

RM Associates

Environmental Consultants

July 2, 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

11:39 am, Jul 08, 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. 3 - 2nd Quarter 2008
June 26, 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). Your attention is directed to Section 5.0 of the report (Summary, Conclusions, and Recommendation).

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. 3 – 2ND 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

June 26, 2008

RMAssociates

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

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SITE DESCRIPTION AND BACKGROUND.....	1
2.1	Phase II Environmental Assessment	1
2.2	UST Removal	2
2.3	Monitoring Well Installations.....	2
2.4	Initially Groundwater Sampling and Results.....	2
3.0	GROUNDWATER MONITORING.....	2
3.1	Groundwater Elevation Measurements and Sampling.....	2
3.2	Field Measurements and Groundwater Analytical.....	3
4.0	DISCUSSION OF ANALYTICAL RESULTS	3
5.0	SUMMARY, CONCLUSIONS, AND RECOMMENDATION	3
6.0	CERTIFICATION	4
7.0	DISTRIBUTION	5

TABLES

TABLE 1 – Well Construction Details

TABLE 2 – Purge Data

TABLE 3 – Water Level Measurements and Elevation

TABLE 4 – Field Measurements

TABLE 5 – Groundwater Analytical Results (Petroleum Hydrocarbons)

**TABLE 6 – Groundwater Analytical Results(Oxygenates and Chlorinated
Hydrocarbons)**

TABLE 7 – Groundwater Monitoring Schedule

TABLE OF CONTENTS (CONTINUED)

FIGURES

FIGURE 1 – Vicinity Map

FIGURE 2 – Site Map (showing soil boring and monitoring well locations)

FIGURE 3 – Groundwater Elevation Contours

FIGURE 4 – Distribution of Groundwater Analytical Results

FIGURE 5 – Iso-concentration Contours for TPHg

FIGURE 6 – Iso-concentration Contours for Benzene

FIGURE 7 – Iso-concentration Contours for MTBE

APPENDICES

APPENDIX A - Groundwater Sampling Procedures

APPENDIX B - Purge and Sampling Worksheets

APPENDIX C - Laboratory Reports and Chain of Custody Documents

APPENDIX D – Transmittal Letter

GROUNDWATER MONITORING REPORT NO. 3 – 2ND QUARTER 2008

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

June 26, 2008

1.0 INTRODUCTION

This “Groundwater Monitoring Report No. 3, 2nd 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 May 21, 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. The average groundwater elevation has remained relatively steady since the previous (February 2008) monitoring event, declining only 0.43 feet. During this period, the groundwater gradient has flattened out from 0.015 ft./ft. to approximately 0.008 ft./ft. The flow direction has remained relatively steady 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 DISCUSSION 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 concentrations of petroleum hydrocarbon concentrations were again detected only in the groundwater sample from monitoring well MW-1 with TPHg, benzene, and MTBE concentrations at 2,500 µg/L, 55 µg/L, and 150 µg/L, respectively. These concentrations are significantly lower than either the previous February 2008 results or the May 2007 results but are higher than the results reported for November 2007 monitoring event. 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 SUMMARY, CONCLUSIONS, AND 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, after four quarterly monitoring events, that the petroleum hydrocarbon condition at this site does not pose any perceivable hazard to either public health or safety or to the underlying groundwater resources.

The former product lines believed to have been associated with a gasoline release were removed several years in the past, prior to the installation of the 1st generation of double-contained product piping.

Currently all of the fuel USTs and associated product lines have been removed from the impacted area of the property. Analysis of soil samples collected in conjunction with the removals, from the native soil beneath the USTs and product lines, did not detect the presence of any petroleum hydrocarbons above their respective laboratory detection limits.

Although the groundwater in the vicinity of monitoring well MW-1 remains moderately impacted by the presence of gasoline hydrocarbons, the monitoring record shows that the impacted plume has not migrated far from the source.

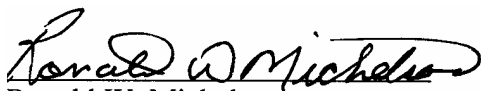
RMA does not believe that continued quarterly groundwater monitoring at this site is warranted. It is therefore recommended that groundwater samples at the site be next collected and analyzed in April 2009, when it is certain that the water table will be above the bottoms of each of the three monitoring wells. If at that time, the hydrocarbon concentrations in monitoring well MW-1 are at their present level or lower and the concentrations in monitoring well MW-2 remain at or near non-detect, RMA will recommend that the site be considered for closure. Unless otherwise advised, this recommendation will be implemented

As shown on Table 7, the next groundwater monitoring event is currently scheduled for April 2009.

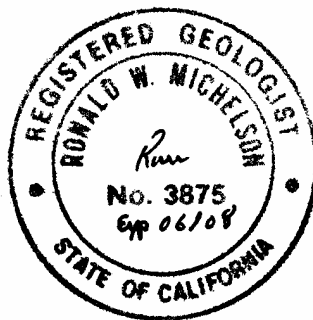
6.0 CERTIFICATION

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 Associates**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 Associates**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
	05/21/08	12 V. PUMP	3
MW-2	05/07/07	12 V. PUMP	16
	11/30/07	Well Dry	3
	02/29/08	12 V. PUMP	3
	05/21/08	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
	5/21/2008	12 V. PUMP	3

RM Associates				
TABLE 3 - WATER LEVEL MEASUREMENTS 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
	05/21/08	539.50	19.12	520.38
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
	05/21/08	539.15	19.12	520.03
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
	05/21/08	539.76	19.31	520.45
Notes:	MSL =	Mean Sea Level		-0.43
	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 Associates

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
	05/21/08	7.7	803	19.5	Clearing	1.6	65
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
	05/21/08	7.7	865	20.1	Clearing	2.2	68.0
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	7.7	1095	19.7	Clear	5.20	120
	05/21/08	7.9	854	19.1	Clearing	3.70	67

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

RM Associates

**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
	05/21/08	55	<2.5	460	21	2,500
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
	05/21/08	<0.5	<0.5	<0.5	<0.5	<25
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
	05/21/08	<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**

RM Associates

**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
	05/21/08	<50	150	<25	<25	<25	<25	<25
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
	05/21/08	<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
	05/21/08	<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**

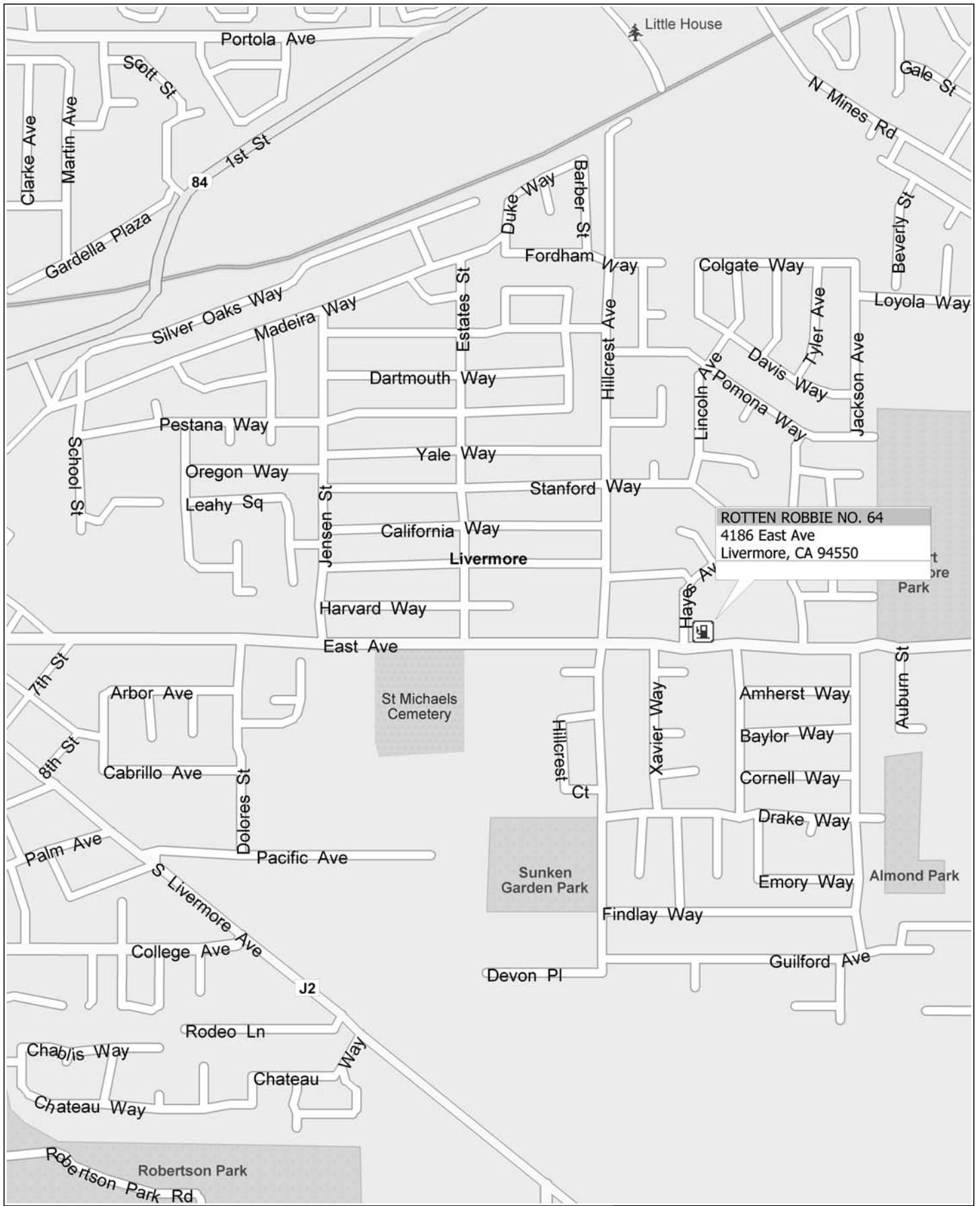
RM Associates

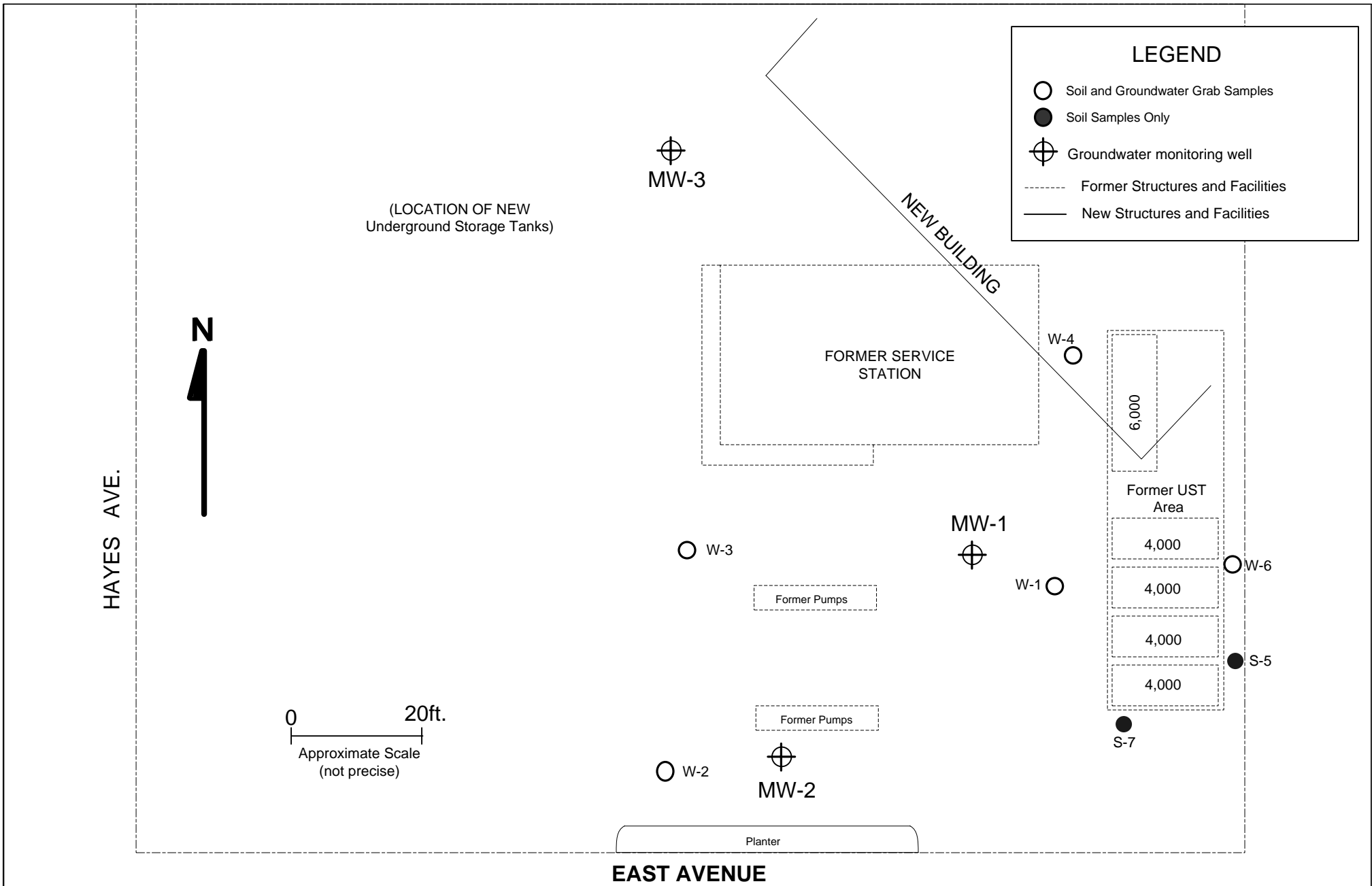
TABLE 7 - GROUNDWATER MONITORING SCHEDULE
Rotten Robbie 64, 4186 East Avenue, Livermore, California

Activity	Jan	Feb	Mar	April 09	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water Level Measurement				X								
Water Sampling & Analysis				X								
Self-Monitoring Report					X							

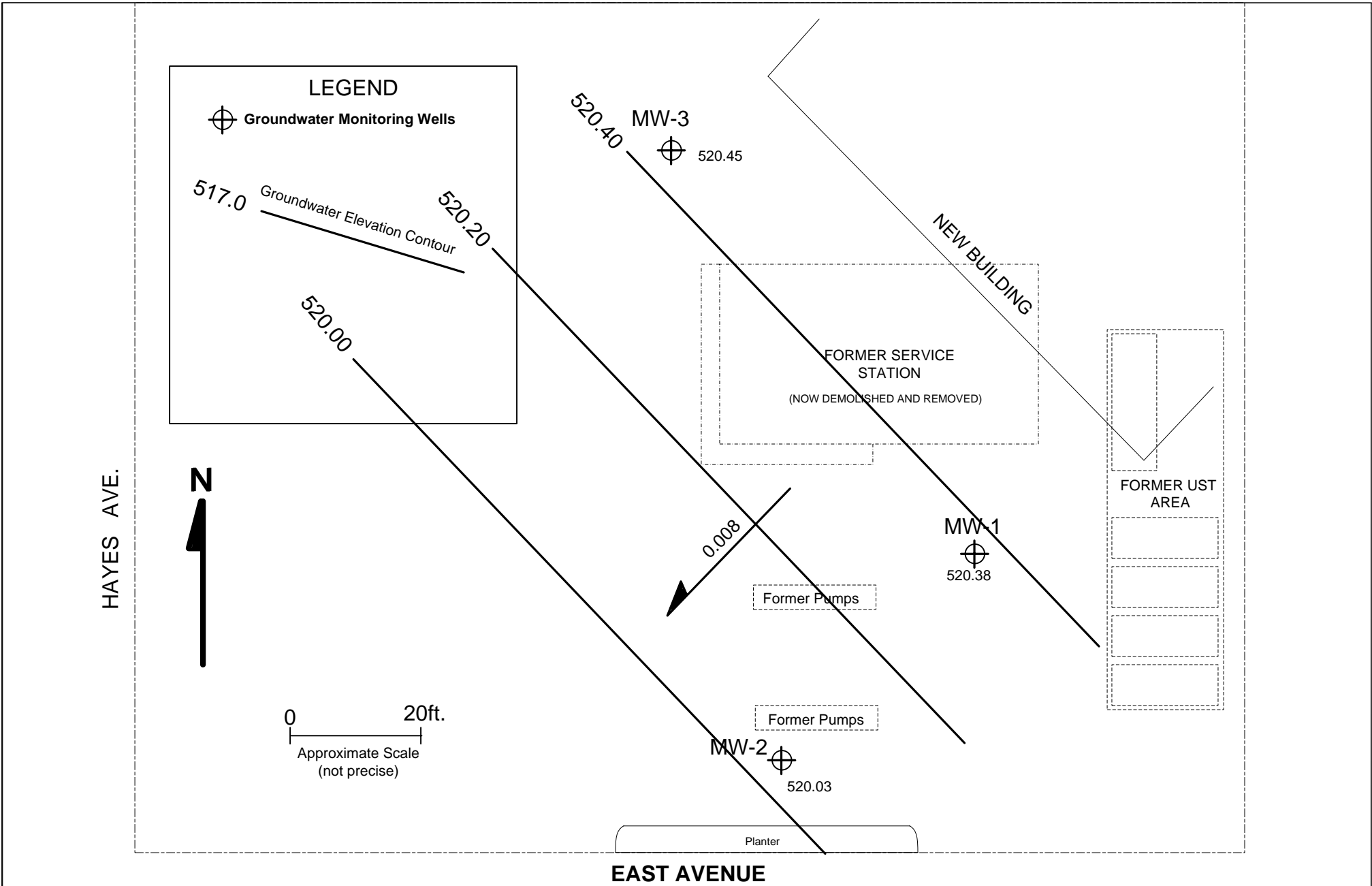
FIGURES

FIGURE 1 - VICINITY MAP

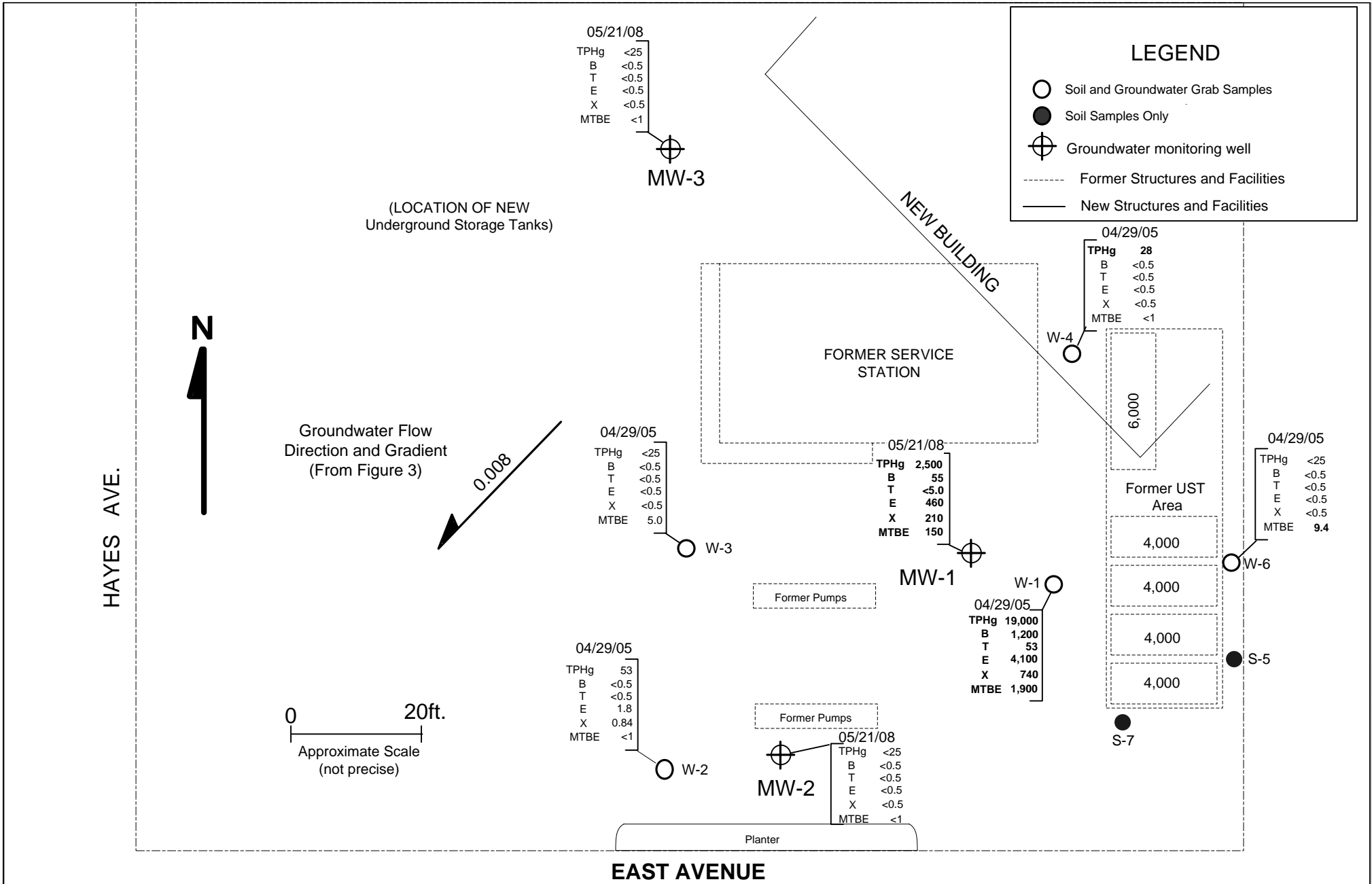


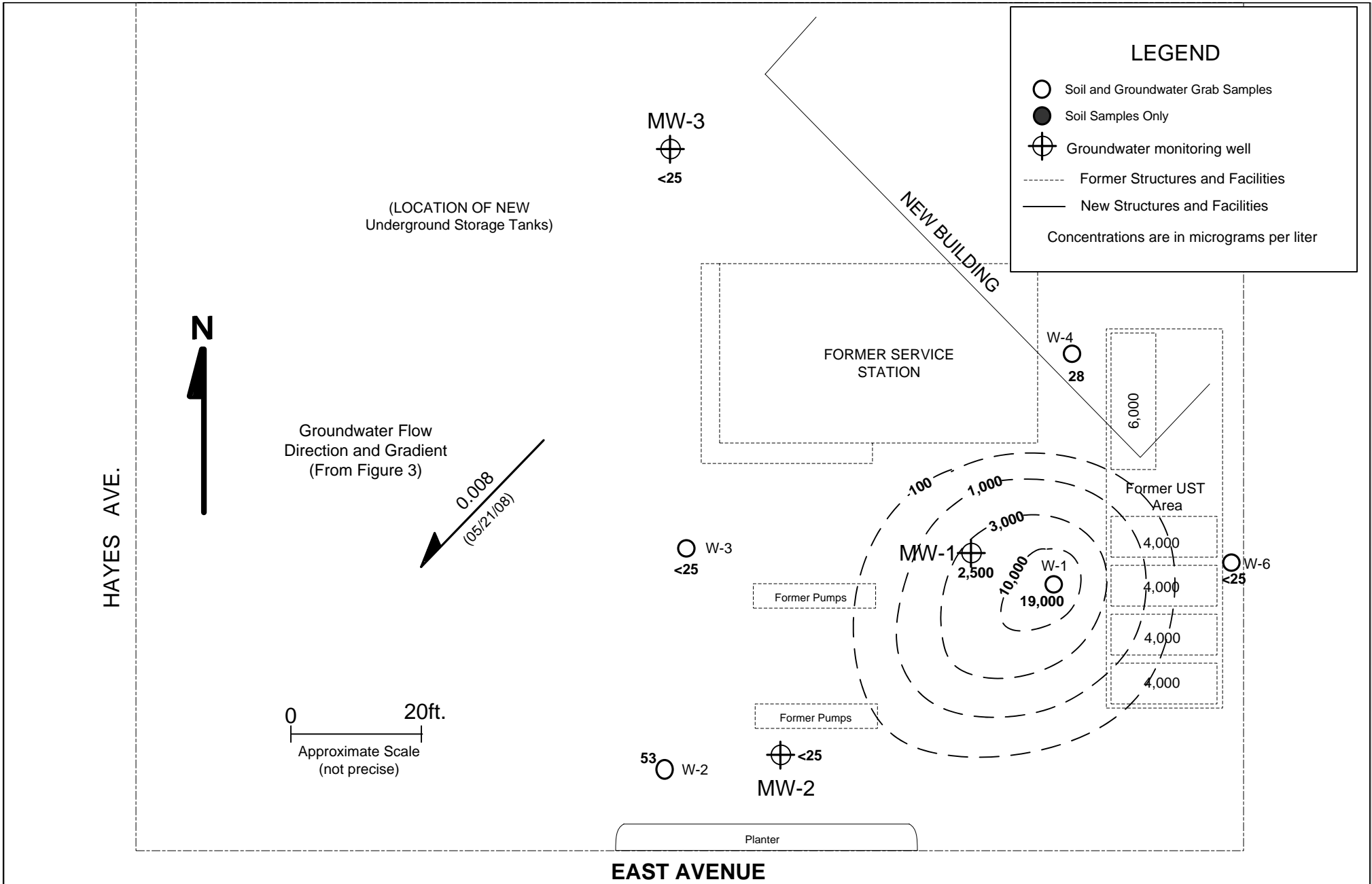


RM ASSOCIATES Environmental Consultants	REVISED	REVIEWED BY	SITE MAP (showing approximate locations of former and existing structures and former and existing sampling locations) 4186 EAST AVENUE, LIVERMORE, CALIFORNIA	FIGURE
	RM	05/18/07		2
	8.5 x 11	REVIEW DATE		PROJECT
				101-6404

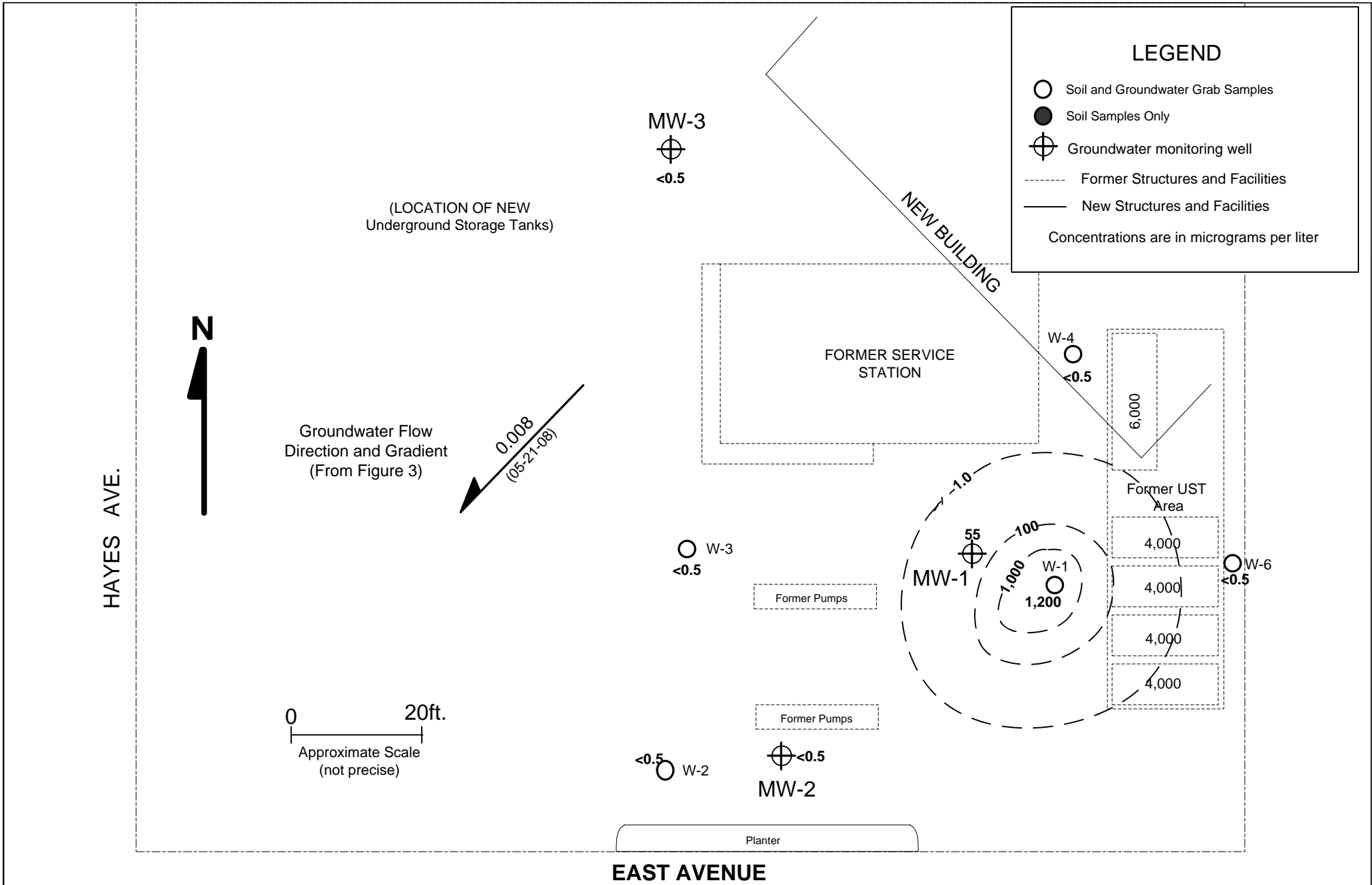


RM ASSOCIATES Environmental Consultants	REVISED	REVIEWED BY	GROUNDWATER ELEVATION CONTOURS (05/21/08) 4186 EAST AVENUE, LIVERMORE, CALIFORNIA	FIGURE
	RM	05/18/07		3
	8.5 x 11	REVIEW DATE		PROJECT
				101-6404

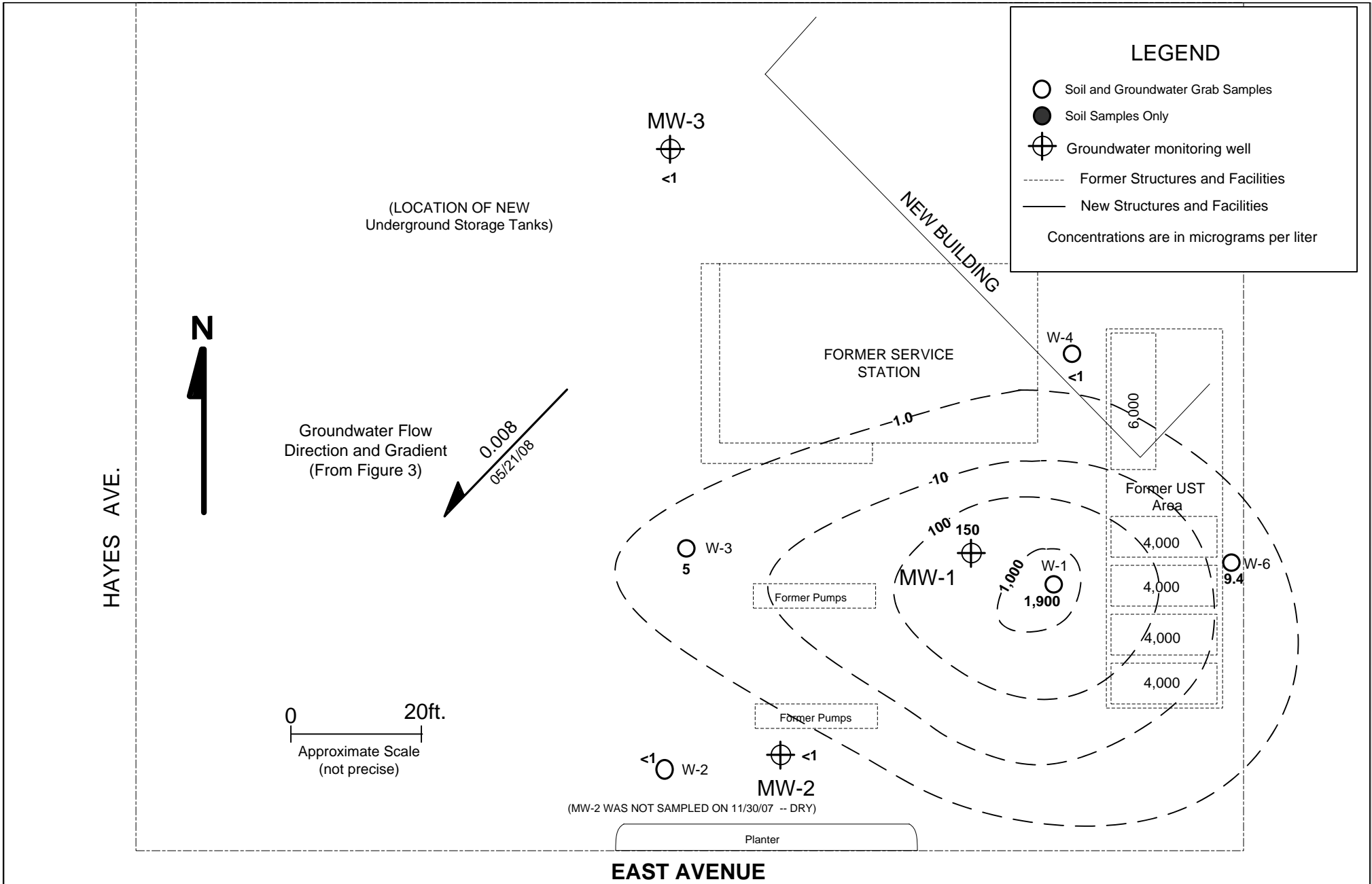




RM ASSOCIATES Environmental Consultants	REVISED	REVIEWED BY	ISO-CONCENTRATION CONTOURS FOR TPHg (Contours Based on Last Sampling Event at Each Sampling Location) 4186 EAST AVENUE, LIVERMORE, CALIFORNIA	FIGURE
	RM	05/18/07		5
	8.5 x 11	REVIEW DATE	PROJECT	101-6404



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



RM ASSOCIATES Environmental Consultants	REVISED	REVIEWED BY	ISO-CONCENTRATION CONTOURS FOR MTBE (Contours Based on Last Sampling Event at Each Sampling Location) 4186 EAST AVENUE, LIVERMORE, CALIFORNIA	FIGURE
	RM	05/18/07		7
	8.5 x 11	REVIEW DATE	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 Rukkie 64 Project Number: _____
 Address: 4186 East Ave, Livermore Ca Reg. Agency: _____
 Well Number: MW-1 Date: 5/21/08 Other Reg's: _____
 Sampler(s): Jim Pavick Well Lock Number: _____

Stagnant Volume Calculation:	Well Casing Diameter (inches): <u>2"</u>	Total Well Depth (ft.): <u>30</u>	Initial Depth to Groundwater (ft.): <u>19.12</u>	Stagnant Volume (gal): <u>1.84</u>
------------------------------	--	-----------------------------------	--	------------------------------------

Stagnant Volume Calculation

Well Casing Diameter (inches)	Linear Feet of Groundwater	X	Gallons per Linear Foot of Groundwater	=	Stagnant Volume (gal)
2	Total Well Depth (ft.)		0.17	=	
4	Depth to GW (ft.)		0.58	=	
6			1.5	=	

Groundwater Surface Inspection (bailer check)

0 Floating Product (ft.) (in.)
NONE Sheen/Iridescence
NONE Odor
 Remarks: DO: 1.6 ORP: 65

Date: 5/21/08 Time: 1230

Groundwater Purging: _____ Purge Method Used: _____ Purged Water Containment: _____
 _____ Stainless Steel Bailer; _____ Submersible Pump _____ gals stored in _____ 55 gal drum(s)
 Other: 12 V. Pump Any previous drums? _____ Capacity _____

Stagnant Volume Purged	Volume Purged (gal)	Time	Temp. of °C	pH	Conductivity umhos/cs	Color/Turbidity (other)
0	<u>0</u>	<u>11:38</u>	<u>20.2</u>	<u>7.9</u>	<u>884</u>	<u>Branhill</u>
1	<u>2</u>	<u>11:39</u>	<u>19.7</u>	<u>7.7</u>	<u>940</u>	<u>Cherry</u>
2	<u>4</u>	<u>11:41</u>	<u>19.5</u>	<u>7.7</u>	<u>804</u>	<u>"</u>
3	<u>6</u>	<u>11:43</u>	<u>19.5</u>	<u>7.7</u>	<u>803</u>	<u>"</u>
4						
5						
6						
7						
8						
9						
10						

Groundwater Sampling: _____ Water Level Recovery: _____ Sample Containers: _____
 _____ Depth to GW (ft.)
 (P) After purging: 23.40
 (I) Initially: 19.12
 (S) Before sampling: 19.20
 (P-S) / (P-I) x 100 = 90 % Total Recovery
80% Recovery: S = P - 0.8 x (P-I)

How Many? _____ Preservatives? _____
 1 liter, amber glass: 1 NONE
 40 ml, VOA: 4 HCL PH2
 500 ml, polypropylene: _____ _____

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

Project Name: Rotten Rubbie 64

Project Number: _____

Address: 4186 East Ave, Livermore Ca

Reg. Agency: _____

Other Req's: _____

Well Number: MW-2 Date: 5/21/08

Well Lock Number: _____

Sampler(s): Jim Pavick

Stagnant Volume Calculation	Well Casing Diameter (inches)	Total Well Depth (ft.)	Initial Depth to Groundwater (ft.)	Stagnant Volume (gal.)
	2"	29	19.12	1.58

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.)	0.17	
4	Depth to GW (ft.)	0.88	
6		1.5	

Groundwater Surface Inspection (bailer check)

0 Floating Product (ft.) (in.)
None Sheen/Irrescence
None Odor
 Remarks: DO: 2.2 ORP: 68

Date: 5/21/08 Time: 1205

Groundwater Purging Purge Method Used Purged Water Containment

Stainless Steel Bailer; Submersible Pump _____ gals stored in _____ 55 gal drum(s)
 Other: 12 V. Pump Any previous drums? _____ Capacity _____

Stagnant Volume Purged	Volume Purged (gal)	Time	Temp. of °C	pH	Conductivity umhos us	Color/Turbidity (other)
0	<u>0</u>	<u>11:13</u>	<u>21.1</u>	<u>8.1</u>	<u>880</u>	<u>Brownish</u>
1	<u>1.6</u>	<u>11:14</u>	<u>20.3</u>	<u>7.9</u>	<u>878</u>	<u>Clearing</u>
2	<u>3.2</u>	<u>11:15</u>	<u>20.0</u>	<u>7.7</u>	<u>868</u>	<u>"</u>
3	<u>5.0</u>	<u>11:16</u>	<u>20.1</u>	<u>7.7</u>	<u>865</u>	<u>"</u>
4	_____	_____	_____	_____	_____	_____
5	_____	_____	_____	_____	_____	_____
6	_____	_____	_____	_____	_____	_____
7	_____	_____	_____	_____	_____	_____
8	_____	_____	_____	_____	_____	_____
9	_____	_____	_____	_____	_____	_____
10	_____	_____	_____	_____	_____	_____

Groundwater Sampling Water Level Recovery Sample Containers

	Depth to GW (ft.)	How Many?	Preservatives?
(P) After purging	<u>21.50</u>	<u>1</u>	<u>None</u>
(I) Initially	<u>19.12</u>	<u>4</u>	<u>HCL PH2</u>
(S) Before sampling	<u>19.12</u>		

1 liter, amber glass
 40 ml, VOA
 500 ml, polypropylene

(P-S) / (P-I) x 100 = 110 % Total Recovery

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

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORKSHEET

Project Name: Rotten Rubbie 64 Project Number: _____
 Address: 4106 East Ave, Livermore Ca Reg. Agency: _____
 Well Number: MW-3 Date: 5/21/08 Other Req's: _____
 Sampler(s): Jim Pavick Well Lock Number: _____

Stagnant Volume Calculation	Well Casing Diameter (Inches) <u>2"</u>	Total Well Depth (ft.) <u>30</u>	Initial Depth to Groundwater (ft.) <u>19.31</u>	Stagnant Volume (gal.) <u>1.01</u>
-----------------------------	--	-------------------------------------	--	---------------------------------------

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.)	0.17	
4	Depth to GW (ft.)	0.66	
6		1.5	

Groundwater Surface Inspection (bailer check)
0 Floating Product (ft.) (in.)
NONE Sheen/Iridescence
NONE Odor
 Remarks: DO: 3.7 ORP: 67
 Date: 5/21/08 Time: 1220

Groundwater Purging: Purge Method Used Stainless Steel Bailer Submersible Pump
 Other: 2 W Pump Purged Water Containment: _____
 _____ gala 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	<u>2</u>	<u>11:25</u>	<u>19.7</u>	<u>8.0</u>	<u>881</u>	<u>Bronnisk</u>
1	<u>2</u>	<u>11:27</u>	<u>19.4</u>	<u>7.9</u>	<u>754</u>	<u>Cleary</u>
2	<u>4</u>	<u>11:28</u>	<u>19.1</u>	<u>7.9</u>	<u>657</u>	<u>"</u>
3	<u>6</u>	<u>11:30</u>	<u>19.1</u>	<u>7.9</u>	<u>859</u>	<u>"</u>
4						
5						
6						
7						
8						
9						
10						

Groundwater Sampling: Water Level Recovery Sample Containers
 _____ Depth to GW (ft.)
 (P) After purging 21.41 1 liter, amber glass 1 Preservatives? NONE
 (I) Initially 19.31 40 ml, VOA 4 HCL PH2
 (S) Before sampling 19.31 500 ml, polypropylene _____
 (P-S) / (P-I) x 100 = 100 % Total Recovery
 80% Recovery: S = P - 0.8 x (P-I)

Rotten Robbie # 64 Water Levels 05/21/08

MW-1	19.12
MW-2	19.12
MW-3	19.31

APPENDIX C
CERTIFIED ANALYTICAL RESULTS

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

Lab Order Number: C0983
Issued: 06/03/2008

Project Number: 101-6404
Project Name: Rotten Robbie No. 64
Project Location: 4186 East Avenue, Livermore, California

Global ID: T0600152516

Certificate of Analysis - Final Report

On May 21, 2008, samples were received under chain of custody for analysis.
Accutest-Northern California analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
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)

Accutest-Northern California 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,



Laurie Glantz-Murphy
Laboratory Director



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

Certificate of Analysis - Data Report

Samples Received: 05/21/2008
 Sample Collected by: Client

Lab #: C0983-001 Sample ID: MW-1 Matrix: Liquid Sample Date: 05/21/2008 12:30

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	520		1.0	50	µg/L	5/23/2008	WDA080523	05/28/2008	WDA080523
Not a typical pattern. Higher boiling gasoline compounds in the Diesel range (C10-C16).									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
n-Hexacosane	79.2	50 - 150	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	55		5.0	2.5	µg/L	N/A	N/A	05/30/2008	WM2080530
Toluene	ND		5.0	2.5	µg/L	N/A	N/A	05/30/2008	WM2080530
Ethyl Benzene	460		5.0	2.5	µg/L	N/A	N/A	05/30/2008	WM2080530
Xylenes, Total	21		5.0	5.0	µg/L	N/A	N/A	05/30/2008	WM2080530
Methyl-t-butyl Ether	150		5.0	5.0	µg/L	N/A	N/A	05/30/2008	WM2080530
tert-Butyl Ethyl Ether	ND		5.0	25	µg/L	N/A	N/A	05/30/2008	WM2080530
tert-Butanol (TBA)	ND		5.0	50	µg/L	N/A	N/A	05/30/2008	WM2080530
Diisopropyl Ether	ND		5.0	25	µg/L	N/A	N/A	05/30/2008	WM2080530
tert-Amyl Methyl Ether	ND		5.0	25	µg/L	N/A	N/A	05/30/2008	WM2080530
1,2-Dichloroethane	ND		5.0	2.5	µg/L	N/A	N/A	05/30/2008	WM2080530
1,2-Dibromoethane (EDB)	ND		5.0	2.5	µg/L	N/A	N/A	05/30/2008	WM2080530

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
4-Bromofluorobenzene	95.5	60 - 130	TAF
Dibromofluoromethane	101	60 - 130	Reviewed by: MaiChiTu
Toluene-d8	102	60 - 130	

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	2500		5.0	120	µg/L	N/A	N/A	05/30/2008	WM2080530

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
4-Bromofluorobenzene	102	60 - 130	TAF
Dibromofluoromethane	108	60 - 130	Reviewed by: MaiChiTu
Toluene-d8	105	60 - 130	

*** pH of sample VOA ~7.



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

Certificate of Analysis - Data Report

Samples Received: 05/21/2008
 Sample Collected by: Client

Lab #: C0983-002 Sample ID: MW-2 Matrix: Liquid Sample Date: 05/21/2008 12:05

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		1.0	50	µg/L	5/23/2008	WDA080523	05/28/2008	WDA080523
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: JHsiang	
n-Hexacosane	89.6		50	- 150				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	05/29/2008	WM2080529
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
Xylenes, Total	ND		1.0	1.0	µg/L	N/A	N/A	05/29/2008	WM2080529
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	05/29/2008	WM2080529
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	05/29/2008	WM2080529
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	05/29/2008	WM2080529
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	05/29/2008	WM2080529
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	05/29/2008	WM2080529
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: TAF	
4-Bromofluorobenzene	92.3		60	- 130				Reviewed by: MaiChiTu	
Dibromofluoromethane	99.8		60	- 130					
Toluene-d8	100		60	- 130					

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	05/29/2008	WM2080529
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: TAF	
4-Bromofluorobenzene	98.0		60	- 130				Reviewed by: MaiChiTu	
Dibromofluoromethane	107		60	- 130					
Toluene-d8	104		60	- 130					

*** pH of sample = 6.0



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

Certificate of Analysis - Data Report

Samples Received: 05/21/2008
 Sample Collected by: Client

Lab #: C0983-003 Sample ID: MW-3 Matrix: Liquid Sample Date: 05/21/2008 12:20

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		1.0	50	µg/L	5/23/2008	WDA080523	05/28/2008	WDA080523
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: JHsiang	
n-Hexacosane	87.0		50	- 150				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	05/29/2008	WM2080529
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
Xylenes, Total	ND		1.0	1.0	µg/L	N/A	N/A	05/29/2008	WM2080529
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	05/29/2008	WM2080529
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	05/29/2008	WM2080529
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	05/29/2008	WM2080529
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	05/29/2008	WM2080529
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	05/29/2008	WM2080529
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	05/29/2008	WM2080529
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: TAF	
4-Bromofluorobenzene	91.2		60	- 130				Reviewed by: MaiChiTu	
Dibromofluoromethane	98.7		60	- 130					
Toluene-d8	100		60	- 130					

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	05/29/2008	WM2080529
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: TAF	
4-Bromofluorobenzene	96.9		60	- 130				Reviewed by: MaiChiTu	
Dibromofluoromethane	106		60	- 130					
Toluene-d8	104		60	- 130					



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

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

QC/Prep Batch ID: WDA080523

Validated by: mtran - 05/27/08

QC/Prep Date: 5/23/2008

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
n-Hexacosane	80.4	50 - 150		



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

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

QC Batch ID: WM2080529

Validated by: MaiChiTu - 06/02/08

QC Batch Analysis Date: 5/29/2008

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	1.0	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	93.4	60 - 130
Dibromofluoromethane	103	60 - 130
Toluene-d8	95.2	60 - 130

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

QC Batch ID: WM2080529

Validated by: MaiChiTu - 06/02/08

QC Batch Analysis Date: 5/29/2008

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

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	99.3	60 - 130
Dibromofluoromethane	110	60 - 130
Toluene-d8	98.8	60 - 130



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

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

QC Batch ID: WM2080530

Validated by: MaiChiTu - 06/03/08

QC Batch Analysis Date: 5/30/2008

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	1.0	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	92.7	60 - 130
Dibromofluoromethane	97.1	60 - 130
Toluene-d8	100	60 - 130

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

QC Batch ID: WM2080530

Validated by: MaiChiTu - 06/03/08

QC Batch Analysis Date: 5/30/2008

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

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	98.5	60 - 130
Dibromofluoromethane	104	60 - 130
Toluene-d8	104	60 - 130



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

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

QC Batch ID: WDA080523

Reviewed by: mtran - 05/27/08

QC/Prep Date: 5/23/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	817	µg/L	81.7	45 - 140
TPH as Motor Oil	<200	1000	654	µg/L	65.4	45 - 140
Surrogate	% Recovery	Control Limits				
n-Hexacosane	73.9	50 - 150				

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	878	µg/L	87.8	7.2	25.0	45 - 140
TPH as Motor Oil	<200	1000	706	µg/L	70.6	7.7	25.0	45 - 140
Surrogate	% Recovery	Control Limits						
n-Hexacosane	81.9	50 - 150						



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

QC Batch ID: WM2080529

Reviewed by: MaiChiTu - 06/02/08

QC Batch ID Analysis Date: 5/29/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	20	20.4	µg/L	102	70 - 130
Benzene	<0.50	20	20.7	µg/L	104	70 - 130
Chlorobenzene	0.0	20	20.0	µg/L	100	70 - 130
Methyl-t-butyl Ether	<1.0	20	21.0	µg/L	105	70 - 130
Toluene	<0.50	20	19.2	µg/L	96.0	70 - 130
Trichloroethene	0.0	20	21.1	µg/L	106	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	96.4	60 - 130
Dibromofluoromethane	102.0	60 - 130
Toluene-d8	93.6	60 - 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	106	4.3	25.0	70 - 130
Benzene	<0.50	20	21.7	µg/L	108	4.7	25.0	70 - 130
Chlorobenzene	0.0	20	21.3	µg/L	106	6.3	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	22.2	µg/L	111	5.6	25.0	70 - 130
Toluene	<0.50	20	20.6	µg/L	103	7.0	25.0	70 - 130
Trichloroethene	0.0	20	22.3	µg/L	112	5.5	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	96.3	60 - 130
Dibromofluoromethane	98.8	60 - 130
Toluene-d8	94.4	60 - 130

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

QC Batch ID: WM2080529

Reviewed by: MaiChiTu - 06/02/08

QC Batch ID Analysis Date: 5/29/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	250	275	µg/L	110	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	100.0	60 - 130
Dibromofluoromethane	104.0	60 - 130
Toluene-d8	98.8	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	250	269	µg/L	108	2.2	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.6	60 - 130
Dibromofluoromethane	98.9	60 - 130
Toluene-d8	97.1	60 - 130



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

QC Batch ID: WM2080530

Reviewed by: MaiChiTu - 06/03/08

QC Batch ID Analysis Date: 5/30/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	0.0	20	19.4	µg/L	97.0	70 - 130
Benzene	<0.50	20	20.2	µg/L	101	70 - 130
Chlorobenzene	0.0	20	20.7	µg/L	104	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.6	µg/L	93.0	70 - 130
Toluene	<0.50	20	19.7	µg/L	98.5	70 - 130
Trichloroethene	0.0	20	20.9	µg/L	104	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	94.1	60 - 130
Dibromofluoromethane	97.5	60 - 130
Toluene-d8	98.0	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	0.0	20	20.2	µg/L	101	4.0	25.0	70 - 130
Benzene	<0.50	20	20.9	µg/L	104	3.4	25.0	70 - 130
Chlorobenzene	0.0	20	20.6	µg/L	103	0.48	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	20.4	µg/L	102	9.2	25.0	70 - 130
Toluene	<0.50	20	19.9	µg/L	99.5	1.0	25.0	70 - 130
Trichloroethene	0.0	20	21.3	µg/L	106	1.9	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	99.0	60 - 130
Dibromofluoromethane	100.0	60 - 130
Toluene-d8	100.0	60 - 130

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

QC Batch ID: WM2080530

Reviewed by: MaiChiTu - 06/03/08

QC Batch ID Analysis Date: 5/30/2008

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	250	281	µg/L	112	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	103.0	60 - 130
Dibromofluoromethane	108.0	60 - 130
Toluene-d8	106.0	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	250	294	µg/L	118	4.5	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	102.0	60 - 130
Dibromofluoromethane	104.0	60 - 130
Toluene-d8	104.0	60 - 130

Sample Receiving Checklist

Job # C0983

Review Chain of Custody: The Chain of Custody is to be completely and legibly filled out by Client.

- Are these regulatory (NPDES) samples? Yes / No circle one Is pH requested? Yes / No circle one
- Was Client informed that the hold time is 15mins Yes / No circle one If yes, did they consent to continue? _____
- Are sample within one-half hold-time? Yes / No circle one If no, was the lab informed? _____
- Report to info is complete and legible, including;
 - Type of Deliverable needed name address phone email
- Bill to info is complete and legible, including: PO# Credit card contact address phone email
- Contact and/or Project Mgr identified, including; phone email
- Project name / number Special requirements? Yes / No circle one
- Sample IDs / date & time of collection provided? Yes / No circle one
- Matrix listed and correct? Yes / No circle one
- Analyses listed are those we do or ~~client has authorized a subcontract?~~ Yes / No circle one
- Chain is signed / dated by both client and sample custodian? Yes / No circle one
- TAT requested available? Approved by _____

Review Coolers:

- Samples / Coolers are at 0-6°C? If sampled within 4hrs, then "on ice" is acceptable.
- If a cooler is outside the 0-6°C range; note below the bottles in that cooler below.
- Note that ANC does NOT accept evidentiary samples. (We do not lock refrigerators)

Shipment Method: _____

Custody Seals Present: Yes / No circle one Un-broken: Yes / No circle one

Review of Sample Bottles: If you answer no, explain below

- IDs / bottle number / Date / Time of bottle labels match CoC?
- Sample bottle intact? Yes / No circle one
- Proper containers and volumes? Yes / No circle one
- Proper preservatives? Check pH on preserved samples except 1664, 625, 8270, and VOAs and list below.
- VOAs received without headspace? Yes / No circle one

Lab #	Client Sample ID	pH Check:	Other Comments / Issues

- Client informed of irregularities at receiving
 - Project Mgr needs to contact Client for issues
- Comments:

APPENDIX D
TRANSMITTAL LETTER

ROBINSON OIL CORPORATION



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

**Rotten
Robbie**

July 1, 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. 3 – 2nd Quarter 2008

Report Date: June 26, 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,

A handwritten signature in black ink that reads "Thomas L. Robinson".

Thomas L. Robinson