RM Associates

Environmental Consultants

April 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

Reference: **Rotten Robbie No 64**
(Formerly East Avenue Services)
4186 East Avenue, Livermore, California
Fuel Leak Case No. RO0002881

Subject: **Groundwater Monitoring Report No. 2 - 1st Quarter 2008**
March 19, 2008

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:

Office: 209-295-6218 Fax: 209-295-3974
16401 Meadow Vista Drive, Suite 102 - Pioneer CA 95666
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TECHNICAL REPORT

GROUNDWATER MONITORING REPORT NO. 2 – 1ST QUARTER 2008

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

March19, 2008

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GROUNDWATER MONITORING REPORT NO. 1 – 1ST QUARTER 2008

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

March 19, 2008

1.0 INTRODUCTION

This "Groundwater Monitoring Report No. 2, 4th Quarter 2008" 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 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
"Report of Preliminary Site Investigation Including UST Removal," by RMA dated May 30, 2007

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.

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, presented in the May 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 February 29, 2008, sampling subcontractor GeoRestoration, Inc. collected groundwater samples from the three on-site monitoring wells, MW-1, MW-2, and MW-3. Prior to sampling, the wells were developed by purging at least 3 well volumes from each well using a 12 volt submersible pump. The purge data for the monitoring event is presented in Table 2.

Prior to groundwater sampling, depths to groundwater were measured in each of the three wells. The depth to water measurements and groundwater elevation calculation for each well are presented in Table 3. The groundwater elevation contours, groundwater gradient, and groundwater flow direction are illustrated in Figure 3. Although, as a result of recent rainfall the average groundwater elevation has risen more than four feet over the previous six weeks, the groundwater gradient and flow direction have remained steady at 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, significant concentration of petroleum hydrocarbon concentrations were again detected only in the groundwater sample from monitoring well MW-1 with TPHg, benzene, and MTBE concentrations at 4,800 µg/L, 190 µg/L, and 330 µg/L, respectively. These concentrations, while considerable higher than those for the previous November 2007 monitoring event but are of the similar magnitude as the earlier May 2007 results. 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.

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 May 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

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

TABLES

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 Robbie 64, 4186 East Avenue, Livermore, California

Well ID	Reporting Period	Method of Purging	Casing-Volumes Purged
MW-1	05/07/07	12 V. PUMP	13
	11/30/07	SS Bailer	4
	02/29/08	12 V. PUMP	4
MW-2	05/07/07	12 V. PUMP	16
	11/30/07	Well Dry	3
	02/29/08	12 V. PUMP	3
MW-3	05/07/07	12 V. PUMP	13
	11/30/07	SS Bailer	3
	02/29/08	12 V. PUMP	3

RM Associates

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

Well Number	Sample Date	Well Head Elevation (feet MSL)	Depth to Groundwater (feet)	Groundwater Elevation (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
	02/29/08	**539.50**	**18.74**	**520.76**
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
	02/29/08	**539.15**	**18.86**	**520.29**
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
	02/29/08	**539.76**	**18.67**	**521.09**

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

4.26

RM Assoiciates

TABLE 4 - FIELD MEASUREMENTS

Rotten Robbie 64, 4186 East Avenue, Livermore, California

Well No.	Sample Date	pH (Units)	Conductivity (umhos/cm)	Temp (C)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxygen Reduction Potential (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
	02/29/08	**7.5**	**1173**	**19.9**	**Clear**	**1.2**	**122**
MW-2	05/07/07	7.7	979	21	NM(Clearing)	1.3	137
	11/30/07	NS	NS	NS	NS	NS	NS
	02/29/08	**7.7**	**1031**	**19.9**	**Clear**	**0.9**	**118.0**
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
	02/29/08	**77.0**	**1095**	**19.7**	**Clear**	**5.20**	**120**

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)
Bold = Not Previously Reported

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

Well No.	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	Total Xylenes (ug/L)	TPH as Gasoline (ug/L)
Analytical 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
	02/29/08	**190**	**<10**	**1,100**	**130**	**4,800**
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)
	02/29/08	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**31**
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
	02/29/08	**<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

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

Well No.	Sample Date	TBA (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2 DCA (ug/L)	EDB (ug/L)
Analytical Method		8260B	8260B	8260B	8260B	8260B	8260B	8260B
MW-1	05/07/07	<100	**310**	<50	<50	<50	<5	<5
	11/30/07	<20	180	<10	<10	<10	<1	<1
	02/29/08	**<200**	**330**	**<100**	**<100**	**<100**	**<10**	**<10**
MW-2	05/07/07	<10	<1	<5	<5	<5	<0.5	<0.5
	11/30/07	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)
	02/29/08	**<10**	**<1**	**<5**	**<5**	**<5**	**<0.5**	**<0.5**
MW-3	05/07/07	<10	<1	<5	<5	<5	<0.5	<0.5
	11/30/07	<10	<1	<5	<5	<5	<0.5	<0.5
	02/29/08	**<10**	**<1**	**<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
TBA = tert-Butyl Alcohol (tert-Butanol)
ug/L = Micrograms per liter (ppb)
NS= Not Sampled or Analyzed
Bold = Not Previously Reported

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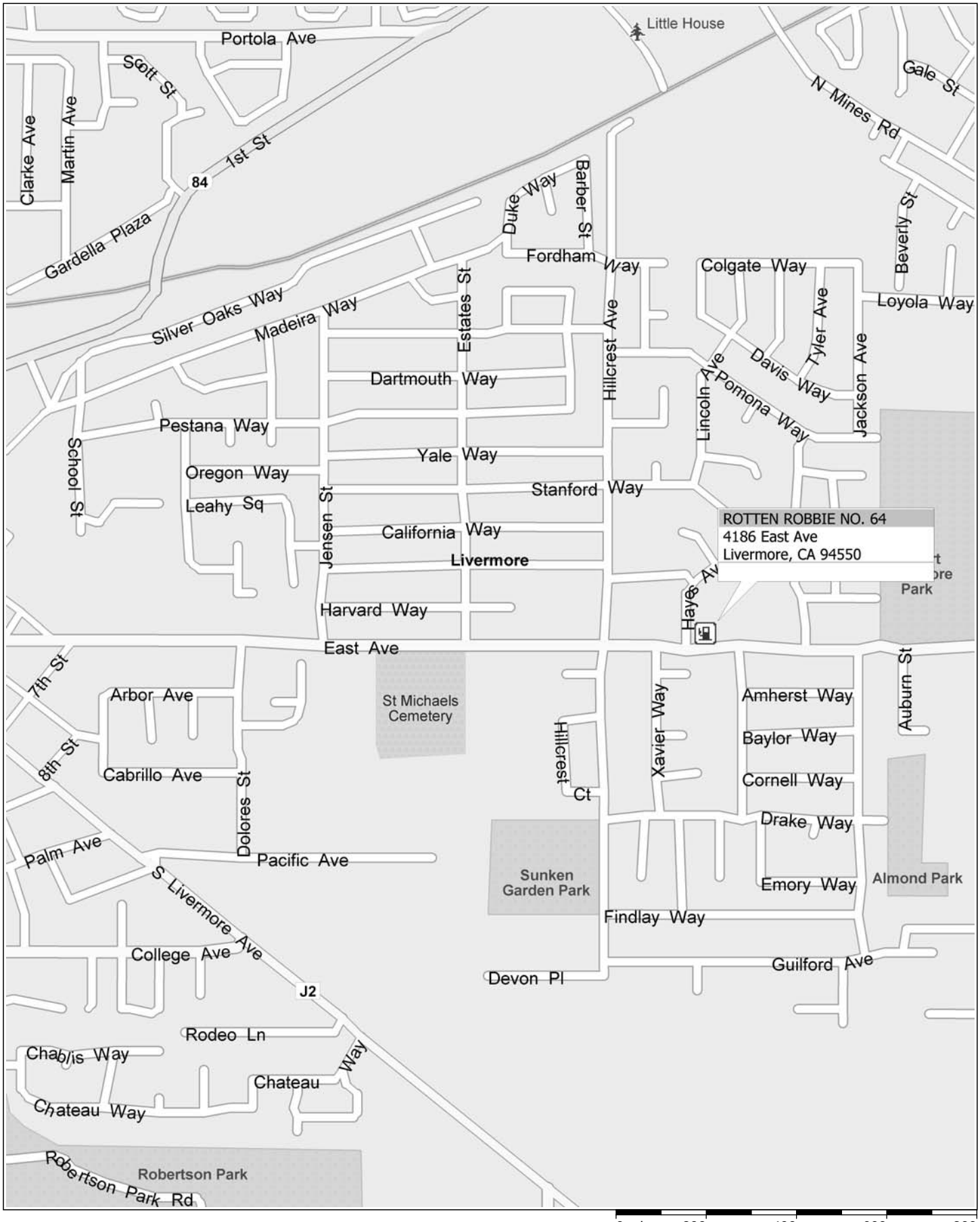
TABLE 7 - GROUNDWATER MONITORING SCHEDULE

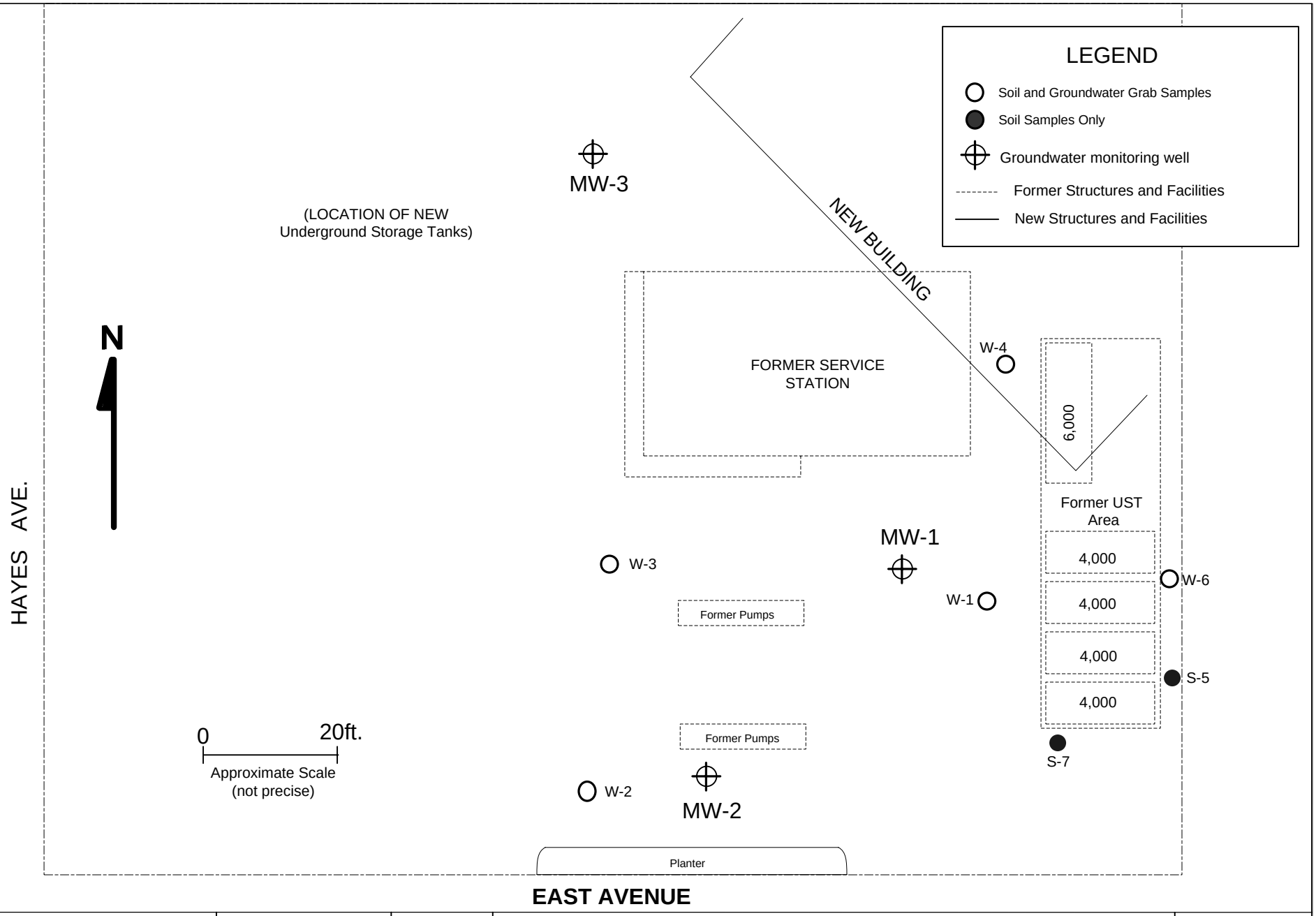
Rotten Robbie 64, 4186 East Avenue, Livermore, California

Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water Level Measurement		X			X			X			X	
Water Sampling & Analysis		X			X			X			X	
Self-Monitoring Report			X			X			X			X

FIGURES

FIGURE 1 - VICINITY MAP





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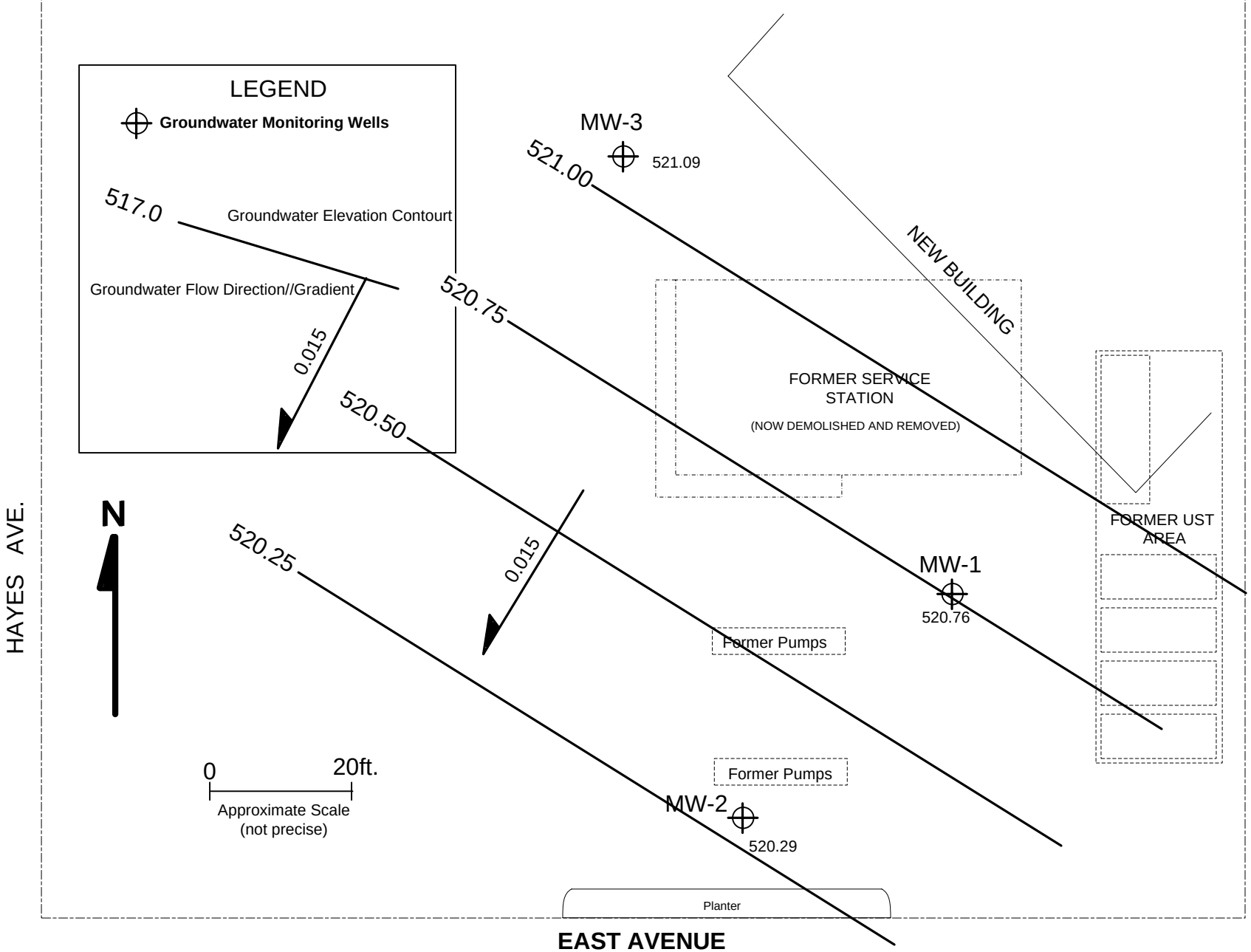
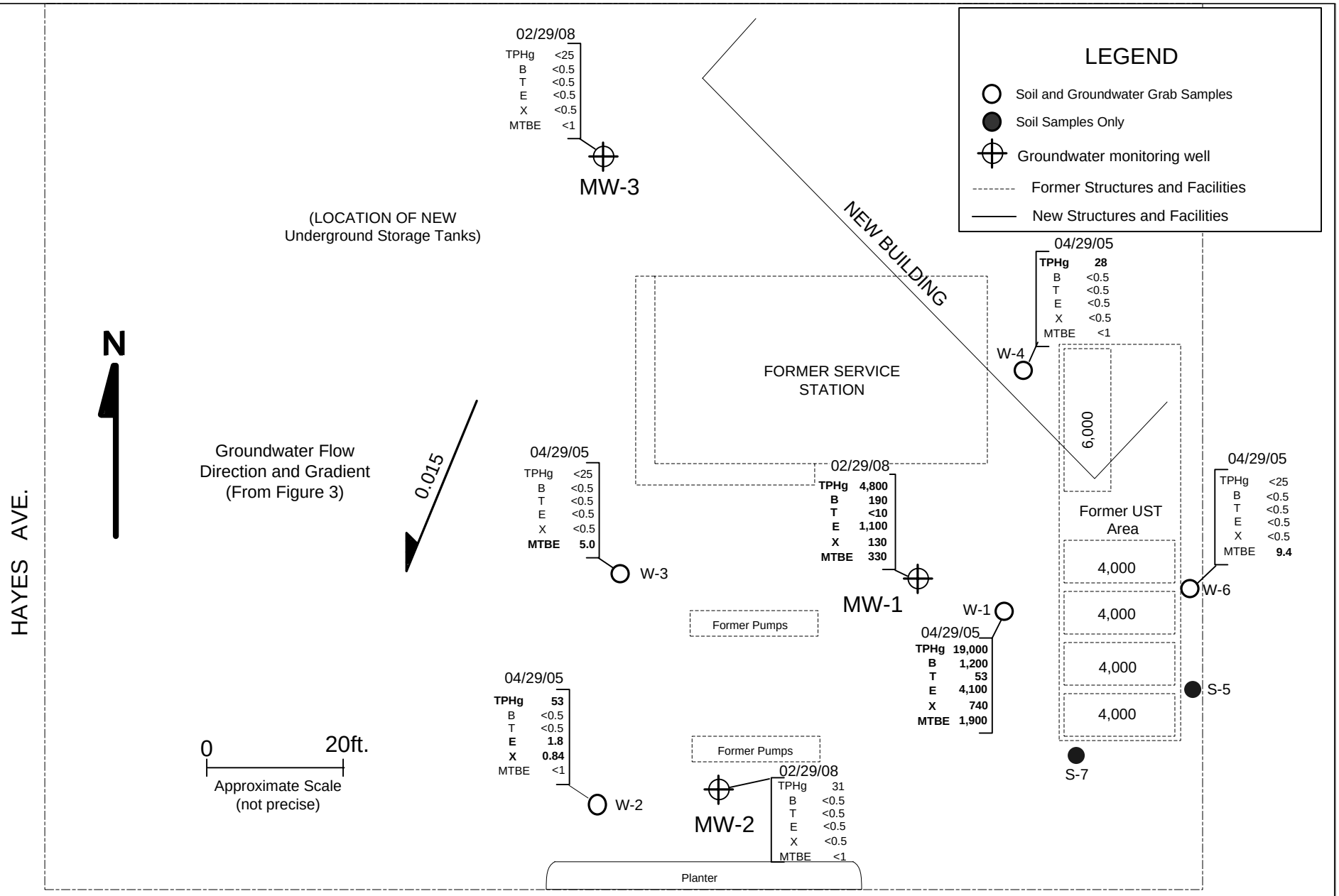
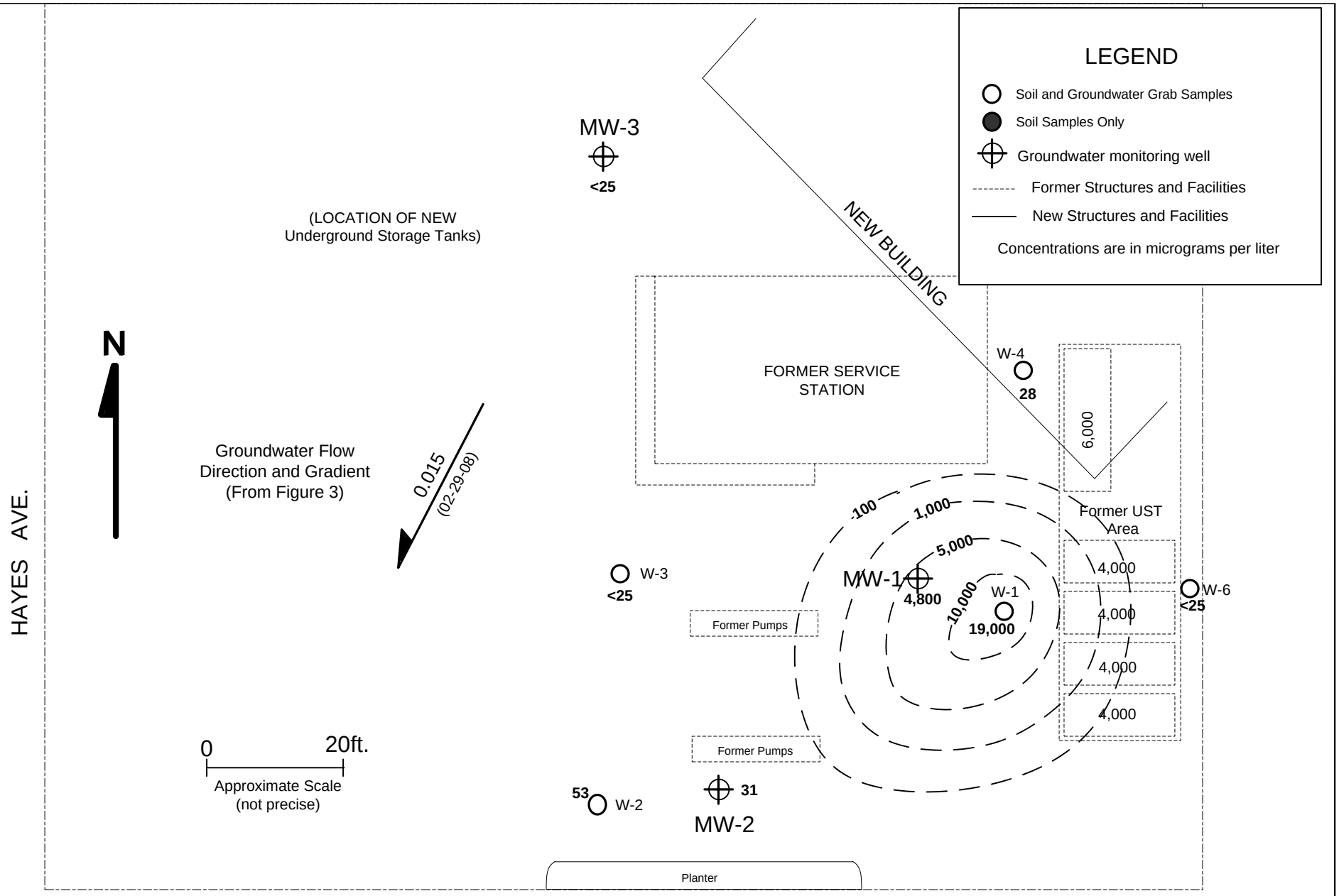
REVISED	REVIEWED BY	SITE MAP	FIGURE
RM 05/18/07		(showing approximate locations of former and existing structures and former and existing sampling locations)	2
8.5 x 11	REVIEW DATE	4186 EAST AVENUE, LIVERMORE, CALIFORNIA	PROJECT 101-6404



RM ASSOCIATES Environmental Consultants	REVISED RM 05/18/07	REVIEWED BY	**GROUNDWATER ELEVATION CONTOURS (02/29/08)**	FIGURE **3**
	8.5 x 11	REVIEW DATE	4186 EAST AVENUE, LIVERMORE, CALIFORNIA	PROJECT 101-6404



RM ASSOCIATES Environmental Consultants	REVISED RM 05/18/07	REVIEWED BY	**DISTRIBUTION OF GROUNDWATER ANALYTICAL RESULTS** (Distribution Based on Last Sampling Event at Each Sampling Location)	FIGURE 4
	8.5 x 11	REVIEW DATE	4186 EAST AVENUE, LIVERMORE, CALIFORNIA	PROJECT 101-6404



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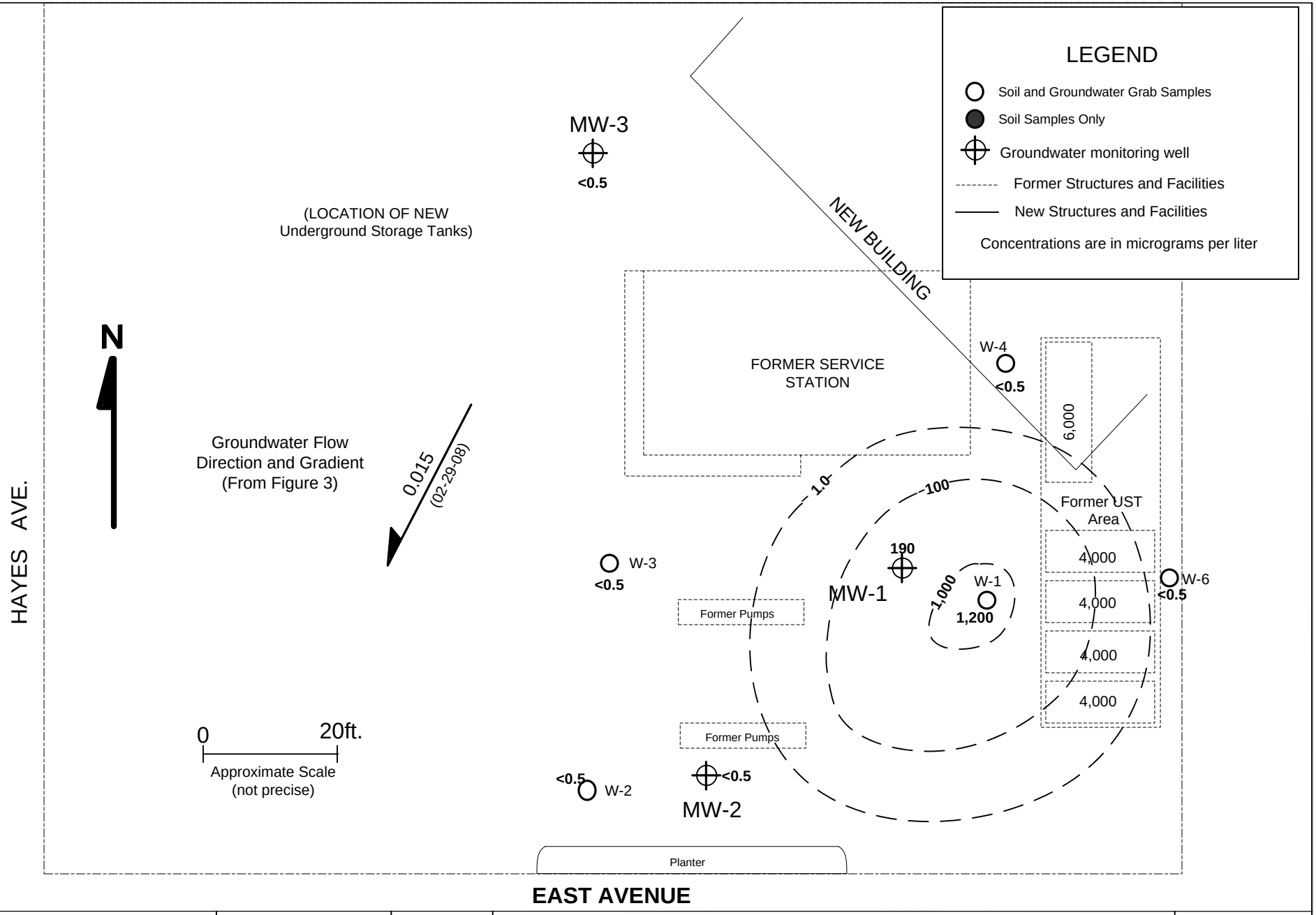
REVISED	REVIEWED BY	ISO-CONCENTRATION CONTOURS FOR TPHg	FIGURE
RM 05/18/07		(Contours Based on Last Sampling Event at Each Sampling Location)	5
8.5 x 11	REVIEW DATE	4186 EAST AVENUE, LIVERMORE, CALIFORNIA	PROJECT 101-6404



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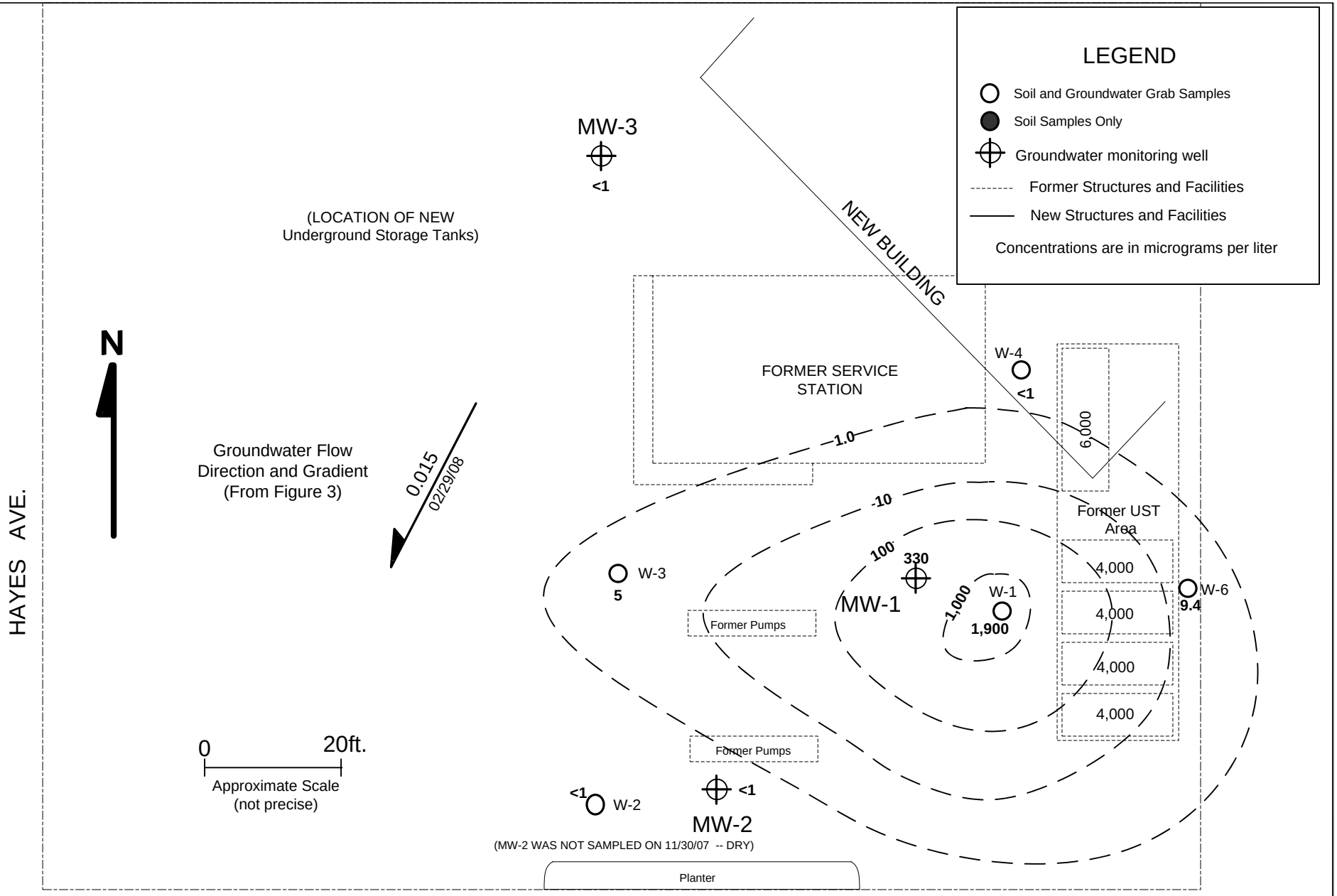
REVISED	REVIEWED BY	ISO-CONCENTRATION CONTOURS FOR BENZENE	FIGURE
RM 05/18/07		(Contours Based on Last Sampling Event at Each Sampling Location)	6
8.5 x 11	REVIEW DATE	4186 EAST AVENUE, LIVERMORE, CALIFORNIA	PROJECT 101-6404



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REVISED	REVIEWED BY	ISO-CONCENTRATION CONTOURS FOR MTBE	FIGURE
RM 05/18/07		(Contours Based on Last Sampling Event at Each Sampling Location)	7
8.5 x 11	REVIEW DATE	4186 EAST AVENUE, LIVERMORE, CALIFORNIA	PROJECT 101-6404

APPENDICES

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 chain-of-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

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

Project Name: Rotten Robbie #64 Project Number:

Address: Reg. Agency:

Other Req's.:

Well Number: MW-1 Date: 2/29/08 Well Lock Number:

Sampler(s): Jim Pavlik

Stagnant Volume Calculation	Well Casing Diameter (inches)	Total Well Depth (ft.)	Initial Depth to Groundwater (ft.)	Stagnant Volume (gal.)
	2"	29.70	18.74	1.75

Stagnant Volume Calculation

Well Casing Diameter (inches)	Linear Feet of Groundwater		Gallons per Linear Foot of Groundwater		Stagnant Volume (gal.)
2	Total Well Depth (ft.)	Depth to GW (ft.)	0.17	=	
4			0.66	=	
6			1.5	=	

Groundwater Surface Inspection (bailer check)

- 0 Floating Product (ft.) (in.)
- NONE Sheen/Iridescence
- NONE Odor

Remarks: DO: 1.2 ORP 122

Date: 2/29/08 Time: 1430

Groundwater Purging

Purge Method Used

___ Stainless Steel Bailer; ___ Submersible Pump

Other: 12V Pump

Purged Water Containment

_____ gals stored in _____ 55 gal drum(s)

Any previous drums? _____ Capacity _____

Stagnant Volumes Purged	Volume Purged (gal)	Time	Temp. of °C	pH	Conductivity umhos us	Color/Turbidity (other)
0	0	1336	20.4	7.5	795	Clear
1	2	1338	19.9	7.5	769	"
2	4	1339	19.9	7.5	1172	"
3	6	1341	19.9	7.5	1171	"
4	8	1343	19.9	7.5	1173	"
5						
6						
7						
8						
9						
10						

Groundwater Sampling

Water Level Recovery

	Depth to GW (ft.)
(P) After purging	23.00
(I) Initially	18.74
(S) Before sampling	19.00

(P-S) / (P-I) x 100 = 93 % Total Recovery

80% Recovery: S = P - 0.8 x (P-I)

Sample Containers

	How Many?	Preservatives?
1 liter, amber glass	1	NONE
40 ml, VOA	4	HCL PH 2
500 ml, polypropylene		

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

Project Name: Rotten Robbie H 64 Project Number:

Address: Reg. Agency:

Other Req's.:

Well Number: MW-3 Date: 2/29/08 Well Lock Number:

Sampler(s): Jim Pawlak

Stagnant Volume Calculation	Well Casing Diameter (inches)	Total Well Depth (ft.)	Initial Depth to Groundwater (ft.)	Stagnant Volume (gal.)
	2"	30.00	18.67	1.81

Stagnant Volume Calculation

Well Casing Diameter (inches)		Linear Feet of Groundwater		Gallons per Linear Foot of Groundwater		Stagnant Volume (gal.)
2	Total Well Depth (ft.)	- Depth to GW (ft.)	X	0.17	=	
4				0.66	=	
6				1.5	=	

Groundwater Surface Inspection (baller check)

0 Floating Product (ft.) (in.)

NONE Sheen/Iridescence

NONE Odor

Remarks: DO: 5.2 ORP 120

Date: 2/29/08 Time 1415

Groundwater Purging

Purge Method Used

____ Stainless Steel Baller; ____ Submersible Pump

Other: 12 V. Pump

Purged Water Containment

_____ gals stored in _____ 55 gal drum(s)

Any previous drums? _____ Capacity _____

Stagnant Volumes Purged	Volume Purged (gal)	Time	Temp. of °C	pH	Conductivity umhos us	Color/Turbidity (other)
0	0	13:22	20.4	7.7	790	Clear
1	2	13:24	19.8	7.7	1114	"
2	4	13:26	19.7	7.7	1099	"
3	6	13:28	19.7	7.7	1095	"
4						
5						
6						
7						
8						
9						
10						

Groundwater Sampling

Water Level Recovery

Depth to GW (ft.)

(P) After purging 21.00

(I) Initially 18.67

(S) Before sampling 18.67

(P-S) / (P-I) x 100 = 100 % Total Recovery

80% Recovery: S = P - 0.8 x (P-I)

Sample Containers

	How Many?	Preservatives?
1 liter, amber glass	1	NONE
40 ml, VOA	4	HCL PH 2
500 ml, polypropylene		

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

Project Name: Ruffin Robbie #64 Project Number:

Address: Reg. Agency:

Other Req's.:

Well Number: MW-2 Date: 2/29/08 Well Lock Number:

Sampler(s): Jim Parish

Stagnant Volume Calculation	Well Casing Diameter (inches)	Total Well Depth (ft.)	Initial Depth to Groundwater (ft.)	Stagnant Volume (gal.)
	2"	28.20	18.86	1.49

Stagnant Volume Calculation

Well Casing Diameter (inches)	Linear Feet of Groundwater		Gallons per Linear Foot of Groundwater		Stagnant Volume (gal.)
2	Total Well Depth (ft.) − Depth to GW (ft.)	x	0.17	=	
4			0.66	=	
6			1.5	=	

Groundwater Surface Inspection (baller check)

- 0 Floating Product (ft.) (in.)
- NONE Sheen/Iridescence
- NONE Odor

Remarks: DO. .9 ORP: 118

Date: 2/29/08 Time: 14:00

Groundwater Purging

Purge Method Used

____ Stainless Steel Baller; ____ Submersible Pump Other: 12V. Pump

Purged Water Containment

_____ gals stored in _____ 55 gal drum(s)

Any previous drums? _____ Capacity _____

Stagnant Volumes Purged	Volume Purged (gal)	Time	Temp. of °C	pH	Conductivity umhos us	Color/Turbidity (other)
0	-0-	13:09	20.5	7.98	1082	Clear
1	1.5	13:10	20.0	7.8	1038	"
2	3.0	13:11	19.9	7.7	1030	"
3	4.5	13:13	19.9	7.7	1021	"
4						
5						
6						
7						
8						
9						
10						

Groundwater Sampling

Water Level Recovery

	Depth to GW (ft.)
(P) After purging	21.50
(I) Initially	18.86
(S) Before sampling	18.86

(P-S) / (P-I) x 100 = 100 % Total Recovery

80% Recovery: S = P - 0.8 x (P-I)

Sample Containers

	How Many?	Preservatives?
1 liter, amber glass	1	NONE
40 ml, VOA	4	HCL PH 2
500 ml, polypropylene		

Rotten Robbie # 64 Water Levels 2/29/08

MW-1	18.74
MW-2	18.86
MW-3	18.67

APPENDIX C

CERTIFIED ANALYTICAL RESULTS

ACCUTEST Laboratories

ENTECH ANALYTICAL LABS, INC.

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

Ron Michelson
RM Associates
16401 Meadow Vista Drive, Suite 102
Pioneer, CA 95666

Lab Order Number: 59902
Issued: 03/07/2008

P.O. Number: Invoice Robinson Oil Corp. 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 February 29, 2008, 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 for Groundwater and Water - EPA 624 for Wastewater 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 responsibility 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

ACCUTEST Laboratories

Northern California *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 Corp. Directly
Samples Received: 02/29/2008
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab # : 59902-001 **Sample ID: MW-1** **Matrix:** Liquid **Sample Date:** 2/29/2008 2:20 PM

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	**850**		0.96	48	µg/L	3/4/2008	WDA080304	3/5/2008	WDA080304

Not a typical pattern. Higher boiling gasoline compounds in the Diesel range (C9-C16).

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	101	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	**190**		20	10	µg/L	N/A	N/A	3/5/2008	WM7080305
Toluene	ND		20	10	µg/L	N/A	N/A	3/5/2008	WM7080305
Ethyl Benzene	**1100**		20	10	µg/L	N/A	N/A	3/5/2008	WM7080305
Xylenes, Total	**130**		20	10	µg/L	N/A	N/A	3/5/2008	WM7080305
Methyl-t-butyl Ether	**330**		20	20	µg/L	N/A	N/A	3/5/2008	WM7080305
tert-Butyl Ethyl Ether	ND		20	100	µg/L	N/A	N/A	3/5/2008	WM7080305
tert-Butanol (TBA)	ND		20	200	µg/L	N/A	N/A	3/5/2008	WM7080305
Diisopropyl Ether	ND		20	100	µg/L	N/A	N/A	3/5/2008	WM7080305
tert-Amyl Methyl Ether	ND		20	100	µg/L	N/A	N/A	3/5/2008	WM7080305
1,2-Dichloroethane	ND		20	10	µg/L	N/A	N/A	3/5/2008	WM7080305
1,2-Dibromoethane (EDB)	ND		20	10	µg/L	N/A	N/A	3/5/2008	WM7080305

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.6	60 - 130
Dibromofluoromethane	93.2	60 - 130
Toluene-d8	96.7	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	**4800**		20	500	µg/L	N/A	N/A	3/5/2008	WM7080305

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.0	60 - 130
Dibromofluoromethane	94.3	60 - 130
Toluene-d8	95.1	60 - 130

Analyzed by: Bela
Reviewed by: MaiChiTu

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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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 Corp. Directly
Samples Received: 02/29/2008
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab # : 59902-002 **Sample ID: MW-2** **Matrix:** Liquid **Sample Date:** 2/29/2008 2:00 PM

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	ND		0.96	48	µg/L	3/4/2008	WDA080304	3/5/2008	WDA080304

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	103	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

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	3/5/2008	WM7080305
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	3/5/2008	WM7080305
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	3/5/2008	WM7080305
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	3/5/2008	WM7080305
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	3/5/2008	WM7080305
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	3/5/2008	WM7080305
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	3/5/2008	WM7080305
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	3/5/2008	WM7080305
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	3/5/2008	WM7080305
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	3/5/2008	WM7080305
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	3/5/2008	WM7080305

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	97.4	60 - 130
Dibromofluoromethane	97.4	60 - 130
Toluene-d8	96.8	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	**31**		1.0	25	µg/L	N/A	N/A	3/5/2008	WM7080305

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.8	60 - 130
Dibromofluoromethane	99.0	60 - 130
Toluene-d8	95.1	60 - 130

Analyzed by: Bela
Reviewed by: MaiChiTu

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

ACCUTEST Laboratories

Northern California *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 Corp. Directly
Samples Received: 02/29/2008
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab # : 59902-003 **Sample ID: MW-3** **Matrix:** Liquid **Sample Date:** 2/29/2008 2:15 PM

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	ND		0.96	48	µg/L	3/4/2008	WDA080304	3/5/2008	WDA080304

Surrogate	Surrogate Recovery	Control Limits (%)	
n-Hexacosane	103	50 -	150

Analyzed by: JHsiang
Reviewed by: mtran

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

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	3/4/2008	WM7080304
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	3/4/2008	WM7080304
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	3/4/2008	WM7080304
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	3/4/2008	WM7080304
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	3/4/2008	WM7080304
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	3/4/2008	WM7080304
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	3/4/2008	WM7080304
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	3/4/2008	WM7080304
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	3/4/2008	WM7080304
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	3/4/2008	WM7080304
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	3/4/2008	WM7080304

Surrogate	Surrogate Recovery	Control Limits (%)	
4-Bromofluorobenzene	92.5	60 -	130
Dibromofluoromethane	93.5	60 -	130
Toluene-d8	97.3	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	3/4/2008	WM7080304

Surrogate	Surrogate Recovery	Control Limits (%)	
4-Bromofluorobenzene	91.0	60 -	130
Dibromofluoromethane	94.3	60 -	130
Toluene-d8	95.7	60 -	130

Analyzed by: Bela
Reviewed by: MaiChiTu

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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

QC/Prep Batch ID: WDA080304

Validated by: mtran - 03/04/08

QC/Prep Date: 3/4/2008

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
n-Hexacosane	**87.7**	50 - 150

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

QC Batch ID: WDA080304

Reviewed by: mtran - 03/04/08

QC/Prep Date: 3/4/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	757	µg/L	75.7	45 - 140
TPH as Motor Oil	<200	1000	666	µg/L	66.6	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**86.9**	50 - 150

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	809	µg/L	80.9	6.6	25.0	45 - 140
TPH as Motor Oil	<200	1000	717	µg/L	71.7	7.4	25.0	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**88.6**	50 - 150

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7080304

Validated by: MaiChiTu - 03/05/08

QC Batch Analysis Date: 3/4/2008

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	Control Limits
4-Bromofluorobenzene	**94.8**	60 - 130
Dibromofluoromethane	**91.1**	60 - 130
Toluene-d8	**99.5**	60 - 130

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

QC Batch ID: WM7080304

Validated by: MaiChiTu - 03/05/08

QC Batch Analysis Date: 3/4/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**93.2**	60 - 130
Dibromofluoromethane	**92.4**	60 - 130
Toluene-d8	**97.8**	60 - 130

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LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7080304

Reviewed by: MaiChiTu - 03/05/08

QC Batch ID Analysis Date: 3/4/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	20	23.7	µg/L	119	70 - 130
Benzene	<0.50	20	21.8	µg/L	109	70 - 130
Chlorobenzene	0.0	20	21.7	µg/L	108	70 - 130
Methyl-t-butyl Ether	<1.0	20	20.2	µg/L	101	70 - 130
Toluene	<0.50	20	22.2	µg/L	111	70 - 130
Trichloroethene	0.0	20	22.5	µg/L	112	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**94.5**	60 - 130
Dibromofluoromethane	**97.5**	60 - 130
Toluene-d8	**94.3**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	0.0	20	21.0	µg/L	105	12	25.0	70 - 130
Benzene	<0.50	20	19.7	µg/L	98.4	10	25.0	70 - 130
Chlorobenzene	0.0	20	19.1	µg/L	95.5	13	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.8	µg/L	94.1	7.0	25.0	70 - 130
Toluene	<0.50	20	19.7	µg/L	98.4	12	25.0	70 - 130
Trichloroethene	0.0	20	20.1	µg/L	100	11	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**96.5**	60 - 130
Dibromofluoromethane	**94.9**	60 - 130
Toluene-d8	**96.8**	60 - 130

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

QC Batch ID: WM7080304

Reviewed by: MaiChiTu - 03/05/08

QC Batch ID Analysis Date: 3/4/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	120	µg/L	96.3	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**91.1**	60 - 130
Dibromofluoromethane	**95.5**	60 - 130
Toluene-d8	**97.3**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	127	µg/L	101	5.0	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**94.3**	60 - 130
Dibromofluoromethane	**95.3**	60 - 130
Toluene-d8	**95.7**	60 - 130

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7080305

Validated by: MaiChiTu - 03/06/08

QC Batch Analysis Date: 3/5/2008

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	Control Limits
4-Bromofluorobenzene	**94.9**	60 - 130
Dibromofluoromethane	**96.8**	60 - 130
Toluene-d8	**96.2**	60 - 130

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

QC Batch ID: WM7080305

Validated by: MaiChiTu - 03/06/08

QC Batch Analysis Date: 3/5/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**93.3**	60 - 130
Dibromofluoromethane	**98.2**	60 - 130
Toluene-d8	**94.6**	60 - 130

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LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7080305

Reviewed by: MaiChiTu - 03/06/08

QC Batch ID Analysis Date: 3/5/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	20	23.1	µg/L	116	70 - 130
Benzene	<0.50	20	20.8	µg/L	104	70 - 130
Chlorobenzene	0.0	20	19.9	µg/L	99.5	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.9	µg/L	89.3	70 - 130
Toluene	<0.50	20	20.8	µg/L	104	70 - 130
Trichloroethene	0.0	20	21.3	µg/L	107	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**95.5**	60 - 130
Dibromofluoromethane	**97.6**	60 - 130
Toluene-d8	**93.9**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	0.0	20	20.5	µg/L	102	12	25.0	70 - 130
Benzene	<0.50	20	19.5	µg/L	97.7	6.1	25.0	70 - 130
Chlorobenzene	0.0	20	18.7	µg/L	93.4	6.3	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.5	µg/L	87.4	2.1	25.0	70 - 130
Toluene	<0.50	20	20.3	µg/L	102	2.1	25.0	70 - 130
Trichloroethene	0.0	20	19.7	µg/L	98.6	7.7	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**93.3**	60 - 130
Dibromofluoromethane	**93.9**	60 - 130
Toluene-d8	**96.0**	60 - 130

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

QC Batch ID: WM7080305

Reviewed by: MaiChiTu - 03/06/08

QC Batch ID Analysis Date: 3/5/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	122	µg/L	97.8	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**95.5**	60 - 130
Dibromofluoromethane	**98.4**	60 - 130
Toluene-d8	**96.3**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	126	µg/L	101	3.4	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**94.4**	60 - 130
Dibromofluoromethane	**96.3**	60 - 130
Toluene-d8	**94.5**	60 - 130

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

MS / MSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7080305

Reviewed by: MaiChiTu - 03/06/08

QC Batch ID Analysis Date: 3/5/2008

MS Sample Spiked: 59902-002

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Benzene	ND	1	20	24.7	µg/L	3/5/2008	124	70 - 130
Methyl-t-butyl Ether	ND	1	20	20.2	µg/L	3/5/2008	101	70 - 130
Toluene	ND	1	20	25.0	µg/L	3/5/2008	125	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**96.6**	60 - 130
Dibromofluoromethane	**98.4**	60 - 130
Toluene-d8	**95.4**	60 - 130

MSD Sample Spiked: 59902-002

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	ND	1	20	24.8	µg/L	3/5/2008	124	0.28	25.0	70 - 130
Methyl-t-butyl Ether	ND	1	20	19.6	µg/L	3/5/2008	98.0	3.2	25.0	70 - 130
Toluene	ND	1	20	25.0	µg/L	3/5/2008	125	0.23	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**93.4**	60 - 130
Dibromofluoromethane	**96.6**	60 - 130
Toluene-d8	**93.3**	60 - 130

RM Associates

16401 Meadow Vista Drive, Suite 102
Pioneer, CA 95666
Main Line: (209) 295-6218
Facsimile: (209) 295-3974

CHAIN OF CUSTODY FORM

Turnaround Time: (working days) X Standar 7 day 5 day | 3 day 2 day 24 hr | 2-8 hr other (____)

Project Name: Rotten Robbie No. 64 Client: Robinson Oil Corporation
Project Number: 101-6404 Task: 1
Global I.D.: T0600152516
Project Address: 4186 East Avenue, Livermore, California
Laboratory: Entech Analytical Labs Contact: Simon Hague
Lab Address/Phone: (408) 588-0200
RMA Project Manager: Ronald W. Michelson
RMA PM Ph. No.: (209) 295-7903 Email: Rmichelson@volcano.net
RMA Sampler: ~~Ron Michelson~~ Jim Pavicic Phone: (209) 295-6218 59902

RMA Sample ID	Sample Information: Date	Time	Matrix: Soil	Water	Vapor	Container Information: No.	Type	Preservative	Field Pt. I.D.- Check if same as Sample I.D.	Analyses Requested: TPHg/BTEX/5 Fuel Oxy's/ 1,2 DCA & EDB (8260B)	TPHd (8015M)
MW-1	2/29/08	1430		X		4	40 ml. VOA	HCL	X 001	X	
MW-1		1430		X		1	1 Liter Amb		X		X
MW-2		1400		X		4	40 ml. VOA	HCL	X 002	X	
MW-2		1400		X		1	1 Liter Amb		X		X
MW-3		1415		X		4	40 ml. VOA	HCL	X 003	X	
MW-3		1415		X		1	1 Liter Amb		X		X

Additional Comments: Invoice to Robinson Oil Corporation, 4250 Williams Road, San Jose, CA 95129 Attn. Tom Robinson, (408) 257-22
Report to RMA 1Lit Amber each N/P 4 vials each (w/HCl) Record @ Temperature: 6.6°C.

EDF Format [X]

Relinquished By:	Date/Time: 2/29/08 1530	Received By:	Date/Time: 2 29 08 1533
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

Sample Condition. Good? Yes ___ No ___ On Ice? Yes ___ No ___ Cooler Temp ____ Transportation Method:

Page ___ of ___

White - Lab Yellow - Lab Pink - ATC

APPENDIX D

TRANSMITTAL LETTER

ROBINSON OIL CORPORATION

AN INDEPENDENT FRANCHISEE OF
PACIFIC PRIDE
THE COMMERCIAL FUELING SYSTEM

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

Rotten Robbie

March 20, 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. 2 – 1st Quarter 2008

Report Date: March 19, 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