THRIFTY OIL CO.

October 9, 1991

9100718 671:37

Mr. Scott O. Seary Alameda County Department of Environmental Health Hazardous Materials Program 80 Swan Way, Room 200 Oakland, California 94621

RE: Thrifty Oil Co. Station #054 2504 Castro Valley Boulevard Castro Valley, California 3rd. QUARTER REPORT, 1991

Dear Mr. Seary,

This letter report presents the results of soil/groundwater treatment and site monitoring during the 3rd. quarter of 1991 at the subject site. A vicinity map is presented as Figure 1. The approximate location of the on-site monitoring wells are shown on Figure 2. During the 3rd. Quarter of 1991, Remediation Services Intl. (RSI) operated and maintained the soil/groundwater treatment unit (RSI-SAVE system) and site monitoring was conducted by Earth Management Co. (EMC). Nevertheless, during the monthly site visits by EMC, a technician inspected the treatment unit and recorded any pertinent data.

Treatment Unit Operation

Based on the data obtained by EMC, the RSI-SAVE unit has operated a total of 4916 hours with about 1724 hours of operation during the reporting period. The tachometer was replaced by RSI in April after it had logged a total of about 2200 hours. In addition, a total of about 2161 gallons of water has been processed by the unit and discharged to the local sanitary sewer of this 214 gallons was processed during the quarter.

Site Monitoring and Sample Collection

The site was visited once a month by an EMC technician in order to gauge the wells and collected groundwater samples. Water levels were measured in each well from the rim of well cover using a Marine Moisture Tape (nearest 0.01 feet) capable of also measuring the presence of free floating hydrocarbons. Depth to water ranged from about 2.77 to 10.43 feet below grade. Six of the Nine wells exhibited free floating product that was measurable only as a sheen or film. The depth to water data was used in conjunction with the recent survey data to determine groundwater elevations across the site. The interpretations of groundwater flow across the site during the reporting period are depicted on Figures 3. 4 and 5. In general the groundwater flow was to the east-northeast with significant depressions near wells RE-4 and RE-7, currently used for groundwater recovery.



east - southeast

Prior to collecting groundwater samples from the wells that did not exhibit free floating hydrocarbons, about 4 well volumes of groundwater was removed using a PVC bailer. During the purging process, the pH, conductivity and temperature were checked and recorded to insure formation water was entering the well to be sampled. About 8 to 38 gallons of water were removed from each well and stored in 55 gallon D.O.T approved drums pending disposal. Groundwater samples were collected with disposal bailers. Samples were maintained and transported in 40 milliliter vials placed on ice pending delivery to Smith-Emery Laboratory, a state certified analytical laboratory headquartered in Los Angeles. Field monitoring sheets prepared by EMC personnel are included in Appendix A.

Analytical Results

Groundwater samples were analyzed for total hydrocarbons (TPH) and volatile aromatic compounds (BETX) using EPA methods 8015 and 8020, respectively. Copies of the laboratory analysis reports are attached in Appendix B. Please note that the laboratory inadertanty negleted to analyze the August groundwater samples for TPH. A summary of the results are presented in Table 1. The two downgradient > wells, RS-8 and RS-90 indicate no detectable hydrocarbons. Iso-concentration maps of TPH for each sampling event are presented as Figures 6 and 7.

Closing

RS-9 is upgradient RS-8 11 downgradient

Thrifty will continue to monitor groundwater at the site on a monthly basis for the remainder of 1991 at which time the data will be evaluated and, if appropriate, sampling on a quarterly basis will be requested. If you have any questions please contact me or Mr. Karl Kerner at (213) 923-9876.

Very truly yours,

Petér D'Amico

Manager

Environmental Affairs

Table 1 Summary of Analytical Results 2nd. and 3rd. Quarters, 1991

WATER

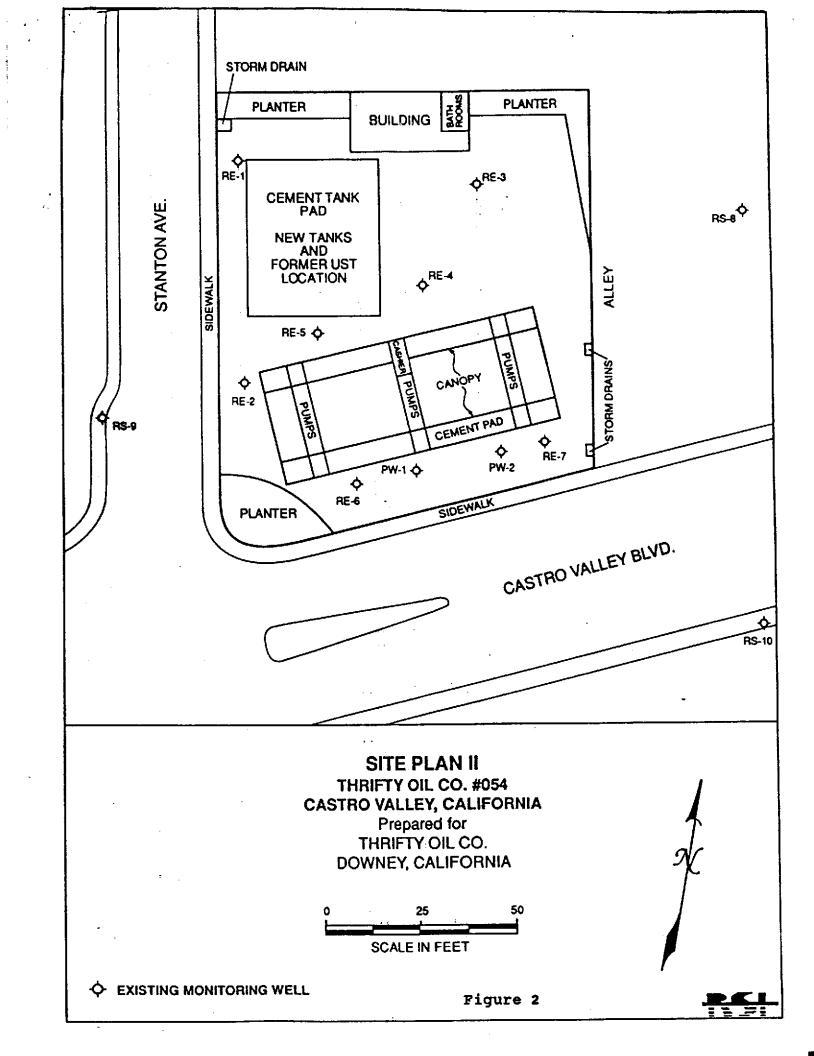
I.D	Date	TPH	Benzene	Toluene	Ethyl- Benzene	Xylenes
PW-1	5/22/91	41000	600	730	250	3800
	6/19/91	NA	NA	NA	NA	NA
PW-2	5/22/91	14000	57	51	10	480
	6/19/91	NA	NA	NA	NA	NA
RE-1	5/22/91	85000	8700	10000	1800	12000
	6/19/91	110000	8500	9600	2600	16000
	7/17/91	5500	950	ИD	26	ND
	8/07/91	NA	6700	5000	ND	7100
	9/27/91	60000	6800	4300	640	6900
RE-2	5/22/91	1000	5.3	3.6	4.4	8.9
	6/19/91	700	2.1	1.4	3.8	3.5
	7/17/91	880	12.0	8.0	4.3	28.0
	8/07/91	NА	3.8	1.6	ND	ND
	9/27/91	670	7.2	7.1	ND	23
RE-5	5/22/91	2500	330	7.8	5.6	200
	6/19/91	2000	59	1.6	5.1	110
RE-6	5/22/91	8500	1700	14	24	6.7
i,	6/19/91	NA	NA	AN	NA	NA
	7/17/91	120000	9300	13000	2400	16000
	8/07/91	NA	590	5.3	ND	14
	9/27/91 4/03/97	7000	310	11 NS	5.3	35 టప
R\$-8	8/07/91	ND ND	ND ND	ND	ND QN	ND
Trombia.	9/27/91	ND	ND	ND	ND ND	ND
·		1600	Ø 50	6.3	.) t	2.30
RS9	8/07/91	NA	0.5	ND	330	1200
	9/27/91	13000	3.5	3.0	82	140
RS10	8/07/91	ND	ND	ND	ND	ND
ł	9/27/91	ND	ND	ND	ND	ND

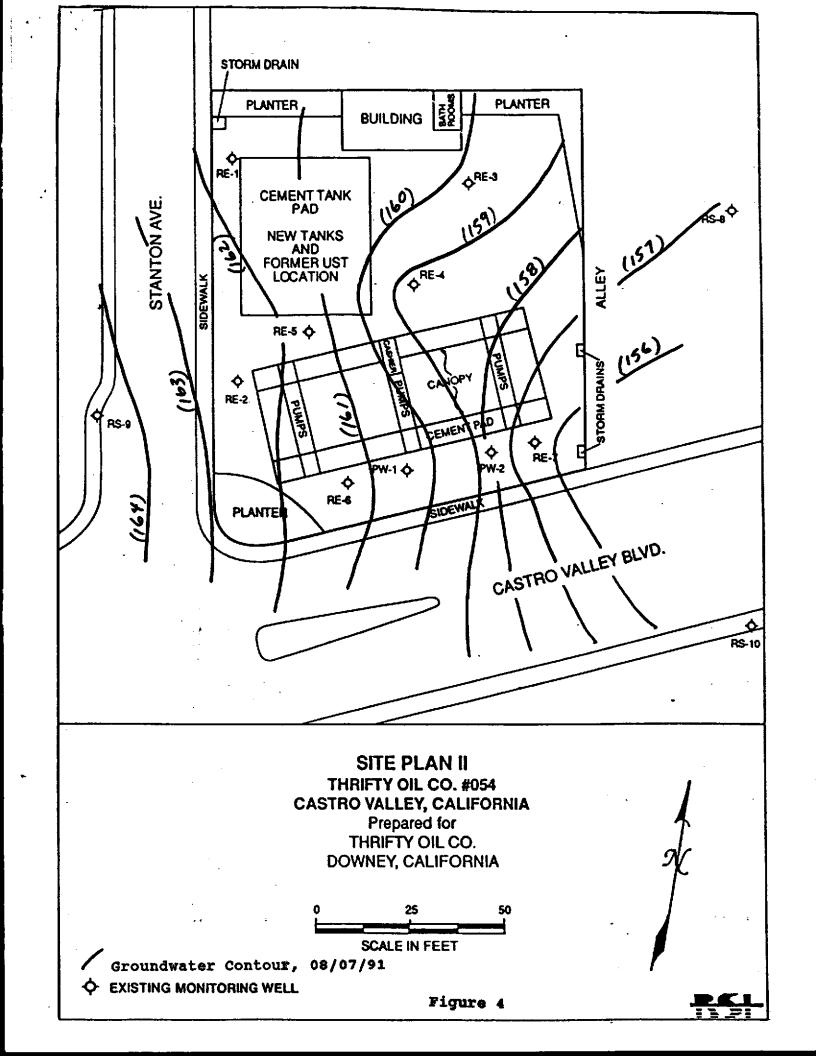
Results reported in micrograms per liter (ug/L)

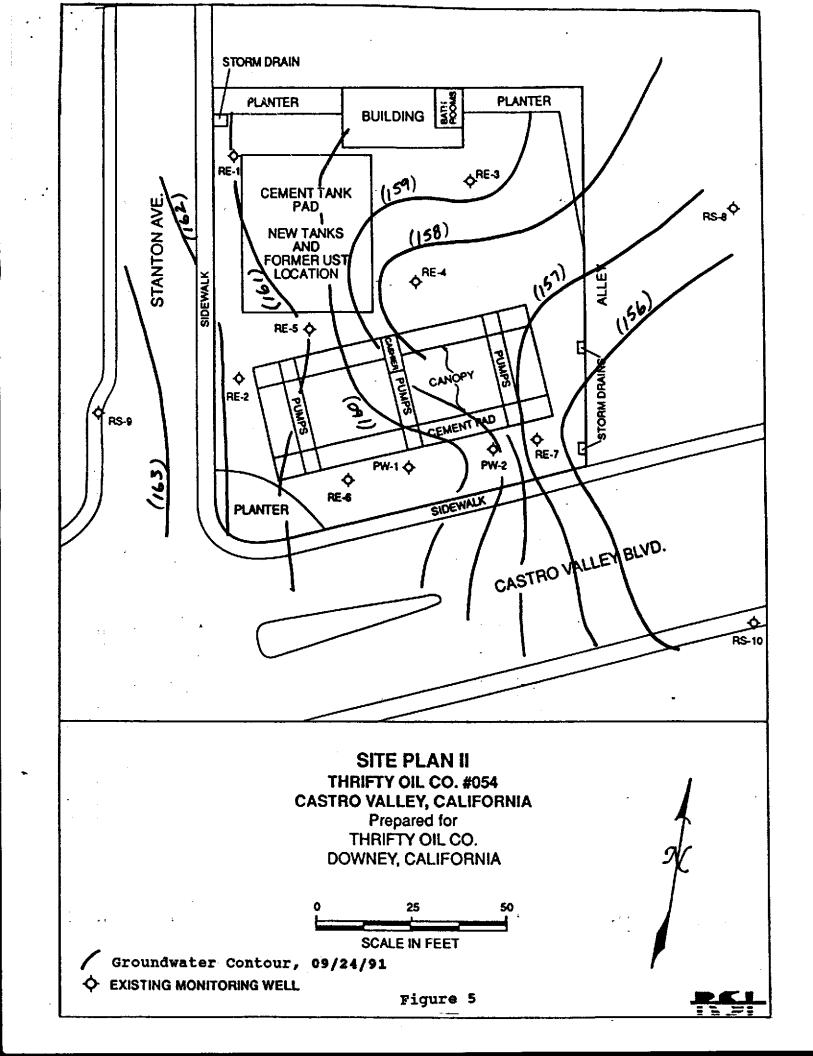
NA - Not Analyzed. TPH - Total Petroleum Hydrocarbons as gasoline.

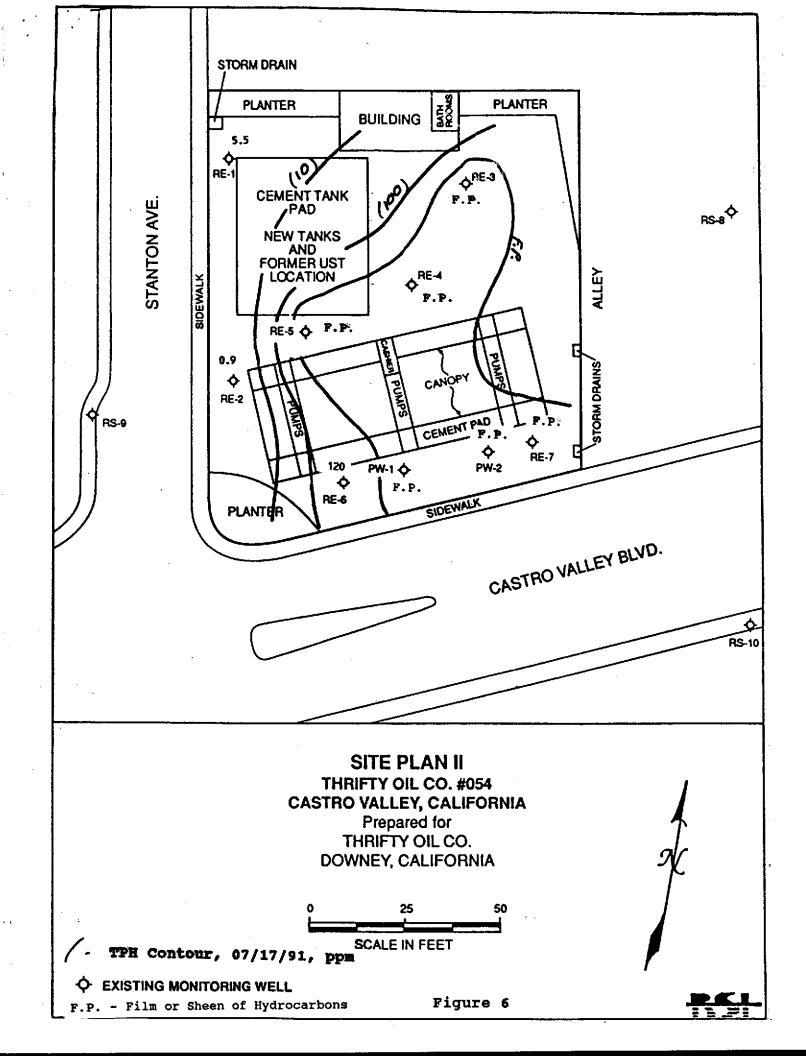
PE-3?
PE-7?
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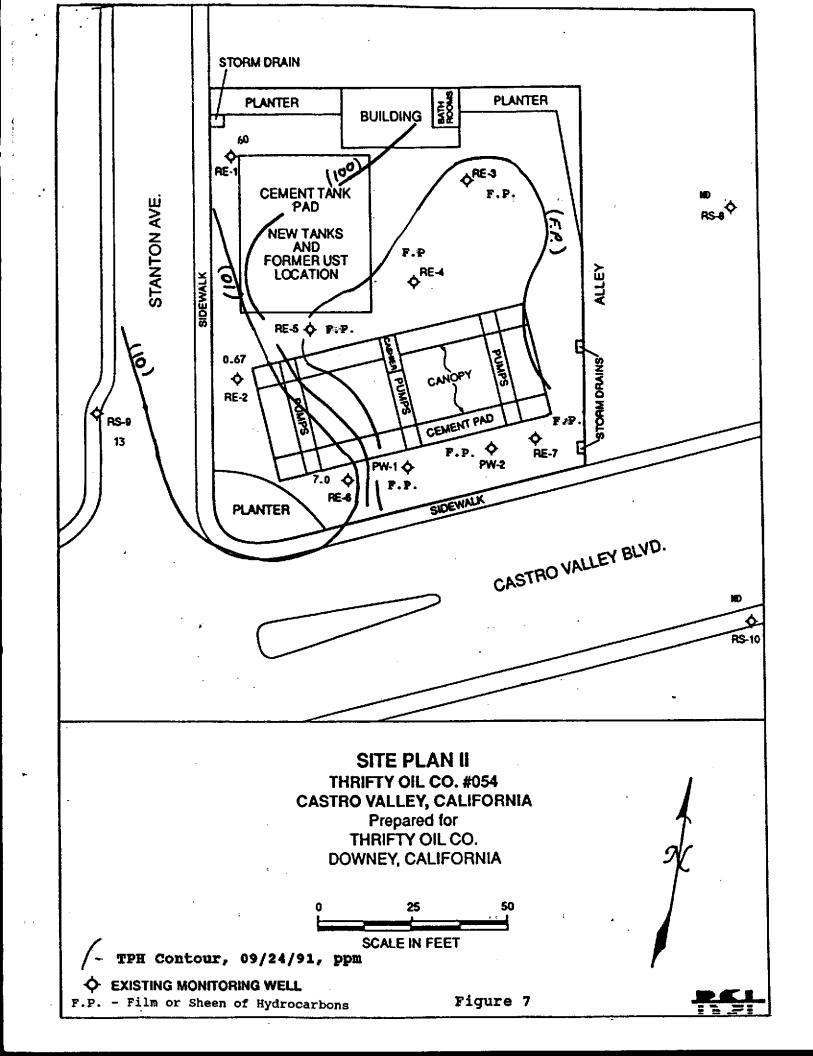














PROJECT STATUS REPORT
THRIFTY OIL CO. S.S. #054
2504 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA 94546

DATE: 7. 17. 1991

FR						C	ODORS		FRE	E	WELLS		CONNECTED TO			O SYSTEM (W)		W)
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м	RE-5	5.04	ő	Sh Ean				y		>	X	-	¥	Í				
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TAN	K VACUU	M	I	N HG	1	8	WATER FLOWMETER					GAI	.L.	2050				
	AUST others)			}	······································		·							· · · · · · · · · · · · · · · · · · ·	+			
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REM	ARKS:											·						
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FRE	E PRODU	CT RE	MOV		ROX.		LLON	is		WAT	er f	EMOV	ED:	APPRO	ж	G	ALLC)NS
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DATE 7. 17.1991 STATION NO. 054
PERSONNEL FUGENIU GALMAN
WELL NO. RE 1 WEATHER SUHY
SAMPLE EQUIPMENT BAILER TETLON
Before Sampling
Total Well Depth 19.85 Ft. Well Diameter 4"
Depth to Water 5.19 Ft. Purge Volume 38
Sampling Data
Time 9 9:10 9:20 9:25 9:35
EC 1430 1430 1450 1460 1460
PH 7.54 7.45 7.43 7.42 7.42
Temp 78.6 74.5 73.8 73.5 73.5
Gal. <u>5</u> <u>15</u> <u>25</u> <u>30</u> <u>38</u>
Time
EC
pH
Temp
Gal
After Sampling
Depth to Water 7.12 Ft. Total Well Depth 19.85 Ft.

DATE 7. 17. 1991 STATION NO. 054												
PERSONNEL FUGAVÍU GALMAN	•											
WELL NO. REZ WEATHER SUNY	•											
SAMPLE EQUIPMENT BALLER TETLON												
Before Sampling												
Total Well Depth 17.10 Ft. Well Diameter 4"												
Depth to Water 6.43 Ft. Purge Volume 28												
Sampling Data												
Time 10:10 10:15 10:20 10:25 10:30 10:25												
EC 180 1580 1590 1610 1610 1610	_											
ph 730 7.27 7.26 7.21 7.20 7.20												
Temp 73.0 72.7 72.6 720 72.1 70.1												
Gal. 5 10 15 20 25 28	_											
Time	_											
EC	_											
pH	_											
Temp	_											
Gal	_											
After Sampling												
Depth to Water 7.05 Ft. Total Well Depth 17.10 Ft												
	•											

DATE 7. 17. 1991 STATION NO 054	
PERSONNEL EV GETY, U GAS MAN	-
WELL NO. RE G WEATHER SUNY	-
SAMPLE EQUIPMENT BAILTR TEFLON	-
	-
Before Sampling	
Total Well Depth 13.65 Ft. Well Diameter 4"	
Depth to Water 6.12 Ft. Purge Volume 20	•
	•
Sampling Data	
Time 11.20 11:25 11:30 11:35	
EC 1650 1610 1600 1600	
ph 1.37 1.30 7.64 7.64	
Temp 72.6 72.9 72.2 72.2	
Gal. 5 10 15 20	
Time	
EC	
рн	
Temp	
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After Sampling	
epth to Water 7.48 Ft. Total Well Depth 13.65	



PROJECT STATUS REPORT THRIFTY OIL CO. S.S. #054 2504 CASTRO VALLEY BLVD. CASTRO VALLEY, CA 94546

8.7 1991 MONITORING **ODORS** FREE WELLS CONNECTED TO SYSTEM (W) R B OBSERVATION WELLS PRODUCT CONNECT INTEGRITY (S=SLIGHT) **VAPOR** WATER Q NO. DTW DTP PT YES NO YES YES NO NO OK ON OFF ON OPP W PW-1 5.67 SHEEN ን X W PW-2 663 MEN X W 5.12 RE-1 X W RE-2 4.87 X > SHEEN W RE-3 7.30 X FILM w RE-4 7 X 5.02 SHEEN W RE-5 Y X W RE-6 6.27 Х у X 9.85 RE-7 X X SAVE SYSTEM WEEKLY PARAMETER U/M DATA **PARAMETER** U/K DATA TIME AH/PM AIR FLOW 25 CFM WORKING YES/NO VAPOR FLOW 20 NO CPM RESTARTED YES/NO YES FUEL FLOW C F M/H 8.5 HOURS 1695 WELL VACUUM 15 IN H2O ENGINE ROT. RPM 1800 LPG TANKS 80 ٠ #1: 12 ENGINE VACUUM IN HG GAS METER READING N/A TANK VACUUM 12 IN HG WATER FLOWMETER 2159 GALL. EXHAUST (By others) INLET TO ENGINE MAINTENANCE ES/100/400/800 FOR SPECIFIC OPERATIONS SEE FIELD RECORD WATER SAMPLING -CHECK (WHEN DONE **EFFLUENT** INFLUENT . WELLS) Q.-SEE C.CUST. REMARKS: FREE PRODUCT REMOVED: APPROX. GALLONS WATER REMOVED: APPROX. (GALLONS DATA RECORDED BY : E.G. ASMAN

INPUT BY: M.M.

>\FF\054rsirt



2" 2" 2" PROJECT STATUS REPORT THRIFTY OIL CO. S.S. #054 2504 CASTRO VALLEY BLVD. CASTRO VALLEY, CA 94546

1991 DATE: HONITORING ODORS WELLS CONNECTED TO SYSTEM (W) FREE E OBSERVATION WELLS (S=SLIGHT) PRODUCT CONNECT INTEGRITY VAPOR Q WATER NO. DTW DTP PT YES NO S YES NO YES NO OK NO on off on OFF SMEEN W PW-1 5,67 X W PW-2 663 SHEN X W 5.12 RE-1 ን X N 4.87 RE-2 y X W RE-3 SHEEN 7.30 X W RE-4 FLM X 5.02 SHEEN RE-5 X RE-6 X -9.88 9.85 RE-7 X RE8 9.68 2.28 RE9 reio ENGINE VACUUM IN HG GAS METER READING N/A TANK VACUUM IN HG 12 WATER PLOWMETER GALL. 2159 EXHAUST (By others) INLET TO ENGINE MAINTENANCE ES/100/400/800 FOR SPECIFIC OPERATIONS SEE FIELD RECORD WATER SAMPLING CHECK WHEN DONE **EFFLUENT** INFLUENT WELLS Q. -SEE C.CUST. REMARKS: FREE PRODUCT REMOVED: APPROX. GALLONS WATER REMOVED: APPROX. A GALLONS DATA RECORDED BY : E. G ASMAN INPUT BY: M.M. >\FF\054rsirt

DATE	8.7	.91	·	BTATION N	o. <u>0</u> 5	54	
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WELL	NO.	2=1		WEATHER _	SUN	1144	
PH							
Befor	e Sampl	ing					
Total	Well D	epth /9	85 r	t. Well	Diameter	_4"	
Depth	to Wat	er <u>5.</u>	12	t. Purg	e Volume	<u>38 g</u>	ellans
						·	
Sampl	ing Dat	a	4.0.				
Time	12:28	12130	12131	1240	12145	12175	
EC	<u>1430</u>	1430	1460	1470	<u>1470 </u>	<u> 1470 </u>	
рн	7.59	7.50	7.43	7.40	7.40	740	
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Time					·		
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pН			***************************************				
Temp							
Gal.							
	=	_	'2 pt	. Total	Well Dept	h 19.8	5 _{Ft.}

DATE _	8.7	7-199		BTATION N	o0 §	54	:
PERSON	nnel	E,	GASMA	n/			
					SUN		
SAMPLE	BQUIP	ment	TEFL	ON B	ALER	2	
Before	s Sampl	ing					
Total	Well D	epth <u>17</u>	10 2	t. Well	Diameter	4"	
Depth	to Wate	er <u>4</u> .	87 .	t. Purg	e Volume	31 ga	llons
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Sampli	ing Data	a					
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	7.26	7.30	7.21	7.26	7.25	7.25	
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EC _							
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<u>After</u>	Sampli	ng 7.8	5 1.	· .		1-1 :	<u></u>
Depth	to Wat	er	Pt	. Total	Well Dept	h <u>////</u>	O Ft.

DATE 8.7.91 STATION NO. 054
PERSONNEL E GALMAN
WELL NO. REG WEATHER JUNNY SAMPLE EQUIPMENT TETLON BALER
SAMPLE EQUIPMENT TETLON BALLER
Before Sampling
Total Well Depth 13.65 Ft. Well Diameter 4" Depth to Water 6.27 Ft. Purge Volume 19 gellows
Depth to Water 6.27 Ft. Purge Volume 19 gellows
Sampling Data
Time 11:20 11:25 11:30 11:35
BC 1690 1640 1630 1630
7.30 7.54 7.55 7.55
Time $\frac{11:20}{1690}$ $\frac{11:25}{1630}$ $\frac{11:30}{1630}$ $\frac{11:35}{1630}$ $\frac{11:35}{1630}$ $\frac{11:35}{1630}$ $\frac{7:30}{7.54}$ $\frac{7:54}{72.6}$ $\frac{7:55}{72.6}$ $\frac{7:55}{72.6}$ $\frac{72.6}{19}$ $\frac{72.6}{19}$ $\frac{10}{15}$ $\frac{10}{15}$ $\frac{19}{19}$
Gal. 5 10 15 19
Time
EC
pH
Temp
Gal
After Sampling Depth to Water 7.37 Ft. Total Well Depth 13.65 Ft
Depth to Water / 7 Ft. Total Well Depth /5.64 Ft.

DATE8,7.91	STATION NO
PERSONNEL E.C	GAS MAN
WELL NO. RE8	WEATHER SUMYY
SAMPLE EQUIPMENT	BEFLON BALLER
Before Sampling	
Total Well Depth 25	5.20 Ft. Well Diameter 2"
Depth to Water 9.6	8 Pt. Purge Volume 10 gellow
Sampling Data	· ·
Time 10:35 10:40	10:45 10:50 10:55
BC 1660 1650	1650 1640 1640
7.51 7.69	8.04 8.04 8.04
75.5 75	10:45 10:50 10:55 1650 1640 1640 8.04 8.04 74.4 74.3 74.3 6 8 10
Gal. 2 4	-6 8 10 <u> </u>
Time	<u> </u>
EC	
p H	
Temp	<u> </u>
Gal	
After Sampling Depth to Water 10.0	2 Ft. Total Well Depth 25.20 Ft.

DATE	8.	7.91	· · ·	STATION N	o. <u>05</u>	4					
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			5 p	t. Well	Diameter	2"					
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Dopos	. GO HUC			c. rary	e volume -	0					
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	ing Data		10'05	10:15							
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Before Sampling													
Total Well Depth 24.45 Pt. Well Diameter 2" Depth to Water 6.16 Pt. Purge Volume 12 gellows													
Depth	to Wate	er _ 6.1	<u>6</u>	t. Purg	je Volume _	12 gello	ns						
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PROJECT STATUS REPORT THRIFTY OIL CO. S.S. #054 2504 CASTRO VALLEY BLVD. CASTRO VALLEY, CA 94546

DATE: 9.24, 1991

F	мс	ODORS FREE				WELLS CONNECTED TO SYSTEM (W)						W)						
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М	RS-8	9.8	7		·	-	X	~	-	Y	-	Х	λ	~	7	7		_
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TIM	Œ		A	M/PM)	- 8	:30	i i					CF	CFM 10					
WOR	KING		YE	s/no)	VAPOR FLOW						CI	13					
RES	TARTED	:	YF	S/NO		3 <i>5</i>						СF	гм/н 6					
HOU	RS			#	17	24	24 WELL VACUUM I					IN	IN H2O 10					
ENG	INE ROT	Γ		RPM	18	01 0		L I	G	TAI	NKS		8		#1: 60		1	
ENG	INE VAC	CUUM	I	N HG		4		GAS	MET	ER 1	READI	NG	_	•			I/A	
TAN	IK VACUU	M	1	N HG		<u>5</u>		WAT	rer i	LOW	METEF	\	GAI	L.		21	61	
	AUST others	, .				<u> </u>	<u></u>			·					+			
INI	ET TO	ENGINE																
MAI	NTENANO	CE E	s/1	00/400/8	300			FOR	SPEC	CIFI(C OPE	RATI	CONS S	SEE F	ELI	REC	CORD	
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(_)		(_	_) _				(-)	_				()	Q.	-SEE	C.C	JST.
REM	ARKS:	*		î.														
FRE	E PRODU	UCT RE	JOM:	ÆD: API	ROX	G2	ALLO	NS		WA	TER F	VEMOV	/ED:	APPRO	OX.	113	GALL	ONS
DAT	A RECO	RDED E	BY :	E.GAYM	AN,T	BEA	2,503	Q.	ر		INPU	BY	M.2	4.	>'	FF\	054r	sirt

DATE 9.24.1999	STATION NOO	54
PERSONNEL E.GA SMAN	X 7. ROS	U
WELL NO. RS. 10	WEATHER SUN	' <i>xy</i>
SAMPLE EQUIPMENT 7 = 7	LON BAILER	<u></u>
DAMI DD DYVIII		
Before Sampling		21
Total Well Depth $\frac{24.45}{6.48}$ Depth to Water $\frac{6.48}{}$	Ft. Well Diameter	12 callous
Depth to Water 6.48	Ft. Purge Volume	12 gerans
Sampling Data	0.15	
9:30 9:35 9:36	7 9:41 9:43	9:43
рн <u>7.80</u> 7.70 7.60 рн <u>7.80</u> 7.70 7.60	0 5730 5730	5730
7.80 7.70 7.60	765 7.65	7.66
Temp 82 80 79	77 77	77
	10 11	
Ga1		
Time		
EC	·	
рн		
Temp		
Gal		
After Sampling		
Depth to Water 7. 90	Ft. Total Well Dept	:h 24,45 Ft.
Debon co waser		

DATE 9.24, 1991	STATION NO. O	4
PERSONNEL F. GARMAN WELL NO. R S 9	AN ROSU	TIBERIU
RELL NO R S 9	WEATHER CUT	/M>
SAMPLE EQUIPMENT	FLON BAILE	= R
SAMPLE EQUIPMENT		
•		
Before Sampling		n*/
Total Well Depth	Ft. Well Diameter	<u>~</u>
Depth to Water 2.77	Ft. Purge Volume _	8 gollens
-		•
Compling Data		
<u>Sampling Data</u> Time 10:15 10:17 10:	19 10:20 10.22	10.25
Time 10.13 10.11 10.11	7 1100 1100	1180
ph 7.70 7.53 7.5	1 710 1100	7/2
pH 7.10 1.13 1.3	1 1.42 1.92	7,4 -
Temp $\frac{79}{3}$ $\frac{75}{75}$ $\frac{75}{75}$ Gal. $\frac{3}{3}$ $\frac{4}{5}$	$\frac{1}{2} - \frac{75}{2} - \frac{13}{2}$	
Gal. 3 4 J	_ 6 /	
Time	<u> </u>	
EC		
рн <u></u>		
Temp		
Gal		
After Sampling		15
Depth to Water	Ft. Total Well Dept	th AD Ft.

DATE 9.24.199 STATION NO. 054
PERSONNEL EVŒNÍU GALMA TIBERÍU ROSU WELL NO. RS. & WEATHER SUNKY
WELL NO. RS. WEATHER SUNKY
SAMPLE EQUIPMENT TETLON BAILER
Before Sampling
Total Well Depth 25.20 Ft. Well Diameter 2" Depth to Water 9.89 Ft. Purge Volume 10 gollows
Depth to Water 9.89 Ft. Purge Volume 10 gollows
Sampling Data
Time 11.00 11:03 0:05 11:07 11:08 11:10 BC 1670 1650 1620 1610 1610 1610
BC 1670 1650 1600 1610 1610 1610
$pH = \frac{7.35}{7.33} = \frac{7.33}{7.43} = \frac{7.33}$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Gal. 4 6 7 8 9 10
Time
EC
рн не
Temp
Gal
Depth to Water 12.05 Ft. Total Well Depth 25.20 Ft.
Depth to Water Ft. Total Well Depth Ft.

DATE 9.24.1991	STATION NO		4_	 ·
personnel $\frac{F \cup G \cup G \cup G}{R \in A}$	SASMAN,	TIBERIO	15 Ke	18U
WELL NO. RE 1	WEATHER	5UX	1XY_	
13	TLON -			
SAMPLE EQUIPMENT	1-011	PIII	<u>, , , , , , , , , , , , , , , , , , , </u>	
Before Sampling	•), 11	
Total Well Depth 1986 Depth to Water 5.87	_ Ft. Well	Diameter _	7+ 0.4 0	
Depth to Water	_ Ft. Purge	volume	3/0 Cre	llous
-				
Sampling Data				-
11 /4 /1/80 /1:	JJ 18:00	12105	12.22	
Time /1:45 /1:80 /1: Ec 1440 /400 /3	80 1280	1380	1380	
ph 7.40 7.29 7.	23 7.23	7.23	7.23	
PH 1170 71 71	77	73	73	
Temp $\frac{80}{5}$ $\frac{76}{10}$ $\frac{76}{13}$	$\frac{7}{20}$	25	36	
Gal. 5 10 //	20		<u> </u>	
Time				
				
EC				
рн				
Temp				
Gal				
After Sampling	•			
Depth to Water 7.10	pt Total	Well Depth	17.10) Ft.
Depth to Water	_ rt. Ivear	"CIT DOP		7 1

DATE _ PERSOI WELL I	nnel no e equipm	# 19 E - G1 F 2	9/ BT ARMADA J WI	EATHER _	BALE	74 1 Ros NAY R	\\\\
Befor	e Sampli	ng	1.1.7			1,11	
Total	Well De	pth <u> </u>	Ft.	. Well	Diameter	4" 30 Go	012.
Depth	to Wate	<u> </u>	JO Pt	. Purg	e Volume _	50 90	evus
Sampl	ing Data	4		1.10	1:15	1.20	
Time	12:50	1:00	1:08	1:10	7.73	1,20	
EČ	1600	1580	1270	1510	1500	1100	
pН	7.40	7.21	7.16	7.16	7./6	1:20 1500 7.16 728	
Mamm	, ,	10	7 30	/ /	730	<u>, , , , , , , , , , , , , , , , , , , </u>	
Gal.	5	10	15	20	25	<u> 30</u>	
							
Time							
EC							
pН							
Gal.							······································
<u>Afte</u>	r Sampli h to Wat	ng er <u>7</u> ,	05 Ft	. Total	Well Dept	.h	<i>O</i> Ft.

DATE _	9.2	4.199	<u>/</u>	TATION NO	054	<u> </u>	
PERSO	NNEL	EUGEN	y'U SA	EMA OR	TIBER	ivs Ro	SV
WELL 1	NO	REG	w	EATHER	SUNI	Y Yvs Ro Xy	
SAMPL:	E EQUIPA	MENT	707L0	M B.	ALER		
Befor	e Sampl:	ing					
Total	Well De	epth /3	65 Ft	. Well	Diameter	41	ollous
Depth	to Wate	er 6	63 Pt	. Purge	Volume _	18 8	ellous
Dop v				-		U	
Campi	ing Dat:	_					
e. Pambr	ing Data	9.15	2:20	2125	2:30	2135 1200 7.18 77 18	
Time	1420	1300	1010	870	980	1200	
EC	7.20	7.25	7.2.2	718	7.18	7.18	
рH	79	78	77	77	77	77	
Temp	$\frac{}{2}$	$\frac{1}{C}$	9	13	15	18	
Gal.		<u> </u>					
Time							
EC							
рН							
Temp							
		_					Ţ.
<u>Afte</u> :	r Sampli	ing 🕏	in			/)	6.5
Dept	h to Wat	ter _ 0	/U Ft	. Total	Well Dept	h _/3.	Ft.

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 $SE^{\frac{7}{781}}$

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Anaheim, California 92807

• (714) 693-1026

Fax: (415) 822-5864
Fax: (714) 693-1034

THRIFTY OIL COMPANY FILE# 7144 10000 LAKEWOOD BLVD. DOWNEY, CA. 90240 07/23/91

Attn: NICK CIORTAN

213/923/9876

SS# 054

CHAIN OF CUSTODY P.O.#35473

Sample #: 1200135601

Received: 07/19/91

Type: WATER

Collector: Client

Sampling Date & Time: 07/17/91, 1440

Method: SUBMITTED BY CLIENT

I.D.: WELL RE - 1

=======CONSTITUENT=======	====METHOD=====	==RESULT== ===UNIT===
EPA 8015		ANALYZED 07/22/91
GASOLINE	EPA 8015	5500 UG/L
EPA 602		ANALYZED 07/22/91
BENZENE	EPA 602	950 UG/L
TOLUENE	EPA 602	ND <10 UG/L
ETHYLBENZENE	EPA 602	26 UG/L
XYLENES	EPA 602	ND <20 UG/L

EPA 8015

EPA 602

EPA 602 EPA 602

Sample #: 1200135602

Received: 07/19/91

Type: WATER

Collector: Client

Sampling Date & Time: 07/17/91, 1455

ANALYZED 07/22/91

880 **UG/L** ANALYZED 07/22/91

12 UG/L 8.0 UG/L

4.3 UG/L

Method: SUBMITTED BY CLIENT

I.D.: WELL RE - 2

EPA 8015
GASOLINE
EPA 602
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES

RECEIVEL

RECEIVED

ACCOUNTS PAYABLE

ACCT. # CATE

CHECK

Page: 1 (cont.)

[ND = None Detected; (G) = Grab; MDL = Minimum Detection Limit]

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• Fax: (213) 746-7228

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Anaheim, California 92807

(714) 693-1026

• Fax: (714) 693-1034

Sample #: 1200135603 Collector: Client

Sampling Date & Time: 07/17/91, 1505 Method: SUBMITTED BY CLIENT Received: 07/19/91 Type: WATER

I.D.: WELL RE - 6

=======CONSTITUENT=======	± ==:	=METHOD=====	==RESULT==	===UNIT===
EPA 8015			ANALYZED	07/22/91
GASOLINE	EPA	8015	120,000	UG/L
EPA 602			ANALYZED	07/22/91
BENZENE	EPA	602	9300	UG/L
TOLUENE	EPA	602	13,000	UG/L
ETHYLBENZENE	EPA	602	2400	UG/L
XYLENES	EPA	602	16,000	UG/L

Sample #: 1200135604 Collector: Client

Sampling Date & Time: 07/15/91, 1030 Received: 07/19/91

Method: SUBMITTED BY CLIENT Type: WATER

I.D.: TRIP BLANK

EPA 8015		•	ANALYZED	07/22/91
GASOLINE	EPA	8015	ND <50	UG/L
EPA 602			ANALYZED	07/22/91
BENZENE	EPA	602	ND <0.5	UG/L
TOLUENE	EPA	602	ND <0.5	UG/L
ETHYLBENZENE	EPA	602	ND <1.0	UG/L
XYLENES	EPA	602	ND <1.0	UG/L

Respectfully submitted,

Manager Chemical Lab

Page:

[ND = None Detected; (G) = Grab; MDL = Minimum Detection Limit]

						AIN OF CU	STC	יחי	, E	OP.	M	· · · · ·			-	
P.O. # 3547	3 Clie	ent and	Site Locati	on:	MONTHL	 	ANALYTICAL METHOD						ÆT	'HO	D	Submit Results To:
	THRI	FTY OII	. co., ss #		SAMPLI		TP	в								THRIFTY OIL CO. 10000 LAKEWOOD BLVD. DOWNEY, CA 90240
Sample Number	Date		Depth Below Grade (ft)	Sample Type	Suspect Contam- ination	No. of Con- tainers (VIALS)	*	Ħ								Attn: CONSTANTIN TUCULESCU Phone No. (213) 923 - 9876 REMARKS
WELL PW-1	₹0			GRAB	GASOLINE	4	х	x	-	-	-	- -	- -	-	-	MONTHLY WATER SAMPLING
WELL PW-2	₩			GRAB	GASOLINE	4	х	x	-	-	-	-1-	- -	-	-	* COMBINED TEST
WELL RE-1	7-17-91	2:40 ₹	8	GRAB	GASOLINE	4	х	х	-	-	-	-]-	- -	- -	-	
WELL RE-2	7.17.91	2:55P	8	GRAB	GASOLINE	4	Х	х		=	-	- [-	- [-	-		
WELL RE-3	₩			GRAB	GASOLINE	4	Х	X	-	-	-	- -	· [-	<u> </u>	_	·
WELL RE-4	94			GRAB	GASOLINE	4	х	х	-	-	-	- -	·	<u> -</u>	-	
WELL RE-5	80			GRAB	GASOLINE	4	x	X	-	-	-	- -	·	<u> -</u>	Ŀ	
WELL RE-6	7.17.91	3:05€	9	GRAB	GASOLINE	4	х	x	-	_	-	- -	<u>-</u>	-	Ŀ	
WELL RE-7	70			GRAB	GASOLINE	4	х	X		-	-	_ -	- -	<u> </u>		
TRIP BLANK	7.15.91	10:30 A			-	2	x	X	-	_	-	-	· -	<u> </u> -		
i								L						L		;
*	NOT	SAMP	ED , FREE	PROM	us Pho	MED.						\perp	\perp	L		
		ļ.,				<u> </u>							\perp		<u>L</u>	
Sample Inte	grity:						L							,,		
Samples Intact: Yes V No				11 /		_		_	ed	_			Date / Time Received by:			
Samples Properly Cooled: Yes No			6	W		<u> </u>	4	<u>~</u>		$\widehat{}$	1	7/17 4:15pm Pallel Marc				
Samples Accepted: Yes V No				Re	11	nq	ui	sh	ed	bу	:		Date / Time Received by:			
If not, why	/:															
Samples Placed in Lab Refrigerator Yes No Rep. Initials					Re	11	nq	ui	sh	ed	by	:	I	Date / Time Received for Lab by:		
Laboratory	Name:	SMITH -	- EMERY COMP	ANY			Се	rt	if	ic	at	ior) N	o.	ı	

SMITH-EMERY COMPANY



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- Anaheim, California 92807
- (714) 693-1026
- Fax: (714) 693-1034

THRIFTY OIL COMPANY FILE# 7144 10000 LAKEWOOD BLVD. DOWNEY, CA. 90240

08/14/91

Attn: NICK CIORTAN

213/923/9876

SS # 054

CHAIN OF CUSTODY

Sample #: 1221114801

Received: 08/09/91

Type: WATER

Collector: Client

Sampling Date & Time: 08/07/91, 1400

Method: GRAB

I.D.: WELL RE - 1

========CONSTITUENT========	====METHOD=====	==RESULT== ===UNIT===
EPA 602		ANALYZED 08/12/91
BENZENE	EPA 602	6700 UG/L
TOLUENE	EPA 602	5000 UG/L
ETHYLBENZENE	EPA 602	ND <200 UG/L
XYLENES	EPA 602	7100 UG/L

Sample #: 1221114802

Received: 08/09/91

Type: WATER

Collector: Client

Sampling Date & Time: 08/07/91, 1350

Method: GRAB

I.D.: WELL RE - 2

EPA 602 ANALYZED 08/12/91 BENZENE EPA 602 3.8 UG/L TOLUENE EPA 602 1.6 UG/L ETHYLBENZENE EPA 602 ND <1.0 UG/L XYLENES EPA 602 ND <1.0 UG/L

Sample #: 1221114803

Received: 08/09/91

Type: WATER

Collector: Client

Sampling Date & Time: 08/07/91, 1335

Method: GRAB

I.D.: WELL RE - 6

EPA 602

ANALYZED 08/12/91

Page: 1 (cont.) [ND = None Detected; (G) = Grab; MDL = Minimum Detection Limit]

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ND <0.5 UG/L

=======CONSTITUENT======== ===METHOD===== ==RESULT== ===UNIT=== BENZENE EPA 602 590 UG/L EPA 602 EPA 602 EPA 602 TOLUENE 5.3 UG/L ETHYLBENZENE ND <1.0 UG/L XYLENES 14 UG/L Sample #: 1221114804 Collector: Client
Sampling Date & Time: 08/07/91, 1325
Method: GRAB Received: 08/09/91 Type: WATER Method: GRAB I.D.: WELL RS - 8 EPA 602 ANALYZED 08/12/91 BENZENE EPA 602 ND <0.5 UG/L TOLUENE EPA 602 ND <0.5 UG/L ETHYLBENZENE EPA 602 ND <1.0 UG/L XYLENES EPA 602 ND <1.0 UG/L Sample #: 1221114805 Collector: Client Sampling Date & Time: 08/07/91, 1310 Received: 08/09/91 Type: WATER Method: GRAB I.D.: WELL RS - 9 EPA 602 ANALYZED 08/12/91 BENZENE EPA 602 0.5 UG/L TOLUENE ND <0.5 UG/L EPA 602 ETHYLBENZENE EPA 602 330 UG/L XYLENES EPA 602 1200 UG/L Sample #: 1221114806 Collector: Client Received: 08/09/91 Sampling Date & Time: 08/07/91, 1255 Type: WATER Method: GRAB I.D.: WELL RS - 10 EPA 602 ANALYZED 08/12/91 BENZENE EPA 602 ND <0.5 UG/L

Page:

TOLUENE

2 (CONt.) [ND = None Detected; (G) = Grab; MDL = Minimum Detection Limit]

12211148

EPA 602

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• Fax: (415) 822-5864 • Fax: (714) 693-1034

Sample #: 1221114807

Received: 08/09/91

Type: WATER

Collector: Client

Sampling Date & Time: 08/05/91, 1245

Method: GRAB

I.D.: TRIP BLANK

EPA 602 ANALYZED 08/12/91 BENZENE ND <0.5 UG/L **EPA 602** TOLUENE EPA 602 ND <0.5 UG/L ETHYLBENZENE **EPA 602** ND <1.0 UG/L XYLENES EPA 602 ND <1.0 UG/L

Respectfully submitted,

					СН	AIN OF CU	STC	DY	F	ORA	4										•
P.O. #	Clie	nt and	Site Locati	on:	MONTHLY SAMPLIN		A	ANALYTICAL METHOD Submit Results To:													
Samplers (S	ignatur		Gesmo		SAMPLIN		T P H								11	THRIFTY 10000 I DOWNEY	LAKEWOO	DD BLVD.			
Sample Number	Date		Depth Below Grade (ft)	Sample Type	Suspect Contam- ination	No. of Con- tainers	B T X E		*							Attn: Phone I	CONSTA	ANTIN TUC 13) 923 -	ULESCU 9876		
,				•		(VIALS)	*									•		REMARK	s		
WELL PW-1	}\ 0			GRAB	GASOLINE	4	х	-	-	- -	- -		-		-	MONTHL	Y WATE	R SAMPLIN	G		
WELL PW-2	*			GRAB	GASOLINE	4	Х	-	<u>-</u>	-]	- -	-	-		-	* COM	BINED ?	rest	· · · · · · · · · · · · · · · · · · ·		
WELL RE-1	87.91	2:001	, 8	GRAB	GASOLINE	4 ×	X	-	<u>-</u>	<u>- </u>	- -	<u> -</u>	-	<u>- </u>	-					<u> </u>	
WELL RE-2	8-7-91	1:501	' 8	GRAB	GASOLINE	4 _M	Х	-	-	-	- -	-	<u> -</u>	<u>-</u>							
WELL RE-3	*			GRAB	GASOLINE	4	Х		<u>-</u>	<u>- </u>	- -	_	<u> -</u>	-	-	A NOT	34	MPLZO	PREE	· P	Robuel
WELL RE-4	*			GRAB	GASOLINE	4	x	<u> - </u>	<u>- </u>	<u>- </u>	<u>- -</u>	-	-		-		FLOA	7EB.			
WELL RE-5	75			GRAB	GASOLINE	4	х	-	<u>-</u>	<u>-</u>	- -	_	<u> -</u>		_ _						
WELL RE-6	8.7.71	1:351	9	GRAB	GASOLINE	4 ×	Х	-	-	<u>- </u>		-	-								
WELL RE-7	70			GRAB	GASOLINE	4	Х	Ŀ	<u>-</u>	<u>- </u>	- -	-	-					- 10			
WELL RS-8	8.7.91	1:25	12	GRAB	GASOLINE	4 x	х	-	-	_]	- -	上	<u> -</u>		-						
WELL RS-9	8.7.91	1:10/	5	GRAB	GASOLINE	4 <i>j</i>	х	-	-	-	- -	<u>Ŀ</u>	_	- 1	-						
WELL RS-10	3.7.91	12:55	9	GRAB	GASOLINE	4 x	х	-	-	-	- -	· -	<u> -</u>	<u>- </u>	-						
TRIP BLANK	8.5.91	12:459	11/9	-	-	2 X	х	<u>-</u>	-	<u>-</u>		<u> </u>	<u> -</u>	-	<u>-L</u>						
Sample Inte	grity:						26 Viels Received														
Samples Int	act:			Yes	No.)	R	eli	nq	ui	she	d l	by:			ite /	Time	Received	っつか		
Samples Pro	perly (Cooled:		Yes	No	>	16	رسإ	j		4				8.7	191	31.03	Caller		UZ)	`
Samples Accepted: Yes No						Re	eli	nq	ui	she	d :	by:	: [Da	te /	Time	Received	by:			
If not, why	·:																				
Samples Placed in Lab Refrigerator Yes No Rep. Initials					- R	Relinquished by: Date / Time Received for Lab by:															
Laboratory	Name:	SMITH .	- EMERY COM	PANY		·	Certification No.:														

SMITH-EMERY COMPANY

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 Fax: (714) 693-1034

5427 East La Paima Avenue

THRIFTY OIL COMPANY FILE# 7144 10000 LAKEWOOD BLVD. DOWNEY, CA. 90240

09/28/91

Attn: NICK CIORTAN v

213/923/9876

P.O.# 35763, SS # 054

CHAIN OF CUSTODY

Sample #: 1269172101

Received: 09/26/91

Type: WATER

Collector: Client

Sampling Date & Time: 09/24/91, 1655

Method: GRAB

I.D.: WELL RE-1

=======CONSTITUENT=======	====	=METHOD====	==RESULT==	===UNIT===
EPA 8015			ANALYZED	09/27/91
GASOLINE	EPA	8015	60,000	UG/L
EPA 602			ANALYZED	09/27/91
BENZENE	EPA	602	6800	UG/L
Toluene	EPA	602	4300	UG/L
ETHYLBENZENE	EPA	602	640	UG/L
XYLENES	EPA	602	6900	UG/L

Sample #: 1269172102

Received: 09/26/91

Type: WATER

Collector: Client

Sampling Date & Time: 09/24/91, 1710

Method: GRAB

I.D.: WELL RE-2

EPA 8015			ANALYZED	09/27/91
GASOLINE	EPA	8015	670	UG/L
EPA 602			ANALYZED	09/27/91
BENZENE	EPA	602	7.2	UG/L
TOLUENE	EPA	602	7.1	UG/L
ETHYLBENZENE	EPA	602	ND <1.0	UG/L
XYLENES	EPA	602	23	UG/L

Page: 1 (cont.) END = None Detected; (G) = Grab; MDL = Minimum Detection Limit)

SMITH-EMERY COMPANY

The Full Service Independent Testing Laboratory, Established 1904

781 East Washington Boulevard P.O. Box 880550, Hunter's Point Shipyard Bldg. 114

 Los Angeles, California 90021 San Francisco, California 94188

(213) 749-3411 (415) 330-3000 • (714) 693-1026

• Fax: (213) 746-7228 • Fax: (415) 822-5864 • Fax: (714) 693-1034

5427 East La Palma Avenue

Sample #: 1269172103

Received: 09/26/91

Anaheim, California 92807

Collector: Client

Sampling Date & Time: 09/24/91, 1730

Method: GRAB

I.D.: WELL RE-6

Type: WATER

========CONSTITUENT========	====	=METHOD=====	==RESULT==	===UNIT===
EPA 8015			ANALYZED	09/27/91
GASOLINE	EPA	8015	7000	UG/L
EPA 602			ANALYZED	09/27/91
BENZENE	EPA	602		UG/L
TOLUENE	EPA	602	11	UG/L
ETHYLBENZENE	EPA	602	5.3	UG/L
XYLENES	EPA	602	35	UG/L

Sample #: 1269172104 Collector: Client

Sampling Date & Time: 09/24/91, 1630 Method: GRAB Received: 09/26/91

Type: WATER

I.D.: WELL RS-8

EPA 8015		,	ANALYZED 09/27/91
GASOLINE	EPA	8015	ND <50 UG/L
EPA 602			ANALYZED 09/27/91
BENZENE	EPA	602	ND <0.5 UG/L
TOLUENE	EPA	602	ND <0.5 UG/L
ETHYLBENZENE	EPA	602	ND <1.0 UG/L
XYLENES	EPA	602	ND <1.0 UG/L

Sample #: 1269172105 Collector: Client

Received: 09/26/91 Sampling Date & Time: 09/24/91, 1615

Type: WATER Method: GRAB

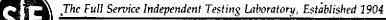
I.D.: WELL RS-9

EPA 8015		ANALYZED 09/27/91
GASOLINE	EPA 8015	13,000 UG/L
EPA 602		ANALYZED 09/27/91
BENZENE	EPA 602	3.5 UG/L
TOLUENE	EPA 602	3.0 UG/L

2 (cont.) Page:

[ND = None Detected; (G) = Grab; MDL = Minimum Detection Limit]

Smith-Emery Company



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 San Francisco, California 94188 5427 East La Palma Avenue

Anaheim, California 92807

• (714) 693-1026 • Fax: (714) 693-1034

• (415) 330-3000 • Fax: (415) 822-5864

======CONSTITUENT========	====METHOD=====	==RESULT==	===UNIT===
ETHYLBENZENE	EPA 602		UG/L
XYLENES	EPA 602	140	UG/L

Sample #: 1269172106 Collector: Client

Received: 09/26/91 Sampling Date & Time: 09/24/91, 1600 Method: GRAB

Type: WATER

I.D.: WELL RS-10

EPA 8015		ANALYZED 09/27/91
GASOLINE	EPA 8015	ND <50 UG/L
EPA 602		ANALYZED 09/27/91
BENZENE	EPA 602	ND < 0.5 UG/L
TOLUENE	EPA 602	ND $< 0.5 \text{ UG/L}$
ETHYLBENZENE	EPA 602	ND <1.0 UG/L
XYLENES	EPA 602	ND <1.0 UG/L

Sample #: 1269172107 Collector: Client

Sampling Date & Time: 09/23/91, 1300 Method: GRAB Received: 09/26/91

Type: WATER

I.D.: TRIP BLANK

EPA 8015			ANALYZED	09/27/91
GASOLINE	EPA	8015	ND <50	UG/L
EPA 602			ANALYZED	09/27/91
BENZENE	EPA	602	ND <0.5	UG/L
TOLUENE	EPA	602	ND <0.5	UG/L
ETHYLBENZENE	EPA	602	ND <1.0	UG/L
XYLENES	EPA	602	ND <1.0	UG/L

Respectfully submitted,

Shahid Noori, Manager Chemical Lab

Page:

[ND = None Detected; (G) = Grab; NDL = Minimum Detection Limit]

	· · · · · · · · · · · · · · · · · · ·				CH	AIN OF CU	STO	DY	FC	RM		····-				
P.O. # 35763 Client and Site Location: MONTHI THRIFTY OIL CO., SS # 054 SAMPLI					MONTHLY		ANALYTICAL METHOD							D	Submit Results To:	
Samplers (S			Garmy	054	SAMPLIN	G	T P H								THRIFTY OIL CO. 10000 LAKEWOOD BLVD. DOWNEY, CA 90240	
Sample Number	Date		Depth Below Grade (ft)	Sample Type	Suspect Contam- ination	No. of Con- tainers (VIALS)	B T X E								Attn: CONSTANTIN TUCULESCU Phone No. (213) 923 - 9876 REMARKS	
WELL PW-1	VL.			GRAB	GASOLINE	4	╫╌┼		+	-	┢	-	_	+	MONTHLY WATER SAMPLING	
WELL PW-2	*			GRAB	GASOLINE	4	x	_	+	+	+		_ -	- -	* COMBINED TEST	
WELL RE-1		4: SSPM	9	GRAB	GASOLINE	4	╫┈┼	╡.	- -	- -	-	-	_ -	- -		
		5:10 PM	<u> </u>	GRAB	GASOLINE	4	х	_	- -	:†-	1-	-	_ -	- -	1	
WELL RE-3	**	3.13114	<i>J</i>	GRAB	GASOLINE	4	x	- -	- -	- -	†-	-1	_ -	- -		
WELL RE-4	*			GRAB	GASOLINE	4	х	- -	- -	- -	-	-	- -	- -		
WELL RE-5	*	5 -to-P M		GRAB	GASOLINE	4	х		- -	-	F	-	- -	- -		
WELL RE-6		5:307M	10	GRAB	GASOLINE	4	х	- -	- -	- -	F	-1	- -	- -		
WELL RE-7	}\	· · · · · · · · · · · · · · · · · · ·		GRAB	GASOLINE	4	х	- -	- -	- -	-	-	- -	- -		
WELL RS-8	9-2491	4:30 M	/3	GRAB	GASOLINE	4	х	- -	- -	- -	 -	-1	- -	- -		
WELL RS-9				GRAB	GASOLINE	4	х	- -	- -	- -	-	-1		- -		
WELL RS-10				GRAB	GASOLINE	4	х	-1	- -	- -	-	-	-1-	- -		
TRIP BLANK				-	-	2	Х	- -	- -	- [-	-	=	=]-	- [-		
Sample Inte	grity:						*	< N	70	٤	۸Ą	PL	e	7	FREE PROBULT FLOATED	
Samples Int	act:			Yes	No	·				ıis					Date / Time Received by:	
Samples Pro	perly (Cooled:		Yes	No		1	8	شد.	<u>.</u> 9	603	~~		\perp^{ℓ}	9-25 1:28 Casts J. March	
Samples Acc	cepted:			Yes	No	·	Re	li	nqı	ıis	hed	i b	y:		Date / Time Received by:	
If not, why	/:															
Samples Placed in Lab Refrigerator Yes No Rep. Initials					Re	Relinquished by: Date / Time Received for Lab by:					Date / Time Received for Lab by:					
Laboratory	Name:	SMITH -	- EMERY COM	PANY			Certification No.:									