

Environmental Consultants

February 1, 2008

Mr. Jerry Wickham Hazard Materials Specialist Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 **RECEIVED**

1:34 pm, Feb 05, 2008

Alameda County Environmental Health

Reference: Rotten Robbie No 64

(Formerly East Avenue Services)

4186 East Avenue, Livermore, California

Fuel Leak Case No. RO0002881

Subject: Groundwater Monitoring Report No. 1 - 4th Quarter 2007

January 22, 2007

Dear Mr. Wickham:

Enclosed is a copy of the subject report for the referenced site. The report was prepared and is submitted by RMA Associates, Inc, on behalf of Robinson Oil Corporation (ROC).

The report and this cover letter will be submitted electronically according to your requirements for electronic submission and has also been uploaded to GeoTracker.

RMA hereby certifies under the penalty of perjury, that to the best of our knowledge, all information and data presented in the report are true and correct. Mr. Robinson has reviewed the report and has authorized its transmittal. Mr. Robinson's transmittal letter is included in Appendix D of the report.

Should you have any questions regarding this report, please contact Thomas Robinson of Robinson Oil Corporation at (408) 257-2222, or the undersigned at (209) 295-6218.

Sincerely,

RM ASSOCIATES

Ronald W. Michelson, RG (CA 3875)

Principal Geologist

Cc: Tom Robinson, Robinson Oil Corporation

Enclosures:

GROUNDWATER MONITORING REPORT NO. 1 – 4TH QUARTER 2007

Rotten Robbie No. 64 4186 East Avenue Livermore, California Fuel Leak Case No. RO0002881

Prepared for: Robinson Oil Corporation 4250 Williams Road San Jose, California 95129

Prepared by: RM Associates 16401 Meadow Vista Drive, Suite 102 Pioneer, California 95666

Project No. 101-6404 January 22, 2008



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GROUNDWATER MONITORING REPORT NO. 1 – 4TH QUARTER 2007

Rotten Robbie No. 64 (Formerly East Avenue Services) 4186 East Avenue, Livermore, California

January 22, 2008

1.0 INTRODUCTION

This "Groundwater Monitoring Report No. 1, 4th Quarter 2007" has been prepared by RM Associates, Inc. (RMA) on behalf of Robinson Oil Corporation (ROC), San Jose, California. The report presents the results of field measurements and groundwater analytical results conducted during the 4th quarter 2007 and in this instance during the 1st quarter 2008. The results presented herein should be considered in context with the data and information presented in two previous reports:

"Report of Phase II Environmental Assessment," by RMA, dated May 13, 2005

2.0 SITE DESCRIPTION AND BACKGROUND

Site Location

4186 East Avenue Livermore, California

Contact: Mr. Thomas L. Robinson (408) 257-2222

Figure 1 is a generalized street map showing the general vicinity of the site. The site had been operated until July 2005 as East Avenue Services, a retail automotive fueling and service station facility that had five underground storage tanks (USTs) and two dispenser islands. The former USTs consisted of four 4,000-gallon tanks and one 6,000-gallon tank all containing gasoline.

2.1 Phase II Environmental Assessment

In April 2005, preliminary to a property transaction, RMA conducted a routine Phase II Environmental Assessment (P2EA) that involved the installation of seven shallow soil borings and the collection and analysis of eleven soil samples and five groundwater grab samples. The results of this assessment are presented in the May 13, 2005 report cited above.

Figure 2 is a site diagram showing the location of the former building structure on the property, the former USTs and fuel dispensing islands, the locations of the soil sample and groundwater grab sample collection, and the locations of the three monitoring wells that have been installed on the site. The description and results of this activity are presented in the May 30, 2007 report cited above.

[&]quot;Report of Preliminary Site Investigation Including UST Removal," by RMA dated May 30, 2007

2.2 UST Removal

During the week of March 26, 2007 the building structure and fuel dispensing facilities were demolished and removed from the site. On April 3, 2007 the five USTs, the product lines, and dispensers were removed from the site. During the removal activities, 10 soil samples were collected from the native soil beneath the USTs, and five samples were collected from the native soil beneath the product lines. All UST sampling was performed under the oversight of Ms. Danielle Stefani of the Livermore - Pleasanton Fire Department. There were no hydrocarbons detected in any of the 10 soil samples. The description and results of this activity are presented in the May 30, 2007 report cited above.

2.3 Monitoring Well Installations

On May 2, 2007, three monitoring wells MW-1, MW-2, and MW-3 were installed on the site at the locations illustrated on Figure 2. The well installation activity, soil boring logs, and soil analytical results are presented in the May 30, 2007 report cited above. The well construction details are presented herein as Table 1.

2.4 Initial Groundwater Sampling and Results

The groundwater monitoring wells MW-1, MW-2, and MW-3 were sampled on May 7, 2007. Although the depth to water was measured in each of the wells, the groundwater elevations with respect to mean sea level (MSL) could not be determined because, since the site was undergoing extensive renovation, the well vaults could not be set and therefore, the well casing elevations could not be surveyed. The field measurements, observations and analytical results for the initial monitoring well samples, were presented in the May 30, 2007 report cited above and are also included in Tables 2 through 6 of this groundwater monitoring report.

3.0 GROUNDWATER MONITORING

3.1 Groundwater Elevation Measurements and Sampling

On November 30, 2007, sampling subcontractor GeoRestoration, Inc. collected groundwater samples from two on-site monitoring wells, MW-1 and MW-3. A sample could not be collected from monitoring well MW-2 because the water table had subsided beneath the bottom of the well. Prior to sampling, the two wells were developed by purging at least 3 well volumes from each well using a stainless steel bailer. The purge data for both the May 07 and November 07 monitoring events are presented in Table 3.

Prior to groundwater sampling, depths to groundwater were measured in each of the three wells. However, at this time, the renovation of the site had not yet been completed and the wellhead survey had not been performed.

After site renovation was completed in late December 2007, the wellhead elevations were surveyed by a licensed surveyor, Mid Coast Engineers, on January 8, 2008. GeoRestoration, Inc. performed depth to water measurements on January 15, 2008. Having both the wellhead

elevations and the depth to water measurements available, it was finally possible to determine the groundwater elevation with respect to MSL, the groundwater gradient, and the flow direction. The groundwater elevations in each well are presented in Table 3. The groundwater elevation contours, groundwater gradient, and groundwater flow direction are illustrated in Figure 3. The groundwater gradient on January 15, 2008 was approximately 0.015 ft./ft. to the southwest.

3.2 Field Measurements and Groundwater Analytical

Field measurements made during purging and sampling are presented in Table 4 and also on the purge and sampling worksheets provided in Appendix B.

Groundwater samples obtained from monitoring wells MW-1 and MW-3 were submitted to Entech Analytical Laboratory (Entech), California DHS certified, to perform the requisite chemical analyses. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, total xylenes, methyl tert-butyl ether (MTBE), tert-butanol (TBA), diisopropyl ether (DIPE), ethyl-tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB), all by EPA method 8260B. They were also analyzed for total petroleum hydrocarbons as gasoline (TPHg) by a GC-MS variation of EPA method 8260.

4.0 SUMMARY OF ANALYTICAL RESULTS

The analytical results for the groundwater samples are presented in Tables 5 and 6. Copies of the signed laboratory analytical reports and chain-of-custody forms are provided in Appendix C.

During this monitoring event, petroleum hydrocarbon concentrations were detected only in the groundwater sample from monitoring well MW-1 with TPHg, benzene, and MTBE concentrations at $600 \mu g/L$, $30 \mu g/L$, and $180 \mu g/L$, respectively. A distribution of groundwater analytical results, showing the results for the last (or only) samples from each sampling point is presented in Figure 4. Based on the same information, iso-concentration contours for the distribution of TPHg, benzene, and MTBE concentrations are presented in Figures 5, 6, and 7, respectively.

5.0 CONCLUSIONS/RECOMMENDATION

The results presented in this groundwater monitoring report and from previous investigations show a relatively small area of hydrocarbon impacted groundwater in an area in the general vicinity of former soil boring W-1 and monitoring well MW-1. The analytical results for the groundwater sampled from monitoring well MW-1, are likely far more representative of the shallow groundwater condition in this area, than are the results for the grab sample collected at the top of the water table from soil boring W1. The results also indicate that no appreciable amount of contaminant migration has occurred.

Fuel Leak Case No. RO0002881 Groundwater Monitoring Report No. 1 – 4th Quarter 2007

It is RMA's opinion that the petroleum hydrocarbon condition at this site does not pose any eminent hazard to either public health or safety or to the underlying groundwater resources. Therefore, it is recommended that groundwater monitoring should be conducted for at least three additional quarterly monitoring periods before further decisions are made regarding any additional investigative effort, and before any specific remedial actions are considered.

As shown on Table 7, the next groundwater monitoring event is currently scheduled for February 2008.

6.0 CERTIFICATION

We certify that, to the best of our knowledge all statements above and data provided herein are true and correct. This report has been reviewed and approved by ROC. A copy of their transmittal letter is presented as Appendix D.

RM Associates

Ronald W. Michelson Principal Geologist

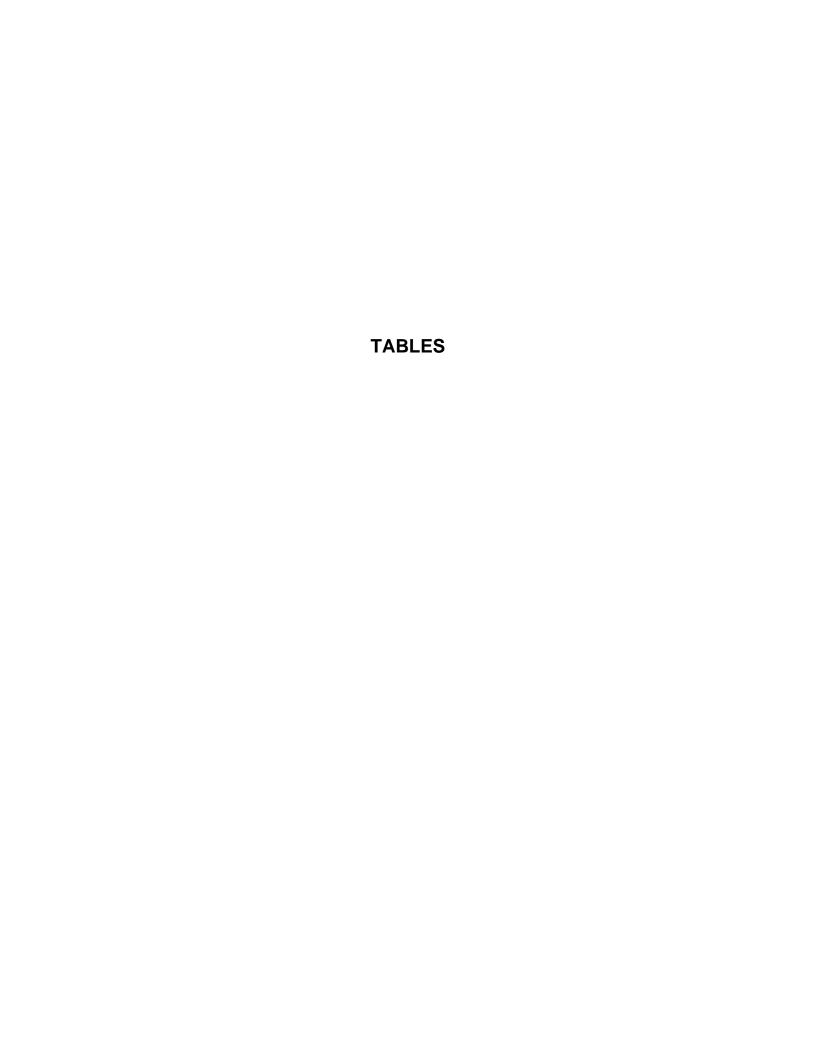
OF CALIFORNIA

7.0 DISTRIBUTION

Mr. Tom Robinson Robinson Oil Corporation 4250 Williams Road San Jose, CA 95129

Mr. Jerry Wickham Hazard Materials Specialist Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Mr. Wyman Hong Zone 7 Water District 100 N. Canyon Parkway Livermore, CA 94551



RM Assoiciates

TABLE 1- WELL CONSTRUCTION DETAILS Rotten Robbie 64, 4186 East Avemie. Livermore, California

Monitoring Well	Drilling Date	Borehole Diameter (inches)	Depth of Borehole (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)	Bentonite Seal Interval (feet)	Cement/ Bentonite Seal Interval (feet)
MW-1	05/02/01	8	30	2	15-30	13-30	10-13	0-10
MW-2	05/02/01	8	29	2	14-29	5-22	9-12	0-9
MW-3	05/02/01	8	30	2	15-30	13-15	10-13	0-10

Notes: MW- denotes monitoring well

RM Assoiciates										
TABLE 2 - PURGE DATA										
Rotten Robbi	e 64, 4186 East Aver	nue, Livermore, Califorr	nia							
Reporting	Well	Method of	Casing-Volumes							
Period	Number	Purging	Purged							
May-07	MW-1	12 V. PUMP	13							
November-07	MW-1	SS Bailer	4							
May-07	MW-2	12 V. PUMP	16							
November-07	MW-2	Well Dry)							
May-07	MW-3	12 V. PUMP	13							
November-07	MW-3	SS Bailer	3							

RM Associates

TABLE 3 - WATER LEVEL MEASURMENTS AND ELEVATION Rotten Robbie 64, 4186 East Avenue, Livermore, California

Well		Well Head	Depth to	Groundwater
Number	Number		Groundwater	Elevation
	Sample Date	(feet MSL)	(feet)	(feet MSL)
MW-1	05/07/07	NS	21.11	NC
	11/30/07	NS	28.95	NC
	01/15/08	539.50	23.03	516.47
MW-2	05/07/07	NS	22.45	NC
	11/30/07	NS	>29.0	NC
	01/15/08	539.15	23.33	515.82
MW-3	05/07/07	NS	21.00	NC
	11/30/07	NS	27.83	NC
	01/15/08	539.76	22.70	517.06

Notes: MSL = Mean Sea Level

MW = Monitoring Well
NYS = Not Yet Surveyed
NC = Not Calculated

Bold = Not Previously Reported

Wellhead survey completed by Licensed Engineering Contractor, Mid Coast Engineers on 11/03/07

RM Assoiciates

TABLE 4 - FIELD MEASUREMENTS

Rotten Robbie 64, 4186 East Avenue, Livermore, California

	Sample	рН	Conductivity	Temp	Turbidity	Dissolved Oxygen	Oxygen Reduction Potential
Well No.	Date	(Units)	(umhos/cm)	(C)	(NTU)	(mg/L)	(mV)
MW-1	05/07/07	7.7	986	21	NM(Clearing)	0.2	38
	11/30/07	7.5	825	20	NM(Clearing)	3.4	29
MW-2	05/07/07	7.7	979	21	NM(Clearing)	1.3	137
	11/30/07	NS	NS	NS	NS	NS	NS
MW-3	05/07/07	7.8	938	21	NM(Clearing)	1.60	121
	11/30/07	7.6	810	21	NM(Clearing)	3.50	-20

Notes: C = Degrees Centigrade

mg/L = milligrams per liter

mV = millivolts

MW= Monitoring Well
NM = Not Measured

NTU = Nephelometric Turbidity Units umhos/cm Micromhos per centimeter

NS = Not Sampled (Dry)

RM Associates

TABLE 5 - GROUNDWATER ANALYTICAL RESULTS Rotten Robbie 64, 4186 East Avenue, Livermore, California

				Ethyl	Total	TPH as
		Benzene	Toluene	benzene	Xylenes	Gasoline
Well No.	Sample Date	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Analytica	al Method	8260B	8260B	8260B	8260B	GC-MS
MW-1	05/07/07	150	7.0	620	160	4,800
	11/30/07	30	1.2	130	1.9	600
MW-2	05/07/07	<0.5	<0.5	<0.5	<0.5	<50
	11/30/07	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)
MW-3	05/07/07	<0.5	<0.5	<0.5	<0.5	<50
	11/30/07	<0.5	<0.5	<0.5	<0.5	<25

Notes:

MW = Monitoring Well

TPH = Total Petroleum Hydrocarbons
ug/L = Micrograms per liter (ppb)
NS = Not Sampled or Analyzed
Bold = Not Previously Reported

RM Associates

TABLE 6- GROUNDWATER ANALYTICAL RESULTS Oxygenates and Chlorinated Hydrocarbons Rotten Robbie 64, 4186 East Avenue, Livermore, California

Well No.	Sample Date	TBA	MTBE	DIPE	ETBE	TAME	1,2 DCA	EDB				
		(ug/L)										
Analytical I	Method	8260B										
MW-1	05/07/07	<100	310	<50	<50	<50	<5	< 5				
	11/30/07	<20	180	<10	<10	<10	<1	<1				
MW-2	05/07/07	<10	<1	<5	<5	<5	<0.5	<0.5				
	11/30/07	NS(DRY)										
MW-3	05/07/07	<10	<1	<5	<5	<5	<0.5	<0.5				

<5

<5

<5

<0.5

<0.5

Notes: 1,2 DCA = 1, 2 Dichloroethane
DIPE = Di-Isopropyl Ether
EDB = Ethylene Dibromide
ETBE = Ethyl tert-Butyl Ether
MTBE = Methyl tert-Butyl Ether
MW = Monitoring Well
TAME = tert-Amyl Methyl Ether

11/30/07

TBA = tert-Butyl Alcohol (tert-Butanol)
ug/L = Micrograms per liter (ppb)
NS= Not Sampled or Analyzed
Bold = Not Previously Reported

<10

<1

RM Associates												
TABLE 7 - GROUNDWATER MONITORING SCHEDULE												
	Rotten Robbie 64, 4186 East Avenue, Livermore, California											
Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water Level Measurement		Χ			Χ			Χ			Χ	
Water Sampling & Analysis		Χ			Χ			Χ			Χ	
Self-Monitoring Report			Χ			X			Χ			Х

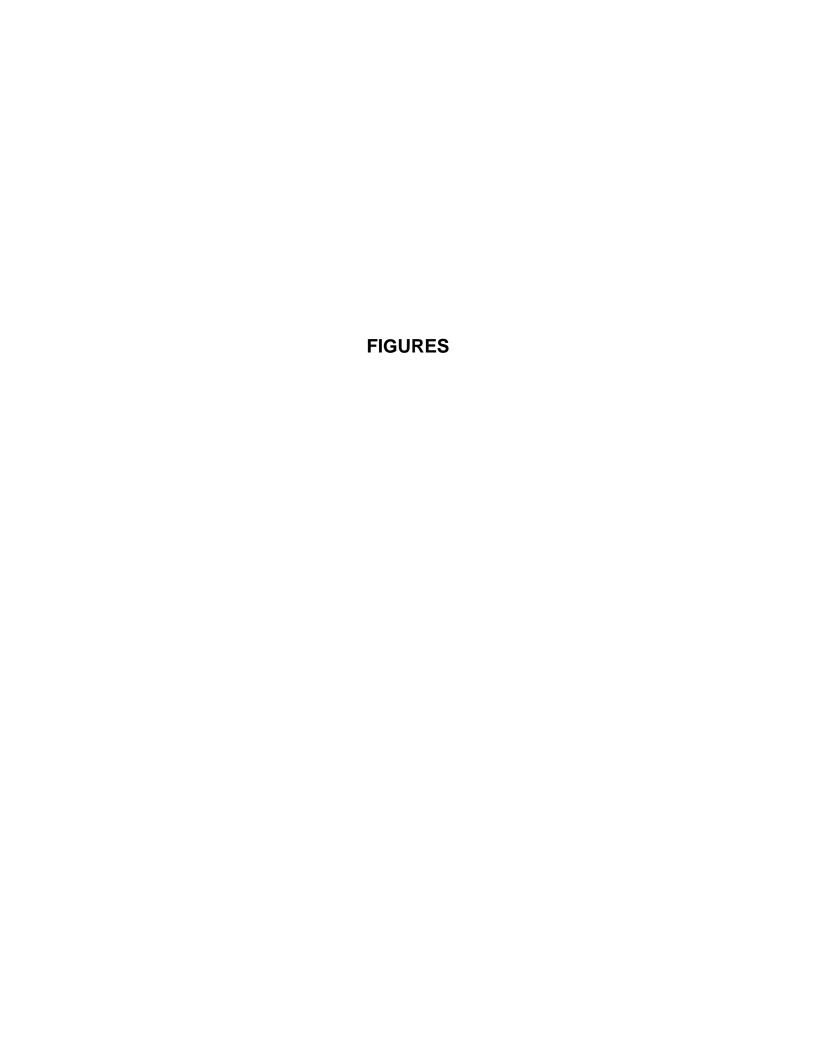
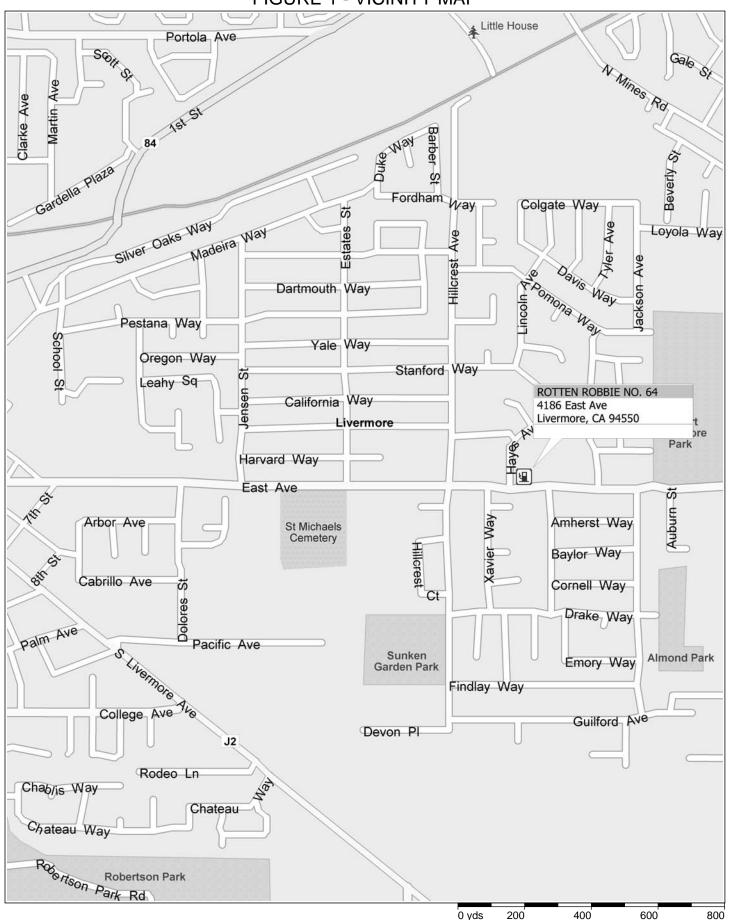
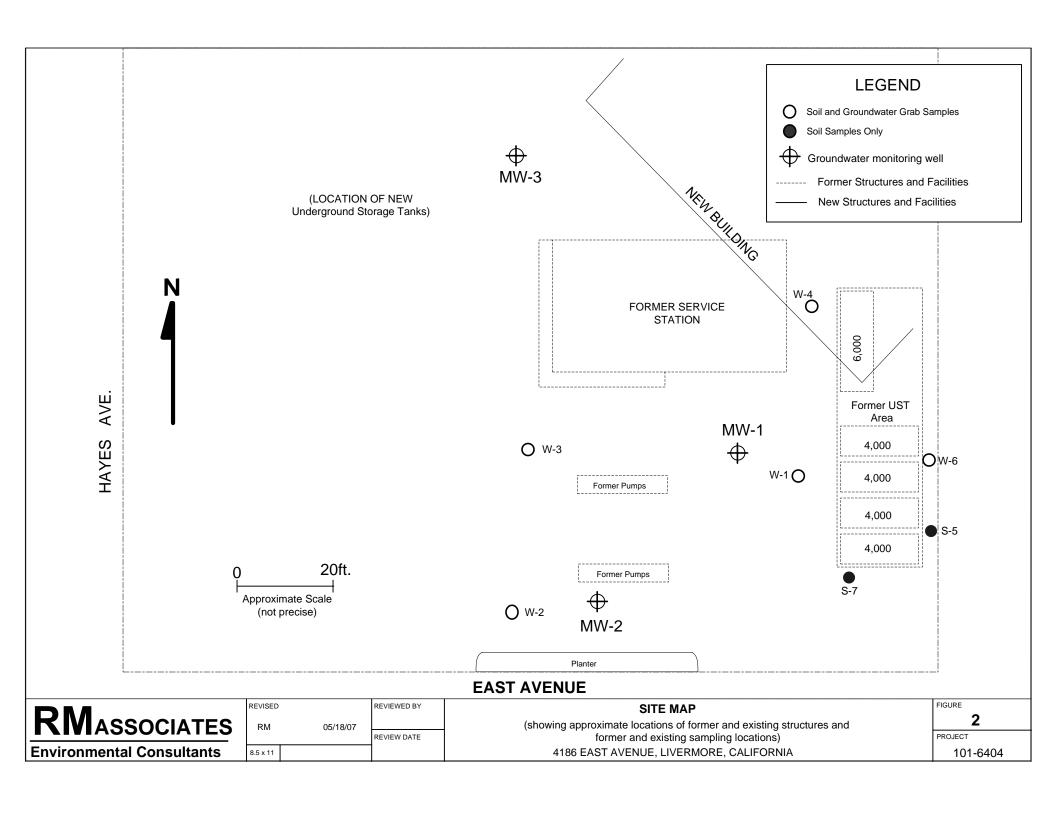
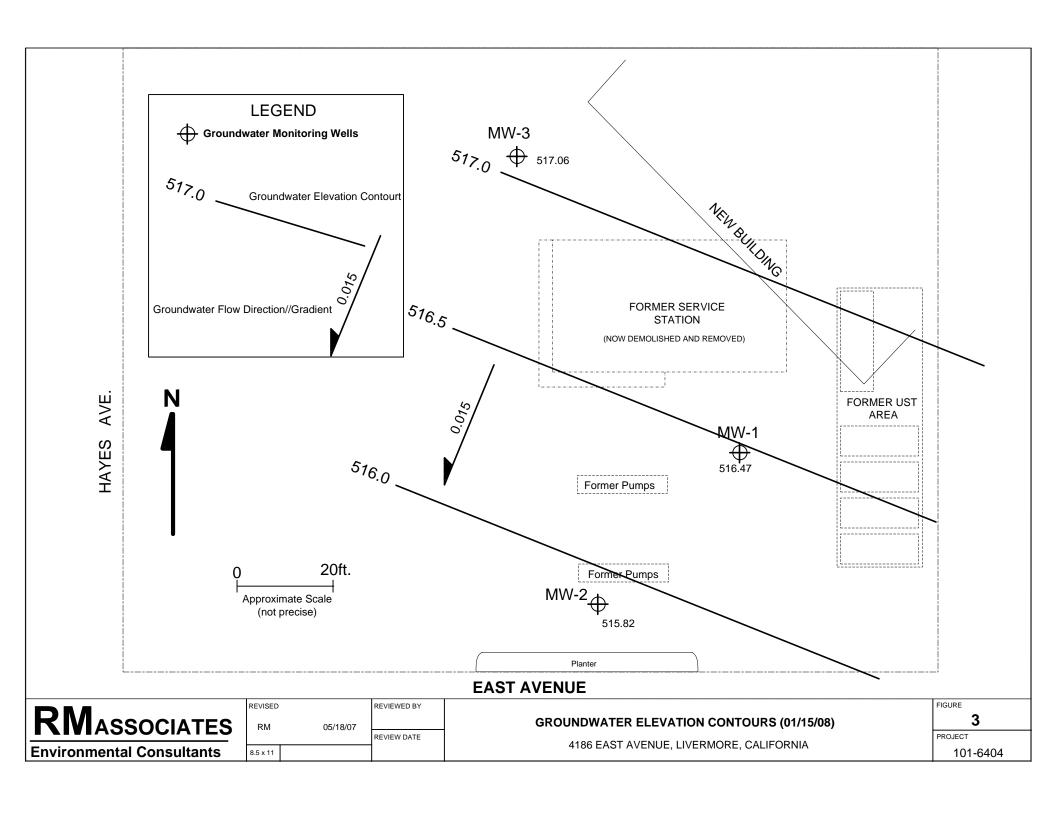


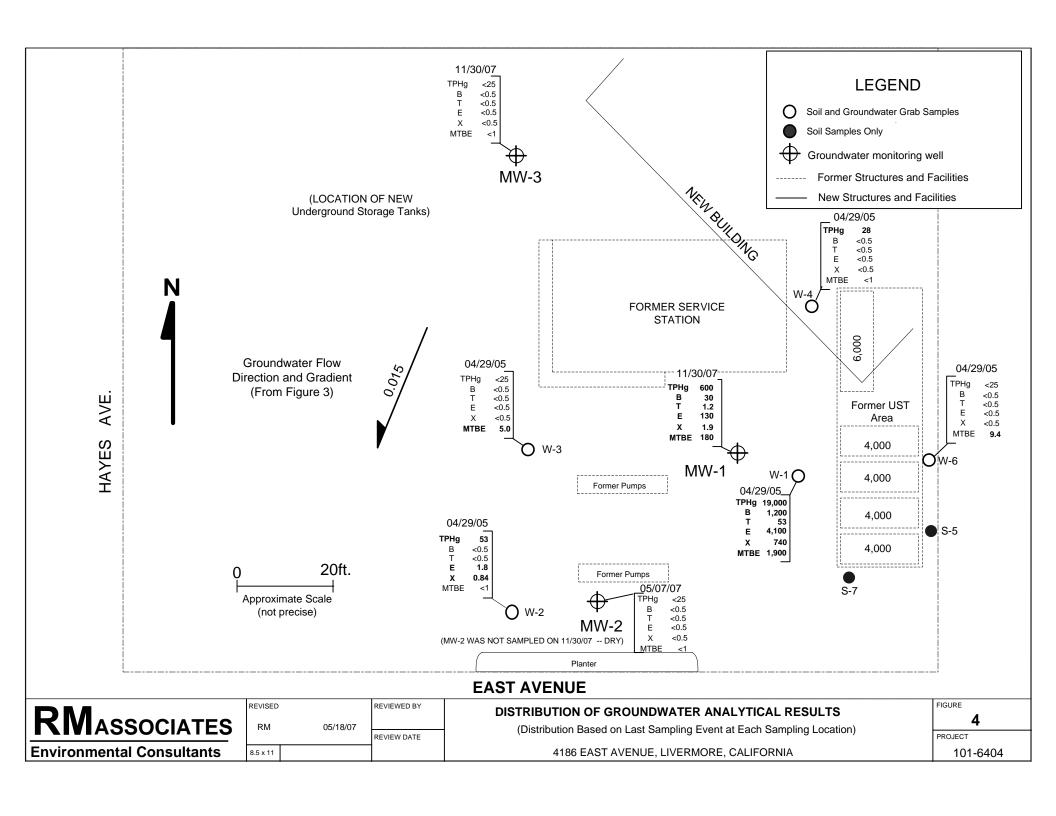
FIGURE 1 - VICINITY MAP

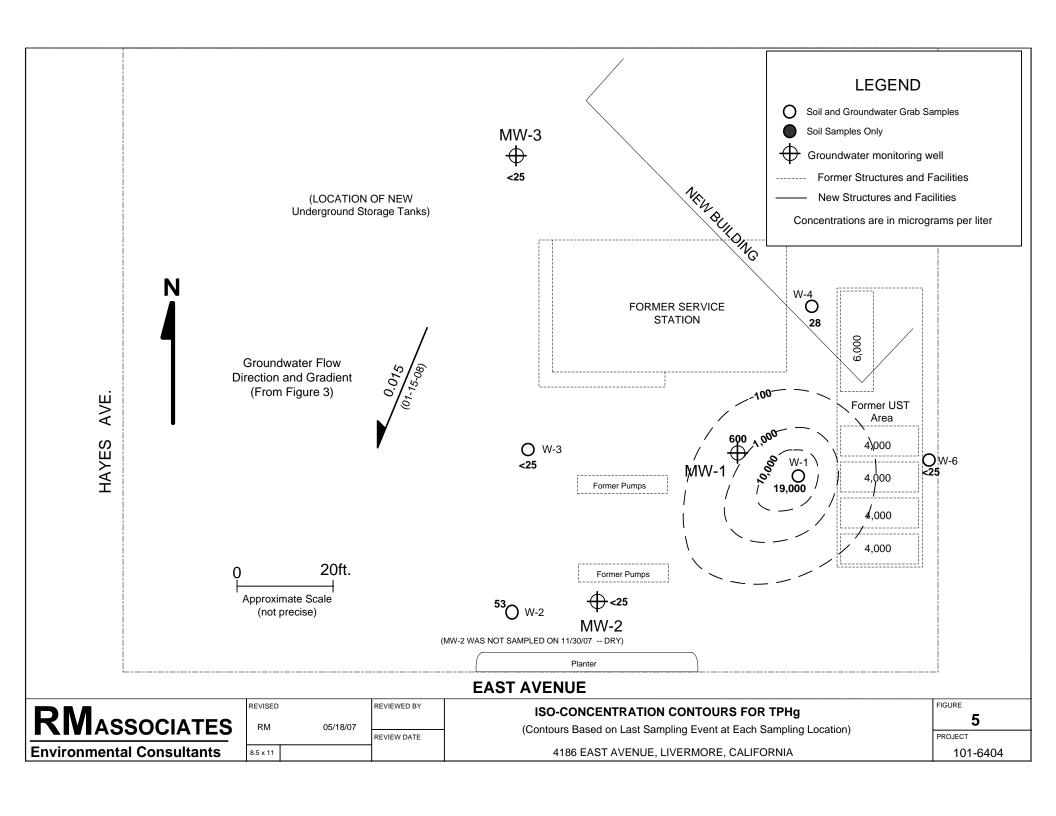


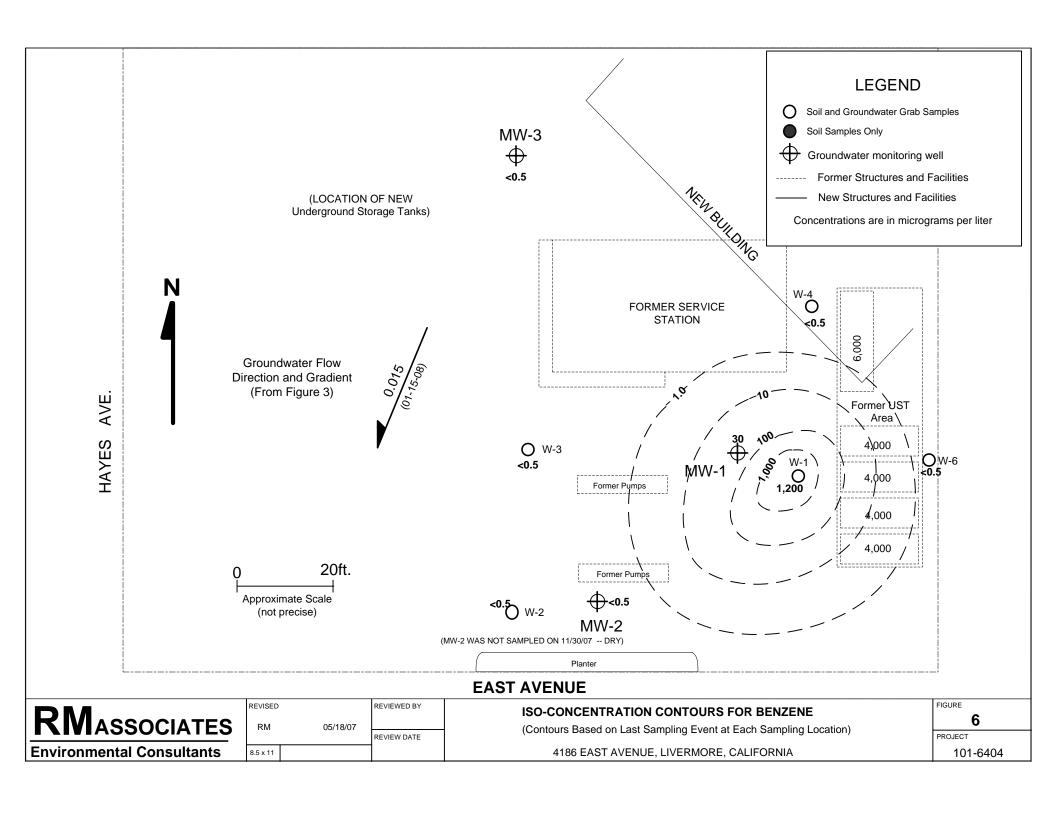
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© Copyright 2001 by Geographic Data Technology, Inc. All rights reserved. © 2001 Navigation Technologies. All rights reserved. This data includes information taken with permission from Canadian authorities © Her Majesty the Queen in Right of Canada.

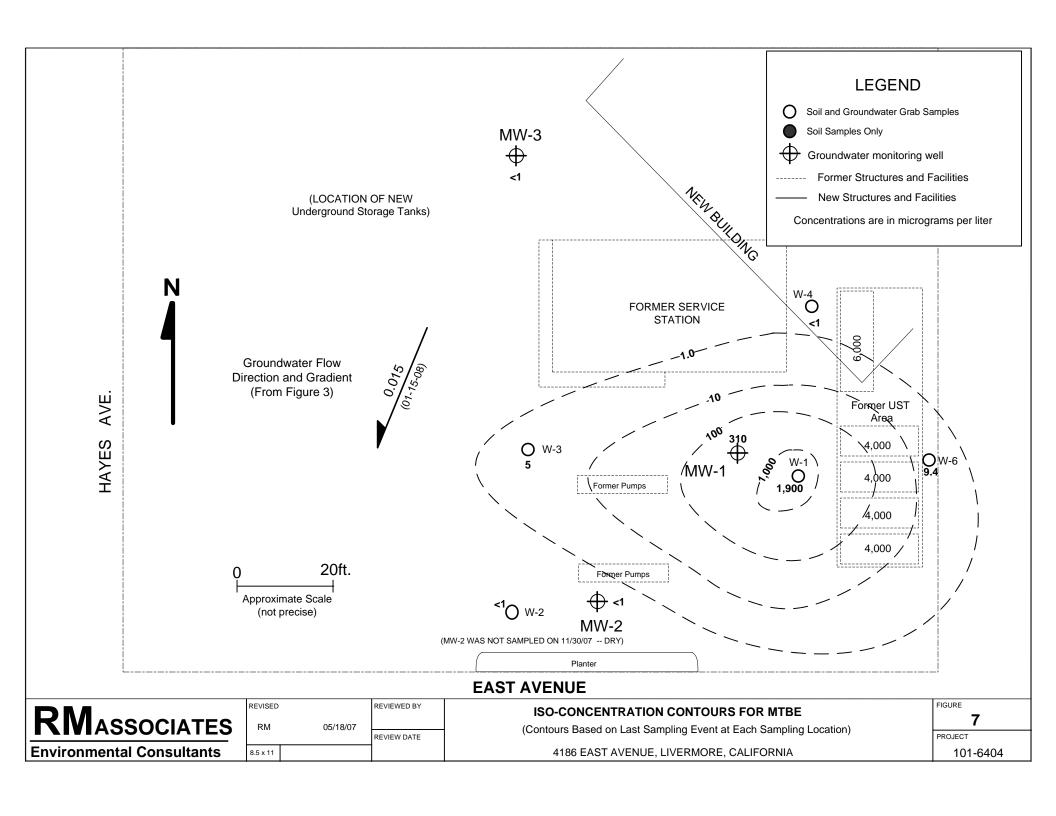














APPENDIX A GROUNDWATER SAMPLING PROCEDURES

APPENDIX A GROUNDWATER SAMPLING PROCEDURES

Field sampling procedures include a daily log of project activities, sample collection logs, and proper chainof-custody records. Procedures for sample collection are described in the following sections.

The static water level in each well and the depth to the bottom of each well will be measured and a water sample collected. The water level will be measured using an electronic water level indicator. Prior to collection of the water sample, each well will be purged utilizing Teflon, disposable, or stainless steel bailer or an air diaphragm pump. If possible, three to four well volumes of standing water will be removed to draw a representative groundwater sample into the well from the surrounding soil. Temperature, pH, and specific conductance measurements will be obtained from each well after the removal of each well volume. When evacuation is completed, water samples will be collected.

If the recharge rate in the well is slower than the purging rate, the well will be purged dry. The well will be allowed to recharge and groundwater samples will be collected when the water has recharged to approximately 80 percent of its original level prior to purging. If the well is slow to recover, a water sample will be collected when enough water has collected to allow for sampling.

A disposable or clean Teflon bailer will be used to collect the water sample. Water samples will be placed in appropriate containers with appropriate preservative. Sample containers will be filled to the top, capped, and sealed.

The purged groundwater will be placed in sealed and labeled 55-gallon steel drums and stored on-site.

Equipment Decontamination Procedures

Rigorous cleaning procedures will be followed during sample collection to prevent cross-contamination. Sampling devices will be washed with a non-phosphate detergent, rinsed with distilled water, and rinsed again with distilled water before use and between sample collection points. Otherwise, disposable sampling bailers will be used. The sampling devices to be cleaned in this manner will include pumps and the bailers. Proper protective gloves will be worn while collecting samples.

Field Quality Control Samples

Quality control samples will be used to determine the integrity of the sampling activities, the impact of sample matrices and ambient field conditions, and to demonstrate that laboratories are operating within the prescribed requirements for precision and accuracy. The frequency and procedures for field-generated quality control samples to be utilized in this project are as follows:

Trip Blank - A trip blank, prepared by the laboratory, will be carried into the field and transported along with field samples. Quality control sampling will be documented in field log sheets by the sampler.

Sample Preservation, Identification, and Custody Control

Sample Preservation - All samples will be sealed in airtight plastic bags and placed in a refrigerated chest for preservation immediately after collection.

Sample Identification - The field geologist or sampling technician will identify all samples taken in the field by using a pre-printed sample label attached to the sample container. The sample label will include the following information:

Project name and number; A unique sample identification number; The date, time, and location of sample collection; The initials of the sampler.

Chain-of-Custody Record and Shipment of Samples to the Laboratory

All samples will be documented using standard chain-of-custody procedure, packed in a refrigerated chest, and delivered to a state-certified laboratory for testing.

APPENDIX B PURGE/SAMPLING WORKSHEETS

Water Level Data Sheet

Project: R	otten Robi	⊅i.⇔ #64	GeoResrtoration, Inc.						
Project No.	; 0327					585 Emory Street, San Jose, CA			
Date(s):	01/03/06								
Sampler:	Jim Pavic	it.							
Weather:	Clacels				Sounder:	Solinis			
Well	Date	Tíme	DTW	Total	Measured	Comments			
			(TOC)	Depth	Ву				
MW-1	01/03/08	4133	(TOC) 27.31	27.65	10				
MW-2	01/03/08	6.30	No way	2.49.25					
MW-3	01/03/08	9:30 9:36	24.42	JAW	\$				
		1.70	E4:12	16464					
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FORM 5						Page of			

Rotten Robbie # 64 Water Levels 11/30/07

MW-1	28.95
MW-2	No Water
MW-3	27.83

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

	no Rol	ten Ro	bhic # (<u> </u>		•	Number:		
Address:—						_			
Well Numbe	- KNW-	- 3		11/30/07			k Number:_		
Mell Millinge	J. m	Parie	t Date						
Stagnant Volume Calculation	Welf Ca <u>Diamet</u>		Total Wi	1.5	Initial Depth Groundwate 27-8	<u>r (ft.)</u>	Stagnan <u>(0a!.)</u> , 4 (t Volume	·
Stagnant Vo	ilume Calcu	iation							
Well Casing, Diam- eter- (inches)	Linear <u>Groun</u> Thisi Well	Feet of	Gallons per Unext Foot of Grounds water	Stagnant Volume (oal.)	Mod Not	FI S	Inface Inspectionaling Productions Heen/Indescriptor 7 : 3.5	uct (ft.) (in cence	1.)
4.		NOW A COMPANIES	4 100	e (* æ. ` e (* æ. `	Data	11/30	107	time:	1300
Groundwate Purging	er <u>Purge</u>	Method Use	d el Balier;	Submers	-	Purged_	Water Conta	in	55 gai drum(s) Capacity
Slagnant Volumes <u>Purged</u>	Volume Purged (gal)	Time	Temp.	pH	Conductivity umhos	us	(other)	urbldity	
0	0-	12:27	20.0	7.4	981		- 122	unish //	
1	15	12:30	20.1	7.5	972		-		
2	1.0	12-33	20.5	7.6				eoriu	
3	1.5	12)36	20.8	7.6	210			EUVIV	
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9									
10				, <u></u>			_		 -
Groundwat Sampilng	er <u>W</u>	ater Level R		Sa	ımpie Contair	ners	How		
		Depth	to GW (ft.)				Малу?	Preserva	
	(P) After purging 30.50			liter, amber g	lass			PHZ	
	(i) Initially <u> </u>			40	ml, VOA			14cc	Y 17 C
	(S) Before sampling 27.93		50	500 ml, polypropylene					
(P-S) / (P-	l) x 150 =	<u>/0</u> 0 _%	Total Recover	ry					
	80% Reco	overv: \$ =	P - 0.8 × (P-I)						

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

Project Nan	ne: Ro	then 1	lubbie #	44					
Address:						Reg. Agency:			
<u></u>	<u> </u>			_ ;		Other Re	aq's.:		
Well Numbe	MW-		Date:/	1130/0	<u>7</u>	Weil Loc	k Number⊨	•	
Sampler(s):									
Stagnant Volume Calculation	Weil Ca <u>Di</u> amet	er (Inches)	Depth_(f	Total Well Depth (ft.) 30.50		to Larger	(gal.)	nt Volume	
**************************************	·	dation '							
Stagnant vo	olume Calcu	diation	' Galions		Ground	water St	rface inspe	ction (bailer check)	
Well Casing		Fact of dwater	<u>Прект</u>		عر_ ا	<u>-</u> F	loating Proc	luct (ft.) (in.)	
Diam-	Linnar	Feet of	Foot of Grounds	Stagnant Volume			heen/irldes		
[inches]	Chon	dwater ()	K Majer ≠	(<u> tal.)</u>		<i>IIE.</i> . c			
2	Total Mells	Depth to	0.17 1 Age		Remark	<u>6: DO</u>	3.4	ORP: 21	
***	Cepth (ft.)	GW (ft.)	0.58 =						
6	1	and a second	t.5 =		Date:	<u> 11/30</u>	10	7142: 1730	
Groundwate		Method Use	<u>व</u>			Purged	Water Cont	l 330 aloment	
Purging	1/8	Stainiess Ste	ef Baller;	Submers	ible Pump		gals stored	in 55 gal drum(s)	
								s? Capacity	
Stagnant	Volume								
Volumes Purged	Purged (gal)	<u>Time</u>	Temp. of °C	pΗ	Conductivit		Color/ (other)	Furbidity .	
0	_0_	1208	18.2	7.9	973		13	terrhish	
4	-3	12.21	19.8	7.4	913			//	
2	.6	12,25	20.1	7.5	827		•	//	
_	1.0	12:40	20.1	70	825			ewin	
3	7.0	12.10	20	1.3				7	
4									
5								· · · · · · · · · · · · · · · · · · ·	
â							_ —		
7									
8									
9							_ —		
10									
Groundwat Sampling	ter, <u>W</u>	ater Level R	ecovery	Si	ample Contai	ners	How		
		Depth	to GW (ft.)				Marry?	Preservatives?	
	(P) After purging 30.50				ilter, amber (glass	/_	MOME	
	(i) Initially 28.95			4	AOV ,lm 0		4	HLL PAZ	
	(S) Before sampling 28.95			500 ml, polypropylene					
(P-S) / (P-	-l) x 100 =	100 %	Total Recover	y					
, , , , ,		,	P - 0.8 x. (P-I)	_				,	

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

Project Nan	ne: 12 <u>01</u>	ten R	H Meddy	<i>ω</i> Υ		Project	Number:	<u> </u>		
Address:						Reg. Agency:				
71001000						_				
Well Numbe	M W	1-2_	Date:	11/2/107			•			
Sampler(s):		Pavic			··.•			<u></u>		
Stagnant Volume Calculation	Well Ca Diamet	er (Inches)	Total Wi Depth (f 30		Initial Dept Groundwei Mo w	er (ft.)	Stagna <u>(gal.)</u>	nt Volume		
Stagnant Vo	olume Calcu	iation								
Well Casing Diam- eter (inches)	Linéar Groun Total Well Depth (1.)	Feet of Swater	Unear Foot of Grounds Water 0:17 ag	Stagment Volume (gal.)	Remai	0	Floating Pro Sheen/Irides		ick)	
Groundwater <u>Purce Method Used</u>				ļ	Purge	Water Con	tal <u>nment</u>			
Purging	s	tainless Ste	el Baller;	_ Submersi	ble Pump		gals stored	lin 55 g:	al drum(s)	
				_		Апу рг	evious drum	s? Cap	acity	
Stagnant Volumes <u>Purged</u>	Volume Purged (gal)	<u>Time</u>	7emp. _of_°C	Ha	Conductiv umhos	-	Color/ (other)	Turbidily		
O	0						_			
1										
2										
3										
4										
5										
6										
7							- 			
8										
9										
10										
Groundwal Sampilng	ter <u>W</u>	Water Level Recovery			Sample Containers		How			
-curibuil	Depth to GW (ft.)					Many? Preservatives?				
(P) After purging (i) Initially (S) Before sampling			1 liter, amber glass							
			40 ml, VOA 500 ml, polypropylene			,,				
										
(P-S) / (P-	i) x 100 =	%	Total Recover	у						
, ., .			P • 0.8 x (P-I)							

Rotten Robbie # 64 Water Levels 1/15/08

MW-1	23.03
MW-2	23.33
MW-3	22.70

APPENDIX C CERTIFIED ANALYTICAL RESULTS

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Ron Michelson Lab Certificate Number: 58357

RM Associates Issued: 12/07/2007

16401 Meadow Vista Drive, Suite 102

Pioneer, CA 95666

P.O. Number: Invoice Robinson Oil

Corporation Directly Global ID: T0600152516

Project Number: 101-6404

Project Name: Rotten Robbie No. 64

Project Location: 4186 East Avenue, Livermore, California

Certificate of Analysis - Final Report

On November 30, 2007, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix Test / Comments

Liquid VOCs: EPA 5030B / EPA 8260B

Electronic Deliverables for Geotracker

TPH-Purgeable - GC/MS: EPA 5030B / GC/MS TPH-Extractable: EPA 3510C / EPA 8015B(M)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). Subcontracted work is the responibility of the subcontract laboratory, this includes turn-around-time and data quality. If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

C. L. Thom

Laboratory Director

C. L. Thom

3334 Victor Court, Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

RM Associates

16401 Meadow Vista Drive, Suite 102

Pioneer, CA 95666 Attn: Ron Michelson Project Number: 101-6404

Project Name: Rotten Robbie No. 64

Project Location: 4186 East Avenue, Livermore, California

GlobalID: T0600152516

P.O. Number: Invoice Robinson Oil Corporation Directly

Reviewed by: MaiChiTu

Samples Received: 11/30/2007 Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 58357-001 **Sample ID: MW-1 Matrix:** Liquid **Sample Date:** 11/30/2007 1:30 PM

VOCs: EPA 5030B / EPA 82	260B							
Parameter	Result	Qual D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	30	2.0	1.0	μg/L	N/A	N/A	12/3/2007	WM7071203
Toluene	1.2	2.0	1.0	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
Ethyl Benzene	130	2.0	1.0	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
Xylenes, Total	1.9	2.0	1.0	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
Methyl-t-butyl Ether	180	2.0	2.0	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
tert-Butyl Ethyl Ether	ND	2.0	10	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
tert-Butanol (TBA)	ND	2.0	20	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
Diisopropyl Ether	ND	2.0	10	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
tert-Amyl Methyl Ether	ND	2.0	10	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
1,2-Dichloroethane	ND	2.0	1.0	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
1,2-Dibromoethane (EDB)	ND	2.0	1.0	$\mu g/L$	N/A	N/A	12/3/2007	WM7071203
Surrogate	Surrogate Recovery	Control	Limits (%)				Analyzed by: Bela	

Surrogate	Surrogate Recovery	Control	Lı	mits (%)
4-Bromofluorobenzene	108	60	-	130
Dibromofluoromethane	107	60	-	130
Toluene-d8	98.3	60	-	130

TPH-Purgeable - GC/MS: EPA 5030B / GC/MS

Parameter	Result Q	ual I	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	600		2.0	50	μg/L	N/A	N/A	12/3/2007	WM7071203
Surrogate	Surrogate Recovery	C	ontrol I	Limits (%)				Analyzed by: Bela	
4-Bromofluorobenzene	97.9		60 -	130				Reviewed by: MaiC	hiTu
Dibromofluoromethane	94.3		60 -	130					
Toluene-d8	90.6		60 -	130					

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	110		1.0	50	μg/L	12/3/2007	WDA0712303	12/5/2007	WDA071203
Not a typical pattern. High	her boiling gasoline	compoi	ands in the	e Diesel range (C9-C	16).				
<u> </u>									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: JHsiang
n-Hexacosane	87.5	50 - 150	Reviewed by: mtran

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RM Associates

16401 Meadow Vista Drive, Suite 102

Pioneer, CA 95666 Attn: Ron Michelson Project Number: 101-6404

Project Name: Rotten Robbie No. 64

Project Location: 4186 East Avenue, Livermore, California

GlobalID: T0600152516

P.O. Number: Invoice Robinson Oil Corporation Directly

Samples Received: 11/30/2007 Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 58357-002 Sample ID: MW-3 Matrix: Liquid Sample Date: 11/30/2007 1:00 PM

VOCs: EPA 5030B / EPA 82	60B							
Parameter	Result (Qual D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND	1.0	0.50	μg/L	N/A	N/A	11/30/2007	WM7071130
Toluene	ND	1.0	0.50	$\mu g/L$	N/A	N/A	11/30/2007	WM7071130
Ethyl Benzene	ND	1.0	0.50	\mug/L	N/A	N/A	11/30/2007	WM7071130
Xylenes, Total	ND	1.0	0.50	\mug/L	N/A	N/A	11/30/2007	WM7071130
Methyl-t-butyl Ether	ND	1.0	1.0	\mug/L	N/A	N/A	11/30/2007	WM7071130
tert-Butyl Ethyl Ether	ND	1.0	5.0	\mug/L	N/A	N/A	11/30/2007	WM7071130
tert-Butanol (TBA)	ND	1.0	10	\mug/L	N/A	N/A	11/30/2007	WM7071130
Diisopropyl Ether	ND	1.0	5.0	\mug/L	N/A	N/A	11/30/2007	WM7071130
tert-Amyl Methyl Ether	ND	1.0	5.0	$\mu g/L$	N/A	N/A	11/30/2007	WM7071130
1,2-Dichloroethane	ND	1.0	0.50	\mug/L	N/A	N/A	11/30/2007	WM7071130
1,2-Dibromoethane (EDB)	ND	1.0	0.50	$\mu g/L$	N/A	N/A	11/30/2007	WM7071130
G	G	0 4 1	T * . * . (0/)				Analyzad byu Dala	

Surrogate	Surrogate Recovery	Control L	imits (%)
4-Bromofluorobenzene	108	60 -	130
Dibromofluoromethane	106	60 -	130
Toluene-d8	97.9	60 -	130

Analyzed by: Bela

Reviewed by: MaiChiTu

TPH-Purgeable - GC/MS: EPA 5030B / GC/MS

Parameter	Result (Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	μg/L	N/A	N/A	11/30/2007	WM7071130
Surrogate	Surrogate Recovery		Control 1	Limits (%)				Analyzed by: Bela	
4-Bromofluorobenzene	97.7		60 -	- 130				Reviewed by: MaiC	ChiTu
Dibromofluoromethane	93.2		60 -	- 130					
Toluene-d8	90.3		60 -	- 130					

TPH-Extractable: EPA 3510C / EPA 8015B(M)

11 11 Dilli ucumpici Di ii	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2								
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	52	μg/L	12/3/2007	WDA0712303	12/5/2007	WDA071203
Surrogate	Surrogate Recovery	7	Control 1	Limits (%)				Analyzed by: JHsia	ng
n-Hexacosane	80.4		50 -	- 150				Reviewed by: mtrar	1

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B

QC Batch ID: WM7071130 Validated by: MaiChiTu - 12/03/07

QC Batch Analysis Date: 11/30/2007

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	1	0.50	μg/L
1,2-Dichloroethane	ND	1	0.50	μg/L
Benzene	ND	1	0.50	μg/L
Diisopropyl Ether	ND	1	5.0	μg/L
Ethyl Benzene	ND	1	0.50	μg/L
Methyl-t-butyl Ether	ND	1	1.0	μg/L
tert-Amyl Methyl Ether	ND	1	5.0	μg/L
tert-Butanol (TBA)	ND	1	10	μg/L
tert-Butyl Ethyl Ether	ND	1	5.0	μg/L
Toluene	ND	1	0.50	μg/L
Xylenes, Total	ND	1	0.50	μg/L
C				

Surrogate for Blank	% Recovery	Conti	rol	Limits
4-Bromofluorobenzene	107	60	-	130
Dibromofluoromethane	103	60	-	130
Toluene-d8	98.2	60	_	130

Method Blank - Liquid - TPH-Purgeable - GC/MS: EPA 5030B / GC/MS

QC Batch ID: WM7071130 Validated by: MaiChiTu - 12/03/07

QC Batch Analysis Date: 11/30/2007

Parameter			Result	DF	PQLR	Units
TPH as Gasoline			ND	1	25	μg/L
Surrogate for Blank	% Recovery	Control Limits				
4-Bromofluorobenzene	97.2	60 - 130				
Dibromofluoromethane	92.0	60 - 130				
Toluene-d8	90.5	60 - 130				

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LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B

QC Batch ID: WM7071130 Reviewed by: MaiChiTu - 12/03/07

QC Batch ID Analysis Date: 11/30/2007

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Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	20	23.9	μg/L	120	70 - 130
Benzene	< 0.50	20	20.9	μg/L	104	70 - 130
Chlorobenzene	0.0	20	18.8	μg/L	94.1	70 - 130
Methyl-t-butyl Ether	<1.0	20	22.0	μg/L	110	70 - 130
Toluene	< 0.50	20	19.8	μg/L	99.1	70 - 130
Trichloroethene	0.0	20	20.3	μg/L	101	70 - 130
Surrogate	% Recovery C	ontrol Limits				
4-Bromofluorobenzene	106.0	50 - 130				
Dibromofluoromethane	110.0	50 - 130				
Toluene-d8	98.6	50 - 130				

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	0.0	20	21.3	μg/L	107	11	25.0	70 - 130
Benzene	< 0.50	20	19.2	μg/L	95.9	8.4	25.0	70 - 130
Chlorobenzene	0.0	20	18.0	μg/L	90.2	4.1	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	19.3	μg/L	96.7	13	25.0	70 - 130
Toluene	< 0.50	20	18.5	μg/L	92.6	6.8	25.0	70 - 130
Trichloroethene	0.0	20	18.5	μg/L	92.5	9.2	25.0	70 - 130

Surrogate	% Recovery	Cont	rol	Limits
4-Bromofluorobenzene	106.0	60	-	130
Dibromofluoromethane	106.0	60	-	130
Toluene-d8	98.2	60	-	130

LCS / LCSD - Liquid - TPH-Purgeable - GC/MS: EPA 5030B / GC/MS

QC Batch ID: WM7071130 Reviewed by: MaiChiTu - 12/03/07

QC Batch ID Analysis Date: 11/30/2007

LCS

Parameter	Mothod Bl	ank Spike Amt	SnikoBosult	Units	% Recovery	Recovery Limits
		•	•		•	•
TPH as Gasoline	<25	120	102	μg/L	81.7	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	97.0	60 - 130				
Dibromofluoromethane	92.5	60 - 130				
Toluene-d8	91.2	60 - 130				

LCSD

Parameter	Method Bla	ank Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	121	μg/L	97.0	17	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	97.7	60 - 130						
Dibromofluoromethane	92.4	60 - 130						
Toluene-d8	90.2	60 - 130						

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B

QC Batch ID: WM7071203 Validated by: MaiChiTu - 12/04/07

QC Batch Analysis Date: 12/3/2007

Parameter	Result	DF	PQLR	Units
1,2-Dibromoethane (EDB)	ND	1	0.50	μg/L
1,2-Dichloroethane	ND	1	0.50	μg/L
Benzene	ND	1	0.50	μg/L
Diisopropyl Ether	ND	1	5.0	μg/L
Ethyl Benzene	ND	1	0.50	μg/L
Methyl-t-butyl Ether	ND	1	1.0	μg/L
tert-Amyl Methyl Ether	ND	1	5.0	μg/L
tert-Butanol (TBA)	ND	1	10	μg/L
tert-Butyl Ethyl Ether	ND	1	5.0	μg/L
Toluene	ND	1	0.50	μg/L
Xylenes, Total	ND	1	0.50	μg/L

Surrogate for Blank	% Recovery	Cont	rol	Limits
4-Bromofluorobenzene	108	60	-	130
Dibromofluoromethane	104	60	-	130
Toluene-d8	99.0	60	-	130

Method Blank - Liquid - TPH-Purgeable - GC/MS: EPA 5030B / GC/MS

QC Batch ID: WM7071203 Validated by: MaiChiTu - 12/04/07

QC Batch Analysis Date: 12/3/2007

Parameter			Result	DF	PQLR	Units	
TPH as Gasoline			ND	1	25	μg/L	
Surrogate for Blank	% Recovery	Control Limits					
4-Bromofluorobenzene	98.1	60 - 130					
Dibromofluoromethane	92.2	60 - 130					
Toluene-d8	91.3	60 - 130					

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LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B

99.1

QC Batch ID: WM7071203 Reviewed by: MaiChiTu - 12/04/07

QC Batch ID Analysis Date: 12/3/2007

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Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	20	23.1	μg/L	115	70 - 130
Benzene	< 0.50	20	20.4	μg/L	102	70 - 130
Chlorobenzene	0.0	20	18.1	μg/L	90.4	70 - 130
Methyl-t-butyl Ether	<1.0	20	24.3	μg/L	121	70 - 130
Toluene	< 0.50	20	18.7	μg/L	93.4	70 - 130
Trichloroethene	0.0	20	19.2	μg/L	96.0	70 - 130
Surrogate	% Recovery Co	ontrol Limits				
4-Bromofluorobenzene	107.0	50 - 130				
Dibromofluoromethane	118.0	50 - 130				

LCSD

Toluene-d8

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	0.0	20	24.4	μg/L	122	5.4	25.0	70 - 130
Benzene	<0.50	20	20.9	μg/L	105	2.7	25.0	70 - 130
Chlorobenzene	0.0	20	18.8	μg/L	93.8	3.6	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	23.1	μg/L	115	5.1	25.0	70 - 130
Toluene	<0.50	20	19.6	μg/L	97.8	4.6	25.0	70 - 130
Trichloroethene	0.0	20	20.1	μg/L	101	4.7	25.0	70 - 130

Surrogate	% Recovery	Cont	rol	Limits
4-Bromofluorobenzene	107.0	60	-	130
Dibromofluoromethane	112.0	60	-	130
Toluene-d8	98.3	60	-	130

LCS / LCSD - Liquid - TPH-Purgeable - GC/MS: EPA 5030B / GC/MS

60 - 130

QC Batch ID: WM7071203 Reviewed by: MaiChiTu - 12/04/07

QC Batch ID Analysis Date: 12/3/2007

LCS

Parameter	Method Bl	lank	Spi	ke Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25		120		119	μg/L	95.4	65 - 135
Surrogate	% Recovery	Co	ntro	Limits				
4-Bromofluorobenzene	99.0	6	0 -	130				
Dibromofluoromethane	94.2	6	0 -	130				
Toluene-d8	90.6	6	0 -	130				

LCSD

Parameter	Method B	lank Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	111	μg/L	88.9	7.1	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	98.9	60 - 130						
Dibromofluoromethane	95.4	60 - 130						
Toluene-d8	90.4	60 - 130						

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Method Blank - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC/Prep Batch ID: WDA0712303 Validated by: mtran - 12/04/07

QC/Prep Date: 12/3/2007

ParameterResultDFPQLRUnitsTPH as DieselND150 $\mu g/L$

Surrogate for Blank % Recovery Control Limits n-Hexacosane 82.7 50 - 150

LCS / LCSD - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

Prep/QC Batch ID: WDA0712303 /WDA071203 Reviewed by: mtran - 12/04/07

QC/Prep Date: 12/3/2007

LCS

Parameter Method Blank Spike Amt SpikeResult Units % Recovery **Recovery Limits** 664 45 - 140 TPH as Diesel <50 1000 μg/L 66.4 TPH as Motor Oil <200 1000 829 μg/L 82.9 45 - 140

Surrogate% RecoveryControl Limitsn-Hexacosane72.350 - 150

LCSD

Parameter Method Blank Spike Amt SpikeResult % Recovery **RPD** RPD Limits Recovery Limits Units TPH as Diesel <50 1000 726 72.6 8.9 25.0 45 - 140 μg/L 45 - 140 TPH as Motor Oil <200 1000 883 25.0 μg/L 88.3 6.3

Surrogate% RecoveryControl Limitsn-Hexacosane77.350 - 150

T) 1/4	16401 Meadow Vista Drive, Suite 102 Pioneer, CA 95666								C	`H.	ΔIN	OF	: CI	IS.	ГО	DY	' F(OR	М		
$\mathbf{R} \mathbf{N} \mathbf{I}$	1	Pioneer, CA 95666 SSOCIATES Main Line: (209) 295-6218		58357		CHAIN OF CUSTODY FORM															
TATAT	ASSOCIALES Main Line. (209) 293-0216 Facsimile: (209) 295-3974				JUJU 1		Turr	narou	nd	XStandar 3 day 2-8 hr 7 day 2 day other											
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Global I.D.:	T06001525													1							
Project Address:	4186 East A	•	1				Αn	alvec	s Rec	u i o e i	-od										
Laboratory:	Entech Analytical Labs Contact: Simon Hague														aiyse	SNEC	ues	.eu		_	
Lab Address/Phone:	(408) 588-0																				
RMA Project Manager	: Ronald W.	Michelso	on							1,2											
RMA PM Ph. No.:	(209) 295-7	903		-			helson@volc	ano.ne	<u>t</u>	c, s					l						
RMA Sampler:	Ron Michels	son		. F	hone:	(209)	295-6218			TPHg/BTEX/5 Fuel Oxy's/ 1,2 DCA & EDB (8260B)	ŝ										
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Additional Comments	: Invoice to	Robinso	n Oi	l Cor	poration	on, 42	50 Williams	Road,	San Jose, CA 951	129 A	ttn. T	om F	obins	on, (4	08) 2	57-22	·				
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Sample Condition, Good? Yes	res No On Ice? Yes No Cooler Temp Transportation Method: Page of																				
January Contract Cont																					

APPENDIX D TRANSMITTAL LETTER

ROBINSON OIL CORPORATION



4250 WILLIAMS ROAD • SAN JOSE, CA 95129-3344 (408) 257-2222 • FAX (408) 252-6591 Rotten Robbie

January 28, 2008

Mr. Ronald W. Michelson RM Associates 16401 Meadow Vista Drive, Suite 102 Pioneer, CA 95666 FAX (209) 295-3974

Site Location: Rotten Robbie #64

4186 East Avenue Livermore, CA

Report Title: Groundwater Monitoring Report No. $1-4^{th}$ Quarter 2007

Report Date: January 22, 2008

Dear Mr. Michelson:

I have reviewed and approved the above referenced report. Please submit it to the regulatory agencies listed in the distribution section of the report. Should any of the listed regulatory agencies require it, I am prepared to declare, under penalty of perjury, that to the best of my knowledge the information in the above referenced report is true and correct.

Sincerely,

Thomas L. Robinson