THRIFTY OIL CO.

November 2, 2010

Mr. Paresh Khatri Alameda County Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

RECEIVED

2:19 pm, Nov 03, 2010

Alameda County
Environmental Health

O.107477

Local #RO0000004 RWQCB #01-1478

Re: Former Thrifty Oil Co. Station #063

6125 Telegraph Avenue Oakland, California 94502

High Vacuum Dual-Phase Extraction Report and Request for Low Risk Closure

Dear Mr. Khatri:

The enclosed *High Vacuum Dual Phase Extraction* (HVDPE) *Report* dated October 21, 2010, and prepared by CalClean Inc. (CalClean) (**Attachment A**) summarizes the results of the continuous 30-Day (24-hour/Day) mobile HVDPE event (HVDPE Event) conducted from September 13 to October 13, 2010, at former Thrifty Oil Co. (Thrifty) Station No. 063 located at 6125 Telegraph Avenue, Oakland, California (**Figure 1**). The HVDPE event was conducted in accordance with the *Continuous 5-Day Mobile High Vacuum Dual Phase Extraction Report and Workplan to Conduct a Continuous 30-Day Mobile High Vacuum Dual-Phase Extraction Event* (Workplan) dated June 9, 2010, which was approved by the Alameda County Health Care Services (ACHCS) in a letter dated August 26, 2010.

Laboratory analytical results of the total inlet vapor samples collected at the beginning (09/13/10) and at the end of the 30-Day HVDPE event (10/13/10) indicate a significant decrease in hydrocarbon constituent concentrations as shown in **Table 1** below. The ending TPHg, benzene and MTBE vapor concentrations of 386 ppmv, non-detectable and 0.08 ppmv, respectively, indicate that the HVDPE has likely remediated nearly all of the residual hydrocarbon mass beneath the site.

Table 1: TOTAL INLET VAPOR SAMPLE RESULTS DURING THE 30-Day HVDPE:

Sample ID	Constituent	Date of sampling and results in (p	Comments	
		Beginning of HVDPE (09/13/10)	End of HVDPE (10/13/10)	
Inlet	TPHg	754	386	Significant Decrease
	Benzene	1.51	ND <0.05	Significant Decrease
	МТВЕ	0.131	0.08	Significant Decrease



The laboratory analytical results for the groundwater samples collected from extraction well MW-4 at the beginning (09/13/10) and at the end of the HVDPE event (10/13/10) indicate a decrease of TPHg and TBA concentrations in well MW-4 with benzene being non-detectable throughout the event.

MTBE concentrations increased slightly in well MW-4 when comparing beginning and ending concentrations, and Thrifty assumes that the increase may have been the result of the depression cone created around the extraction point (well MW-4) which pulled the MTBE back towards well MW-4.

Table 2 below shows the evolution of groundwater concentrations at the beginning and at the end of the 30-day DPE event:

Table 2: COMPARATIVE GROUNDWATER SAMPLE RESULTS:

Well ID	Constituent	_	ng and results in g/L)					
		Beginning of DPE (9/13/10)	End of DPE (10/13/10)	Comments				
MW-4	TPHg	54	ND<6.6	Significant decrease in concentration				
	Benzene	ND<0.18	ND<0.18	Remained non-detectable				
	МТВЕ	37	71	Slight increase in concentration				
	ТВА	613	192	Significant decrease in concentration				

During the HVDPE Event, approximately 12,570 gallons of groundwater and 291.80 pounds of hydrocarbons (as vapor) were removed. The average hydrocarbon removal rate over the 30-day event was approximately 0.41 pounds per hour. However, hydrocarbon removal rates during the last 11 days (from 10/2/10 to 10/13/10) of extraction declined to approximately 0.22 pounds per hour, indicating that asymptotic conditions have likely been reached.

Request for Site Closure

In the June 9, 2010 Workplan, Thrifty estimated the remaining hydrocarbon mass at the site to be less than 200 pounds. During this recent 30-day HVDPE approximately 291.80 pounds of hydrocarbons were removed, exceeding our original estimate of less than 200 pounds of hydrocarbons. Over the last 11 days of the 30-day HVDPE event, TPHg vapor concentrations remained stable and relatively low indicating that asymptotic conditions have been reached and that HVDPE was a very effective remedial technology for this site. Thrifty believes that almost all the hydrocarbon mass has been removed from the site and laboratory results for the ending groundwater and vapor samples indicated no detectable concentrations of benzene. Thrifty believes that the remaining contamination at the site poses little to no threat to human health or the environment, and it will naturally attenuate within a reasonable timeframe. Based on the above information, we respectively request that the ACHCS consider low risk closure for this site.

Should you have any questions regarding this report, please contact or the undersigned at (562) 921-3581, Ext. 390 (Chris) or 260 (Simon).

I declare, under penalty of perjury, that the information and/or recommendations contained in this document are true and correct to the best of my knowledge.

Respectfully submitted,

Simon Tregurtha Project Manager Larry Higinbotham Registered Geologist

Chris Panaitescu General Manager

Environmental Affairs

cc:

BP West Coast Products LLC, Mr. John Skance

File

ATTACHMENT A

CALCLEAN INC.

"A Partner in Protecting California's Waters"

1'107472 RECEIVED OCT 28 2010 ST

ENVIRONMENTAL SS# OL 3

October 21, 2010

Thrifty Oil Co.

Attn.: Mr. Simon Tregurtha 13116 Imperial Highway Santa Fe Springs, CA 90670

SITE:

THRIFTY OIL COMPANY STATION #063

6125 TELEGRAPH AVENUE OAKLAND, CALIFORNIA

RE:

HIGH VACUUM DUAL PHASE EXTRACTION REPORT

Dear Mr. Tregurtha:

CalClean Inc. is submitting this High Vacuum Dual Phase Extraction (HVDPE) Report for the above referenced site (Figure 1). This report includes activities performed by CalClean during a 30-day (24 hours per day) HVDPE event between September 13 to October 13, 2010. All work was conducted in accordance with Thrifty Oil Company's (Thrifty) Continuous 5-Day Mobile High Vacuum Dual Phase Extraction Report and Workplan to Conduct a Continuous 30-Day Mobile High Vacuum Dual Phase Extraction Event report dated June 9, 2010, and the Alameda County Health Care Services approval letter dated August 26, 2010.

From September 13 to October 13, 2010, CalClean performed a 30-day HVDPE event on one onsite well MW-4 using a low-noise, truck-mounted 450-CFM high-vacuum liquid ring blower along with a Bay Area Air Quality Management District (BAAQMD) various locations permitted, propane-fired, thermal oxidizer (Plant #12568). This technology allows hydrocarbon vapor phase and dissolved phase to be simultaneously removed from the vadose zone, capillary fringe, and saturated soil zone.

During the HVDPE event, vapor samples were collected in Tedlar bags from the extraction well on the first day, and weekly thereafter until the end of the event. The laboratory results, listed in Table 1 and laboratory reports included in Attachment 2, indicate the following:

- The starting (September 13, 2010) Total Petroleum Hydrocarbons as Gasoline (TPH-G) vapor concentration in well MW-4 was 754 ppmv. The September 19, 2010 TPH-G vapor concentration was 1,720 ppmv. The September 25, 2010 TPH-G vapor concentration was 708 ppmv. The October 2, 2010 TPH-G vapor concentration was 397 ppmv. The October 13, 2010 ending TPH-G vapor concentration was 386 ppmv.
- The starting (September 13, 2010) Benzene vapor concentration in well MW-4 was 1.51 ppmv. The September 19, 2010 Benzene vapor concentration was ND<0.1 ppmv. The September 25, 2010 Benzene vapor concentration was 0.7 ppmv. The October 2, 2010 Benzene vapor concentration was 0.253 ppmv. The October 7, 2010 Benzene vapor concentration was ND<0.025 ppmv. The October 13, 2010 ending Benzene vapor concentration was ND<0.05 ppmv.
- The starting (September 13, 2010) Methyl tert-Butyl Ether (MtBE) vapor concentration in well MW-4 was 0.131 ppmv. The September 19, 2010 MtBE vapor concentration was ND<0.1 ppmv. The September 25, 2010 MtBE vapor concentration was 0.09 ppmv. The October 2, 2010 MtBE vapor concentration was 0.116 ppmv. The October 7, 2010 MtBE vapor concentration was 0.078 ppmv. The October 13, 2010 ending MtBE vapor concentration was 0.08 ppmv.
- The starting (September 13, 2010) tert-Butyl Alcohol (TBA) vapor concentration in well MW-4 was ND<0.2 ppmv. The September 19, 2010 TBA vapor concentration was ND<0.2 ppmv. The September 25, 2010 TBA vapor concentration was 0.289 ppmv. The October 2, 2010 TBA vapor concentration was ND<0.1 ppmv. The October 7, 2010 TBA vapor concentration was ND<0.1 ppmv. The October 13, 2010 TBA vapor concentration was ND<0.1 ppmv.
- The Diisopropyl Ether (DIPE), tert -Amyl Methyl Ether (TAME) and Ethyl tert-Butyl Ether (ETBE) vapor concentrations in well MW-4 were not detected above the laboratory detection limits for reporting purposes.

Based on the laboratory data, the total equivalent amount of hydrocarbons recovered through vapor extraction during the 30-day (approximately 720 hours) event was approximately 291.80 pounds (or approximately 0.41 pound per hour). The cumulative tabulation of recovered hydrocarbons (based on laboratory data) is provided in Table 2.

During the 30-day event, a total of approximately 12,570 gallons of groundwater (as measured through the onsite water meter) was extracted from well MW-4. The extracted groundwater was treated through three granular activated carbon vessels in series inside the onsite groundwater treatment system compound. The treated groundwater was pumped to the onsite sewer system in accordance with an East Bay Municipal Utility District discharge permit #502-44462.

Groundwater samples were collected from wells MW-4 at the start and weekly thereafter until the end of the event. The laboratory results, listed in Table 3 and laboratory reports included in Attachment 2, indicate the following:

- The starting (September 13, 2010) TPH-G groundwater concentration in well MW-4 was 54 ug/L. The September 19, 2010 TPH-G groundwater concentration was 184 ug/L. The September 25, 2010 TPH-G groundwater concentration was 94 ug/L. The October 2, 2010 TPH-G groundwater concentration was ND<6.6 ug/L. The October 7, 2010 TPH-G groundwater concentration was ND<6.6 ug/L. The October 13, 2010 ending TPH-G groundwater concentration was ND<6.6 ug/L.
- During the 30-day event, the Benzene groundwater concentrations in well MW-4 were not detected above the laboratory detection limits for reporting purposes.
- The starting (September 13, 2010) MtBE groundwater concentration in well MW-4 was 37 ug/L. The September 19, 2010 MtBE groundwater concentration was 50 ug/L. The September 25, 2010 MtBE groundwater concentration was 63 ug/L. The October 2, 2010 MtBE groundwater concentration was 68 ug/L. The October 7, 2010 MtBE groundwater concentration was 67 ug/L. The October 13, 2010 ending MtBE groundwater concentration was 71 ug/L.
- The starting (September 13, 2010) TBA groundwater concentration in well MW-4 was 613 ug/L. The September 19, 2010 TBA groundwater concentration in well MW-4 was 360 ug/L. The September 25, 2010 TBA groundwater concentration in well MW-4 was 370 ug/L. The October 2, 2010 TBA groundwater concentration in well MW-4 was 163 ug/L. The October 7, 2010 TBA groundwater concentration in well MW-4 was 242 ug/L. The October 13, 2010 ending TBA groundwater concentration in well MW-4 was 192 ug/L.
- During the 30-day event, the DIPE, TAME and ETBE groundwater concentrations in well MW-4 were not detected above the laboratory detection limits for reporting purposes.

The following attachments are included to document the HVDPE event at the site:

Figure 1	Site Plan Showing Well Locations
Figure 2	Total Inlet HC Concentrations versus Time (Using Lab Data)
Figure 3	Cumulative HC Recovered (using Lab Data)
Table 1	Results of Laboratory Analysis of Influent Vapor Samples
Table 2	Hydrocarbon Mass Removal Spreadsheet (using Lab Data)
Table 3	Results of Laboratory Analysis of Groundwater Samples
Attachment 1	High Vacuum Dual Phase Extraction Field Data Sheets
Attachment 2	Laboratory Reports

If you have any questions regarding this report, please contact us at (714) 734-9137 or via cell phone at (714) 936-2706.

Sincerely,

CALCLEAN INC.

NollShena

Noel Shenoi

Principal Engineer

Attachments

CalClean Inc.

Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Thrifty Oil #063 Oakland, California

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)	TBA (ppmv)
MW-4	9/13/2010 1200	754	1.51	26.5	2.69	10.21	0.131	ND<0.2
MW-4	9/19/2010 1015	1,720	ND<0.1	ND<0.1	6.54	2.059	ND<0.1	ND<0.2
MW-4	9/25/2010 0800	708	0.7	0.309	3.84	1.615	0.09	0.289
MW-4	10/2/2010 1600	397	0.253	0.334	2.85	3.93	0.116	ND<0.1
MW-4	10/7/2010 1415	376	ND<0.025	ND<0.025	1.11	1.461	0.078	ND<0.05
MW-4	10/13/2010 0900	386	ND<0.05	ND<0.05	0.593	1.029	0.08	ND<0.1

Notes:

ppmv = parts per million by volume

Samples analyzed by EPA 8015B / EPA 8260B

TPH - g = total petroleum hydrocarbons - gasoline

MtBE = Methyl tert-Butyl Ether

Table 2 HYDROCARBON MASS REMOVAL SPREADSHEET (Using Lab Data) Thrifty Oil #063, Oakland, CA

		SYSTEM PA	ARAMETERS			
TIME	Average System Vacuum (in of Hg)	Average Total System Inlet Flow (scfm)	Influent Concentrations Post-dilution* (ppmv)	Hydro (lbs)	ocarbon Reco (gal)	very (Cumul. lbs)
9/13/2010 12:00	23	31	754	0.00	0.00	0
9/19/2010 10:15	23	42	1,720	87.44	14.00	87.44
9/25/2010 8:00	21	41	708	97.23	15.56	184.68
10/2/2010 16:00	21	36	397	50.97	8.16	235.65
10/7/2010 14:15	21	45	376	25.20	4.03	260.85
10/13/2010 9:00	21	41	386	30.95	4.95	291.80
	TOTAL HC RECOVERED* - LAB DATA			291.80	46.71	
	HC RECOVERED - Ibs./hour			0.41		

TOTAL GROUNDWATER EXTRACTED	12.570
The state of the s	

in of Hg = inches of mercury scfm = standard cubic feet per minute ppmv = parts per million by volume

gal = gallons

lbs = pounds

^{*} Concentration data based on laboratory data

CalClean Inc.

Table 3

RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLES Thrifty Oil #063 Oakland, California

Sample ID	Date/Time Sampled	TPH-g (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MtBE (ug/L)	TBA (ug/L)
MW-4	9/13/2010 1100	54	ND<0.18	ND<0.24	ND<0.21	ND<0.45	37	613
MW-4	9/19/2010 1030	184	ND<0.18	ND<0.24	ND<0.21	ND<0.45	50	360
MW-4	9/25/2010 0845	94	ND<0.18	ND<0.24	ND<0.21	ND<0.45	63	370
MW-4	10/2/2010 1610	ND<6.6	ND<0.18	ND<0.24	ND<0.21	ND<0.45	68	163
MW-4	10/7/2010 1445	ND<6.6	ND<0.18	ND<0.24	ND<0.21	2.0J	67	242
MW-4	10/13/2010 0930	ND<6.6	ND<0.18	ND<0.24	ND<0.21	ND<0.45	71	192

Notes:

ug/L = parts per billion

Samples analyzed by EPA 8015B / EPA 8260B

MtBE = Methyl tert-Butyl Ether

TPH - g = total petroleum hydrocarbons - gasoline

TBA = tert-Butanol

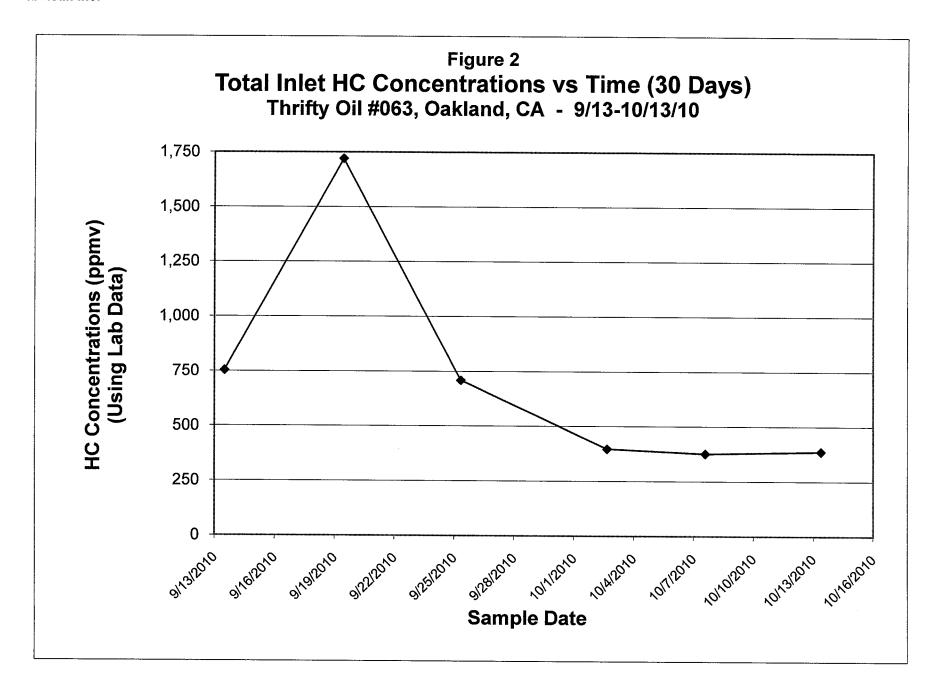


Figure 3 **Cumulative HC Recovered Over 30 Days** Thrifty Oil #063, Oakland, CA - 9/13-10/13/10 300 275 250 Recovered Pounds HC Recovered (Based on Lab data) 225 200 175 150 125 100 75 50 25 anazoro **Sample Date**

CalClean Inc.

ATTACHMENT 1

LABORATORY REPORTS



FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

261401

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

09/17/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

09/14/2010

PROJECT

Station #063

6125 Telegraph Ave., Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

Client Sample Identification

1110488

TOC #063 MW-4

1110489

TOC #063 Stack

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves. **TESTING & CONSULTING** Chemical Microbiological Environmental Order #: 1110488

Matrix: AIR

Client: Thrifty Oil Company Client Sample ID: TOC #063 MW-4

Date Sampled: 09/13/2010 Time Sampled: 12:00

Time Sampled: 12:0 Sampled By:

Analyte Result DF DLR Units Date/Analyst

8260B Volatile Organics (BTEX) in Air

Benzene	1510	100	100.0	Vppb	09/15/10	ΝZ
Ethylbenzene	2690	100	100.0	Vppb	09/15/10	ΝZ
m,p-Xylene	8200	200	200.0	Vppb	09/15/10	NZ
Methyl t- butyl ether (MTBE)	131	100	100.0	Vppb	09/15/10	ΝZ
o-Xylene	2010	100	100.0	Vppb	09/15/10	ΝZ
Toluene	26500	100	100.0	Vppb	09/15/10	NZ
Diisopropyl Ether	ND	200-	200.0	Vppb	09/15/10	NZ
Ethyl tert-Butyl Ether	ND	200	200.0	Vppb	09/15/10	NZ
tert-Amyl Methyl Ether	ND	200	200.0	Vppb	09/15/10	NZ
tert-Butanol	ND	200	200.0	Vppb	09/15/10	NZ

8015B - Gasoline in Air - (Vppm & ug/L)

Gasoline	754	13	62.5	Vppm	09/15/10	SW
Gasoline	3080	13	276.25	ug/L	09/15/10	sw

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 1110489 Matrix: AIR

Client: Thrifty Oil Company Client Sample ID: TOC #063 Stack

Date Sampled: 09/13/2010

Date Sampled. 03/13/2010
Time Sampled: 12:05
Sampled By:

Analyte	Result	DF	DLR	Units	Date/An	alys
BTEX/MTBE in Air - (Vppm & ug/L)						
Benzene	ND	1	0.01	Vppm	09/15/10	sw
Ethyl benzene	ND	1	0.01	Vppm	09/15/10	SW
Methyl t - butyl ether	ND	1	0.10	Vppm	09/15/10	SW
Toluene	ND	11	0.01	Vppm	09/15/10	SW
Xylene (total)	0.36	1	0.03	Vppm	09/15/10	SW
Benzene	ND	1	0.03	ug/L	09/15/10	SW
Ethyl-benzene	ND	1	0.04	ug/L	09/15/10	SW
Methyl t - butyl ether	ND	1	0.36	ug/L	09/15/10	SW
Toluene	ND	1	0.04	ug/L	09/15/10	SW
Xylene (total)	1.6	1	0.13	ug/L	09/15/10	SW

8015B - Gasoline in Air - (Vppm & ug/L)

Gasoline	ND		5.0	Vppm	09/15/10	sw
Gasoline	ND	1	22.1	ug/L	09/15/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES **QA REPORT FORM**

QC Sample:

261312-100

Matrix:

AIR

Prep. Date:

September 15, 2010

Analysis Date:

September 15, 2010

Lab ID#'s in Batch:

261312, 261402, 261419, 261456, 261457, 261401, 261294

REPORTING UNITS =

Vppm

SAMPLE DUPLICATE RESULT

		Sample Sample		
Test	Method	Result	Duplicate	%RPD
Gas	8015M	642.86	632.10	2
Benzene	8021B	3.43	3.40	1
Toluene	8021B	9.39	9.13	3
Ethylbenzene	8021B	0.68	0.59	14
Xylenes	8021B	11.09	10.61	4

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

QA REPORT FORM

Method:

8260 AIR

QC Sample:

261401-488

Matrix:

Air

Analysis Date:

9/15/2010 - 9/16/2010

Lab ID#'s in Batch:

261132, 261322, 261401, 261419, 261457, 261456, 261323

REPORTING UNITS =

Vppb

SAMPLE DUPLICATE RESULT

	Sample	Sample	
Test	Result	Duplicate	%RPD
Toluene	26,516	26,139	1
Ethyl benzene	2,690	2,697	0
m,p-Xylenes	8,200	8,104	1
o-Xylene	2,008	2,010	0

ND = "U" - Not Detected

 $RPD = Relative \ Percent \ Difference \ of \ Sample \ Result \ and \ Sample \ Duplicate$

RPD LIMITS = 20%

806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

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FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST 261750

ATTN: Simon Tregurtha

Santa Fe Springs, CA 90670

13116 Imperial Hwy.

REPORTED 09/27/2010

P.O. Box 2128

RECEIVED

09/20/2010

PROJECT

Station #063

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

Client Sample Identification

1111811

1111812

TOC #063 MW-4

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by.

Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental Order #:

1111811

Client Sample ID: TOC #063 MW-4

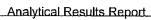
Matrix: WATER

Date Sampled: 09/13/2010 Time Sampled: 11:00

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	09/24/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	09/24/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	09/24/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	09/24/10 RP
Methyl-tert-butylether (MTBE)	37	1.0	1	0.19 ug/L	09/24/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	09/24/10 RP
Tertiary butyl alcohol (TBA)	613	1.0	10	5.2 ug/L	09/24/10 RP
Toluene	ND	1.0	5	0.24 ug/L	09/24/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	09/24/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	101			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	128			%	70 - 135
Surr3 - Toluene-d8	99			%	70 - 135
Surr4 - p-Bromofluorobenzene	99		PP-9114-Augustuse	%	70 - 135
8015B Gasoline					
Gasoline	54	1.0	50	6.6 ug/L	09/22/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	93			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace







Client Sample ID: Laboratory Method Blank Order #: 1111812

Matrix: WATER

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	09/23/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	09/23/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	09/23/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	09/23/10 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	09/23/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	09/23/10 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	09/23/10 RP
Toluene	ND	1.0	5	0.24 ug/L	09/23/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	09/23/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	98			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	124			%	70 - 135
Surr3 - Toluene-d8	99			%	70 - 135
Surr4 - p-Bromofluorobenzene	103			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1.0	50	6.6 ug/L	09/22/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	80			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES LCS REPORT FORM

QC Sample:

G1-LCS&LCSD

Matrix:

WATER

Prep. Date:

September 22, 2010

Analysis Date

9/22/10-9/23/10

Lab ID#'s in Batch: 261748, 261703, 261750, 261793, 261662, 261785.

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = $\mu g/L$

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
ТРН	8015M-G	ND	500	480	454	96	91	6

ND = Not Detected

LCS Result = Lab Control Sample Result

% REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS	=	70	-	130
RPD LIMITS	=	30		

SURROGATE RECOVERY

Sample No.	BFB					
QC Limit	60-140					
Method Blank	81					
LCS	94					
LCSD	95					

BFB = p-Bromofluorobenzene

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: MS/MSD Water Sample

261726-716

Date Prepared: September 23, 2010 Date Analyzed: 9/23-9/24/10 Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 261726, 261693, 261848, 261735, 261990, 261748, 261725, 261750, 261703

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	49.2	53.9	98	108	9	22	59 - 172
MTBE	0.00	50.0	56.3	58.1	113	116	3	24	62 - 137
Benzene	0.00	50.0	46.4	48.9	93	98	5	24	62 - 137
Trichloroethene	0.00	50.0	46.8	49.6	94	99	6	21	66 - 142
Toluene	0.00	50.0	45.2	47.7	90	95	5	21	59 - 139
Chlorobenzene	0.00	50.0	46.8	49.1	94	98	5	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	59.4	119	59 - 172
мтве	50.0	63.5	127	62 - 137
Benzene	50.0	51.5	103	62 - 137
Trichloroethene	50.0	49.4	99	66 - 142
Toluene	50.0	50.4	101	59 - 139
Chlorobenzene	50.0	50.4	101	60 - 133

^{*=}Outside QC limits due to high concentration in sample

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	94	98	98	101	102	70 - 135
1,2-Dichloroethane-d4	120	124	104	104	105	70 - 135
Toluene-d8	100	99	101	101	99	70 - 135
p-Bromofluorobenzene	101	103	101	97	94	70 - 135

If Sample Result > 4 times Spike Added, then "NC"

806 North Batavia = Orange, CA 92868 Phone: (714) 771-6900 = Fax: (714) 538-1209



Chain of Custody Record

Lab Job No. 261750

	CUST	OMER INFO	DRMA	TION				PROJEC	T INFORMATION						F	REQU	IREC	TUR	N AF	OUN	IT QV	ME: Stand	dard:	
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806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1 Client: TOC T Date Received: 9-20-60 Sampler's Name:	(06	?	
Client: Project: 70 C # Date Received: 9-20-60 Sampler's Name:		<u>) </u>	
Date Received: 4-20-60 Sampler's Name:	N و	Ö	
Sample(s) received in cooler: No (Skip Section 2)			
Shipping Information:	,		
Section 2	_	•	
Was the cooler packed with: Ice Ice Packs Bubble Wrap	St	yrofoan	1
Paper None Other			
Cooler or box temperature:			
(Acceptance range is 2 to 6 Deg. C.)			
			
Section 3	YES	NO	N/A
Was a COC received?	X		
Is it properly completed? (IDs, sampling date and time, signature, test)	く		
Were custody seals present?		1	
If Yes – were they intact?			4
Were all samples sealed in plastic bags?	X		
Did all samples arrive intact? If no, indicate below.	X		
Did all bottle labels agree with COC? (ID, dates and times)	X		
Were correct containers used for the tests required?	4		
Was a sufficient amount of sample sent for tests indicated?	X		
Was there headspace in VOA vials?		'	
Were the containers labeled with correct preservatives?	*		
Was total residual chlorine measured (Fish Bioassay samples only)? *		<u> </u>	
*: If the answer is no, please inform Fish Bioassay Dept. immediately.			
			
Section 4			
Explanations/Comments			
Section 5 Was Project Manager notified of discrepancies: Y / N/A N/A			
Was Project Manager notified of discrepancies: Y / N/A			
1 20	-11)		
Completed By: Date: 9-20"	U		



FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST 261792

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

09/24/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

09/21/2010

PROJECT

Station #063

6125 Telegraph Ave., Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

> Order No. 1112038

Client Sample Identification

MW-4

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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Order #: 1112038

Client: Thrifty Oil Company

Matrix: AIR

Client Sample ID: MW-4

Date Sampled: 09/19/2010 Time Sampled: 10:15

Sampled By:

Analyte Result DF DLR Units Date/Analyst

8260B Volatile Organics (BTEX) in Air

Benzene	ND	100	100.0	Vppb	09/22/10	NZ
Ethylbenzene	6540	100	100.0	Vppb	09/22/10	NZ
m,p-Xylene	1740	200	200.0	Vppb	09/22/10	NZ
Methyl t- butyl ether (MTBE)	ND	100	100.0	Vppb	09/22/10	NZ
o-Xylene	319	100	100.0	Vppb	09/22/10	NZ
Toluene	ND	100	100.0	Vppb	09/22/10	NZ
Diisopropyl Ether	ND	200-	200:0	Vppb	09/22/10	ΝZ
Ethyl tert-Butyl Ether	ND	200	200.0	Vppb	09/22/10	NZ
tert-Amyl Methyl Ether	ND	200	200.0	Vppb	09/22/10	NZ
tert-Butanol	ND	200	200.0	Vppb	09/22/10	NZ

8015B - Gasoline in Air - (Vppm & ug/L)

Gasoline	1720	25	125.0	Vppm	09/21/10	SW
Gasoline	7030	25	552.5	ug/L	09/21/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

Lab Job No.	261	792
Рапе	l of	τ -

	CUSTOMER INFORMA	ΠΟΝ		PROJEC	T INFORMATION						REC	QUIRE	D TUR	N ARC	NUC	D TII	ME: Stan	dard:		
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FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

261793

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

09/27/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

09/21/2010

PROJECT

Station #063

6125 Telegraph Ave., Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

> Order No. 1112042 1112043

Client Sample Identification

TOC #063 MW-4

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Edward S. Behare,

Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING Chemical Microbiological Environmental

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1112042

Client Sample ID: TOC #063 MW-4

Matrix: WATER

Date Sampled: 09/19/2010 Time Sampled: 10:30

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	09/22/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	09/22/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	09/22/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	09/22/10 RP
Methyl-tert-butylether (MTBE)	50	1.0	1	0.19 ug/L	09/22/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	09/22/10 RP
Tertiary butyl alcohol (TBA)	360	1.0	10	5.2 ug/L	09/22/10 RP
Toluene	ND	1.0	5	0.24 ug/L	09/22/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	09/22/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	93	•		%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	118			%	70 - 135
Surr3 - Toluene-d8	100			%	70 - 135
Surr4 - p-Bromofluorobenzene	105			%	70 - 135
8015B - Gasoline					
Gasoline	184	1.0	50	6.6 ug/L	09/22/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	124			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



Order #: 1112043 Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	09/22/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	09/22/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	09/22/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	09/22/10 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	09/22/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	09/22/10 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	09/22/10 RP
Toluene	ND	1.0	5	0.24 ug/L	09/22/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	09/22/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	97			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	127			%	70 - 135
Surr3 - Toluene-d8	101			%	70 - 135
Surr4 - p-Bromofluorobenzene	99			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1.0	50	6.6 ug/L	09/22/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	80	· · · · · · · · · · · · · · · · · · ·		%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES LCS REPORT FORM

QC Sample:

G1-LCS&LCSD

Matrix:

WATER

Prep. Date:

September 22, 2010

Analysis Date

9/22/10-9/23/10

Lab ID#'s in Batch: 261748, 261703, 261750, 261793, 261662, 261785.

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
ТРН	8015M-G	ND	500	480	454	96	91	6

ND = Not Detected LCS Result = Lab Control Sample Result %REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130 $RPD\ LIMITS = 30$

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	81
LCS	94
LCSD	95

 $BFB = p ext{-}Bromofluorobenzene$

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: MS/MSD Water Sample

261786-022

Date Prepared: September 21, 2010 Date Analyzed: 9/21-9/22/2010

Sample Matrix: Water Units: µg/L

Lab ID#'s in Batch: 261786, 261737, 261688, 261793, 261742

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	56.0	56.4	112	113	1	22	59 - 172
мтве	0.00	50.0	53.6	55.6	107	111	4	24	62 - 137
Benzene	0.00	50.0	49.7	51.4	99	103	3	24	62 - 137
Trichloroethene	0.00	50.0	47.3	48.2	95	96	2	21	66 - 142
Toluene	0.00	50.0	48.4	50.6	97	101	4	21	59 - 139
Chlorobenzene	0.00	50.0	49.6	52.2	99	104	5	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	56.5	113	59 - 172
мтве	50.0	55.3	111	62 - 137
Benzene	50.0	49.6	99	62 - 137
Trichloroethene	50.0	46.9	94	66 - 142
Toluene	50.0	49.4	99	59 - 139
Chlorobenzene	50.0	49.7	99	60 - 133

^{*=}Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	97	98	101	101	70 - 135
1,2-Dichloroethane-d4	120	104	103	102	70 - 135
Toluene-d8	98	97	100	99	70 - 135
p-Bromofluorobenzene	99	100	96	95	70 - 135

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: MS/MSD Water Sample

261850-298

Date Prepared: September 22, 2010

Date Analyzed: 9/22-9/23/10 Sample Matrix: Water

Units: μg/L

Lab ID#'s in Batch: 261503, 261793, 261737, 261850, 261931, 261778, 261779, 261780, 261855, 261849, 261735

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	58.0	61.9	116	124	7	22	59 - 172
мтве	0.00	50.0	58.1	60.0	116	120	3	24	62 - 137
Benzene	0.00	50.0	51.3	51.7	103	103	1	24	62 - 137
Trichloroethene	0.00	50.0	46.2	48.4	92	97	5	21	66 - 142
Toluene	0.00	50.0	48.5	49.6	97	99	2	21	59 - 139
Chlorobenzene	0.00	50.0	50.4	50.5	101	101	0	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	56.2	112	59 - 172
мтве	50.0	55.8	112	62 - 137
Benzene	50.0	50.2	100	62 - 137
Trichloroethene	50.0	48.8	98	66 - 142
Toluene	50.0	50.5	101	59 - 139
Chlorobenzene	50.0	50.3	101	60 - 133

^{*=}Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	97	100	103	102	101	70 - 135
1,2-Dichloroethane-d4	127	126	107	108	104	70 - 135
Toluene-d8	101	101	97	98	101	70 - 135
p-Bromofluorobenzene	99	101	98	95	101	70 - 135

ASSOCIATED LABORATORIES 806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

CUSTOMER INFORMATION	PROJECT INFORMATION	REQUIRED TURN AROUND TIME: Standard:
COMPANY THRIFM OIL CO	PROJECT NAME:	72 Hours: 48 Hours: 24 Hours:
SEND REPORT TO: SIMUN PRECURTIHA	NUMBER: 70 C # 063	
EMAIL	ADDRESS: 6125 TELEGRAPH	15/ L/ /u/ / /
ADDRESS:	OAKLAND, CA	
	P.O. #:	
PHONE:	SAMPLED BY:	
Sample ID Date	Time Matrix Container Number/Size Pres.	Test Instructions & Comments
1 MW-4 9/19/10	0 1030 W 3 VOA HCI	X X
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T. (A) (Complete Mathematical M	od of Shipment:	Preservative: $1 = Ice \ 2 = HCI \ 3 = HNO_3 \ 4 = H_2SO_4 \ 5 = NaOH \ 6 = Other$
Total No. of Samples: Method Relinquished by 1. Received By:		ceived By: 2. Relinquished by 3. Received By: 3.
Signature: Signature Signature . &	Signature: Signature:	nature: Signature: Signature:
Printed Name: Printed Name:		nted Name: Printed Name: Printed Name:
Date: -9/21/10 Time: D3 Date: 9/21/10	Time: Date: Time: Da	te: Time: Date: Time: Date: Time:



806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1 Client: Date Received: Sample(s) received in cooler: Shipping Information: Project: Sampler's Name: Ye No (Skip Section 2)	700 s N		<u> </u>
Section 2	St	yrofoan	a —
			
Section 3	YES	NO	N/A
Was a COC received?	>		
Is it properly completed? (IDs, sampling date and time, signature, test)	\searrow		
Were custody seals present?			X
If Yes – were they intact?			X
Were all samples sealed in plastic bags?	\times		
Did all samples arrive intact? If no, indicate below.	\succ		
Did all bottle labels agree with COC? (ID, dates and times)	\searrow		
Were correct containers used for the tests required?	\searrow		
Was a sufficient amount of sample sent for tests indicated?	\searrow		
Was there headspace in VOA vials?		X	
Were the containers labeled with correct preservatives?	\times		
Was total residual chlorine measured (Fish Bioassay samples only)? *	,		\times
*: If the answer is no, please inform Fish Bioassay Dept. immediately.			,
Section 4 Explanations/Comments			
Section 5 Was Project Manager notified of discrepancies: Y / N N/A			
Completed By: M. E. Date: 9-2	1-1	0	



FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST 262158

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED 09/29/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

09/27/2010

PROJECT

Station #063

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

1113685

Client Sample Identification

TOC #063 MW-4

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.

Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves. TESTING & CONSULTING Chemical Microbiological Environmental Order #: 1113685

Client: Thrifty Oil Company Matrix: AIR Client Sample ID: TOC #063 MW-4

Date Sampled: 09/25/2010 Time Sampled: 08:00

Sampled By:

Result DF DLR Units Date/Analyst Analyte

8260B Volatile Organics (BTEX) in Air

Benzene	700	25	25.0	Vppb	09/29/10	NZ
Ethylbenzene	3840	25	25.0	Vppb	09/29/10	NZ
m,p-Xylene	1340	50	50.0	Vppb	09/29/10	NZ
Methyl t- butyl ether (MTBE)	90	25	25.0	Vppb	09/29/10	NZ
o-Xylene	275	25	25.0	Vppb	09/29/10	NZ
Toluene	309	25	25.0	Vppb	09/29/10	NZ
Diisopropyl Ether	ND	50	50:0	Vppb	09/29/10-	-NZ
Ethyl tert-Butyl Ether	ND	50	50.0	Vppb	09/29/10	NZ
tert-Amyl Methyl Ether	ND	50	50.0	Vppb	09/29/10	ΝZ
tert-Butanol	289	50	50.0	Vppb	09/29/10	NZ

8015B - Gasoline in Air - (Vppm & ug/L)

Gasoline	708	13	62.5	Vppm	09/27/10	SW
Gasoline	2890	13	276.25	ug/L	09/27/10	sw

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES QA REPORT FORM

Method:

8260 AIR

QC Sample:

262158-685

Matrix:

Air

Analysis Date:

9/28/2010 - 9/29/2010

Lab ID#'s in Batch:

262068, 262071, 262158, 262193, 262239

REPORTING UNITS =

Vppb

SAMPLE DUPLICATE RESULT

	Sample	Sample	0/PDD
Test	Result	Duplicate	%RPD
Toluene	309	288	7
Ethyl benzene	3,836	3,737	3
m,p-Xylenes	1,340	1,453	8
o-Xylene	275	250	10

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

ASSOCIATED LABORATORIES **QA REPORT FORM**

Method:

TO-15

QC Sample:

262061-316

Matrix:

AIR

Prep. Date:

September 27, 2010

Analysis Date:

September 27, 2010

Lab ID#'s in Batch:

262111, 262158, 262142, 262061, 262035, 262101

REPORTING UNITS =

Vppb

SAMPLE DUPLICATE RESULT

		Sample	Sample	
Test	Method	Result	Duplicate	%RPD
Gas	8015M	1,071.49	991.82	8
Benzene	8021B	12.14	11.47	6
Toluene	8021B	64.02	60.41	6
Ethylbenzene	8021B	10.97	10.39	5
Xylenes	8021B	74.05	69.64	6

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

Lab Job No. 262158

	CUSTOMER INFORMA	TION		PROJEC	T INFORMATION								TURN				lard:	
COMPANY	THRIFM	011-00	PROJECT NAM	PROJECT NAME:					72 Hours: 48 Hours: 24 Hours:									
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Signature:	sellhere "	Signature:		Signature	e:		Signa	ature:					Signat	ture:			Signature:	
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Date 1/27	/10 Time:	Date: 9-27-10	Time:	Date:	Time:		Date:				Time:		Date:			Time:	Date:	īme:



FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST 262159

ATTN: Jack Kosztowny

REPORTED

09/29/2010

13116 Imperial Hwy.

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

09/27/2010

PROJECT

Station #063

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

> Order No. 1113686 1113687

Client Sample Identification TOC #063 MW-4 Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D. Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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Order #:

Matrix: WATER

1113686

Client Sample ID: TOC #063 MW-4

Date Sampled: 09/25/2010 Time Sampled: 08:45

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	09/29/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	09/29/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	09/29/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	09/29/10 RP
Methyl-tert-butylether (MTBE)	63	1.0	1	0.19 ug/L	09/29/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	09/29/10 RP
Tertiary butyl alcohol (TBA)	370	1.0	10	5.2 ug/L	09/29/10 RP
Toluene	ND	1.0	5	0.24 ug/L	09/29/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	09/29/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	96			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	122			%	70 - 135
Surr3 - Toluene-d8	105			%	70 - 135
Surr4 - p-Bromofluorobenzene	103			%	70 - 135
8015B - Gasoline					
Gasoline	94	1.0	50	6.6 ug/L	09/28/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	103			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



1113687

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	09/29/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	09/29/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	09/29/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	09/29/10 RP
Methyl-tert-butylether (MTBE)	ND	1.0	1	0.19 ug/L	09/29/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	09/29/10 RP
Tertiary butyl alcohol (TBA)	ND	1.0	10	5.2 ug/L	09/29/10 RP
Toluene	ND	1.0	5	0.24 ug/L	09/29/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	09/29/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	95			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	118			%	70 - 135
Surr3 - Toluene-d8	104			%	70 - 135
Surr4 - p-Bromofluorobenzene	102			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1.0	50	6.6 ug/L	09/28/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	105			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

Lab Job No.				
Page	V	of	1	

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FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

262513

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

10/06/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

10/04/2010

PROJECT

Station #063

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

1115081

Client Sample Identification

TOC #063 MW-4

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING Chemical Microbiological Environmental

Order #: 1115081

Matrix: AIR

Client: Thrifty Oil Company Client Sample ID: TOC #063 MW-4

Date Sampled: 10/02/2010 Time Sampled: 16:00

Sampled By:

Analyte Result DF DLR Units Date/Analyst

8260B Volatile Organics (BTEX) in Air

Benzene	253	50	50.0	Vppb	10/05/10	NZ
Ethylbenzene	2850	50	50.0	Vppb	10/05/10	NZ
m,p-Xylene	2920	100	100.0	Vppb	10/05/10	ΝZ
Methyl t- butyl ether (MTBE)	116	50	50.0	Vppb	10/05/10	NZ
o-Xylene	1010	50	50.0	Vppb	10/05/10	NZ
Toluene	334	50	50.0	Vppb	10/05/10	NZ
Diisopropyl-Ether	ND	100	100.0	Vppb-	10/05/10-	NZ
Ethyl tert-Butyl Ether	DN	100	100.0	Vppb	10/05/10	NZ
tert-Amyl Methyl Ether	ND	100	100.0	Vppb	10/05/10	NZ
tert-Butanol	ND	100	100.0	Vppb	10/05/10	ΝZ

8015B - Gasoline in Air - (Vppm & ug/L)

Gasoline	397	5	25.0	Vppm	10/04/10	SW
Gasoline	1620	5	110.5	ug/L	10/04/10	sw

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES QA REPORT FORM

QC Sample:

262513-081

Matrix:

AIR

Prep. Date:

October 4, 2010

Analysis Date:

October 4, 2010

Lab ID#'s in Batch:

262515, 262513

REPORTING UNITS =

Vppm

SAMPLE DUPLICATE RESULT

		Sample	Sample	
Test	Method	Result	Duplicate	%RPD
Gas	8015M	396.63	400.05	1

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

 $RPD\ LIMITS = 20\%$

ASSOCIATED LABORATORIES QA REPORT FORM

Method:

8260 AIR

QC Sample:

262513-081

Matrix:

Air

Analysis Date:

10/4/2010 - 10/5/2010

Lab ID#'s in Batch:

262068, 262513, 262515

REPORTING UNITS =

Vppb

SAMPLE DUPLICATE RESULT

	Sample	Sample	
Test	Result	Duplicate	%RPD
Toluene	334	322	4
Ethyl benzene	2,849	2,755	3
m,p-Xylenes	2,918	2,836	3
o-Xylene	1,007	984	2

ND = "U" - Not Detected

 $RPD = Relative\ Percent\ Difference\ of\ Sample\ Result\ and\ Sample\ Duplicate$

RPD LIMITS = 20%

10/06/2010

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

Lab Job No. 262513

<u>.</u>	CUSTOMER INFORM	IATION		PROJEC	T INFORMATION											dard:	
COMPANY	THRIFTY	OIL CO	PROJECT NAM							72 H	lours	: <u> </u>	<u> </u>	8 Hou	irs:	24 Hours:	
SEND REPOR	THRIFTY TTO: SIMON T	REGURTHA	NUMBER:	TO	+063					, ,			, ,	 ,			
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FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

262514

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

10/11/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

10/04/2010

PROJECT

Station #063

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

> Order No. 1115082

1115083

Client Sample Identification

TOC #063 MW-4

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING Chemical Microbiological Environmental Order #:

1115082

Client Sample ID: TOC #063 MW-4

Matrix: WATER

Date Sampled: 10/02/2010 Time Sampled: 16:10

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
Analyte	Nosuit				<i>D</i> 410,7 11,41,7 01
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	10/08/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	10/08/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	10/08/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	10/08/10 RP
Methyl-tert-butylether (MTBE)	68	1.0	1	0.19 ug/L	10/08/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	10/08/10 RP
Tertiary butyl alcohol (TBA)	163	1.0	10	5.2 ug/L	10/08/10 RP
Toluene	ND	1.0	5	0.24 ug/L	10/08/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	10/08/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	95			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	119			%	70 - 135
Surr3 - Toluene-d8	100			%	70 - 135
Surr4 - p-Bromofluorobenzene	98			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1.0	50	6.6 ug/L	10/05/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	98			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



Client Sample ID: Laboratory Method Blank 1115083

Matrix: WATER

Result	DF	PQL	MDL Units	Date/Analyst
ND	1.0	1	0.18 ug/L	10/08/10 RP
ND	1.0	1.0	0.20 ug/L	10/08/10 RP
ND	1.0	5	0.21 ug/L	10/08/10 RP
ND	1.0	1.0		10/08/10 RP
ND	1.0	1		10/08/10 RP
ND	1.0			10/08/10 RP
ND	1.0	10	5.2 ug/L	10/08/10 RP
ND	1.0	5		10/08/10 RP
ND	1.0	5	0.45 ug/L	10/08/10 RP
			Units	Control Limits
95			%	70 - 135
118			%	70 - 135
101			%	70 - 135
93			%	70 - 135
ND	1.0	50	6.6 ug/L	10/05/10 LT
			Units	Control Limits
92			%	60 - 140
	ND ND ND ND ND ND ND ND ND ND ND ND ND	ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0	ND 1.0 1 ND 1.0 1.0 ND 1.0 5 ND 1.0 5 ND 1.0 1.0 ND 1.0 1.0 ND 1.0 1 ND 1.0 10 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5	ND 1.0 1 0.18 ug/L ND 1.0 1.0 0.20 ug/L ND 1.0 5 0.21 ug/L ND 1.0 1.0 0.23 ug/L ND 1.0 1 0.19 ug/L ND 1.0 1.0 0.19 ug/L ND 1.0 10 5.2 ug/L ND 1.0 5 0.24 ug/L ND 1.0 5 0.45 ug/L Units 95 % 118 % 101 % 93 % ND 1.0 50 6.6 ug/L Units

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES LCS REPORT FORM

QC Sample:

G5-LCS&LCSD

Matrix:

WATER

Prep. Date:

October 5, 2010

Analysis Date

10/05/10-10/06/10

Lab ID#'s in Batch: 262470, 262507, 262514, 262516

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
ТРН	8015M-G	ND	500	427	429	85	86	0

ND = Not Detected LCS Result = Lab Control Sample Result %REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate $RPD = Relative \ Percent \ Difference \ of LCS \ Spike \ and \ LCS \ Spike \ Duplicate$

 $%REC\ LIMITS = 70 - 130$ RPD LIMITS = 30

SURROGATE RECOVERY

Sample No. QC Limit	BFB 60-140
Method Blank	92
LCS	94
LCSD	95

BFB = p-Bromofluorobenzene

QA / QC EPA Methods 8260, 624, & 524.2 GCMS # 6

Sample ID: MS/MSD Water Sample 262224-006

Date Prepared: October 6, 2010 Date Analyzed: 10/6-10/7/10 Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 262514, 262398, 262224, 262146, 262402, 262634, 262710, 262634, 262683, 262372, 262503

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	60.8	57.9	122	116	5	22	59 - 172
мтве	0.00	50.0	55.6	56.2	111	112	1	24	62 - 137
Benzene	0.00	50.0	57.1	55.9	114	112	2	24	62 - 137
Trichloroethene	0.00	50.0	55.8	54.1	112	108	3	21	66 - 142
Toluene	0.00	50.0	56.5	55.7	113	111	1	21	59 - 139
Chlorobenzene	0.00	50.0	51.8	52.5	104	105	1	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	49.9	100	59 - 172
мтве	50.0	48.8	98	62 - 137
Benzene	50.0	48.4	97	62 - 137
Trichloroethene	50.0	50.0	100	66 - 142
Toluene	50.0	51.5	103	59 - 139
Chlorobenzene	50.0	50.8	102	60 - 133

^{*=}Outside QC limits due to high concentration in sample If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	101	99	100	101	99	70 - 135
1,2-Dichloroethane-d4	115	109	98	99	90	70 - 135
Toluene-d8	99	103	99	100	103	70 - 135
p-Bromofluorobenzene	106	104	100	102	101	70 - 135

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: MS/MSD Water Sample

262149-657

Date Prepared: October 7, 2010 Date Analyzed: 10/7-10/8/10 Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 262149, 262224, 262402, 262514, 262503, 262603, 262595

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	53.3	52.8	107	106	1	22	59 - 172
MTBE	0.00	50.0	56.6	58.2	113	116	3	24	62 - 137
Benzene	0.00	50.0	50.9	50.3	102	101	1	24	62 - 137
Trichloroethene	0.00	50.0	46.9	47.3	94	95	1	21	66 - 142
Toluene	0.00	50.0	50.2	50.0	100	100	0	21	59 - 139
Chlorobenzene	0.00	50.0	49.8	50.6	100	101	2	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	53.2	106	59 - 172
MTBE	50.0	56.2	112	62 - 137
Benzene	50.0	49.7	99	62 - 137
Trichloroethene	50.0	48.4	97	66 - 142
Toluene	50.0	50.0	100	59 - 139
Chlorobenzene	50.0	49.8	100	60 - 133

^{*=}Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

Compound	MB 1 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	95	98	97	98	70 - 135
1,2-Dichloroethane-d4	118	104	106	102	70 - 135
Toluene-d8	101	98	101	99	70 - 135
p-Bromofluorobenzene	93	95	94	96	70 - 135

806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 538-1209

Chain of Custody Record

ab Job No. 2625t W

	CUSTOMER INFOR	MATION			PROJEC	T INFORMATION]			F	REQU	IIREC	TUR	N AR	OUN	ID TI	ME: Stan	dard:		
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806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1					
Client: T.O.C.	Project:	Toc#0	<u>e3</u>		3
Date Received: 10-04-10	· Sampler's N	lame: Yes	No	O ALA	
	No (Skip Section	on 2)		(1)	/
Shipping Information:					
· .					
Section 2					
	acks Bu		Sty	yrofoam	l
Paper Non	e Otl	1er			
Cooler or box temperature: 2.0°C					
(Acceptance range is 2 to 6 Deg. C.)					
Section 3			YES ,	NO	N/A
Was a COC received?			1		
Is it properly completed? (IDs, sampling date and tir	me, signature,	test)	V	1	
Were custody seals present?					
If Yes – were they intact?					
Were all samples sealed in plastic bags?			\sqrt{c}		
Did all samples arrive intact? If no, indicate below.			\sqrt{f}		
Did all bottle labels agree with COC? (ID, dates and	times)		√ <u>/</u>		
Were correct containers used for the tests required?					
Was a sufficient amount of sample sent for tests indi	cated?		√		
Was there headspace in VOA vials?			/	✓	
Were the containers labeled with correct preservative			√		
Was total residual chlorine measured (Fish Bioassay	samples only)? *			V
*: If the answer is no, please inform Fish Bioassay D	ept. immediat	ely.			
Section 4			······································		
Explanations/Comments		•			
					
Section 5					
Was Project Manager notified of discrepancies: Y	/ N (N/A)				
Completed By: D	ate:	0-04-1	0		·



FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

262978

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

10/13/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

10/08/2010

PROJECT Station #063

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

Client Sample Identification TOC #063 MW-4

1116917

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING Chemical Microbiological Environmental Order #: 1116917

Client: Thrifty Oil Company
Client Sample ID: TOC #063 MW-4

Matrix: AIR

Date Sampled: 10/07/2010

Time Sampled: 14:15

Analyte

Sampled By:

Result DF DLR Units Date/Analyst

8260B Volatile Organics (BTEX) in Air

Benzene	ND	25	25.0	Vppb	10/12/10	NZ
Ethylbenzene	1110	25	25.0	Vppb	10/12/10	NZ
m,p-Xylene	1150	50	50.0	Vppb	10/12/10	NZ
Methyl t- butyl ether (MTBE)	78	25	25.0	Vppb	10/12/10	NZ
o-Xylene	311	25	25.0	Vppb	10/12/10	NZ
Toluene	ND	25	25.0	Vppb	10/12/10	NZ
Diisopropyl Ether	ND	50	50.0	Vppb	10/12/10	-NZ-
Ethyl tert-Butyl Ether	ND	50	50.0	Vppb	10/12/10	NZ
tert-Amyl Methyl Ether	ND	50	50.0	Vppb	10/12/10	NZ
tert-Butanol	ND	50	50.0	Vppb	10/12/10	ΝZ

8015B - Gasoline in Air - (Vppm & ug/L)

Gasoline	376	10	50.0	Vppm	10/08/10	SW
Gasoline	1540	10	221.0	ug/L	10/08/10	SW

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES QA REPORT FORM

QC Sample:

262872-639

Matrix:

AIR

Prep. Date:

October 8, 2010

Analysis Date:

October 8, 2010

Lab ID#'s in Batch:

262873, 262871, 262812, 262872, 262849, 262978

REPORTING UNITS =

Vppm

SAMPLE DUPLICATE RESULT

		Sample	Sample	
Test	Method	Result	Duplicate	%RPD
Gas	8015M	100.33	107.01	6
Benzene	8021B	ND	ND	0
Toluene	8021B	0.58	0.60	3
Ethylbenzene	8021B	0.67	0.71	6
Xylenes	8021B	9.67	10.25	6

ND = "U" - Not Detected

 $RPD = Relative\ Percent\ Difference\ of\ Sample\ Result\ and\ Sample\ Duplicate$

 $RPD\ LIMITS = 20\%$

QA REPORT FORM

Method:

8260 AIR

QC Sample:

262873-643

Matrix:

Air

Analysis Date:

10/9/2010 - 10/9/2010

Lab ID#'s in Batch:

262849, 262873, 262978,

REPORTING UNITS =

Vppb

SAMPLE DUPLICATE RESULT

	Sample	Sample	
Test	Result	Duplicate	%RPD
Toluene	101	97	4
Ethyl benzene	907	957	5
m,p-Xylenes	17,436	18,191	4
o-Xylene	11,612	12,265	5

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%

10/13/2010 8260 AIR 1009

806 North Batavia * Orange, CA 92868 Phone: (714) 771-6900 * Fax: (714) 538-1209

Chain of Custody Record

Lab Job No. Page .

CUSTOMER INFORMATION PROJECT INFORMATION												TURN					dard:		_		
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FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

263015

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

10/13/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

10/08/2010

PROJECT :

Station #063

6125 Telegraph, Oakland

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No. 1117051 1117052 **Client Sample Identification**

TOC #063 MW-4

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behard Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental Order #:

1117051

Client Sample ID: TOC #063 MW-4

Matrix: WATER

Date Sampled: 10/07/2010 Time Sampled: 14:45

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	10/13/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	10/13/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	10/13/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	10/13/10 RP
Methyl-tert-butylether (MTBE)	67	1.0	1	0.19 ug/L	10/13/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	10/13/10 RP
Tertiary butyl alcohol (TBA)	242	1.0	10	5.2 ug/L	10/13/10 RP
Toluene	ND	1.0	5	0.24 ug/L	10/13/10 RP
Xylenes, total	2.0J	1.0	5	0.45 ug/L	10/13/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	91			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	110			%	70 - 135
Surr3 - Toluene-d8	97			%	70 - 135
Surr4 - p-Bromofluorobenzene	96			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1.0	50	6.6 ug/L	10/12/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	108	 		%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



Order #: 1117052 Client Sample ID: Laboratory Method Blank

Matrix: WATER

Result	DF	PQL	MDL Units	Date/Analyst
ND	1.0	1	0.18 ug/L	10/13/10 RP
ND	1.0	1.0	0.20 ug/L	10/13/10 RP
ND	1.0	5	0.21 ug/L	10/13/10 RP
ND	1.0	1.0	0.23 ug/L	10/13/10 RP
ND	1.0	1	0.19 ug/L	10/13/10 RP
ND	1.0	1.0	0.19 ug/L	10/13/10 RP
ND	1.0	10	5.2 ug/L	10/13/10 RP
ND	1.0	5	0.24 ug/L	10/13/10 RP
ND	1.0	5	0.45 ug/L	10/13/10 RP
			Units	Control Limits
91			%	70 - 135
116			%	70 - 135
98			%	70 - 135
97			%	70 - 135
ND	1.0	50	6.6 ug/L	10/11/10 LT
			Units	Control Limits
104			%	60 - 140
	ND ND ND ND ND ND ND ND ND ND ND	ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0 ND 1.0	ND 1.0 1 ND 1.0 1.0 ND 1.0 5 ND 1.0 5 ND 1.0 1.0 ND 1.0 1.0 ND 1.0 1.0 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5 ND 1.0 5	ND 1.0 1 0.18 ug/L ND 1.0 1.0 0.20 ug/L ND 1.0 5 0.21 ug/L ND 1.0 1.0 0.23 ug/L ND 1.0 1 0.19 ug/L ND 1.0 1.0 0.19 ug/L ND 1.0 10 5.2 ug/L ND 1.0 5 0.24 ug/L ND 1.0 5 0.45 ug/L Units 91 % 98 % 97 % ND 1.0 50 6.6 ug/L Units

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES LCS REPORT FORM

QC Sample:

G5-LCS&LCSD

Matrix:

WATER

Prep. Date:

October 11, 2010

Analysis Date

10/11/10-10/12/10

Lab ID#'s in Batch: 262754, 262863, 263015, 263019, 263020, 263021, 263069.

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = $\mu g/L$

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Sok. Dup	%Rec LCS	%Rec LCSD	RPD
ТРН	8015M-G	ND	500	462	474	92	95	3

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130 $RPD\ LIMITS = 30$

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	104
LCS	103
LCSD	104

BFB = p-Bromofluorobenzene

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: MS/MSD Water Sample 263069-242

Date Prepared: October 11, 2010 Date Analyzed: October 11, 2010

Sample Matrix: Water Units: µg/L

Lab ID#'s in Batch: 262503, 263069, 262971, 263015, 262389, 262967

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	57.6	54.4	115	109	6	22	59 - 172
МТВЕ	0.00	50.0	56.9	54.7	114	109	4	24	62 - 137
Benzene	0.00	50.0	49.3	50.2	99	100	2	24-	62 - 1:37-
Trichloroethene	0.00	50.0	46.9	46.9	94	94	0	21	66 - 142
Toluene	0.00	50.0	47.6	49.6	95	99	4	21	59 - 139
Chlorobenzene	0.00	50.0	49.0	50.5	98	101	3	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	50.0	100	59 - 172
MTBE	50.0	51.4	103	62 - 137
Benzene	50.0	48.5	97	62 - 137
Trichloroethene	50.0	42.9	86	66 - 142
Toluene	50.0	46.8	94	59 - 139
Chlorobenzene	50.0	47.9	96	60 - 133

^{*=}Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

Surrogate Recovery

	MB 1	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Compound	% Rec	76 Rec	78 Nec	70 TCC	70 1100
Dibromofluoromethane	92	102	99	99	70 - 135
1,2-Dichloroethane-d4	112	102	103	105	70 - 135
Toluene-d8	98	98	99	97	70 - 135
p-Bromofluorobenzene	98	88	90	95	70 - 135

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209



Chain of Custody Record

Lab Job No. 263015
Page of _____

	PROJECT INFORMATION								REQUIRED TURN AROUND TIME: Standard:						_			
COMPANY	THRIPTY OIL	CO	PROJECT NAM	ΛE:	700年063	>					72 H	lours:	<u>×</u>		48 H	ours:	24 Hours:	
SEND REPOR	TTO:SIMON T	REGURTHA	NUMBER:															
EMAIL:			ADDRESS: 6125 TELEGRAPH OAKLAND, CA				\		To anomy (The state of the stat	/ /	′ /		/ /	/ /				
ADDRESS:									<i>\$</i>	/	//	/ /				/ / /		
			P.O. #: SAMPLED BY:					/ 🔅	5/ /.	Ś		$\sqrt{8}$	* /	/ /	/ /			
PHONE:			0.1111 12331							7	1/2	7.33	' /			/ /		
	Sample ID	Date	Time	Matrix	Container Number/Size	Pre	s.	₹/ /		<i>}</i>		Z	/ /	/_/		Test In	structions & Commen	ıts
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Total No	. of Samples:	Metho	d of Shipme	ent:			Pı	rese	rvativ	e:	1= lce	2 =	-HCI	3 =	HNO	$4 = H_2SO_4$	5 = NaOH 6 = Other	r
Relinquish	SHENDI	Received By:				Recei								3.	Received By:	3.		
Signature:	When	Signature:	bel	Signature			Signat	nature:				Signatu					Signature:	
Printed Nar	ne:	Printed Name:					Printe	d Na	me:		····		Printed Name:				Printed Name:	
Date:	18/10 Time: 155	ne: Date: Time: Date: Time:			Date:	ate: Time: Date: Time: Date:					Date: Time	e:						



806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1 Client: Date Received: Sample(s) received in cooler: Shipping Information: Project: Sampler's Name: No (Skip Section 2)	063		
Section 2	St	vrofoar	,
Paper None Other		, 1010411	•
Cooler or box temperature.			_
Cooler of box temperature.			
(Acceptance range is 2 to 6 Deg. C.)			
	VEC	LNO	NI/A
Section 3	YES	NO	N/A
Was a COC received?	$ \times$		ļ
Is it properly completed? (IDs, sampling date and time, signature, test)	1 /2		
Were custody seals present?			X
If Yes – were they intact?		 	
Were all samples sealed in plastic bags?			
Did all samples arrive intact? If no, indicate below.		 	
Did all bottle labels agree with COC? (ID, dates and times)			
Were correct containers used for the tests required?	X	-	
Was a sufficient amount of sample sent for tests indicated?	<u> </u>	-	
Was there headspace in VOA vials?	<u> </u>		ļ
Were the containers labeled with correct preservatives?		ļ	 _ _ _ _
Was total residual chlorine measured (Fish Bioassay samples only)? *	<u> </u>	<u> </u>	
*: If the answer is no, please inform Fish Bioassay Dept. immediately.			
Section 4			
Explanations/Comments			
Explanations/ comments			
Section 5			
Was Project Manager notified of discrepancies: Y / N N/A			
O A			
Completed By: M. E. Date: 10 8 1	6		



FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

263364

ATTN: Larry Higinbotham

REPORTED

10/18/2010

13116 Imperial Hwy.

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

10/15/2010

PROJECT

Station #063

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No. 1118380 Client Sample Identification
TOC #063 MW-4

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D. Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

1118380 Order #: Matrix: AIR

Client: Thrifty Oil Company

Date Sampled: 10/13/2010 Time Sampled: 09:00

Gasoline

Gasoline

Client Sample ID: TOC #063 MW-4

Sampled By:

Analyte	Result	DF	DLR	Units	Date/An	alys
Volatile Organics (BTEX) in Air						
Benzene	ND	50	50.0	Vppb	10/15/10	NZ
Ethylbenzene	593	50	50.0	Vppb	10/15/10	NZ
m,p-Xylene	825	100	100.0	Vppb	10/15/10	NZ
Methyl t- butyl ether (MTBE)	83	50	50.0	Vppb	10/15/10	NZ
o-Xylene	204	50	50.0	Vppb	10/15/10	NZ
Toluene	ND	50	50.0	Vppb	10/15/10	NZ
Diisopropyl Ether	ND	100	100.0	Vppb	10/15/10	NZ
Ethyl tert-Butyl Ether	ND	100	100.0	Vppb	10/15/10	NZ
tert-Amyl Methyl Ether	ND	100	100.0	Vppb	10/15/10	NZ
tert-Butanol	ND	100	100.0	Vppb	10/15/10	NZ

386

1580

10

10

50.0

221.0

Vppm

ug/L

10/15/10

10/15/10

sw

sw

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



806 North Batavia = Orange, CA 92868 Phone: (714) 771-6900 = Fax: (714) 538-1209



Chain of Custody Record

Lab Job No.		
Page	of	<u></u>

	CUSTOMER INFOR	MATION		PROJEC	T INFORMATION					R	EQUI	RED	TUR	N AR	OUN	ND TI	ME: Stand	dard: X		
СО	MPANY THRIFTY OIL	CO	PROJECT NAI	ME: 7	70年 063						72 Hc	ours:			48	Hou	rs:	24 Hours:	·	
SE	MPANY THRETY OIL NO REPORT TO: SMON TR	JEGURTHA	NUMBER:	j						<u> </u>										
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PH	ONE:		SAMPLED BY:]/s	\$\\ \$\\	10	*	(₹\$	7	/ ,	/	/ ,	/ /			
	Sample ID	Date	Time	Matrix	Container Number/Size	Pres	. AM	*/ /	Legion Constitution of the	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							Test In:	structions & Comm	ents	
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Si	NOR SHOW gnature: Vollheme	Signature:		Signature	e:		Signatu	re:		,			Sign	ature:				Signature:		
P	rinted Name:	Printed Name:	Mextor	Printed N	lame:		Printed i	Name): 				Print	ed Na	me:			Printed Name:		
D	ate: Time:	Date: 0-14-10	Time: (6.4)	Date: Time: Date:				te: Time:						Date: Time: Date: Time					īme:	



FAX 714/538-1209

CLIENT Thrifty Oil Company

(8871)

LAB REQUEST

263367

ATTN: Simon Tregurtha

13116 Imperial Hwy.

REPORTED

10/20/2010

P.O. Box 2128

Santa Fe Springs, CA 90670

RECEIVED

10/14/2010

PROJECT

Station #036

6125 Telegraph, Oakland

SUBMITTER

Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

1118381

1118382

Client Sample Identification

TOC #063 MW-4

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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Client Sample ID: TOC #063 MW-4

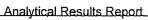
Matrix: WATER

Date Sampled: 10/13/2010 Time Sampled: 09:30

Analyte	Result	DF	PQL	MDL Units	Date/Analyst
8260B BTEX/MTBE					
Benzene	ND	1.0	1	0.18 ug/L	10/16/10 RP
Di-isopropyl ether (DIPE)	ND	1.0	1.0	0.20 ug/L	10/16/10 RP
Ethyl benzene	ND	1.0	5	0.21 ug/L	10/16/10 RP
Ethyl-tertbutylether (ETBE)	ND	1.0	1.0	0.23 ug/L	10/16/10 RP
Methyl-tert-butylether (MTBE)	71	1.0	1	0.19 ug/L	10/16/10 RP
Tert-amylmethylether (TAME)	ND	1.0	1.0	0.19 ug/L	10/16/10 RP
Tertiary butyl alcohol (TBA)	192	1.0	10	5.2 ug/L	10/16/10 RP
Toluene	ND	1.0	5	0.24 ug/L	10/16/10 RP
Xylenes, total	ND	1.0	5	0.45 ug/L	10/16/10 RP
Surrogates				Units	Control Limits
Surr1 - Dibromofluoromethane	92			%	70 - 135
Surr2 - 1,2-Dichloroethane-d4	119			%	70 - 135
Surr3 - Toluene-d8	99			%	70 - 135
Surr4 - p-Bromofluorobenzene	96			%	70 - 135
8015B - Gasoline					
Gasoline	ND	1.0	50	6.6 ug/L	10/16/10 LT
Surrogates				Units	Control Limits
p-Bromofluorobenzene (Sur)	70			%	60 - 140

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor ND = Not detected below indicated MDL, J=Trace







ASSOCIATED LABORATORIES LCS REPORT FORM

QC Sample:

G1-LCS&LCSD

Matrix:

WATER

Prep. Date:

October 16, 2010

Analysis Date

10/16/10-10/17/10

Lab ID#'s in Batch: 263367, 263338, 263341.

LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
ТРН	8015M-G	ND	500	451	436	90	87	3

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS	=	70	-	130
RPD LIMITS =	_	30		

SURROGATE RECOVERY

Sample No.	BFB
QC Limit	60-140
Method Blank	75
LCS	88
LCSD	91

BFB = p-Bromofluorobenzene

QA / QC EPA Methods 8260 - GCMS # 5

Sample ID: MS/MSD Water Sample 2

263197-810

Date Prepared: October 15, 2010 Date Analyzed: October 16, 2010

Sample Matrix: Water Units: µg/L

Lab ID#'s in Batch: 263197, 263341, 263367, 263299, 263321

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	54.4	51.7	109	103	5	22	59 - 172
мтве	0.00	50.0	54.6	53.5	109	107	2	24	62 - 137
Benzene	0.00	50.0	48.2	48.9	96	98	1	24	62 - 137
Trichloroethene	0.00	50.0	47.5	46.7	95	93	2	21	66 - 142
Toluene	0.00	50.0	49.3	48.0	99	96	3	21	59 - 139
Chlorobenzene	0.00	50.0	48.6	48.4	97	97	0	21	60 - 133

Sample ID: LCS

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	46.9	94	59 - 172
мтве	50.0	54.8	110	62 - 137
Benzene	50.0	45.0	90	62 - 137
Trichloroethene	50.0	41.9	84	66 - 142
Toluene	50.0	45.3	91	59 - 139
Chlorobenzene	50.0	47.2	94	60 - 133

^{*=}Outside QC limits due to high concentration in sample

Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	92	90	99	99	99	70 - 135
1,2-Dichloroethane-d4	115	120	104	106	105	70 - 135
Toluene-d8	98	97	101	101	98	70 - 135
p-Bromofluorobenzene	96	92	94	94	92	70 - 135

If Sample Result > 4 times Spike Added, then "NC"



Chain of Custody Record

	CUSTOMER INFOR	MATION		PROJEC	T INFORMATION			1			F	REQU	IREI	D TUP	RN AI	ROU	ND T	ME: Star	ndard: 🔀		
СО	MPANY THRIFTY OU	Ca	PROJECT NA	ME:	70C# 063	***	•	1				72 H							_24 Hours:		
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PHO	ONE:		SAMPLED BY:		- White-	,		1/3	3 /·	<i>P</i>	>	/Š	Ž.\$)	Ι.	/	/ .	/ /			
	Sample ID	Date	Time	Matrix	Container Number/Size	Pr	es.	AMALYON	/\$									Test In	estructions & (Comments	•
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806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1 + C Project: #0	(03		
Choit.			
Date Received: (0 14 U Sampler's Name: Fre	N (S	O	
Sample(s) received in cooler: (res) No (Skip Section 2)			
Shipping Information:			
			
Section 2	0.	c	
Was the cooler packed with: Ice	St	yrotoar	n
Paper NoneOther			_
Cooler or box temperature: 40c			
(Acceptance range is 2 to 6 Deg. C.)			
Costinu 2	YES	NO	N/A
Section 3 Was a COC received?	IES	INO	IN/A
Is it properly completed? (IDs, sampling date and time, signature, test)	15	 	+
Were custody seals present?	-	 	
If Yes – were they intact?	 	<u> </u>	
Were all samples sealed in plastic bags?		-	
Did all samples arrive intact? If no, indicate below.		 	1
Did all bottle labels agree with COC? (ID, dates and times)	1/2		
Were correct containers used for the tests required?	15		
Was a sufficient amount of sample sent for tests indicated?	1/2		1
Was there headspace in VOA vials?		X	
Were the containers labeled with correct preservatives?	X		
Was total residual chlorine measured (Fish Bioassay samples only)? *			X
*: If the answer is no, please inform Fish Bioassay Dept. immediately.			
Section 4			
Explanations/Comments			
		_	
Section 5			
Was Project Manager notified of discrepancies: Y / N N/A	/		
Completed By: M. & Date: LO 14	10)	· · · · · · · · · · · · · · · · · · ·
The state of the s			

CalClean Inc.

ATTACHMENT 2

HIGH VACUUM DUAL PHASE EXTRACTION SYSTEM FIELD DATA SHEETS

SVE or

X_DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 9 13/2010

Client:	THRIFTY	OIL CO	•	1	 		·		Operato	r (s):	Ga	<u>be</u>			Superv	isor:				From:		То:	
	1						E	TRAC	TION	WEL	LS				1	OBSE	RVAT	ION W	/ELLS	3	:	:	
		Well I.D.				MW-4								ΜW	/-1	MV	/- 3	MV	V-7	MV	V-8		Cumul.
			From-To (ļ	9 - 29			·					15 -		15			18		18	Water Meter	Water
Time	Initial De	epth To V Air	Vater DTV TOX	V (ft) Vapor inlet	Off/On	5.10 DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	14.3 Vacuum		나.? Vacuum		14.7		13.3		Readings	Extracted
		Flowrate (cfm)		Conc. (ppmv)	(ppmv)	(ft)	Depth	(ppmv)	(ft)	Depth	(ppmv)	(ft)	Depth (feet)	"H ₂ O	(ft)	"H ₂ O	DTW (ft)	Vacuum "H₂O	(ft)	Vacuum "H₂O	DTW (ft)	units	gals
					61		28'									•						2489720	
130	23	33	1401	793										0,00	14.35	0.00	[4.34	0.00	14.75	0.00	1320		
00S		31	1403	763										0.00	14.35	0.00	14.35	0.00	14.76	0.00	(3.30		
		34	1401							`				000	14.35	001	14.35	0.00	14.76	Don	330		
400		36	1404											0.00	14.37	0.00	14.36	0.00	14.83	ರಿಬರ	13.30		
500			628	787										0.00	14.38	0.00	14.36	0.00	14.91	9.00	13.31		
000		37	631	774										0.00	14.40	0.02	14.37	0,00	14.97	0.00	13.32		
700			633	769								,						0,00					
800				764														200			13.54		
900			631	768														0.00			13,35		
2000			628	763																		2489920	200
1100			621	761														0.00					
<u> </u>	23	35	632	760														000					
				758														P.00			13.37		
1400	L5	38	629	756										<u>(0,00</u>	15.28	0.01	14.61	೦.೦೨	15.73	0,60	13.37		
						<u></u>																	
																			<u> </u>				:
												-							<u> </u>				
Comme	ents: C	1/13/10	- WAT	ER SAN	1PLES	OF I	NM-F	100110	10. V	Apor	SAL	1PLE	OF	MW-	-4(a)1200	176	3 DP	MV)	.STA	ck	SAMP	EQ
9/1	3-	Swite	ched	to C	ata	lut:	<u>a)</u>	ade	(15	00.	,											

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HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 9 14/2010

Page 2 of 16

		OIL CO) (V-1) 1 7		_		City. C			Gab		* * 11 /11	11#00				Date: _				Page	of <u> </u>
					· · · · ·		F)	TRAC								risor:		ION W		From:		To:	
		Well I.D.				MW-4			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*****				MV		MV		MV		MV	V_R		Cumul.
	Screen	Interval:	From-To ((ft)		9 - 29								15 -		15		8 -	18		18	Water Meter	Water
	 		Vater DTV	V (ft)		15.10								14.3	5	14.		14.	75	13.3		Readings	Extracted
Time		Air Flowrate		Vapor Inlet Conc.		DTW	Depth			Stinger Depth	Off/On	DTW	Depth	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
9/14	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet) 28 /	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)			 							
0000	23	39	628	756			-0															<u> </u>	
	1	41	637	751																			
0800			634	748		27.38								9.80	16,01	201	14.72	000	16.78	0.00	1240	24190160	4110
1200			629	742												O NO.	11.12	0,0-	10.20	0.00	13-10	0 1 10 16C	770
	23	39	635	740															<u> </u>				
2000	23			737										0.00	16.09	0,01	14.75	0.00	16.37	2.00	13.41	2490460	7740
																	1						
9/15																							
0000	23	35	635	732																			
000	23	41	648	728																			
0800			625			27,51								0.0C	1618	0,02	14.79	6,00	16.43	0,00	13.43	2490730	1010
1200			639	720																			
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Comme	ents:													*									

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 9 / 16/ 2010

4) 734-9137 Page 3 of 16

Client:	THRIFTY	OIL CO	•	,					Operato	r (s):	Gab	<u>e</u>			Superv	isor:				From:		То:	
							E	TRAC	TION	WEL	LS					OBSE	RVAT	ION W	/ELLS	3		15	
		Well I.D.				MW-4								MW	/-1	MV	<i>I-</i> 3	MV	V-7	MV	V-8		Cumul.
	Screen	Interval:	From-To (ft)		9 - 29								15 -		15 -		8 -		8 -	18	Water Meter	Water
			Vater DTV			5.10								14-3		14.		14.		13.3		Readings	Extracted
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)		Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth	Off/On (ppmv)	DTW . (ft)	Stinger Depth (feet)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
9/16	٠.	(OIIII)	(dog.)	(рршч)	ON	(1.9	28-	·	(11)	(ICCI)	(ppinty)	(10)	(icci)										
ထာဝ	23	38	651	701																			
0400		44	647	694																			
0800	23	39	639	685		2704								0,00	1631	0.00	14.93	000	16.51	0.00	3.49	2491210	1490
1200	23	35	643																			·	
1600	23		651	671																			
2000	23	37	649	665										000	1630	0.ಉ	14,95	Q.00	1651	0.00	13.47	2491440	1720
9/17	-																						
000	23	39	171	1661			<u> </u>																
0400	73	41,	1	657				ja,		ļ													
0800		42	639	659		26.91								0.00	16.38	0,01	1499	0,00	1/253	000	1352	2491690	1970
1200	23	41	651	653																12,13 9			
600	23	38	648	645																`		·	
2000	23	38	650	632							ļ			6.00	1643	0.01	15.03	000	6.55	0.00	13.54	2491860	2140
	<u> · </u>			<u> </u>				<u> </u>						<u></u>						<u> </u>	<u> </u>		
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Comm	ents:								. •														

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 9 / 18/ 2010

(714) 734-9137 Page 4 of 16

							y-\						Fra							From:		. To:	
		[TRAC	TION	WEL	LS					OBSE	RVAT	ION W	/ELLS	3	· .	·	
		Well I.D				MW-4								MW	-1	MW	I-3	MV	<i>I-</i> 7	MV	V-8		Cumu
			From-To (<u> </u>		9 - 29								15 -		15 -		8 -			18	Water Meter	Wate
Time	Initial D	epth To \ Air	Vater DTV TOX	V (ft) Vapor Inlet	Off/On	5-10 DTW	Stinger	Off/On	DTIA	Ctions	05510	DTM	0.1	143		14-8		14.		13.		Readings	Extracte
Time	Vacuum ("Hg.)	i .		Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)		Stinger Depth (feet)	Vacuum "H₂O	(ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
18					ON		28-																
၁၀၀	2.3	38	647	621																			
160	23	39		627										-									
६००	23	35	648	608		2690								റൂംഗ	1439	0.01	15 M	Λ. OO	16 57	0.00	1347	249250	2430
200		41	650	615												,,,,	7.7.00	0,00	16.01	0.00	.,,,,,	1,100,00	
	23	38	650	612																			, and
৯৩৩	23	43	648	60)				,						0.00	1645	0.01	15.06	0.00	16,61	D.00	13,52	2492340	262:
/19																	-						
ည်	23	37	650	599																			
	23	39	648	593																			
<i>o</i> 00	23	42	639	585		26.95								0.00	1646	0.00	1503	O ₁ OO	1659	0.00	13.50	2492600	ZXXC
	23		645																		. 0,		-
000	23	36	659	600																			
)	23	37	650	578										0,00	1659	0.00	14.93	0.00	16.68	0.00	13.59	2492710	299
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HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 9 /20/ 2010

Page <u>5</u> of <u>16</u>

Client: 1	HRIFTY	OIL CO.							Operato	(s):	ran	K			Superv	isor:				From:		То:	
							EX	TRAC	TION	WEL	LS				(OBSE	RVAT	ION W	ELLS	3			
		Well I.D.				MW-4		٠						MW	-1	MW	1-3	MW	<i>I-</i> 7	MV	<i>1-</i> 8		Cumul.
	Screen	Interval: I	rom-To (ft)		9 - 29								15 -		15 -		8 -		8 -		Water Meter	Water
			Vater DTV	1		5.10		0550	DEM	011	050	DTM		14.8		14.8		14.		13.		Readings	Extracted
Time	Unit Vacuum ("Hg.)	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Depth	Off/On	DTW (ft)	Stinger Depth	Vacuum "H₂O	(ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H₂O	(ft)	units	gals
9/20	(ng.)	(cfm)	(degF)	(ppmv)		(11)	(1eet)	(ppiitv)	(ii)	(leet)	(ppmv)	(11)	(feet)									\	
0000	23	40	653	552	ON		.T.X-																
6400		34		544																			
0800		- 12		523		27.02								0.00	17.05	0.00	14.38	0.01	16.93	0.00	કેલ્લ	2492910	3190
1200				560																			
1600	21			575										<u> </u>					.1				
2000	21	38	654	512										0.00	1690	0.00	15.00	0,00	16.95	0.00	13.54	2493100	3380
9121																							<i>~</i>
0000	21	36	651	500																			
0400	ı			480																			
0800		1	1	492		2696								೦.೧ರಿ	1696	0.00	15.03	0.01	16.91	0.00	13.59	2493300	3580
1200		37	652	602	<u> </u>	<u> </u>		ļ		ļ													, , , , , , ,
1600	21			525	<u> </u>			ļ												`			
<u>2000</u>	21	36	650	596	-									0.00	1683	0.00	14.46	0.00	1695	0.00	13,54	2493510	3790
																							<u> </u>
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Comm	ente.	<u> </u>	<u> </u>	<u> </u>	1	<u>l : </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>L</u>	ł	<u> </u>			<u> </u>	<u></u>	1

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 9 /22 / 2010

Page 6 of 16

Client: 1	HRIFT	OIL CO		,					Operato	r (s):	Fran	ιK			Superv	isor:				From:		То:	
							EX	TRAC	TION	WEL	LS				(OBSE	RVAT	ION W	/ELLS	3			
		Well I.D.				MW-4								MW	/-1	MV	<i>l</i> -3	ми	V-7	MV	V-8		Cumul.
			From-To (9 - 29								15 -		15 -			18		18	Water Meter	Water
	Initial D		Vater DTV			5.10								14.3		14.3		14.		13.3	30	Readings	Extracted
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)		Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
9/22	·		,		ON		28-			`	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
0000	21	39	650	605																			
040 <i>0</i>		35	650	581																			
0800				549		27.07								0.00	16.92	0.00	14.63	0.00	16.92	0.400	13.61	2493710	3990
1200	21	38	1	700																			"
1600	21	41	653	560																			
2000	21	37	651	507	,									0.00	16.60	0.00	14.51	0.01	16.98	ဝတ	13.55	249 <u>388</u> 0	41160
9/23															<u> </u>			ļ,					
೦೦೦೦	21	36	650	440																			
<u>0400</u>	I	38	652	563																			
0800	21	35	650	624		27.14								0.00	16.55	0.00	14.55	اهن	16.99	0.00	13.60	2494080	4360
1200	21	43	659	651	.																		
1600	•	31	<u>655</u>	_																			<u> </u>
2000	21	39	651	572										0.00	1671	0.00	14,60	೦.೦೦	11.00	0,00	13.62	2494310	<u>4590</u>
				-			·																U.
-																							
		<u> </u>				<u> </u>										·							
Comme	L ents:	1	1	1	L	<u> </u>	L		<u> </u>	1			L	<u>L</u>	<u> </u>	<u>L</u>		<u> </u>	<u>l</u>		<u> </u>	ł	<u>L</u>

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 🤦 /24/ 2010

Page 7 of 16

ſ														Superv								
				٧		EX	TRAC	TION	WEL	LS					OBSE	RVAT	ION W	/ELLS	3		То:	
	Well I.D.				MW-4								MW	/-1	MV	<i>I-</i> 3	ММ	V-7	MV	V-8		Cumul.
					9 - 29												8 -	18	8 -	18	Water Meter	1
															14.		14.	75	13.	30	Readings	Extracted
	Flowrate	Temp.	Conc.			Depth			Depth			Depth	Vacuum "H ₂ O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
,		(==3-)	G-P7		(.4)		(()	(loot)	(Pp)	(1.7)	(loci)										
21	35	65 O	552.	ON		Z_X :																
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					2726								6 00	16 76	2 22	14 (2		1/ 99		12.61	BUOLEIA	11700
										,			6.00	1 0. /3	0,66	i lutor.	0.01	16.70	0.00	0.01	ZTEINS	14140
21																		<u> </u>				
													0.00	16.7.3	0.00	14.65	0.00	17.01	0.00	13.63	2494720	5000
21	35	650	515																			,
21										,												
2.1	41	652	550		27.30	t							0.00	1671	0,00	4.60	0,61	16.97	0,00	13.64	2494930	5210
21	36	652	539				·							·		J						1
21	38	650	520																,			
21	35	656	506										000	663	0.04	14.62	0.00	1695	0.00	13.61	2495130	5410
		_											<u> </u>									<u> </u>
												<u> </u>	<u> </u>									<u> </u>
																						
																						
	itial De Unit accuum "Hg.)	itial Depth To V Unit Air acuum Flowrate "Hg.) (cfm) 35 1 38 1 40 2 36 2 39 2 39 2 36 2 39 2 36 2 39 2 35 3 39 4 1 2 36 2 38 2 35 3 39 4 1 2 36 2 35 3 39 4 1 2 36 3 38 2 35	itial Depth To Water DTV Unit Air TOX Temp. "Hg.) (cfm) (degF) 25 650 21 41 649 21 38 657 21 36 665 21 39 650 21 31 650 21 38 650 21 38 650 21 38 650 21 38 650 21 38 650 21 38 650 21 38 650 21 38 650	acuum Fiowrate Temp. Conc. (ppmv) 35 650 552 1 41 649 560 1 38 657 579 1 40 650 559 1 36 665 531 2 39 655 511 2 39 650 515 3 39 650 526 1 38 650 520 1 38 650 520 1 38 650 520	Itial Depth To Water DTW (ft)	itial Depth To Water DTW (ft) Unit Air acuum Flowrate Fl	Itial Depth To Water DTW (ft) Unit Air Flowrate Conc. (cfm) "Hg.) (cfm) A5 650 552 1 41 649 560 21 38 657 579 21 40 650 559 21 39 655 511 21 39 650 526 1 38 650 526 1 38 650 526 1 38 650 515 1 39 650 526 1 38 650 526 1 38 650 526 1 38 650 526		Initial Depth To Water DTW (ft) Unit Air acuum Flowrate (cfm) Unit (cfm) Unit (cfm) Image: Plowrate (cfm) Ima	S. 10 Stinger DTW Stinger Depth Conc. Co	S. O	The color of the	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	Italia Depth To Water DTW (ft)	14 15 15 15 15 15 15 15	13 13 14 15 15 15 15 15 15 15	1818 Depth To Water DTW (ft) 18.1 Office 181 Depth To Water DTW (ft) 18.10 19.1	1. 1. 1. 1. 1. 2. 3. 3. 3. 3. 3. 3. 3	18 18 18 18 18 18 18 18	13 14 15 15 15 15 15 15 15	

Comments: 9-25-2010 Took vapor samps. 3 Water samps, as follows: MW-4@ 0800 (624 ppmv), INFLUENT Water sample of MW-40 0845

797 HIGH VACUUM

SVE or X DPE FIELD DATA SHEET

CALCLEAN INC.

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND Site #: THRIFTY #063

(714) 734-9137 Date: <u>9 /26</u>/2010 Page <u>8</u> of 16

Operator (s): Frank Client: THRIFTY OIL CO. Supervisor: **EXTRACTION WELLS OBSERVATION WELLS** MW-4 MW-1 MW-3 **MW-7** MW-8 Well I.D. Screen Interval: From-To (ft) 9 - 29 15 - 30 15 - 30 8 - 18 8 - 18 Water Water Meter 14.35 14.34 14.75 13.80 Readings 15/10 Initial Depth To Water DTW (ft) Extracted TOX Vapor Inlet Off/On DTW Vacuum DTW Stinger Off/On DTW Stinger Vacuum DTW Vacuum DTW Vacuum DTW Stinger Off/On DTW Depth "H₂O "H₂O "H₂O "H₂O gals Vacuum Flowrate Temp. Depth Depth Conc. ("Hg.) (cfm) (degF) (ppmv) (ppmv) (feet) (ppmv) (feet) (ppmv) (feet) 9/26 28-ON 0000 21 43 651 493 654 486 39 0400 21 41 650 510 0800 21 27,39 0.00 1659 0.00 14.65 0.00 16.99 0.00 13.63 2495360 5640 36 650 455 1200 21 27 655 431 1600121 12000| 21 | 40 | 649 | 403 0.00 1661 0.01 14.68 0.00 17.01 0.00 13.62 2495580 5860 9/27 0000 21 35 651 415 0400 21 37 656 411 U800 2 1 35 650 372 0.00 16.70 0.01 14.71 0.00 17.00 0.00 13.61 2495730 6060 1200 21 38 655 354 600 21 36 658 376 2000 21 43 651 413 0.00 16.73 0.00 14.73 0.00 16.92 0.00 1360 2495910 6190 Comments:

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: <u>09 /28</u>/ 2010

(714) 734-9137 Page <u>9</u> of <u>16</u>

Client:	THRIFTY	OIL CO							Operato	r (s):	ran	<u> </u>			Superv	isor:				From:		To:	
							EX	TRAC	TION	I WEL	LS				(OBSE	RVAT	N NOI	/ELLS	3			
		Well I.D	•			MW-4								MW	/-1	MV	<i>I-</i> 3	МУ	V-7	ми	V-8	,	Cumul.
			From-To (<u> </u>		9 - 29								15 -	30	15 -	30	8 -	18	8 -	18	Water Meter	Water
			Water DTV	r		5.10							T	14.		14:			15	13.8		Readings	Extracted
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp.	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
9/28					ON	/	28-			. ,	,	(-7_	(334)										
0000	1	45	650	396																			
0400	1	36	652	381		· · · · · · · · · · · · · · · · · · ·																	
0800	21	42	650	349	·	27.50								0.00	16.76	೦ಎ೦	14.74	0.00	16.92	0.00	1365	2446120	6401
1200	21	37	652	300																			
1600	21	40	660	281																			
<u> 3000</u>	21	42	658	302					_					0.00	16,69	0.00	14.70	0.00	16.94	0.00	13.63	2496300	6580
9/29																							
0000	21	35	652	296											<u></u>								
0400	ı		458	265										υ		į vilja	-					·	
0%00	!		650	284		27.55								0.00	16.74	0.01	14.75	0.00	11.02	0.00	1376	2496520	6800
1200	21	35	655	262																			
1600	21	39	660	240																` `			
2000	21	41	657	223										0.00	1671	0.00	14.81	0,00	16.99	0,00	13.67	2496720	7000
										<u> </u>													
																	-		<u> </u>				
	<u> </u>	<u> </u>					<u> </u>																
Comm	ents:																						

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 09/30 2010

Page 10 of 16

Client: 1	HRIFTY	OIL CO						ı	Operato	r (s): 🗜	CAN	K		·	Superv	isor:				From:		To:	
							EX	(TRAC	TION	WEL	LS				. (OBSE	RVAT	ION W	/ELLS	3			
		Well I.D.				MW-4								MW	-1	MV	<i>I-</i> 3	MV	V-7	MV	<i>I-</i> 8		Cumul.
			From-To (9 - 29								15 -		15 -		8 -		8 -	18	Water Meter	Water
Time	Initial De	epth To V Air	Vater DTV TOX	V (ft) Vapor Inlet	Off/On	01.0	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Ctingon	14.3	DTW	14.			75		80	Readings	Extracted
Time	Vacuum ("Hg.)	Flowrate (cfm)		Conc. (ppmv)	(ppmv)		Depth (feet)		(ft)	Depth (feet)	(ppmv)	(ft)	Stinger Depth (feet)	Vacuum "H₂O	(ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
9130					ON		28.																
0000	21	39	650	292																		·	
0400	21	35	651	335																			
<u>0800</u>	21	36	650	385		27.61								000	16.63	0.01	14.73	0.00	17.01	0.00	14.23	2496960	7240
1200	21	38	661	392																		!	
1600	21	35	6 55	303																			
2.000	21	39	651	243										0.00	1651	10.0	1460	0.00	17.00	0.00	14.25	2497260	7540
10/1																							
0000	21	ци	659	252																			
0400	ł	40	650	233																			
080	21	36	652	211		27.64								0.00	16.62	0.01	14,63	0.00	Dry	റക്ക	13.66	2497530	1810
1200	21	35	660	208																			
1600	21	41	651	203																			
3000	21	37	658	210						<u> </u>				0.00	16-65	0.01	14.66	0.60	17.00	0.00	13.65	2497740	8020
													:	· •									
									·	-				<u> </u>									<u> </u>
Comme	l ents:	<u> </u>	<u> </u>]	<u> </u>	<u></u>		1		<u> </u>	<u>L</u>		<u> </u>	<u> </u>	<u> </u>	L		<u> </u>	<u></u>	<u> </u>	L		

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HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

INFLUENT WATER OF MW-401115

City: OAKLAND

Site #: THRIFTY #063

Date: / O /OZ/ 2010

Page 11 of 16

Client: T	HRIFTY	OIL CO		,					Operato	r (s):	Freir	K_			Superv	isor:				From:		То:	
							E	TRAC	TION	WEL	LS					OBSE	RVAT	ION W	/ELLS	3			
_		Well I.D.				MW-4								MW	/-1	MV	/ -3	MV	I-7	MV	/-8		Cumul
İ	Screen	Interval:	From-To (ft)		9 - 29								15 -		15 -		8 -		, 8-		Water Meter	Water
		·	Vater DTV	. ` -		DTW		Off/On	DTM	l ov	OWO	D.T. 4.	l ou		35		34	나.			<i>80</i>	Readings	Extracte
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	(ppmv)	(ft)	Stinger Depth (feet)	(ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
0/2	(119.)	(0,,,,)	(dogi)	(рршт)	ON	(19	28-	(рршу)	(11)	(icci)	(ррінч)	(11)	(ieet)		· .					 			
2000	21	45	651	2.05	U.V		2.0																
20PC				310																			
000		40		370		27.71								0.00	17.30	0.00	14.69	0.00	D~	000	1430	2497950	8731
1200				378										0.00	11.00	0.00	1 1100	0.00	0.7	0.00	1 1.00	2 14 1 100	الكال
1600				347													<u> </u>						
2000				287										0.00	16.72	0.00	14.70	0.00	17.01	0.00	14.65	24198240	8520
10/3																							
2000	21	35	657	2,92																			
2400	ł	36	650																				
ටරිට		42	65.5	265		27,73								0.00	16.76	0.01	14.68	0.00	17.00	0.00	14.67	2498370	8659
200	21	45	659	261																			
600	21	42	650	241																			
<u> </u>	21	37	651	222										0.00	16.77	0.00	4.76	0.00	17.02	0.00	1436	2498580	8860
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			`																				
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·					 											-			-				
	<u> </u>	·		OIO T		L	1		1	<u> </u>	<u>. </u>		<u> </u>	<u> </u>	L	1	L	<u> </u>		1	L		L

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: /O /O// 2010

Page 12 of 16

Client: 1	FHRIFT	OIL CO	•						Operato	r (s):	rcin	<u>k</u>			Super	risor:				From:		То:	_
							E	CTRAC	TION	WEL	LS					OBSE	RVAT	ION W	/ELLS	3			
	····	Well I.D.	•			MW-4								MΛ	<i>I-</i> 1	MV	V-3	MV	V-7	MV	/-8		Cumul.
			From-To (<u>`</u>	L	9 - 29	,							15 -		15 -		8 - 18		8 - 18		Water Meter	Water
Time	Initial D Unit	epth To \ Air	Vater DT\	V (ft) Vapor Inlet		5.10	Stinger	Off/On	DTW	000	050	D.T.41	To::	14.35		14.34		Vacuum DTW		13.8		Readings	Extracted
Tille	Vacuum ("Hg.)	1		Conc.	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Stinger Depth	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H ₂ O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
0/4					ON	()	28-	(1-1		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(ρρυ)	(14)	(IGGL)			-							
0000	21	39	650	256																			
000	21	36	650	273																			
0080	21	५3	656	296		27.78								0.00	16.79	0.00	14.72	0.00	17.00	0.00	14.43	2498780	9060
1200	21	36	665	305																			
1600	21	40	(06)	244																			
2000	21	37	653	226										0.00	16.65	0.00	14.81	0,00	Dry	0,00	14.31	2498860	9140
10/5				·				,															
0000		42	650	225										ļ									
2400		38		214																			
2080		35	654	205		27.83								0.00	1675	0.01	14.83	(2.656)	17.00	A 100	14 14	2499010	CIZEC
1200		40	6 53	195									·						1	3.30	1-1/1-1		133
1600		37	650	203																	-		
2000	21	42	651	188										0,00	K.SZ	6.01	H.86	0.00	16.99	٥٥٥	13.87	249 <u>9</u> 280	9560
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Comme	nte.	<u> </u>	<u> </u>	<u> </u>	<u> </u>		l			<u> </u>				<u> </u>	1								

HIGH VACUUM

SVE o

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 16 /06/ 2010

Page 13 of 16

-		OIL CO.		IIVAF I I <i>F</i>		_		City. C			rank			i 1 1100	Superv	isor		Date: 1	·	From:		To:	. UI <u></u>
							EX	CTRAC							···	OBSEI	RVAT	ION W				10	
	1	Well I.D.	:			MW-4						•		MW		MV		MV		MV	/- 8		Cumul
[Screen	Interval: I	rom-To (ft)		9 - 29								15 -	30	15 -	30	8 -	18	8 -	18	Water Meter	Water
	Initial De	epth To V	Vater DTV	V (ft)	10	5.10								14.3		14.3		14.7	5	15.	80	Readings	Extracte
Time		Air Flowrate	•	Vapor inlet Conc.		DTW	Depth		DTW	Stinger Depth	Off/On		Stinger Depth	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)			-							
016	21	21	650	193	ON		28-																
000 460			650																				ļ
2080			653			21,84						<u> </u>		0.00	W. Q ()	201	lu Ri	0.00	17 61	A 00	13 85	2499460	974
200				339		2,701								0.00	NO AST	5.61	17.01	0.00	1.00	0.00	10.00		
600			663												×								
				334										0.00	1687	0.01	14.91	0.00	17.00	0.00	1381	2499670	ddi
0/7								ļ <u> </u>															
0000	21	36	650	327																			
	21			314																			
	21		-	302		2791								0.00	16.86	0.01	14.93	00.00	17.02	0.00	14.00	2499880	10.16
200		45	663	385	<u> </u>			<u> </u>															
600	21	36	୯୬୳	341	<u> </u>					ļ											ļ		ļ. ·
<u> 2000</u>	21	38	650	323										0.00	16.85	0.00	14.94	0.00	17.00	00.0	13.96	2500090	10,3
								<u> </u>															
																					ļ		
			 		+	<u> </u>		<u> </u>		 	 		 	<u> </u>	-								
		<u> </u>			<u> </u>		<u></u>	<u></u>	J	-	I				. /		1		<u> </u>			1 <u> </u>	<u> </u>

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 10 /08/2010

Page 14 of 16

Client: 1	THRIFTY	OIL CO	-	. 1					Operato	r (s):	man	<u> </u>			Superv	isor:	· · · · · · · · · · · · · · · · · · ·			From:		To:	
							EX	TRAC	TION	WEL	LS					OBSE	RVAT	ION W	/ELLS	3			
1		Well I.D				MW-4						-		MW	/-1	MV	<i>I-</i> 3	MW-7		MV	V-8		Cumul.
			From-To (9 - 29						15 - 30		15 - 30		8 - 18		8 - 18		Water Meter	Water			
Time	Initial D Unit	epth To \ Air	Vater DTV		Off/On	5.10	Stinger	Off/On	DTM	0::	050-	DTM	l on	14.3		14.3		14.7		13.		Readings	Extracte
THITE		Flowrate	Temp.	Vapor Inlet Conc. (ppmv)	(ppmv)	(ft)	Depth		DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H₂O	(ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
018				, ,	ON	,	28-	(1-1/	(1)		(1)	(")	()									<u> </u>	
000	21	41	650	255																			
2004		36	653	331																			
2800		35		370		27,89								200	1688	0.01	iu ga	0.00	וחרו	(2.00)	1390	2500270	#A 55
200			648	-														3.00		<u> </u>		2.00	0,00
600	21	40	රට්ට	397																			
2000	21	42	(00)	385										0.00	16.91	0.01	15.00	٥.٥٥	17.00	0.00	13.88	2500480	10,766
10/9		<u> </u>																					
2000	21	41	652	372																			
20PC			650															-					
20gc		39	1	374		27.92								0.00	16,94	0.00	15.03	(3,00	17.02	0.00	13.89	2500660	1094
1200	ł	<u>413</u>	654	363											·								,
1600	21	35	650	377													:			,			
2000	21	37	656	381										ರ.೧೮	16.96	0.00	15.05	20، ٥	17,00	0.00	13.91	2500810	11,150
														·			e er 📑 vr		1-4	<u> </u>			1 4 5
							`																
Comme		<u> </u>	<u></u>	<u> </u>	<u> </u>			<u> </u>	L													İ	

HIGH VACUUM

SVE or

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 10 / 10/ 2010

Page 15, of 16

Ini Time l	reen li	Well I.D.					EV																
Ini Time l	reen li						. [TRAC	TION	WEL	LS					OBSEI	RVAT	ION W	ELLS	3			
Ini Time l	itial De	nterval: F				MW-4								MW	-1	MW	<i>I-</i> 3	MV	I-7	MV	<i>I-</i> 8		Cumul.
Time l			rom-To (1	ft)		9 - 29							15 -		15 -		8 -		8 -		Water Meter	Water	
	lini+ i	`	/ater DTV	``		5.19)								35	14.3		14.7		13.1		Readings	Extracted
		Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)	DTW (ft)	Stinger Depth	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Vacuum "H₂O	(ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units	gals
olo	119.7	(0)	(uog.)	(55)	ON	()	28	(10 10 10 10 10 10 10 10		(ICCG)	(()	(1001)			-							
2000	2.1	35	649	377																			
HO0 2		39	650	370																			
78003			.4	%.		27.94								ದ್ದಾರ	16.95	0.00	15.07	0.00	17.03	ප. ප	13.87	7501060	11,340
200 2	21	40	663	371																			
6002	-1	37	654	360																			
2000 3		35	665	353										0.00	16.98	0-01	15,10	0.00	17.01	0.00	13.85	25 01270	11,550
10/11																							
2000	, ,	20	650	365															· · · · · · · · · · · · · · · · · · ·	,			
2000	1	•				:																	
2800				347		21.91								0.00	1697	0.00	15.12	0.00	17.00	0.00	13.88	2501450	11,730
200 7	21	40	656	371	<u> </u>				<u> </u>	<u> </u>													
1600 2	21	36	652	352																			
2000 2	21	39	661	356										0.00	16.95	0.00	15.15	ල.පප	17.02	0.00	13.91	2501630	11,910
<u> </u>														<u> </u>	ļ								
															-					<u> </u>		1	
	•																						
			<u> </u>	1	<u> </u>	<u> </u>	<u> </u>				<u> </u>	l				<u> </u>		<u>L,</u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

HIGH VACUUM

SVE

X DPE

FIELD DATA SHEET

CALCLEAN INC.

(714) 734-9137

Project Location: 6125 TELEGRAPH AVENUE

City: OAKLAND

Site #: THRIFTY #063

Date: 10 /12 / 2010

Page 16 of 16

Client: 1	THRIFTY	OIL CO	•						Operato	r (s): <u>F</u> 1	rank	Nr.			Superv	risor:			 .	From:		To:	
		,					EX	TRAC	TION	WEL	LS					OBSE	RVAT	ION W	ELLS	3		,	
		Well I.D.				MW-4				·				MW	-1	MV	-3	MV	I-7	MV	/- 8		Cumul.
	Screen	Interval:	From-To (ft)		9 - 29							15 - 30		15 -		8 -		8 -		Water Meter	Water	
			Vater DT\			5.10				r				14.		14.		14.7		13.		Readings	Extracted
Time	Unit Vacuum ("Hg.)	Air Flowrate (cfm)	TOX Temp. (degF)	Vapor Inlet Conc. (ppmv)	Off/On (ppmv)		Stinger Depth (feet)	Off/On -(ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv)		Stinger Depth (feet)	Vacuum "H₂O	(ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	units 2489720	gals
3/12					ON		28																
000	21	43	ا5ع)	359																			
400		36	663	351		,								,									
180°			650	347		27,99								0.00	17.00	0.01	15.18	0.00	17.01	0.00	13,92	2501840	12.120
200	21	42	652	363					·											., j*			•
600			657	334	8	,																	
000	21	37	1649	321										0.00	1499	0.01	15.21	0.00	17.07	0.00	13.91	2502010	12290
0/-																ļ			ļ			<u> </u>	
10/13		31.4	1 /-	0/ //												 	<u> </u>			ļ			
20001		41	657	36H																	<u> </u>		
9400 980			653	348		27.96								0.075	17 07	0.00	15760	202	1707	0.00	1290	1602260	7600
0900	21	41		365		V 11 100		<u> </u>						0.00	1000	,0.00	17,00	uee	1.07	0,00	17.10	2502290	-
																		1					
																<u>`</u>							
		-														 		<u> </u>					-
	-	 															多						
	<u> </u>	<u> </u>	<u></u>	<u> </u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>L</u>		<u> </u>		<u> </u>	<u> </u>			20930	