-130	,,	н	ır	" "	
CC-1 (W002083-01RE1) Water	Sampled: 03-Feb-00 0	8:15 Recei	ved: 03-	Feb-00 15:	55				P-01
Methyl tert-butyl ether	120000	1300	ug/l	500	0B04003	04-Feb-00	08-Feb-00	EPA	
Surrogate: a,a,a-Trifluorotoluen	e	99.3 %	70-	-130	н	"	п	8015M/8020	

Sequoia Analytical - Walnut Creek

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Alan B. Kemp, Daboratory Director

Project: Tosco

6747 Sierra Court Suite J Dublin CA, 94568 Project Number: Tosco # 6419 Project Manager: Clyde Galantine **Reported:** 14-Feb-00 08:01

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 0B04003: Prepared 04-Feb-	00 Using E	PA 5030B [МеОН]							· · · · · · · · · · · · · · · · · · ·
Blank (0B04003-BLK1)			· · · - · · · · · · · · · · · · · · · ·							
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	н							
Toluene	ND	0.50	**							
Ethylbenzene	ND	0.50	н							
Xylenes (total)	ND	0.50	н							
Methyl tert-butyl ether	ND	2.5	17							
Surrogate: a,a,a-Trifluorotoluene	29.6		н	30.0		98,7	70-130			
LCS (0B04003-BS1)										
Benzene	23.2	0.50	ug/i	20.0		116	70-130			
Toluene	23.6	0.50	ti	20.0		118	70-130			
Ethylbenzene	23.8	0.50	ıı	20.0		119	70-130			
Xylenes (total)	68.9	0.50	0	60.0		115	70-130			
Surrogate: a.a.a-Trifluorotolnene	29.3		11	30.0		97.7	70-130			
Matrix Spike (0B04003-MS1)					Source: V	V002098-	09			
Benzene	20.5	0.50	ug/l	20.0	ND	103	70-130			
Toluene	21.1	0.50	*	20.0	ND	106	70-130			
Ethylhenzene	21.4	0.50	н	20.0	ND	107	70-130			
Xylenes (total)	62.3	0.50	,,	60.0	ND	104	70-130			
Surrogate: a.a.a-Trifluorotoluene	28. I		"	30,0		93.7	70-130			
Matrix Spike Dup (0B04003-MSD1)					Source: V	V002098-	09			
Benzene	21.2	0.50	ug/l	20.0	ND	106	70-130	3.36	20	
Toluene	21.4	0.50	п	20.0	ND	107	70-130	1.41	20	
Ethylbenzene	21.4	0.50	n	20.0	ND	107	70-130	O	20	
Xylenes (total)	61.5	0.50	"	60.0	ND	103	70-130	1.29	20	
Surrogate: a,a,a-Trifluorotoluene	29.1		"	30.0		97.0	70-130			

Sequoia Analytical - Walnut Creek

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Alan B. Kemp, Laboratory Director



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Clyde Galantine Reported: 14-Feb-00 08:01

Notes and Definitions

P-01 Chromatogram Pattern: Gasoline C6-C12

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

ND

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Sequoia Analytical - Walnut Creek

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.

Alan B. Kemp, Laboratory Director

TOSCO

Consultant Company: Gettler-Ryau Inc 140101.03 Project Name:	Tosco #6419
10SCO Engine	eer (required) Dave De Witt
City: Dublin State: CA Zip Code: 94546	1/002083
Telephone: (925) 551-7555 FAX #: (925) 551-7888 Site #, City, Sta	
Report To: Cycle Galantine Sampler: Clycle Galantine QC Data: 1	Level D (Standard) Level C Level B Level A
Time: 2 Work Days 5 Work Days 3 Work Days Drinking Water	Analyses Requested
CODE: Misc. Detect. Eval. Remed. Demol. Closure Other	sign was the sign of the sign
CODE: Disc. Detect. Deval. Remed. Demol. Closure Other Client Sample I.D. Date/Time Sampled Desc. Cont. Type Sample # Reference Cont. Type Sample # Referen	Sept and the september of the september
1.CC-1 2300815 H20 4 VOAS OVA-1) XX	X
2.	
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4.	
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8	
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10.	
Relinquished By: Up Date: 2/3/00 Time: 8,130 Received By	V: W.M.H Date: 2-3-00 Time: 13:65
Relinquished By: Date: 2/3/2 Time:/5:55 Received By	7: Date: Time:
Relinquished By: Date: Time: Received By	110 C gession 2/3/00 Time: 15:55
Mare Samples Received in Cood Conditions COV	Method of Shipment Page of
To be completed upon receipt of report: 1) Were the analyses requested on the Chain of Custody reported? □ Yes □ No If no	o, what analyses are still needed?
Approved by	Company:



12 June, 2000

Doug Lee Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco Sequoia Report: W005773

Enclosed are the results of analyses for samples received by the laboratory on 31-May-00 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



404 N. Wiget Lane Wainut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 12-Jun-00 08:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W005773-01	Water	31-May-00 00:00	31-May-00 17:00

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

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.

Page 1 of 8





404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

12-Jun-00 08:59

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

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W005773-01) Water	Sampled: 31-May-00 12:30	Receiv	ed: 31-N	/ay-00 17:0	00				
Purgeable Hydrocarbons	ND	50	ug/l	1	0F01002	01-Jun-00	01-Jun-00	EPA 8015M/8020	
Benzene	1.7	0.50	н	tr	H	н	10	**	
Toluene	ND	0.50	11	**	u	H	"	**	
Ethylbenzene	ND	0.50	**	и.	11	H	H	*	
Xylenes (total)	ND	0.50	н	"	11	ir .	**	79	
Methyl tert-butyl ether	150000	2500	**	1000		n	05-Jun-00	"	
Surrogate: a,a,a-Trifluorotoluen	ie	97.0 %	70-	-130	"	н	01-Jun-00	"	



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

12-Jun-00 08:59

Physical Parameters by APHA/ASTM/EPA Methods Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W005773-01) Water	Sampled: 31-May-00 12:30) Receiv	ved: 31-M	ay-00 17:0	00				
Corrosivity	6.90	0.100	pH units	1	0F05006	31-May-00	31-May-00	EPA 9045B	
Ignitability by Flashpoint	ND	10	°C	"	0F01007	01-Jun-00	01- Jun- 00	EPA 1010	F-01



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 12-Jun-00 08:59

Physical Parameters by APHA/ASTM/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W005773-01) Water Sampled: 31-May-00 00:00 Received: 31-May-00 17:00									
Reactivity in Water	ND		N/A	i	0060244	09-Jun-00	10-Jun-00	EPA Chapter 7	
Reactive Cyanide	ND	10.0	mg/l	11	н	**	*	SW846 Ch, 7.3	
Reactive Sulfide	ND	50.0	II	**	н	**	n	SW846 Ch 7.3	



Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 12-Jun-00 08:59

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 0F01002 - EPA 5030B [P/T]										
Blank (0F01002-BLK1)				Prepared	& Analyz	ed: 01-Jur	1-00			
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50								
Toluene	ND	0.50	17			•				
Ethylbenzene	ND	0.50	**							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	МD	2.5	**							
Surrogate: a, a, a-Trifluorotoluene	30.9		"	30.0		103	70-130			
LCS (0F01002-BS1)				Prepared	& Analyz	ed: 01-Jur	1-00			
Benzene	16.2	0.50	ug/l	20.0		81.0	70-130			
Toluene	18.1	0.50	н	20.0		90.5	70-130			
Ethylbenzene	20.7	0.50	n	20.0		104	70-130			
Xylenes (total)	59.6	0.50	n	60.0		99.3	70-130			
Surrogate: a, a, a-Trifluorotoluene	27.3		и	30.0		91.0	70-130			
Matrix Spike (0F01002-MS1)	Se	aurce: W0055	93-04	Prepared	& Analyz	ed: 01-Jur	ı-00			
Benzene	17.6	0.50	ug/l	20.0	ND	88.0	70-130			
Toluene	19.3	0.50	11	20.0	ND	96.5	70-130			
Ethylbenzene	23.0	0.50	ш	20.0	ND	115	70-130			
Xylenes (total)	64,5	0.50	n	60.0	ND	108	70-130			
Surrogate: a, a, a-Trifluorotoluene	26.0		"	30.0		86.7	70-130			
Matrix Spike Dup (0F01002-MSD1)	Se	ource: W0055	93-04	Prepared	& Analyz	ed: 01-Jur	1- 00			
Benzene	17.5	0.50	ug/l	20.0	ND	87.5	70-130	0.570	20	
Toluene	19.6	0.50	P	20.0	ND	98.0	70-130	1.54	20	
Ethylbenzene	20,9	0.50	**	20.0	ND	104	70-130	9.57	20	
Xylenes (total)	63.1	0.50	19	60.0	ND	105	70-130	2.19	20	
Surrogate: a,a,a-Trifluorotoluene	26.3		,	30.0	 -	87.7	70-130			





Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee

Reported: 12-Jun-00 08:59

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0F01007 - General Preparation										
Duplicate (0F01007-DUP1)	Son	rce: W0057	73-01	Prepared	& Analyz	ed: 01 -J un	ı - 00			
Ignitability by Flashpoint	ND	10	°C		ND				30	F-01
Batch 0F05006 - General Preparation		-								
Duplicate (0F05006-DUP1)	Sou	ırce: W0057	50-01	Prepared	& Analyz	ed: 31 - Ma	ıy-00			
Corrosivity	7.57	0.100	pH units	<u>.</u>	7.57			0	30	

Page 6 of 8



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

12-Jun-00 08:59

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0060244 - General Preparation										
Blank (0060244-BLK1)		_		Prepared:	09-Jun-00) Analyze	d: 10-Jun-	00		
Reactive Cyanide	ND	10.0	mg/l							
Reactive Sulfide	ND	50.0	н							
Reactivity in Water	ND		N/A							
LCS (0060244-BS1)				Prepared:	: 09-Jun -0) Analyze	d: 10-Jun-	00		
Reactive Sulfide	662	50.0	mg/l	1230		53.8	5.00-120			
LCS (0060244-BS2)				Prepared:	: 09-Jun - 00) Analyze	d: 10-Jun-	00		
Reactive Cyanide	214	10.0	mg/l	500		42.8	5.00-120			



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Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Reported:

12-Jun-00 08:59

Notes and Definitions

F-01 No flash detected up to 95 °C

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

N° 000899

TOSCO

						Project N	lame:		7		#6	14	19			
Consultant Company:	Gettler-	- Kya	L 1	1401						کدی	\sim			Wit	4	
Address: 6747 Sic	rra Ct	Suite				TOSCO	Engine	eer (re	quired 1	<u>/</u>)au	<u>, </u>	LE	DI	<u></u>	
City: Dablia	State:	CA		Zip Code: C					#.	. 00	///	7	11.	<u> </u>		
Telephone:(925) 55	1-7555	F	AX #:(125)551		Site #, C			46	417		E		.,CA	51	
Report To: Doug Le		Sampler	~/`	de Ga	lantine	QC Data	a: 🗆 '	Level [) (Stand	dard)	O Lev			evel B	□ Level	<u>A</u>
Turnaround	ays 🔏 5	Work Days Work Day	_	☐ 3 Work Da	ays 🗆 Drii	nking Wat	er		/		,	rses F	Reques	sted		7
CODE: 🗅 Misc. 🗅 Det	ect. 🗅 Eval.	⊒ Remed.	□ Dem	iol. 🗆 Clos		ner 	SET S MED	- 1800g	**************************************	BUSHON	Citatics	THIRD!	(Y			
Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	AH.	en art me	EL BOO	FEAT SEED	ER BUS HOS	N WIGH	33/ 1	<u> </u>		/ Comm	nents
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Relinquished By:			Dat	e:	Time:	Re	ceived				5 Chan		Date:	5/3/Km		
Were Samples Received in	Good Condition	? 🗆 Yes	□ No	Sa	mptes on Ice	Yes	□ No	Meth	nod of	Shipme	nt				Page	_ 01
To be completed upon r 1) Were the analys	es requested (on the Ch	ain of C	ustody repo		Yes OI	No I	if no, v o, wha	hat ar	nalyses	s are s	till ne d tim	eded? e?			
2) Was the report i	ssued within th	ne reques	ted turn	around time Signature	9? 4 162	□ No	II DI		mpan						Dat	e:



5 September, 2000

W. Skip McIntosh Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco Sequoia Report W008471

Enclosed are the results of analyses for samples received by the laboratory on 21-Aug-00 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



404 N. Wiget Lane Wainut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: W. Skip McIntosh

Reported:

05-Sep-00 08:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W008471-01	Water	21-Aug-00 13:07	21-Aug-00 16:25

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

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.



Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: W. Skip McIntosh

Reported:

05-Sep-00 08:09

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

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W008471-01) Water S	ampled: 21-Aug-00 13:07	Receive	ed: 21-A	ug-00 16:2	5				
Purgeable Hydrocarbons	ND	130	ug/l	2.5	0H30003	30-Aug-00	30-Aug-00	EPA 8015M/8020	
Benzene	4.8	1.3		"	n	п	Ħ	Ħ	
Toluene	ND	1.3	**	**	ш	H	**	н	
Ethylbenzene	ND	1.3	••	\$1	п	,,	**	••	
Xylenes (total)	ND	1.3	"	**	п	*1	11	**	
Surrogate: a,a,a-Trifluorotoluene		89.7%	70-	130	н	"	"	н	
TPW-1 (W008471-01RE1) Wate	r Sampled: 21-Aug-00 1	3:07 Re	ceived: 2	21-Aug-00	16:25				
Methyl tert-butyl ether	46000	500	ug/l	200	0H30003	30-Aug-00	30-Aug-00	EPA 8015M/8020	
Surrogate: a,a,a-Trifluorotoluene		101 %	70-	-130	и	n	п	"	

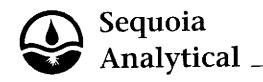


Project: Tosco

Project Number: Tosco # 6419 Project Manager: W. Skip McIntosh **Reported:** 05-Sep-00 08:09

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

		Reporting		Spike	Source	NABEC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Lunus	KLD.	THIII!	140103
Batch 0H30003 - EPA 5030B [P/T]										
Blank (0H30003-BLK1)				Prepared	& Analyz	ed: 30-Au	g-00		, -	
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	н							
Ethylbenzene	ND	0.50	•							
Xylenes (total)	ND	0.50	71							
Methyl tert-butyl ether	ND	2.5	**							
Surrogate: a,a,a-Trifluorotoluene	29.5		n	30.0		98.3	70-130			
LCS (0H30003-BS1)				Prepared	& Analyz	ed: 30-Au	ıg-00			
Benzene	19.3	0.50	ug/l	20.0		96.5	70-130			
Toluene	19.4	0.50	••	20.0		97.0	70-130			
Ethylbenzene	19.6	0,50	11	20.0		98.0	70-130			
Xylenes (total)	56.9	0.50	"	60.0		94.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	29.0		n	30.0		96.7	70-130			
Matrix Spike (0H30003-MS1)	Sc	ource: W0084	73-02	Prepared	& Analyz	ed: 30-Au	ıg-00			
Benzene	18.2	0.50	ug/l	20.0	ND	91.0	70-130			
Toluene	18.2	0.50	11	20.0	ND	91.0	70-130			
Ethylbenzene	18.4	0.50	Hr.	20.0	ND	92.0	70-130			
Xylenes (total)	52.9	0.50	#	60.0	ND	88.2	70-130			
Surrogate: a.a.a-Trifluorotoluene	29.1		"	30.0		97.0	70-130			
Matrix Spike Dup (0H30003-MSD1)	S	ource: W0084	173-02	Prepared	& Analy	zed: 30-A1	ıg-00			·
Benzene	18.4	0.50	ug/l	20.0	ND	92.0	70-130	1.09	20	
Toluene	18.5	0.50	**	20.0	ND	92.5	70-130	1.63	20	
Ethylhenzene	18.7	0.50	**	20.0	ND	93.5	70-130	1.62	20	
Xylenes (total)	53.6	0.50	11	60.0	ND	89.3	70-130	1.31	20	
Surrogate: a,a,a-Trifluorotoluene	28.1		ff	30.0		93,7	70-130			



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419

Project Manager: W. Skip McIntosh

Reported:

05-Sep-00 08:09

Notes and Definitions

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

$N_{2}^{0} = 002007$

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100 ☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673 ☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342 ☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

O Duan	100021	Project Name: 6401 DUBLIN Blvd.
Consultant Company: GETTER - RYAN		TOSCO Engineer (required) DAVE DE WITT
Address: 6747 SIERRA COORT	SUTE J	1/100101
City: Dublin State: CA	Zip Code: 9456	Site #. City. State: 6419 DUBLIN, CA
Telephone:925 551-7555 FA	<i>925 551-7889</i>	
Report & Styp Mewood Sampler	o. Slap Melvitos	QC Data: A Level D (Standard) Level C Level B Level A
Turnaround	□ 2-8 Hours	Diriking water
CODE: D Misc. D Detect. D Eval. D Remed.	Bellion Colorate	Other Street State State Street Stree
Sample I.D. Sampled Desc. C	# of Cont. Sequence Cont. Type Samp	Waste Water Other Oth
1. TPW-1. 8/21/00 H20	2 VOA OIA	
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Relinquished By:	Date: Time:	Received By: Date: 8/21/1/2 Time: /C:25
Were Samples Received in Good Condition? ☐ Yes □	No Samples on	Ice? ☐ Yes ☐ No Method of Shipment Pageof
To be completed upon receipt of report: 1) Were the analyses requested on the Chain	of Custody reported?	☐ Yes ☐ No If no, what analyses are still needed?
2) Was the report issued within the requested	t turnaround time? 💢 🗀	Yes O No If no, what was the turnaround time?



4 January, 2001

Doug Lee Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco

Sequoia Report W012318

Enclosed are the results of analyses for samples received by the laboratory on 13-Dec-00 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

ANALYTICAL REPORT FOR SAMPLES

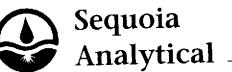
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	J
TPW-1	W012318-01	Water	12-Dec-00 00:00	13-Dec-00 13:30	

Sequoia Analytical - Walnut Creek

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.

Charlie Westwater, Project Manager





404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

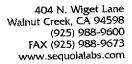
Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 04-Jan-01 10:28

Total Purgeable Hydrocarbons by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	ed: 13-Dec	-00 13:30					
Purgeable Hydrocarbons	ND	50	ug/l		0L24002	24-Dec-00	24-Dec-00		
Surrogata: a a a-Trifluorotoluen	е.	100 %	70-1	30	n	"	"	"	

Page 2 of 25





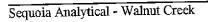
Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 04-Jan-01 10:28

Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	ed: 13-De	ec-00 13:30	1				
	ND	0.10	mg/l	1	0L21022	21-Dec-00	30-Dec-00	EPA 6010	
Antimony	ND	0.10	"	11	11	n	30-Dec-00	11	
Arsenic	0.047	0.010	п	п	и	11	30-Dec-00	17	
Barium		0.010	17	**	ii.	u	30-Dec-00	n	
Beryllium	ND		11	,,	17	**	30-Dec-00	п	
Cadmium	ND	0.010	11	ji	п	H	30-Dec-00	11	
Chromium	ND	0.010	 H	n .	**	11	30-Dec-00	11	
Cobalt	ND	0.010		,,	11	u	30-Dec-00	п	
Copper	ND	0.010	Ħ			,,	30-Dec-00	**	•
Lead	ND	0.020	17	**	11			71	
Molybdenum	ND	0.010	ĮI.	11	II	ŧſ	30-Dec-00););	
Nickel	0.012	0.010	**	n	**	"	30-Dec-00		
	ND	0.10	п	м	**		30-Dec-00	H	
Selenium	0.074	0.010	11	11	11	ũ	30-Dec-00	17	
Silver	ND	0.10	a	u	u	n	п	11	
Thallium		0.10	"	**	11	n n	30-Dec-00	u u	
Vanadium	ND		**	**	**	11	30-Dec-00	u	
Zinc	0.038	0.020							





Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Volatile Organic Compounds by EPA Method 8260B

Sequoia Analytical - Walnut Creek

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	ed: 13-De	c-00 13:30		<u> </u>			
Dichlorodifluoromethane	ND	20	ug/l	10	0L18009	19-Dec-00	19-Dec-00	EPA 8260B	
Chloromethane	ND	20	**	**	u	rt	**	**	
Vinyl chloride	ND	20	47	П	**	11	II	"	
Bromomethane	ND	50	"	.,	н	"	11		
Chloroethane	ND	20	U	ш	11	11		" . H	
Trichlorofluoromethane	ND	20	**	П	11	u	**	 H	
1,1-Dichloroethene	ND	20	**	**	11	**		н	
Methylene chloride	ND	100	"	11	11	11	n	n n	oon 1
Methyl tert-butyl ether	3000	20	D	77	н	**	41	"	OCR-1
trans-1,2-Dichloroethene	ND	20	11	u	11	II .	11		
1.1-Dichloroethane	ND	20	**	u	ш	п	"	u n	
2,2-Dichloropropane	ND	50	п	11	Ц	**	17)1 !*	
cis-1,2-Dichloroethene	ND	20	"	ri	**	и	ħ		
Bromochloromethane	ND	20	II .	11	**	" .	Ħ	II	
Chloroform	ND	20	н	II	11	II	11	11	
1,1,1-Trichloroethane	ND	20	17	u	п	IP.	tt	**	
Carbon tetrachloride	ND	20	**	***	**	**	"	IT.	
1,1-Dichloropropene	ND	20	31	***	11	"	**	1)	
Benzene	ND	20	II	**	**	n	11	11	
1,2-Dichloroethane	ND	20	17	п	II	ш	t*	•11	
Trichloroethene	ND	20	11	**	"	**	**	**	
1,2-Dichloropropane	ND	20	"	11	11	**	11	ņ	
Dibromomethane	ND	20	ш	**	**	11	II	It	
Bromodichloromethane	ND	20	IF	п	II .	II	"	**	
2,2,5,5-Tetramethyltetrahydrofu		20	**	u	п	#	'n	**	
cis-1,3-Dichloropropene	ND	20	**	"	**	н	17	11	
Toluene	ND	20	11	н	#1	11	II	II .	
trans-1,3-Dichloropropene	ND	50	п	11	17	11	п	**	
1,1,2-Trichloroethane	ND	20	**	μ	II.	11	**	11	
Tetrachloroethene	ND	20	H	н	н	*	"	"	
1,3-Dichloropropane	ND	20	"	e?	17	n n	ii .	μ	
Dibromochloromethane	ND	20	11	**	Ħ	11	II	II	
1,2-Dibromoethane	ND	20	п	0	14	U	u	"	
Chlorobenzene	ND	20		ш	u	II.	Ħ	**	
Ethylbenzene	ND	20		*	н	**	+1	n	
Ethylocitzene Total Xylenes	ND	20		17	11	ır	n	п	
1,1,1,2-Tetrachloroethane	ND	20		***	*1	***	п	Ħ	
	ND	20		н	n	11	н	u	
Styrene	1112	20							

Sequoia Analytical - Walnut Creek

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Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	d: 13-De	ec-00 13:30					
Bromoform	ND	20	ug/l	10	0L18009	19-Dec-00	19-Dec-00	EPA 8260B	
Isopropylbenzene	ND	20	**	11	11	11 H	,,	u	
1,1,2,2-Tetrachloroethane	ND	20	п	Ħ	II		,, H	91	
Bromobenzene	ND	20	r.	11	**	· n	"	11	
n-Propylbenzene	ND	20	41	"	н	11	,,	u	
1,2,3-Trichloropropane	ND	20	11	IJ	11	II.	"	11	
2-Chlorotoluene	ND	20	II .	17	II .	**	,,	n	
1,3,5-Trimethylbenzene	ND	20	**	31	**		"		
4-Chlorotomene	ND	20	11	11	**	II .	11	,,	
tert-Butylbenzene	ND	20	**	II .	II.	u .		**	
1,2,4-Trimethylbenzene	ND	20	п	**	u	17		n	
sec-Butylbenzene	ND	20	P†	II.	11	**	11		
p-Isopropyltoluene	ND	20	"	11	**	ıı .		"	
1,3-Dichlorobenzene	ND	20	n	п	μ	н	II	"	
1,4-Dichlorobenzene	ND	20	ш	e	II.	н	**	"	
n-Butylbenzene	ND	20	11	"	11	11	и		
1.2-Dichlorobenzene	ND	20	"	II	11	II	II	ţi 	
1,2-Dibromo-3-chloropropane	ND	50	u	H	II .	11	**	н	
1,2,4-Trichlorobenzene	ND	20	97	t í	**	H	IF.		
Naphthalene	ND	100	**	11	**	II .	11	Ħ	
Hexachlorobutadiene	ND	100	п	н	n	Ħ	ŧŧ	ii 	
1,2,3-Trichlorobenzene	ND	20	н	71	#	11	11	н	
		98.0%	5()-150		"	"	n	
Surrogate: Dibromofluorometho	ine 11	96.0 %		9-150	rr	"	"	n	
Surrogate: 1,2-Dichloroethane-	a 4	98.0 %		9-150	u	n	n	"	
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenze	ne	92.0 %		0-150	"	"	"	"	



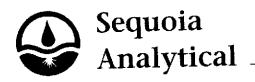
404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	ed: 13-De	c-00 13:30					
pH	7.1	0.10	pH Units	1	0L14006	13-Dec-00	13-Dec-00	EPA 150.1	



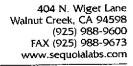
404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Physical Parameters by APHA/ASTM/EPA Methods

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	d: 13-D	ec-00 13:30				TD 4 1016	F-01
Ignitability by Flashpoint	ND	5.0	°C	1	0L30003	28-Dec-00	28-Dec-00	EPA 1010	r-01





Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Conventional Chemistry Parameters by APHA/EPA Methods

Sequoia Analytical - Petaluma

Reporting
alt Limit Units Dilution Batch Prepared Analyzed

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	ed: 13 - D	ec-00 13:30					
Cyanide (total)	ND	0.0100	mg/l	1	0120474	21-Dec-00	21-Dec-00	EPA 335.2	
Sulfide	ND	0.500	ıı	n	0120531	22-Dec-00	22-Dec-00	EPA 376.1	HT-01





Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Physical Parameters by APHA/ASTM/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 00:00	Receive	ed: 13-D	ec-00 13:30			<u></u>		
Reactivity in Water	ND	1.00	N/A	1	0120363	18-Dec-00		EPA Chapter 7	
Reactive Cyanide	ND	10.0	mg/l	н	II.	11	19-Dec-00	SW846 Ch. 7.3	
Reactive Sulfide	ND	50.0	,,	**	′ II	II	11	SW846 Ch 7.3	





Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W012318-01) Water	Sampled: 12-Dec-00 0	0:00 Receive	d: 13-D	ec-00 13:30					
Mercury	ND	0.000200	mg/l	1	1010005	02-Jan-01	02-Jan-01	EPA 7470A	



Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

04-Jan-01 10:28

Total Purgeable Hydrocarbons 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 0L24002 - EPA 5030B [P/T]										
Blank (0L24002-BLK1)				Prepared	& Analyz	ed: 24 - De	c-00			
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	н							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	**							
Surrogate: a, a, a-Trifluorotoluene	35.1		"	30.0		117	70-130			
LCS (0L24002-BS1)				Prepared	& Analyz	ed: 24-De	c-00			
Benzene	17.6	0.50	ug/I	20.0		88.0	70-130			
Toluene	17.6	0.50	II	20.0		88.0	70-130			
Ethylbenzene	17.4	0.50	11	20.0		87.0	70-130			
Xylenes (total)	51.7	0.50	"	60.0		86.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	29.1		#	30.0		97.0	70-130			
Matrix Spike (0L24002-MS1)	So	ource: W0123	314-04	Prepared	& Analyz	ed: 24-De	c-00			
Benzene	17.2	0.50	ug/l	20.0	ND	86.0	70-130			
Toluene	17.3	0.50	11	20.0	ND	86.5	70-130			
Ethylbenzene	17.1	0,50	п	20.0	ND	85.5	70-130			
Xylenes (total)	51.1	0.50	Ħ	60.0	ND	85.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	29.1		"	30.0		97.0	70-130			
Matrix Spike Dup (0L24002-MSD1)	S	ource: W0123	314-04	Prepared	& Analyz	ed: 24-De	ec-00			
Benzene	18.3	0.50	ug/l	20.0	ND	91.5	70-130	6.20	20	
Toluene	18.4	0.50	"	20.0	ND	92.0	70-130	6.16	20	
Ethylbenzene	18.2	0.50	u	20.0	ND	91.0	70-130	6.23	20	
Xylenes (total)	54.1	0.50	**	60.0	ND	90.2	70-130	5.70	20	
Surrogate: a,a,a-Trifluorotoluene	30.3			30.0		101	70-130			



Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L21022 - 200.7		-								
Blank (0L21022-BLK1)				Prepared:	21-Dec-0	0 Analyze	d: 30-Dec	-00		
Antimony	ND	0.10	mg/l			· · · · ·		_		
Arsenic	ND	0.10	**							
Barium	ND	0.010	11							
Beryllium	ND	0.010	II							
Cadmium	ND	0.010	и							
Chromium	ND	0.010	11							
Cobalt	ND	0.010	"							
Copper	ND	0.010	n							
Lead	ND	0.020	"							
Molybdenum	ND	0.010	**							
Nickel	ND	0.010	п							
Selenium	ND	0.10	п							
Silver	ND	0.010	"							
Vanadium	ND	0.20	#1							
Zine	ND	0.020	"							
LCS (0L21022-BS1)				Prepared	: 21-Dec-0	00 Analyz	ed: 30-Dec	:-00		
	1.04	0.010	mg/l	1.00		104	80-120			<u> </u>
Cadmium Chromium	1.08	0.010	H	1.00		108	80-120			
	1.20	0.010	**	1.00		120	80-120			
Copper Lead	0.978	0.020	н	1.00		97.8	80-120			
Nickel	1.07	0.010	••	1.00		107	80-120			
Zinc	1.02	0,020	п	1.00		102	80-120			
LCS Dup (0L21022-BSD1)				Prepared	: 21-Dec-0	00 Analyz	ed: 30 -D ec	:-00		
Cadmium	1.07	0.010	mg/l	1.00		107	80-120	2.84	20	
Caomium Chromium	1.14	0.010	n n	1.00		114	80-120	5.41	20	
	1.20	0.010	71	1.00		120	80-120	0	20	
Copper Lead	1.01	0.020	**	1.00		101	80-120	3.22	20	
Nickel	1.01	0.010	11	1.00		109	80-120	1.85	20	
Mickel	1.04	0.020		1.00		104	80-120	1.94	20	



Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L21022 - 200.7		<u></u>				<u> </u>				
Matrix Spike (0L21022-MS1)	So	urce: W0123	13-01	Prepared:	21-Dec-0	0 Analyze	d: 30-Dec	-00		
Cadmium	0.968	0.010	mg/l	1.00	ND	96.8	80-120			
Chromium	1.03	0.010	II	1.00	ND	103	80-120			
Copper	1.13	0.010	п	1.00	0.014	112	80-120			
Lead	0.929	0.020	**	1.00	ND	92.9	80-120			
Nickel	0.989	0.010	*	1.00	0.012	97.7	80-120			
Zine	0.981	0.020	11	1.00	0.033	94.8	80-120			
Matrix Spike Dup (0L21022-MSD1)	So	urce: W0123	13-01	Prepared	21-Dec-0	00 Analyzo	ed: 30-Dec	-00		
Cadmium	0.999	0.010	mg/l	1.00	ND	99.9	80-120	3.15	20	
Chromium	1.02	0.010	"	1.00	ND	102	80-120	0.976	20	
Copper	1.10	0.010	97	1.00	0.014	109	80-120	2.69	20	
Lead	0.927	0.020	"	1.00	ND	92.7	80-120	0.216	20	
	1.00	0.010	U	1.00	0.012	98.8	80-120	1.11	20	
Nickel Zinc	1,07	0.020	ц	1.00	0.033	104	80-120	8.68	20	



Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee

Reported:

04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L18009 - EPA 5030B [P/T]							<u></u>			
Blank (0L18009-BLK1)				Prepared:	: 13-Dec-0	0 Analyze	ed: 13-Dec	-01		
Dichlorodifluoromethane	ND	2.0	ug/l							
Chloromethane	ND	2.0	**							
Vinyl chloride	ND	2.0	Ħ							
Bromomethane	ND	5.0	**							
Chloroethane	ND	2.0	II							
Trichlorofluoromethane	ND	2.0	п							
1,1-Dichloroethene	ND	2.0	п							
Methylene chloride	ND	10	"							
Methyl tert-butyl ether	ND	2.0	'n							
trans-1,2-Dichloroethene	ND	2.0	**							
1,1-Dichloroethane	ND	2.0	IJ							
2.2-Dichloropropane	ND	5.0	u							
cis-1,2-Dichloroethene	ND	2.0	97						•	
Bromochloromethane	ND	2.0	41							
Chloroform	ND	2.0	**							
1,1,1-Trichloroethane	ND	2.0	11							
Carbon tetrachloride	ND	2.0	"							
1,1-Dichloropropene	ND	2,0	**							
Benzene	ND	2.0	**							
1,2-Dichloroethane	ND	2.0	11							
Trichloroethene	ND	2.0								
1,2-Dichloropropane	ND	2.0				•				
Dibromomethane	ND	2.0	u							
Bromodichloromethane	ND	2.0	11							
2,2,5,5-Tetramethyltetrahydrofuran	ND	2.0	D							
cis-1,3-Dichloropropene	ND	2.0	п							
Toluene	ND	2.0	tt							
trans-1,3-Dichloropropene	ND	5.0	**							
1,1,2-Trichloroethane	ND	2.0	**							
Tetrachloroethene	ND	2.0	11							
1,3-Dichloropropane	ND	2.0	n							
Dibromochloromethane	ND	2.0	п							
1,2-Dibromoethane	ND	2.0	**							
Chlorobenzene	ND	2.0	11							

Sequoia Analytical - Walnut Creek

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Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L18009 - EPA 5030B [P/T]										
Blank (0L18009-BLK1)		<u> </u>		Prepared:	13-Dec-0	0 Analyze	d: 13-Dec	-01		
Ethylbenzene	ND	2.0	ug/l							
Total Xylenes	ND	2.0	11							
1,1,1,2-Tetrachloroethane	ND	2.0	н							
Styrene	ND	2.0	*1							
Bromoform	ND	2.0	11							
isopropylbenzene	ND	2.0	"							
1,1,2,2-Tetrachloroethane	ND	2.0	н							
Bromobenzene	ND	2.0	**							
n-Propylbenzene	ND	2.0	+1							
1,2,3-Trichloropropane	ND	2.0	п							
2-Chlorotoluene	ND	2.0	**							
1,3,5-Trimethylbenzene	ND	2.0	**							
4-Chlorotoluene	ND	2.0	11							
tert-Butylbenzene	ND	2.0	II .							
1,2,4-Trimethylbenzene	ND	2.0	77							
sec-Butylbenzene	ND	2.0	"							
p-Isopropyltoluene	ND	2.0	II .							
1,3-Dichlorobenzene	ND	2.0	**							
1,4-Dichlorobenzene	ND	2.0	¥							
n-Butylbenzene	ND	2.0	H							
1,2-Dichlorobenzene	ND	2.0	u							
1,2-Dibromo-3-chloropropane	ND	5.0	11							
1,2,4-Trichlorobenzene	ND	2.0	"							
Naphthalene	ND	10	u							•
Hexachlorobutadiene	ND	10	11							
1,2,3-Trichlorobenzene	ND	2.0	**							
Surrogate: Dibromofluoromethane	46.0		"	50.0		92.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.0		"	50.0		94.0	50-150			
Surrogate: Toluene-d8	50.0		"	50.0		100	50-150			
Surrogate: 4-Bromofluorobenzene	48.0		11	50.0		96.0	50-150			,



Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee

Reported: 04-Jan-01 10:28

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

Analyte Batch 0L18009 - EPA 5030B [P/T] Blank (0L18009-BLK3) Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND								
Blank (0L18009-BLK3) Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND							 	
Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND		· · · · ·	Prepared	& Analyz	ed: 19-De	c-00	 	
Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane		2.0	ug/l						
Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	n						
Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	u						
Frichlorofluoromethane 1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether rans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloroethane eis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	5.0	"						
1,1-Dichloroethene Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	**					-	
Methylene chloride Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	II .						
Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	II .						
Methyl tert-butyl ether trans-1,2-Dichloroethene 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	10	"						
1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	17						
2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	11						
2,2-Dichloropropane cis-1,2-Dichloroethene Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	н						
Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	5.0	#						
Bromochloromethane Chloroform 1,1,1-Trichloroethane	ND	2.0	"						
1,1,1-Trichloroethane	ND	2.0	II.						
	ND	2.0	**						
	ND	2.0	11						
Carbon tetrachloride	ND	2.0	11						
1,1-Dichloropropene	ND	2.0	a						
Велгеле	ND	2.0	19						
1,2-Dichloroethane	ND	2.0	**						
Trichloroethene	ND	2.0	н						
1,2-Dichloropropane	ND	2.0	"						
Dibromomethane	ND	2.0	71						
Bromodichioromethane	ND	2.0	n						
2,2,5,5-Tetramethyltetrahydrofuran	ND	2.0	11						
cis-1,3-Dichloropropene	ND	2.0	Ħ						
Toluene	ND	2.0	17						
trans-1,3-Dichloropropene	ND	5.0	11						
1,1,2-Trichloroethane	ND	2.0							
Tetrachloroethene	ND	2.0							
1,3-Dichloropropane	ND	2.0							
Dibromochloromethane	ND	2.0				•			
1,2-Dibromoethane	ND	2.0	11						

Sequoia Analytical - Walnut Creek

Chlorobenzene

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.



2.0

ND



Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Reported: 04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L18009 - EPA 5030B [P/T]										
Blank (0L18009-BLK3)				Prepared	& Analyz	ed: 19-De	c-00			
Ethylbenzene	ND	2.0	ug/l							
Total Xylenes	ND	2.0	И							
1,1,1,2-Tetrachloroethane	ND	2.0	41							
Styrene	ND	2.0	11							
Bromoform	ND	2.0	HF							
sopropylbenzene	ND	2.0	*							
1,1,2,2-Tetrachloroethane	ND	2.0	п							
Bromobenzene	ND	2.0	"							
1-Propylbenzene	ND	2.0	**							
,2,3-Trichloropropane	ND	2.0	"							
2-Chlorotoluene	ND	2.0	**							
1,3,5-Trimethylbenzene	ND	2.0	**							
4-Chlorotoluene	ND	2.0	и							
tert-Butylbenzene	ND	2.0	**							
1,2,4-Trimethylbenzene	ND	- 2.0	**							
sec-Butylbenzene	ND	2.0	"							
p-Isopropyltoluene	ND	2.0	"							
1,3-Dichlorobenzene	ND	2.0	11							
1,4-Dichlorobenzene	ND	2.0	н							
n-Butylbenzene	ND	2.0						-		
1,2-Dichlorobenzene	ND	2.0	н							
1,2-Dibromo-3-chloropropane	ND	5.0	н							
1,2,4-Trichlorobenzene	ND	2.0	**							
Naphthalene	ND	10	II							
Hexachlorobutadiene	ND	10	**							
1,2,3-Trichlorobenzene	ND	2.0	11							
Surrogate: Dibromofluoromethane	47.0		"	50.0		94.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	47.0		"	50.0		94.0	50-150			
Surrogate: Toluene-d8	51.0		11	50.0		102	50-150			
Surrogate: 4-Bromofluorobenzene	47.0		"	50.0		94.0	50-150	,		



Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee

Reported: 04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 0L18009 - EPA 5030B [P/T]									<u>. </u>			
LCS (0L18009-BS1)				Prepared:	pared: 13-Dec-00 Analyzed: 13-Dec-01							
1,1-Dichloroethene	64.0	2.0	ug/l	70.0	_	91.4	65-135					
Methyl tert-butyl ether	50.8	2.0	**	50.0		102	65-135					
Benzene	62.0	2.0	"	50.0		124	70-130					
Trichloroethene	60.6	2.0	II	50.0		121	70-130					
Toluene	61.2	2.0	"	50.0		122	70-130					
Chlorobenzene	63.0	2.0	11	50.0		126	70-130					
Surrogate: Dibromofluoromethane	47.0		"	50.0		94.0	50-150					
Surrogate: Divromojitoromemune Surrogate: 1,2-Dichloroethane-d4	47.0		n	50.0		94.0	50-150					
Surrogate: 1,2-Dictior oction—44 Surrogate: Toluene-d8	51.0		n	50.0		102	50-150					
Surrogate: 4-Bromofluorobenzene	48.0		"	50.0		96.0	50-150					
LCS (0L18009-BS3)		Prepared & Analyzed: 19-Dec-00										
1.1-Dichloroethene	59.0	2.0	ug/l	70.0		84.3	65-135					
Methyl tert-butyl ether	47.0	2.0	U	50.0		94.0	65-135					
Benzene	59.0	2.0	11	50.0		118	70-130					
Trichloroethene	59.0	2.0	н	50.0		118	70-130					
Toluene	58.0	2.0	11	50.0		116	70-130					
Chlorobenzene	58.0	2.0	u	50.0		116	70-130					
	48.0		- "	50.0		96.0	50-150					
Surrogate: Dibromofluoromethane	46.0		,,	50.0		92.0	50-150					
Surrogate: 1,2-Dichloroethane-d4	49.0		n	50.0		98.0	50-150					
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	49.0		rt	50.0		98.0	50-150					
Matrix Spike (0L18009-MS1)		ource: W012	299-06	Prepared	l & Analy	zed: 18 - D	ec-00					
1.1-Dichloroethene	57.0	2.0	ug/l	70.0	ND	81.4	60-140			<u> </u>		
Methyl tert-butyl ether	46,0	2.0	n	50.0	ND	92.0	60-140					
-	58.0	2.0	п	50.0	ND	116	60-140					
Benzene	57.0	2.0	77	50.0	ND	114	60-140					
Trichloroethene	60.0	2.0	17	50.0	ND	120	60-140					
Toluene	56.0	2.0	**	50.0	ND	112	60-140					
Chiorobenzene		2.0					50-150	<u> </u>				
Surrogate: Dibromofluoromethane	48.0		" "	50.0		96.0 98.0	50-150 50-150					
Surrogate: 1,2-Dichloroethane-d4	49.0		,ti m	50.0		98.0	50-150 50-150					
Surrogate: Toluene-d8	48.0		"	50.0		94.0	50-150					
Surrogate: 4-Bromofluorobenzene	47.0		11	50.0		94.0	20-120					

Sequoia Analytical - Walnut Creek

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.







Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L18009 - EPA 5030B [P/T]										
Matrix Spike Dup (0L18009-MSD1)	So	urce: W0122	99-06	Prepared	& Analyz	ed: 18-De				
	59.0	2.0	ug/l	70.0	ND	84.3	60-140	3.45	25	
1,1-Dichloroethene	45.0	2.0	11	50.0	ND	90.0	60-140	2.20	25	
Methyl tert-butyl ether		2.0	11	50.0	ND	116	60-140	0	25	
Benzene	58,0		п	50.0	ND	116	60-140	1.74	25	
Trichloroethene	58.0	2.0					60-140	0	25	
Toluene	60.0	2.0	**	50.0	ND	120				
Chlorobenzene	58.0	2.0	**	50.0	ND	116	60-140	3.51	25	
	49.0		"	50.0		98.0	50-150			
Surrogate: Dibromofluoromethane	48.0		"	50.0		96.0	50-150			
Surrogate: 1,2-Dichloroethane-d4			"	50,0		96.0	50-150			
Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene	48.0 46.0		"	50.0		92.0	50-150			



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin

6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Reported:

Project Manager: Doug Lee

Reporting

04-Jan-01 10:28

RPD

%REC

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	_
Batch 0L14006 - General Preparation											_
Duplicate (0L14006-DUP1)	So	urce: W0122	99-05	Prepared	& Analyz	ed: 13-De	c-00				_
рН	7.9	0,10	pH Units		8.1			2.5	30		

Spike

Source



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

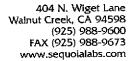
Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

04-Jan-01 10:28

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L30003 - General Preparation										

Daten of the open of the same								
Duplicate (0L30003-DUP1)	Sourc	e: W01238	86-01	Prepared & Ar	nalyzed: 28-De	ec-00		
Ignitability by Flashpoint	ND	5.0	°C	N	ID		30	F-01
Reference (0L30003-SRM1)				Prepared & Ar	nalyzed: 28-De	ec-00		
Ignitability by Flashpoint	30	5.0	°C	28	110	90-110		





Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

04-Jan-01 10:28

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 0120474 - General Preparation		<u>-</u>							. <u></u>		
Blank (0120474-BLK1)				Prepared	& Analyz	ed: 21-De	c-00				
Cyanide (total)	ND	0.0100	mg/l								
LCS (0120474-BS1)				Prepared	& Analyz	ed: 21-De	c-00				
Cyanide (total)	0.181	0,0100	mg/l	0.200		90.5	80-120				
Matrix Spike (0120474-MS1)	Se	urce: P01232	29-03	Prepared & Analyzed: 21-Dec-00							
Cyanide (total)	0.187	0.0100	mg/l	0.200	ND	93.5	75-125				
Matrix Spike Dup (0120474-MSD1)	Se	ource: P01232	Prepared	& Analyz	ed: 21-De	:c-00					
Cyanide (total)	0.187	0.0100	mg/l	0.200	ND	93.5	75-125	0	20		
Batch 0120531 - General Preparation											
Blank (0120531-BLK1)		· · · · · · · · · · · · · · · · · · ·		Prepared	& Analyz	ed: 22-De	:c-00				
Sulfide	ND	0.500	mg/l								
LCS (0120531-BS1)				Prepared	& Analyz	zed: 22-De	ec-00				
Sulfide	6.75	0.500	mg/l	6.76		99.9	80-120				
LCS Dup (0120531-BSD1)				Prepared & Analyzed: 22-Dec-00							
Sulfide	6.75	0.500	mg/1	6.76		99.9	80-120	0	20		





Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

04-Jan-01 10:28

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0120363 - General Preparation										
Blank (0120363-BLK1)				Prepared:	18-Dec-0	0 Analyze	ed: 19-Dec	-00	_ 	
Reactive Cyanide	ND	10.0	mg/l		<u> </u>					
Reactive Sulfide	ND	50.0	II							
Reactivity in Water	ND	1.00	N/A							
LCS (0120363-BS1)				Prepared:	: 18-Dec-0	0 Analyze	ed: 19-Dec	-00		
Reactive Cyanide	62.4	10.0	mg/l	500		12.5	5-120			
LCS (0120363-BS2)				Prepared:	: 18-Dec-0	0 Analyz	ed: 19 -D ec	-00		
Reactive Sulfide	116	50.0	mg/l	2300		5.04	5-120			





Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 04-Jan-01 10:28

Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1010005 - EPA 7470A										<u></u>
Blank (1010005-BLK1)				Prepared	& Analyz	ed: 02 - Jar	ı-01			
Mercury	ND	0.000200	mg/l							
LCS (1010005-BS1)				Prepared	& Analyz	ed: 02-Jar	1- 01		<u></u>	
Mercury	0.00454	0.000200	mg/l	0.00500		90.8	80-120			
Matrix Spike (1010005-MS1)	So	urce: W0123	318-01	Prepared	& Analyz	ed: 02-Jar	ı-01			
Mercury	0.00453	0.000200	mg/l	0.00500	ND	90.6	75-125			
Matrix Spike Dup (1010005-MSD1)	So	urce: W0123	318-01	Prepared	& Analyz	ed: 02-Jar	n-01			
Mercury	0.00416	0.000200	mg/l	0.00500	ND	83.2	75-125	8.52	20	

Nº 002753

TOSCO

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1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

														-					
Consultant Company:	nsultant Company: Gettler Ryan The.									Project Name: 6401 Dublin DLVD 140101.93									
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City: 1 . Ll		CA		Zip Code:	79568														
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Nº 002753

TOSCO

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Consultant Company: Geffer Ry	an Inc.		Project Name:	6401	Dobl	in	13LV	'D	140101.03	<u>}</u>	
Address: 6747 Sicrra Ct		•	TOSCO Engine		David	1 12	c W	#	•		
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Client Date/Time Sample I.D. Sampled	Matrix # of Cont. Desc. Cont. Type	Sequoia's Sample #	her Republic	A BEEN LEW SEED STORY	A Jobile Mil	S Confliction of		A No	Comments		
1. TPW-1 12/12/00	HzO 5 VOAS	01A-1	X		X				BTEX for 826	_ I	
2.	1 1-L+ am	1				×				Segretarion	
3.	1 500 ML PL W/HN03						×				
4.	500ML PL W/NOOH							×		Well a	
5. 🗸	500 ML PL W/ZnCzH3			X						>	
6.										_	
7.										_	
8.						 				_	
9. 1								1	Do Not Inclus	Securoía	
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Relinquished By: Mark Coll-		Time: /330					ate:/2//	3/10	Time:/330	White	
Relinquished By:	Date:	Time:	Received By				ate:	70 —	Time:		
Were Samples Received in Good Condition?	□Yes □No San	mples on Ice?	☐ Yes ☐ No	Method of Sh	nipment				Page of		
To be completed upon receipt of report: 1) Were the analyses requested on 2) Was the report issued within the	the Chain of Custody repo		res □ No If no, v	io, what ana what was the	e turnaroun			wor	ling days	-	

NIO 002753

TOSCO

□ 885 Jarvis Drive • Morgan Hill, CA 9503 / • (408) / /6-9600 • FAX (408) /82-6308
 □ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
 □ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
 □ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
 □ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler By		Project Na	ame: 60	101	100	1.	ν ⁵	171	VD	14	2101.03				
Address: 6747 Serra Ct	50-	1- 3			TOSCO E										
City: State:											,				
Telephone		FAX #:	925 53	7250	Site #, City, State: 6419 Luklin CA										Client
Report To:	Sampler	: /4	-16		QC Data: ☑ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A									Շ	
Turnaround 🖾 10 Work Days 🚨 5	Work Day Work Day	s	□ 3 Work D □ 2-8 Hour	ays 🗀 Dri	nking Water aste Water				Analy	rses R	eques	sted	Com		Pink - (
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Client Date/Time Sample I.D. Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	AH E	anti-mod casi	St. Er str.	Jold Jold	Se se la	ignetti.		P. / //	Com	ments	
1. TFW-1 12/12/or	$\mu_{z\phi}$	(VOAS		X		4.	X					F 4111 1 1 1 1	Fa 8260	l
2.	1	1	1 ttoni							<u> </u>			_		Sequoia
3.		}	SOOML FL								×				١.
4.		}	JUGOH 500 MER									X			Yellow
5.	1		W/znCzHz	2			X								>
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Were Samples Received in Good Condition	ı? □Yes	□ No	Sai	nples on Ice?	□ Yes □	No Met	hod of S	Shipmer	nt				Page _	of	_
To be completed upon receipt of report 1) Were the analyses requested of the complete the analyses requested to the complete the comple	on the Cha	ain of Cu	ustody repo	orted?	∕es □ No □ No										
Was the report issued within the Approved by:						_	mpany							e:	



2 April, 2001

Doug Lee Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco

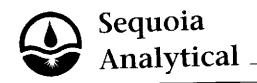
Sequoia Report: W103371

Enclosed are the results of analyses for samples received by the laboratory on 16-Mar-01 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



404 N. Wiget Lane Wainut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.seguoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

02-Apr-01 17:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	J
TPW-1	W103371-01	Water	16-Mar-01 11:30	16-Mar-01 17:15	

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

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.



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee

Reported: 02-Apr-01 17:55

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

Analyte	Result	Leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W103371-01) Water	Sampled: 16-Mar-01 11:3	0 Receiv	ed: 16-M:	ar-01 17:1	15				·
Purgeable Hydrocarbons	ND	50	ug/l	1	1C29001	29-Mar-01	29-Mar-01	EPA 8015M/8020	
Benzene	ND	0.50	**	п	п	"	11	и	
Toluene	ND	0.50	**	н	ц	II	II	II.	
Ethylbenzene	ND	0.50	11	11	11	"	11	II	•
Xylenes (total)	ND	0.50	n	**	*1	17	**	Ħ	
Methyl tert-butyl ether	260	2.5	u	n	11	. tr	11		CC-3,CF-01
Surrogate: a,a,a-Trifluorotolue	ne	101 %	70	130	" "	"	"	"	



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

02-Apr-01 17:55

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 1C29001 - EPA 5030B P/T										
Blank (1C29001-BLK1)				Prepared	& Analyz	ed: 29- M a	r-01			
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	π							
Toluene	ND	0.50	п							
Ethylbenzene	ND	0.50	п							
Xylenes (total)	ND	0.50	**							
Methyl tert-butyl ether	ND	2.5	11							
Surrogate: a,a,a-Trifluorotoluene	30.3		n	30.0		101	70-130	•		
LCS (1C29001-BS1)				Prepared	& Analyz	ed: 29-Ma	ar-01			
Benzene	18.0	0.50	ug/l	20.0		90.0	70-130			•
Toluene	18.8	0.50	**	20.0		94.0	70-130			
Ethylbenzene	19.5	0,50	11	20.0		97.5	70-130			
Xylenes (total)	58.9	0.50	u	60.0		98.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	28.7		"	30.0		95.7	70-130			
LCS Dup (1C29001-BSD1)				Prepared	l & Analyz	zed: 29-Ma	ar-01			
	19.2	0.50	ug/l	20.0	<u>`</u>	96.0	70-130	6.45	20	
Benzene	19.2	0.50	-5-	20.0		99.5	70-130	5.68	20	
Toluene	20.0	0.50	11	20.0		100	70-130	2.53	20	
Ethylbenzene		0.50	11	60.0		102	70-130	3.34	20	
Xylenes (total)	60.9	0.30								
Surrogate: a, a, a-Trifluorotoluene	30.8		н	30.0		103	70-130			



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee 02-2

Reported: 02-Apr-01 17:55

Notes and Definitions

CC-3 Continuing Calibration indicates that the quantitative result for this analyte includes a greater than 15% degree of uncertainty. The value as reported is within method acceptance.

Results between the primary and confirmation column varied by greater than 40% RPD.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

CF-01

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

$N_{\odot} = 002858$

819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (910) 921-3000 FAX (925) 988-9673 (404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-034 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612	2
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1551 Industrial Road • Sair Screen, see	

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City: Dublin	State:	CA	_			Site #	, City	y, Staf	te: 6	415	, 4)6/	in c			Leve		Client
Telephone: (425) 5-5	-1- 7555			125) 551	1288					(Stand	ard)	□ Lev	el C			T Feve		를 후
		Sampler:				rinking V			e,		1	Analy	ses Re	equest	ed]		7	Œ
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Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia Sample	١.,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	EPR MISS	\\\ \(\lambda_{\beta} \)	\\ \JOIG	Mil						- :: .: .: .: .: .: .: .: .: .: .: .: .:
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Relinquished By	4/1//		D	ate:3/14/01	Time:/	713				yun	<u> </u>	7.000		Date	•	Tim		
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Were Samples Receiv							_						a dill o	eeded	?			
To be completed u 1) Were the a	pon receipt of re nalyses requeste port issued withi	ed on the (n the red)	Chain of	l Custody re Irnaround tir	ported? ne? □	☐ Yes Yes 〔) No	l If	no, wl	hat wa	s the t	urnaru	juitu iii	me? _ 			Date:	
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TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (910) 921-0000 + Av. (010, 0. 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673 ☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342 ☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

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ddress: 6747 Sicra ct	Suite	_ J	ip Code: 9												\dashv
ity: Dublin State:			<u>`</u>		Site #,	 City, Sta	 ate:	4/5	7. [0.6/		A			\dashv
elephone: (425) 551- 7555		<u>×</u> _	125) 551-	7888	QC Da				-	☐ Le\	/el C	o L	evel B	□ Level A	
Report To: Dova Lee	Sampler:				inking Wa					Analy	ses P	leques	ted		
iurnaround Ø 10 Work Days ☐ 5	Work Days Work Day		⊒ 3 Work Day ⊒ 2-8 Hours	aw			Care.		The Parish of th	Allaly Miles	SW-SOSO)	Republic		//	
CODE: Misc. Detect. Eval.	X Remed.	□ Dem	ol. Closu	re SAO		- 8015 MO	CAN HOLD	HAN BOUT	St. 8012 pt.	* Clight	Confiltro	//		Comments	
Client Date/Time Sample 1.D. Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia' Sample	s # /<	HER BUT	Ler Bee	EN SEE	Moto	N. M.B.			$\overline{}$		
1. TPW-1 3/16/01	H20	3	VOAS	OIA-C		1	1						\		
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January 19, 2001

Mr. David De Witt Tosco Marketing Company 2000 Crow Canyon Place, Suite 400 San Ramon, CA 54583

Subject:

R-149 approval for Tosco Site numbers; 6419, 11192, 11193, 11194

and 11195.

Mr. De Witt:

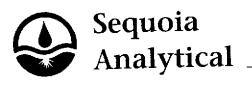
Here are the lab results for the Tosco sites listed above, for your use in obtaining R-149 forms for the year 2001. If you have any questions, please call me at (925) 551-7444 ext. 127.

Sincerely,

Gettler-Ryan Inc.

Andrew Smith Staff Geologist

Attachments: Copies of lab reports from subject sites.



MAY 3 0 2001

885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

GETTLER-RYAN INC. GENERAL CONTACTORS

24 May, 2001

Doug Lee Gettler Ryan/Geostrategies - Tosco/Unocal 6747 Sierra Ct, Suite J Dublin, CA 94568

RE: Tosco/Unocal

Sequoia Report: MKE0459

Enclosed are the results of analyses for samples received by the laboratory on 05/17/01 18:11. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley Project Manager

CA ELAP Certificate #1210



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

Gettler Ryan/Geostrategies - Tosco/Unocal

6747 Sierra Ct, Suite J Dublin CA, 94568 Project: Tosco/Unocal

Project Number: 6401 Dublin San Ramon

Project Manager: Doug Lee

Reported: 05/24/01 17:46

ANALYTICAL REPORT FOR SAMPLES

	Laboratory ID	Matrix	Date Sampled	Date Received
Sample ID TPW-1	MKE0459-01	Water	05/16/01 18:40	05/17/01 18:11

Sequoia Analytical - Morgan Hill

James Hartley, Project Manager

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.





Gettler Ryan/Geostrategies - Tosco/Unocal

6747 Sierra Ct, Suite J Dublin CA, 94568 Project: Tosco/Unocal

Project Number: 6401 Dublin San Ramon

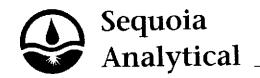
Project Manager: Doug Lee

Reported: 05/24/01 17:46

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

Sequoia Analytical - Morgan Hill

	<u>*</u>								1
Analyte	Result	teporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (MKE0459-01) Water	Sampled: 05/16/01 18:40	Received	: 05/17/01	18:11					
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1E21004	05/21/01	05/21/01	DHS LUFT	
-	ND	0.500	H	11	11	11	11	II	
Benzene	·	0.500	17	97	п	II.	. н	11	
Toluene	2.27	*	71		в	н	11	**	
Ethylbenzene	2.03	0.500	"	.,		_		II	
Xylenes (total)	0.665	0.500	н	Ħ	" .	.,			14.02
Methyl tert-butyl ether	1950	100	n	40			05/22/01		M-03
Surrogate: a,a,a-Trifluorotoluen	e	122 %	70-1	130	"	n	05/21/01	n	



Gettler Ryan/Geostrategies - Tosco/Unocal

6747 Sierra Ct, Suite J

Dublin CA, 94568

Project: Tosco/Unocal

Project Number: 6401 Dublin San Ramon

Project Manager: Doug Lee

Reported: 05/24/01 17:46

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

	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Resuit	Limit	Omis	150701	Resure					
Batch 1E21004 - EPA 5030B [P/T]										
Blank (1E21004-BLK1)			», 	Prepared	& Analyze	d: 05/21/	01			
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	Ħ							
Toluene	ND	0.500	H							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	*1							
Methyl tert-butyl ether	ND	2.50	11							
Surrogate: a,a,a-Trifluorotoluene	9.18		17	10.0		91.8	70-130			
LCS (1E21004-BS1)				Prepared	& Analyz	ed: 05/21/				
Benzene	7.99	0.500	ug/l	10.0		79.9	70-130			
Toluene	9.17	0.500	n	10.0		91.7	70-130			
Ethylbenzene	9.27	0.500	"	10.0		92.7	70-130			
Xylenes (total)	27.2	0.500	10	30.0		90.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	9.44		"	10.0		94.4	70-130			
Matrix Spike (1E21004-MS1)	Se	ource: MKE0	471-02	Prepared	& Analyz	ed: 05/21/	01			
Benzene	4.71	0.500	ug/l	10.0	ND	43.2	60-140			Q-02
Toluene	9.32	0.500		10,0	0.501	88.2	60-140			
Ethylbenzene	8.81	0.500	17	10.0	ND	88.1	60-140			
Xylenes (total)	26.5	0.500	**	30.0	ND	88.3	60-140	···		
Surrogate: a,a,a-Trifluorotoluene	10.2		"	10.0		102	70-130			
Matrix Spike Dup (1E21004-MSD1)	S	ource: MKE0	471-02	Prepared	& Analyz	ed: 05/21		. ,		
Benzene	4.76	0.500	ug/l	10.0	ND	43.7	60-140	1.06	25	Q-03
Toluene	9.56	0.500	n	10.0	0.501	90.6	60-140	2.54	25	
Ethylbenzene	9.41	0.500	11	10.0	ND	94.1	60-140	6.5 9	25	
Xylenes (total)	26.4	0.500	19	30.0	ND	88.0	60-140	0.378	25	
Surrogate: a,a,a-Trifluorotoluene	10.2		n	10.0		102	70-130			



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Gettler Ryan/Geostrategies - Tosco/Unocal

6747 Sierra Ct, Suite J Dublin CA, 94568 Project: Tosco/Unocal

Project Number: 6401 Dublin San Ramon

Project Manager: Doug Lee

Reported: 05/24/01 17:46

Notes and Definitions

M-03 Sample was analyzed at a second dilution.

Q-02 The spike recovery for this quality control sample is outside of the established control limits due to interference from the sample

matrix. However, the accuracy of the data was validated by a laboratory control sample which was within acceptance limits.

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

N° 002532

TOSCO

□ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 7/6-9600 • FAX (408) 782-6308
□ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
□ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
□ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
□ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

							,	^				
Consultant Company: 6-2-		(TIKE OF	159)						<u> 715' </u>			01.03
Address: 6747 Sierra	i Ct, Su	*		TOSCO	Engineer	(require	g) <u></u>	allo	1 B.	Dolu	ivit	
City: Dublin Sta	re: CA	Zip Code: C	14568									
Telephone: 925 -551-75		975-55/	-7858	Site #, C	ity, State	: Du	alin.	, CA				
Report To: Doug Lea		ettes Tas		QC Data	. /^L e\	el D (Sta	ndard)	☐ Leve	el C 🗆	Level B	☐ Lev	el A
Turnaround 10 Work Days	⊒ 5 Work Days ⊒ 1Work Day	□ 3 Work Da □ 2-8 Hours	ys 🗀 Dri	nking Wate ste Water	_	//	7 /	Analys	es Reque	ested		7
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Client Date/Time Sample I.D. Sampled	Matrix # o Desc. Con	1 1	Sequoia's Sample #	ZH.	patished Gash	M. A. Garaga	Terkens hed	Best Held Col	Step Live Step		Com	ments
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Relinquished By:	Gy D	ate:5//a	Time:		ived By:	1-19	9		Date: ,	5/17/01	Time:	1811
Relinquished By:	27/ D	ate 7/17	Time: (-)	Rece	ived By:	<i>,</i> 			Date:		Time:	
Were Samples Received in Good Condit	ion? 🗆 Yes 🗀 No	Sam	oles on Ice?	□ Yeş 〔	⊇ No M	ethod of s	Shipmen	1		·	Page	of
To be completed upon receipt of rep 1) Were the analyses requeste 2) Was the report issued within	d on the Chain of			es 🗅 No		what ar at was t	•		needed? me?			
'9d by:	,	Signature:			-	Company					Dat	te:



12 November, 2001

Doug Lee Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco

Sequoia Report: W110534

Enclosed are the results of analyses for samples received by the laboratory on 29-Oct-01 12:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



404 N. Wiget Lane Wainut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Project: Tosco

Project Number: Tosco # 6419

Reported: 12-Nov-01 07:51

Dublin CA, 94568

Project Manager: Doug Lee

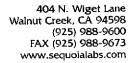
ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TWP-1	W110534-01	Water	26-Oct-01 00:00	29-Oct-01 12:35

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

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.





Gettler Ryan, Inc. - Dublin

Project: Tosco

6747 Sierra Court Suite J

Project Number: Tosco # 6419

Doug Lee

Dublin CA, 94568

Project Manager: Doug Lee

Reported: 12-Nov-01 07:51

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

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TWP-1 (W110534-01) Water San	npled: 26-Oct-01 00:00	Receive	d: 29-Oc	t-01 12:35					
Purgeable Hydrocarbons (C6-C12)	ND	500	ug/l	10	1J31002	06-Nov-01	06-Nov-01	EPA 8015M/8021	
Benzene	ND	5.0	n	D	II.	11	н	+ 1	Q-28
Toluene	ND	5.0	н	n	II .	11	II	н	
Ethylbenzene	ND	5.0	11	u	Ħ	ıı	It	D	
Xylenes (total)	ND	5.0	И	11	11	11	11	н	
Methyl tert-butyl ether (MTBE)	2500	250	H	100	n	"	N	H	Q-28a,QR-04
Surrogate: a,a,a-Trifluorotoluene		103 %	70-	-130	"	"	p	#	





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

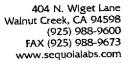
Project Number: Tosco # 6419

Project Manager: Doug Lee

Reported: 12-Nov-01 07:51

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

	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Dinit	Omis	10701						
Batch 1J31002 - EPA 5030B P/T										
Blank (1J31002-BLK1)				Prepared	& Analyze	ed: 01-Nov	/ - 01			
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	11							
Toluene	ND	0.50	n							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	(1							
Methyl tert-butyl ether (MTBE)	ND	2.5	11							
Surrogate: a,a,a-Trifluorotoluene	30.7		n	30.0		102	70-130			
Blank (1J31002-BLK4)				Prepared	& Analyz	ed: 06-No	v-01			
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	**							
Toluene	ND	0.50	*1							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	11							
Methyl tert-butyl ether (MTBE)	ND	2.5	*1							
Surrogate: a,a,a-Trifluorotoluene	30.4		"	30.0		101	70-130			
LCS (1J31002-BS1)				Prepared	& Analyz	ed: 01-No	v-01			
Benzene	16.3	0.50	ug/l	20.0		81.5	70-130			
Toluene	17.5	0.50	17	20.0		87.5	70-130			
Ethylbenzene	18.6	0.50	,,	20.0		93.0	70-130			
Xylenes (total)	56.7	0.50	п	60.0		94.5	70-130			
Surrogate: a,a,a-Trifluorotoluene	29.1		"	30.0		97.0	70-130			
LCS (1J31002-BS4)				Prepared	l & Analy:	zed: 06-No	ov-01			
Benzene	16.8	0.50	ug/l	20.0		84.0	70-130			
Toluene	18.0	0.50	_	20.0		90.0	70-130			
Ethylbenzene	19.3	0.50		20.0		96.5	70-130			
Xylenes (total)	57.3	0.50	Ħ	60.0		95.5	70-130			
Surrogate: a.a.a-Trifluorotoluene	29.7			30.0		99.0	70-130		~ ~~	





Gettler Ryan, Inc. - Dublin 6747 Sierra Court, Suite I Project: Tosco

Project Number: Tosco # 6419

Reported: 12-Nov-01 07:51

6747 Sierra Court Suite J Dublin CA, 94568

Project Manager: Doug Lee

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 1J31002 - EPA 5030B P/T					·	<u> </u>				
Matrix Spike (1J31002-MS1)	So	urce: W1104	79-11	Prepared	& Analyzo	ed: 01-No				
Benzene	17.1	0.50	ug/l	20.0	ND	85.5	70-130			
Toluene	18.4	0.50	п	20.0	ND	92.0	70-130			
Ethylbenzene	19.5	0.50	91	20.0	ND	97.5	70-130			
Xylenes (total)	60.1	0.50	ir	60.0	ND	100	70-130			
Surrogate: a,a,a-Trifluorotoluene	29.7		11	30.0		99.0	70-130		-	
Matrix Spike Dup (1J31002-MSD1)	So	ource: W1104	79-11	Prepared	& Analyz	ed: 01-No	v-01			
Benzene	17.0	0.50	ug/l	20.0	ND	85.0	70-130	0.587	20	
	18.4	0.50	11	20.0	ND	92.0	70-130	0.00	20	i
Toluene	19.4	0.50	n n	20.0	ND	97.0	70-130	0.514	20	
Ethylbenzene Xylenes (total)	59.5	0.50	71	60.0	ND	99.2	70-130	1.00	20	
Surrogate: a,a,a-Trifluorotoluene	30.1	·	"	30.0		100	70-130			



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequolalabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Reported: 12-Nov-01 07:51

Notes and Definitions

Q-28 The opening calibration verification standard was outside acceptance criteria by -1.5%. Although the Laboratory Control Sample verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.

The opening calibration verification standard was outside acceptance criteria by 20%. Although the Laboratory Control Sample

verified the accuracy of the batch, this should be considered in evaluating the data for its intended purpose.

QR-04 Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

Q-28a

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Nº 007005 TOSCO

885 Jarvis Drive Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308	
6- 9-0 Striker Ave Suite 8 • Secremento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100	
Manut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673	
1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707)	792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612	# .

onsultant Company:	Gettler - 1	Zyan	THE. 14010	١	Tosco Enginee	" David	3 De	w: +-	(1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			
ddress: 1.6747					Site #: 6	419	:		A Survivor of 2			
ity D. Lin	State:	CA	Zip Code: 9456	8	Site Address: 6401 Dublin BLUD							
elephone: 925- 53				/ .	City, State:	Doblin 💮	CA	WII	0534			
Report To: Doug			ler: A. Smith	1 1	QC Data: 💢	Level D (Standard)	Level C	□ Level B	Level A			
Furnaround 10 Wo			ys □ 3 Work Days y □ 2-8 Hours		king Water te Water r	Analyses Ro	70. /	///	///			
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Client Sample I.D.	Date/Time Sampled	Matrix Desc.	#of Cont.	Sequoia Sample		Charles Continues (Continues Continues Continu	///		Comments			
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Vere Samples Receive	d in Good Conditio	n? □ Ye	s DNo ' Sample	s on Ice?] Yes □ No	Method of Shipment _		Pa	geof			
o:be completed upon re			CONTRACTOR CONTRACTOR									



29 November, 2001

Doug Lee Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin, CA 94568

RE: Tosco

Sequoia Report: W111197 RECREATE

Enclosed are the results of analyses for samples received by the laboratory on 12-Nov-01 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Charlie Westwater Project Manager

CA ELAP Certificate #1271



404 N. Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court, Suite J.

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

29-Nov-01 08:25

ANALYTICAL REPORT FOR SAMPLES

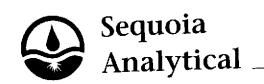
Sample 1D	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	W111197-01	Water	12-Nov-01 00:00	12-Nov-01 17:40

Sequoia Analytical - Walnut Creek

Charlie Westwater, Project Manager

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.





Geuter Ryan, Inc. - Dublin 6747 Sierra Court Suite J

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

29-Nov-01 08:25

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

		Sequon		,						
Analyte		Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled	12-Nov-01 00:00	Receive	d: 12-No	ov-01 17:40		_			
Purgeable Hydrocarbons (C6-C)		ND	50	ug/l	1	1K13001	13-Nov-01	13-Nov-01	EPA 8015M/8021	
angem ve vy m		ND	0.50	н	н	н	þ	n	u	
Велиенс		ND		n	п	11		II .	e e	
Loluene		ND	0.50		н	a	31	11	n	
Ethylbenzene		ND	0.50	n		h	IF	п	11	
Xylenes (total)		ND	0.50	11	H					·
-			107 %	70	-130		"	et .	"	
Surrogate: a,a,a-Trifhiorotolue	ne			-						
TPW-1 (W111197-01RE1) Wa	ater Sam	pled: 12-Nov-01 0	0:00 Re	ceived:	12-Nov-01	17:40 				
Methyl tert-butyl ether (MTB		870	50	ug/l	20	1K13001	14-Nov-03	14-Nov-01	EPA 8015M/8021	
Surrogate: a,a,a-Trifluorotolue			101 %	70)-130		n	"	v	





Gettler Ryan, Inc. - Dublin 6747 Sierra Court, Suite J.

Dublin CA, 94568

Project: Tosco

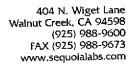
Project Number: Tosco # 6419

Reported: 29-Nov-01 08:25

Project Manager: Doug Lee

Volatile Organic Compounds by EPA Method 8260B Sequoia Analytical - Walnut Creek

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (W111197-01) Water S	Sampled: 12-Nov-01 00:00	Receive	d: 12-Nov	-01 17:40)				<u> </u>
Ethanol	ND	2500	ug/l	5	1K14004	14-Nov-01	14-Nov-01	EPA 8260B	
tert-Butyl alcohol	ND	100	11	0	n	U	n	Ħ	
Methyl tert-butyl ether (MTBE)	890	10	н	#1	n `	Ħ	n	n	
Di-isopropyl ether	ND	10	n	n	H	n	п	н .	
Ethyl tert-butyl ether	ND	10	II.	13	н	п	n	н	
tert-Amyl methyl ether	ND	10	n	н	11	n	н	II	
1.2-Dichloroethane	ND	10	u	ìr	u	Ħ	ır	π	
Ethylene dibromide	ND	10	11	P	11	u	н	lt .	
Surrogate Dibromofluoromethan	nr	92.4 %	50-1	50	n	"	"	"	
Surrogate 1,2-Dichloroethane-d-		99.2 %	50-I	50	ff	n	н	"	





Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported: 29-Nov-01 08:25

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

							41500		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Batch 1K13001 - EPA 5030B P/T		. <u> </u>	<u>. </u>							·
Blank (1K13001-BLK1)				Prepared	& Analyz	ed: 13-No	v-01 			
Purgeable Hydrocarbons (C6-C12)	מא	50	ug/l							
Венгене	ND	0.50	н							
Toluene	ND	0.50	ii.							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	н							
Methyl tert-butyl ether (MTBE)	ИD	2.5	If							
Surrogate: a.a.a-Trifluorotoluene	30.7°			30.0		102	70-130			
Blank (1K13001-BLK2)				Prepared	& Analyz	ed: 14-No	v-01			
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	п							
Toluene	ND	0.50	n							
Ethylbenzene	ND	0.50	II.							
Xylenes (total)	ND	0.50	11							
Methyl teri-butyl ether (MTBE)	ND	2.5	н							-
Surrogate a.a.a-Trifluorotoluene	30.9		jr .	30.0		103	70-130			
Blank (1K13001-BLK4)				Prepared	i & Analy:	zed: 15-No	ov-01			
Purgeable Hydrocarbons (C6-C12)	ND	50	ug/l							
Benzene	ND	0.50	11							
Toluene	ND	0.50	11							
Ethylbenzene	ND	0.50	U							
Nylenes (total)	ND	0.50	a							
Methyl rert-buryl ether (MTBIs)	ND	2.5	н							
Surrogate, a.a.a-Trifluorotoluene	35.6		и	30.0		119	70-130			
LCS (1K13001-BS1)		· ·		Prepare	d & Analy	/zed: 13-N	ov-01			
	17.2	0.50	ug/l	20.0		86.0	70-130			
Benzene	18.4	0.50		20.0		92.0	70-130			
Foluene	19.7	0.50		20.0		98.5	70-130			
Fthy benzene	59.0	0.50		60.0		98.3	70-130			
Nylenes (total) Surrogate - a.a.a-Trifluorotolvene	30.1	0.50	"	30.0		100	70-130	_ 	<u>, , , , , , , , , , , , , , , , , , , </u>	*/



Gerder Ryan, Inc. - Dublin

6747 Sierra Court, Suite J. Dublio CA, 94568 Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 29-Nov-01 08:25

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 1K13001 - EPA 5030B P/T										
LCS (1K13001-BS2)	-			Prepared	& Analyz	ed: 14-No				
Benzene	17.0	0.50	ug/l	20.0		85.0	70-130			
Toluene	18.3	0.50	†1	20.0		91.5	70-130			
Ethy lbenzene	19.5	0.50	и	20.0		97.5	70-130			
Xylenes (total)	59.0	0.50	n	60.0		98.3	70-130			
Surrogate a.o.a-Trifluorotoluene	30.3		''	30.0		101	70-130			
Matrix Spike (4K13001-MS1)	Sc	ource: W1112	18-01	Prepared	: 13-Nov-() I Analyz	ed: 14-Nov	·-01		
Benzene	16.9	0.50	ug/l	20.0	ND	84.5	70-130			
Foluene	18.1	0.50	11	20.0	ND	90.5	70-130			
I thy lhenzene	19.5	0.50	н	20.0	ND	97.5	70-130			
Xylenes (total)	59.4	0.50	h	60.0	ND	99.0	70-130			
Surrogate a.o.a-Trifluorotoluene	28.9		и	30.0		96.3	70-130			
Matrix Spike Dup (1K13001-MSD1)	So	ource: W1112	18-01	Prepared	: 13-Nov-0)1 Analyz	ed: 14-Nov	/- 01		
Benzene	17.1	0.50	ug/l	20.0	ND	85.5	70-130	1.18	20	
Lohienc	18.5	0.50		20.0	ND	92.5	70-130	2.19	20	
Lahylbenzene	19.2	0.50	IJ	20.0	ND	96.0	70-130	1,55	20	
Xylenes (total)	59.0	0.50	н	60.0	ND	98.3	70-130	0.676	20	
Surrogate a.a.a-Trifluorotoluene	28.8	i i	. н	30.0		96.0	70-130			



Sequoia Analytical - Walnut Creek



Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

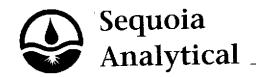
Project Number: Tosco # 6419 Project Manager: Doug Lee **Reported:** 29-Nov-01 08:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1K14004 - EPA 5030B (P/T)						<u>.</u>				
Blank (1K14004-BLK1)				Prepared	& Analyz	ed: 12-No	v-01			
Hanol	ND	500	ug/l							
ert-ButyLalcohol	ND	20	**							
Methyl teri-butyl ether (MTBE)	ND	2.0	ıı .							
Di-isopropyl other	ND	2.0	71							
Ethyl tert-butyl ether	ND	2.0	н							
terr-Amyl methyl ether	ND	2.0	n							
1.2-Dichloroethane	ND	2.0	n							
1.2-(nemoroemane 1:thylene dibromide	ND	2.0	н							
-	50.2			50.0		100	50-150			
Surrogate Dibromofluoromethane	48.4		"	50.0		96.8	50-150			
Surrogate 1.2-Dichloroethane-d4				Dranated	l & Aπalv:	zed: 14-No	ov-01			
Blank (1K14004-BLK2)										
Ethanol	ND	500	ug/l							
teri-Buiyl alcohol	ND	20	п							
Methyl tert-hutyl ether (MTBE)	ND	2.0								
Di-isopropyl ether	ND	2.0								
Ethyl tert-buryl ether	ND	2.0						•		
tert- Amyl methyl effici	ND	2.0	11							
3.2-Dichloroethanc	ИD	2.0	P							
1-thytene dibromide	ND	2.0	и							
Survegate Dibromoffworomethane	45.3		n	50.0		90.6	50-150			
Surrogate 1.2-Dichloroethane-d4	49.3		"	50.0		98.6	50-150			
				Prepare	d & Analy	/zed: 12-N	ov-01			
LCS (1K14004-BS1)	63.7	2.0	ng/l	50.0		127	70-130			
Methyl tert-hutyl ether (MTBE)		2.0		50.0		99.8	50-150			
Surrogate Dibromofluoromethane	49.9		,,	50.0 50.0		95.2	50-150			
Surrogate 1.2-Dichloroethane-d4	47.6		••	50.0		,,,,,				





Gettler Ryan, Inc. - Dublin 6747 Sierra Court, Suite J.

Dublin CA, 94568

Project: Tosco

Project Number: Tosco # 6419 Project Manager: Doug Lee Reported:

29-Nov-01 08:25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 1K14004 - EPA 5030B (P/T)										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
LCS (1K14004-BS2)	_ .	 "		Prepared	& Analyz	ed: 14-No	v-01					
Methyl tert-butyl ether (MTBE)	46.0	2.0	ug/l	50.0		92.0	70-130					
Surrogate: Dibromofluoromethane	45.0			50.0		90.0	50-150					
Surrogate: 1.2-Dichloroethane-d4	49.0		"	50.0		98.0	50-150					
Matrix Spike (1K14004-MS1)	Sc	ource: W1111	67-05	Prepared	Prepared & Analyzed: 14-Nov-01							
vlethyl tert-butyl ether (MTBE)	65.4	2.0	ug/l	50.0	4.0	123	60-150			,,,		
aurrogate Dibromofluoromethane	46.3		n ·	50.0		92.6	50-150					
surrogate 12-Dichloroethane-d4	48.4		"	50.0		96.8	50-150					
Matrix Spike Dup (1K14004-MSD1)	Se	ource: W1111	67-05	Prepared	& Analyz	ed: 14-No	v-01					
Methyl tert-butyl ether (MTBE)	66.6	2.0	ug/l	50.0	4.0	125	60-150	1.82	25			
Surrogate Dibromofluoromethane	45.8			50.0		91.6	50-150					
Surrogate 1.2-Dichloroethane-d4	49.7		n	50.0		99.4	50-150					



404 N, Wiget Lane Walnut Creek, CA 94598 (925) 988-9600 FAX (925) 988-9673 www.sequoialabs.com

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568 Project: Tosco

Project Number: Tosco # 6419

Project Manager: Doug Lee

Reported:

29-Nov-01 08:25

Notes and Definitions

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

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100

24 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673

☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342

☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company:	Gettler - R.	YOUN ?	Inc.	14010	٠	Projec	t Name	e: 6	5401	Du	blin	`	BLU	D.			
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	n receipt of report yses requested o t issued within the	n the Cha				es 🗀 l				alyses ne turna							
Approved by:	C.Socoa Within III	c ,cquost		Signature					npany			,,,			Dat	te:	1



30 December, 2002

Dave Vossler Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma, CA 94954

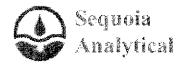
RE: Tosco 4619, Dublin, CA Sequoia Work Order: S212464

Enclosed are the results of analyses for samples received by the laboratory on 12/13/02 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew Client Services Representative

CA ELAP Certificate #1624



819 Striker Ave Ste 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100 www.sequoialabs.com

Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954 Project: Tosco 4619, Dublin, CA

Project Number: N/A

Project Manager: Dave Vossler

S212464 Reported: 12/30/02 17:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TPW-1	S212464-01	Water	12/12/02 16:45	12/13/02 17:00



819 Striker Ave Ste 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100 www.sequoialabs.com

Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Project: Tosco 4619, Dublin, CA Project Number: N/A \$212464 **Reported:** 12/30/02 17:38

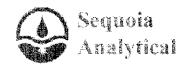
Petaluma CA, 94954

Project Number: N/A
Project Manager: Dave Vossler

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TPW-1 (S212464-01) Water	Sampled: 12/12/02 16:45	Received:	12/13/02	17:00					
Purgeable Hydrocarbons	79	50	ug/l	1	2120425	12/26/02	12/26/02	DHS LUFT	
Benzene	ND	0.50	n	и	u	íi .	Ħ	н	
Toluene	ND	0.50	11	tt.	ц	11	#	II	
Ethylbenzene	ND	0.50	"	11	п	Ħ	11	п	
Xylenes (total)	ND	0.50	II.	11	"	Ħ	11	**	
Methyl tert-butyl ether	130	2.0		11	**	11	μ		
Surrogate: a,a,a-Trifluorotolu	ene	107 %	60-	140	n	n	"	n	





Gettler-Ryan - Petaluma 1364 N McDowell Blvd. Ste B2 Petaluma CA, 94954 Project: Tosco 4619, Dublin, CA

Project Number: N/A

Project Manager: Dave Vossler

\$212464 **Reported:** 12/30/02 17:38

Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Sacramento

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 2120425 - EPA 5030B (P/T)											
Blank (2120425-BLK1)				Prepared o	& Analyz	ed: 12/26/	02				
Purgeable Hydrocarbons	ND	50	ug/l								
Benzene	ND	0.50	n								
Toluene	ND	0.50	II.								
Ethylbenzene	ND	0.50	п								
Xylenes (total)	ND	0.50	11								
Methyl tert-butyl ether	ND	2.0	- "								
Surrogate: a,a,a-Trifluorotoluene	10.1		n	10.0		101	60-140	· <u>-</u>			
Laboratory Control Sample (2120425-BS1)				Prepared a	& Analyz	ed: 12/26/	02				
Benzene	9.34	0.50	ug/l	10.0		93	70-130				
Toluene	9.96	0.50	11	10.0		100	70-130				
Ethylbenzene	10.0	0.50	*1	10.0		100	70-130				
Xylenes (total)	29.4	0.50	**	30.0		98	70-130				
Methyl tert-butyl ether	11.1	2.0	"	10.0		111	70-130				
Surrogate: a,a,a-Trifluorotoluene	11.2		"	10.0		112	60-140				
Duplicate (2120425-DUP1)	So	urce: S21260	2-10	Prepared & Analyzed: 12/26/02							
Benzene	ND	0.50	ug/l		ND				50	-	
Toluene	ND	0.50	**		ND				50		
Ethylbenzene	ND	0.50	**		ND				50		
Xylenes (total)	ND	0.50	**		ND				50		
Methyl text-butyl ether	ND	2.0	**		ND				50		
Surrogate: a,a,a-Trifluorotoluene	8.40		"	10.0		84	60-140				



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Gettler-Ryan - Petaluma

1364 N McDowell Blvd. Ste B2

Petaluma CA, 94954

Project: Tosco 4619, Dublin, CA

Project Number: N/A

Project Manager: Dave Vossler

S212464 Reported:

12/30/02 17:38

Notes and Definitions

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

№ 007657 **TOSCO**

□ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308	
m or a Striker Ava. Suite 8 - Secrementa, CA 95834 - (916) 921-9600 - FAX (916) 921-9100	
NEWINA N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 986-9673	
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☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 • FAX (650) 232-9612	
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To be completed upon α 1) Wore the en	ecolpt of report; ralyses requested on	the Chain	of Custo	iy reportod?	EÉ Yos □ N	o Ifi	no, wha	analyse	ıs are	still ne	oded?		₽ 	<u> </u>		. -			
2) Was the rep	adt nidted baras an	reduasted	turnerous	nd time? D	Yes □ No	If no, s	what wa	s the turi	nozgr	nd tìme	?	_				Date: _	12-31-21	٠, ٤	