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Alameda County
MAY 03 2004
Environmental Health

April 29, 2004 Project 41-0236

Mr. Don Hwang
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
1131 Harbor Bay Parkway
Alameda, California 94502-6577

SITE: QUIK STOP MARKET NO. 56
3132 BEAUMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2004

Dear Mr. Hwang:

Enclosed is a copy of the *First Quarter 2004 Quarterly Groundwater Monitoring Report* for the property located at 3132 Beaumont Avenue in Oakland, California. This report is submitted on behalf of our client, Quik Stop Markets, Inc.

Please direct all questions and correspondence to:

Mr. Mike Karvelot
Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, California 94538
Phone: (510) 657-8500

Sincerely,

Jonathan Scheiner
Associate

cc: Mr. Mike Karvelot, Quik Stop Markets, Inc.

5052 Commercial Circle • Concord, California 94520-1248
Telephone 925-688-1200 • Fax 925-688-0388

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Customer-Focused Solutions

April 29, 2004

Project 41-0236

Mr. Mike Karvelot
Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, California 94538

SITE: QUIK STOP MARKET NO. 56
3132 BEAUMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY GROUNDWATER MONITORING REPORT, FIRST QUARTER 2004

Dear Mr. Karvelot:

This *First Quarter 2004 Groundwater Monitoring Report* presents the results of the First Quarter 2004 fluid level monitoring and groundwater sampling at the above-referenced site. The work at this site was performed in accordance with the requirements of the Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH).

1.0 FLUID-LEVEL MONITORING

Fluid levels were measured in onsite monitoring wells MW-1, MW-2 and MW-3 on March 25, 2004. Groundwater elevations averaged 128.77 feet above mean sea level (MSL). Groundwater flow direction was to the west at a gradient of 0.07 foot-per-foot. Refer to Table 1 for fluid-level monitoring data. Figure 2 is a groundwater elevation contour map based on the fluid-level measurements. A description of fluid-level monitoring procedures is included in Appendix A.

2.0 GROUNDWATER SAMPLING

On March 25, 2004, groundwater samples were collected from onsite wells MW-1, MW-2 and MW-3. Groundwater samples were submitted to a state-certified laboratory for analysis of total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tert-butyl ether (MTBE), using EPA Methods 8015B and 8260B. Refer to Table 1 and Figure 3 for a summary of analytical results. General Field Procedures, Official Laboratory Reports and Chain of Custody Documents are included in the Appendix.

Approximately 54 gallons of purge water was generated during groundwater sampling activities conducted on March 25, 2004. The purge water was stored onsite in one Department of Transportation-approved 55-gallon drum pending disposal.

3.0 LIST OF ATTACHMENTS

Figure 1:	Vicinity Map
Figure 2:	Groundwater Elevation Contour Map, March 25, 2004
Figure 3:	Dissolved-Phase Hydrocarbon Concentrations, March 25, 2004
Table 1:	Summary of Groundwater Levels and Chemical Analysis
Appendix A:	General Field Procedures, Official Laboratory Reports, and Chain of Custody Records

If you have any questions regarding this report, please call me at (925) 688-2473.

Sincerely,

Jonathan Scheiner
Associate

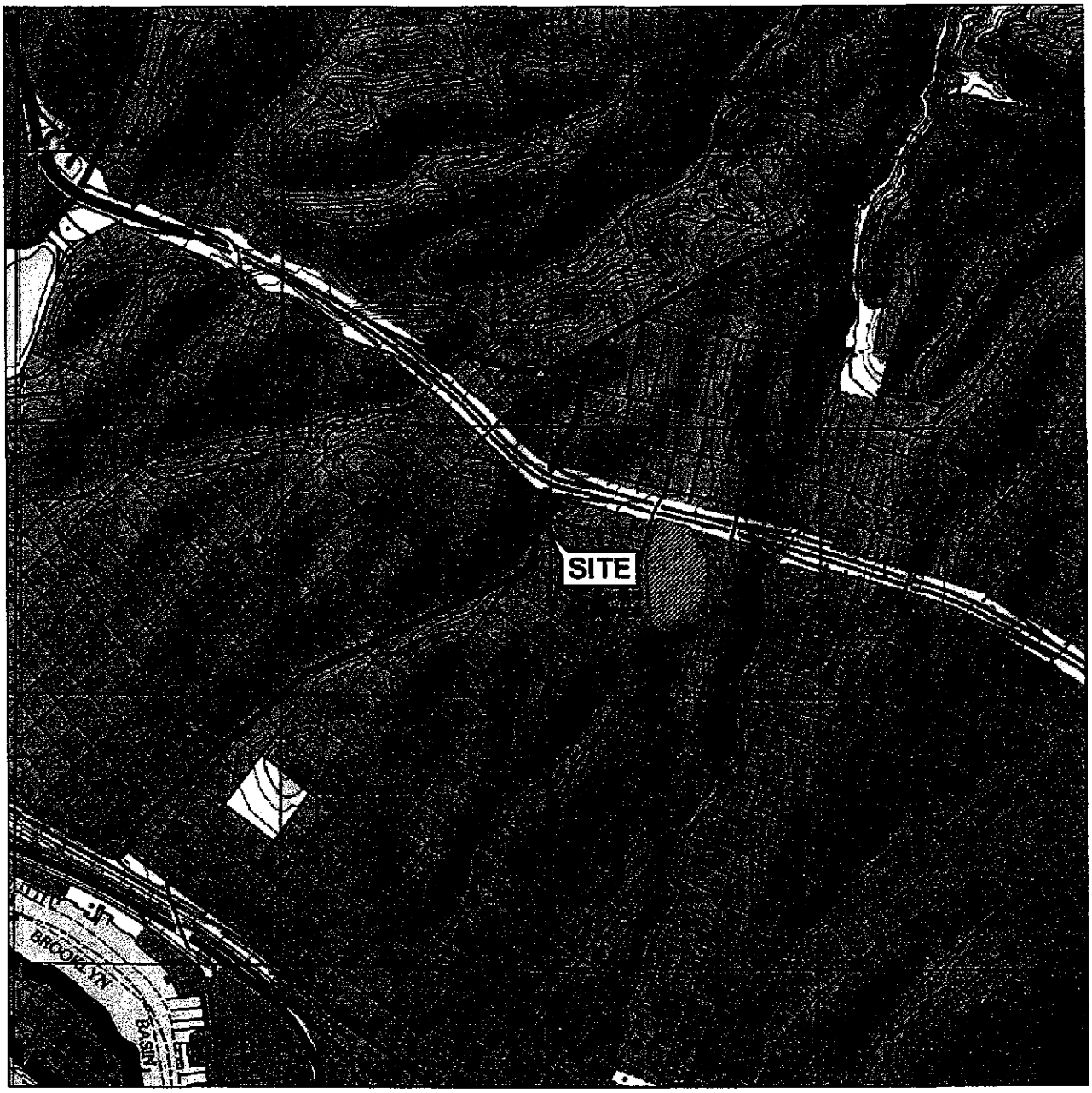
Barbara Moed

REGISTERED GEOLOGIST
BARBARA A. MOED
No. 7592
Exp. 7/31/05
STATE OF CALIFORNIA

Barbara Moed, R.G.
Senior Project Geologist

cc: Mr. Don Hwang, Alameda County Health Care Services Agency

FIGURES



1 MILE 3/4 1/2 1/4 0 1 MILE

SCALE 1 : 24,000

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SOURCE:
United States Geological Survey
7.5 Minute Topographic Maps:
Oakland East and
Oakland West Quadrangles

VICINITY MAP

Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California

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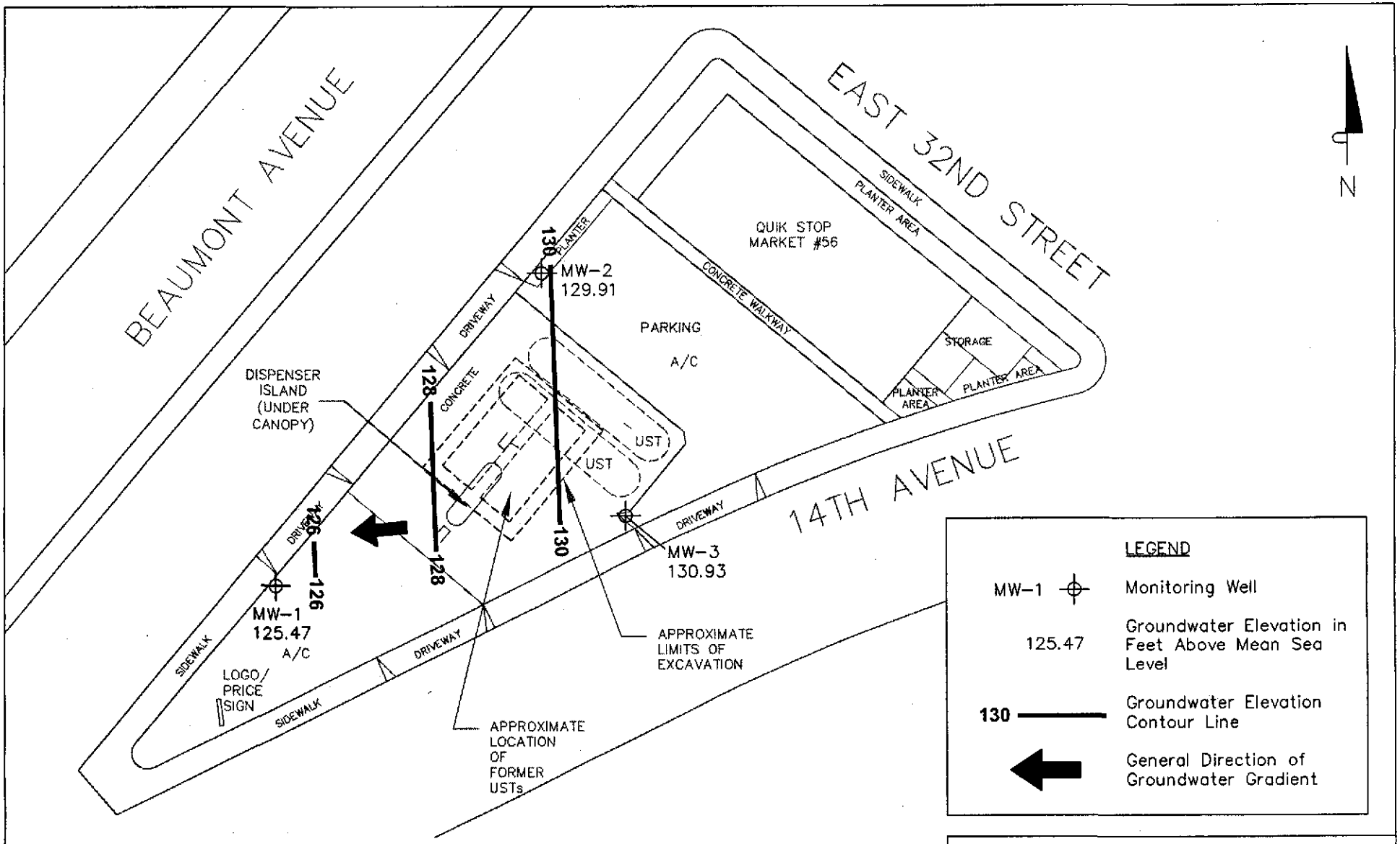
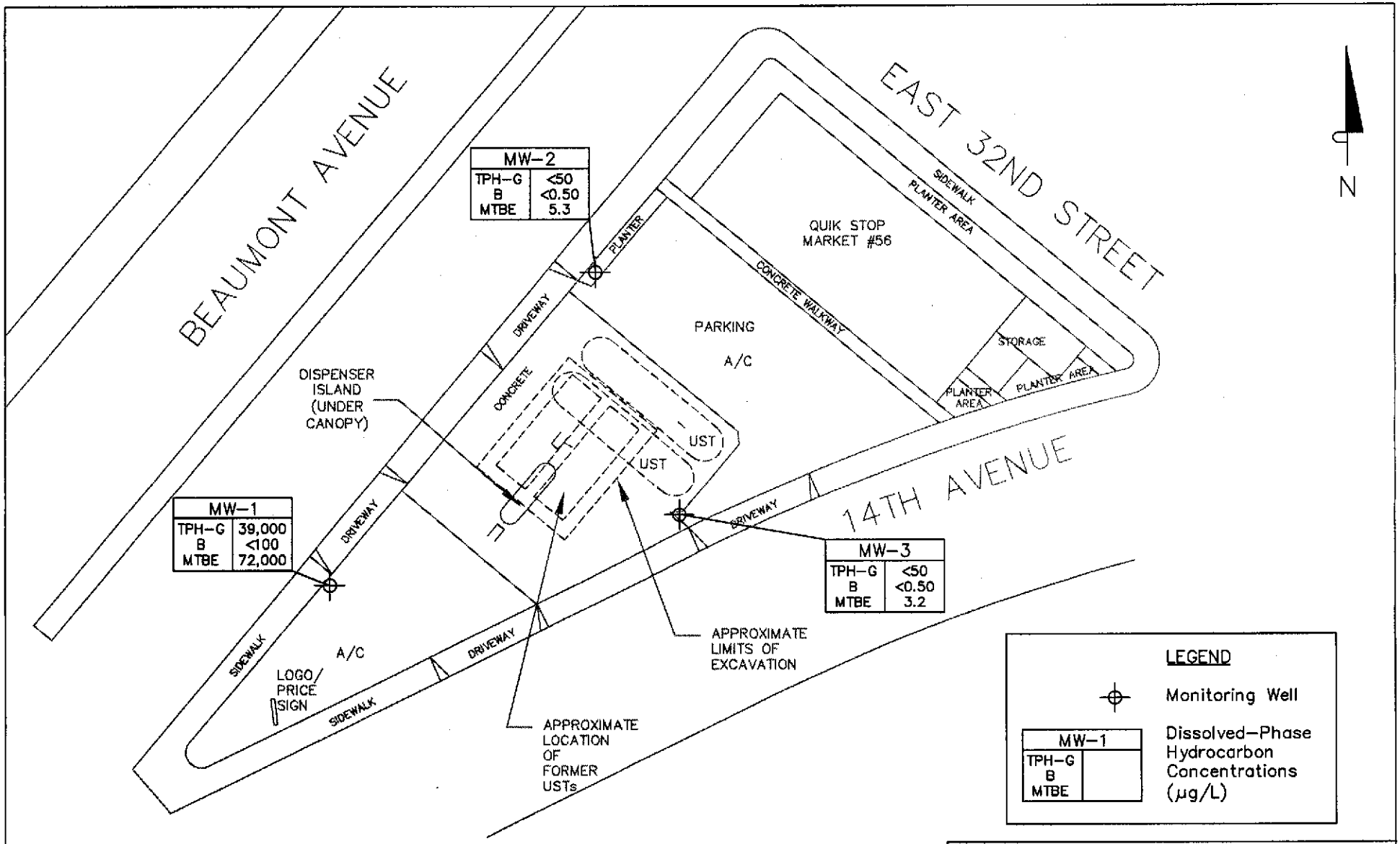
FIGURE 1



NOTES:
Contour lines are interpretive based on fluid level measurements taken on March 25, 2004.
Contour interval = 2 feet.
SOURCE: Client-provided drawings and Garlow, 1998. Site plan updated per 11/27/01 well survey by Doble Thomas Associates.

GROUNDWATER ELEVATION CONTOUR MAP
March 25, 2004
Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California

TRC | **FIGURE 2**



NOTES:
Results are based on laboratory analysis of groundwater samples collected on March 25, 2004. µg/L = micrograms per liter; TPH-G = total petroleum hydrocarbons as gasoline; B = benzene; MTBE = methyl tert butyl ether; < = not detected at or above the reported method detection limit.

SOURCE: Client-provided drawings and Garlow, 1998. Site plan updated per 11/27/01 well survey by Doble Thomas Associates.

DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS
March 25, 2004
Quik Stop No. 56
3132 Beaumont Avenue
Oakland, California

TRC

FIGURE 3

TABLE

Table 1

Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

Sample ID	Date	Top of Casing Elevation (ft-MSL)	Depth to Water (feet)	Groundwater Elevation (feet)	TPH-G (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8260 (µg/L)	DO (mg/L)
MW-1	03/02/00	131.58	10.33	121.25	670	<1.0	<1.0	<1.0	<1.0	2,200	0.62
MW-1	11/16/00	131.58	11.86	119.72	<500	<0.5	<0.5	<0.5	<0.5	18,000	0.34
MW-1	01/23/01	131.58	11.05	120.53	6,400	<10	<10	<10	<10	21,000	0.83
MW-1	04/25/01	131.58	12.06	119.52	12,000	<20	<20	<20	<20	17,000	0.39
MW-1	07/24/01	131.58	12.42	119.16	8,800	<13	<13	<13	<13	14,000	7.61
MW-1	11/08/01	131.58	12.00	119.58	18,000	<25	<25	<25	<25	28,000	—
MW-1	11/27/01	134.13	Well resurveyed to new reference point								
MW-1	02/05/02	134.13	10.99	123.14	28,000	<50	<50	<50	<50	44,000	—
MW-1	04/29/02	134.13	10.97	123.16	12,000	<25	<25	<25	<25	30,000	—
MW-1	07/29/02	134.13	10.20	123.93	16,000	<25	<25	<25	<25	22,000	—
MW-1	10/21/02	134.13	10.48	123.65	17,000	<50	<50	<50	<50	39,000	—
MW-1	03/05/03	134.13	8.94	125.19	40,000	<100	<100	<100	<100	69,000	—
MW-1	06/06/03	134.13	8.68	125.45	27,000	<50	<50	<50	<50	63,000	—
MW-1	09/05/03	134.13	9.21	124.92	28,000	<25	<25	<25	<25	51,000	—
MW-1	12/24/03	134.13	8.65	125.48	29,000	<50	<50	<50	<50	64,000	—
MW-1	03/25/04	134.13	8.66	125.47	39,000	<100	<100	<100	<100	72,000	—
MW-2	03/02/00	132.63	5.88	126.75	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.45
MW-2	11/16/00	132.63	6.40	126.23	<50	<0.5	<0.5	<0.5	<0.5	<1.0	1.67
MW-2	01/23/01	132.63	5.67	126.96	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.20
MW-2	04/25/01	132.63	6.26	126.37	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76
MW-2	07/24/01	132.63	6.38	126.25	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.92
MW-2	11/08/01	132.63	5.97	126.66	<50	<0.50	<0.50	<0.50	<0.50	2.7	—
MW-2	11/27/01	135.16	Well resurveyed to new reference point								
MW-2	02/05/02	135.16	4.95	130.21	<50	<0.50	<0.50	<0.50	<0.50	2.7	—
MW-2	04/29/02	135.16	5.03	130.13	<50	<0.50	<0.50	<0.50	<0.50	2.8	—
MW-2	07/29/02	135.16	5.46	129.70	<50	<0.50	<0.50	<0.50	<0.50	4.1	—
MW-2	10/21/02	135.16	5.68	129.48	<50	<0.50	<0.50	<0.50	<0.50	8.1	—
MW-2	03/05/03	135.16	4.87	130.29	<50	1.4	<0.50	0.61	0.69	5.5	—
MW-2	06/06/03	135.16	4.88	130.28	<50	<0.50	<0.50	<0.50	<0.50	5.2	—
MW-2	09/05/03	135.16	5.60	129.56	<50	<0.50	<0.50	<0.50	0.66	6.4	—
MW-2	12/24/03	135.16	5.25	129.91	<50	<0.50	<0.50	<0.50	<0.50	5.4	—
MW-2	03/25/04	135.16	5.25	129.91	<50	<0.50	<0.50	<0.50	<0.50	5.3	—
MW-3	03/02/00	133.78	6.41	127.37	<50	<0.50	<0.50	<0.50	<0.50	0.96	0.90
MW-3	11/16/00	133.78	6.46	127.32	<50	<0.5	<0.5	<0.5	<0.5	24	3.91
MW-3	01/23/01	133.78	5.75	128.03	<50	<0.50	<0.50	<0.50	<0.50	72	1.47
MW-3	04/25/01	133.78	5.90	127.88	<50	<0.50	<0.50	<0.50	<0.50	25	0.56
MW-3	07/24/01	133.78	6.56	127.22	<50	<0.50	0.79	0.73	0.68	5.2	6.67
MW-3	11/08/01	133.78	6.92	126.86	<50	<0.50	<0.50	<0.50	<0.50	14	—
MW-3	11/27/01	136.35	Well resurveyed to new reference point								
MW-3	02/05/02	136.35	5.13	131.22	<50	<0.50	<0.50	<0.50	<0.50	10	—
MW-3	04/29/02	136.35	5.67	130.68	<50	<0.50	<0.50	<0.50	<0.50	5.1	—
MW-3	07/29/02	136.35	6.11	130.24	<50	<0.50	<0.50	<0.50	<0.50	31	—
MW-3	10/21/02	136.35	6.57	129.78	<50	<0.50	<0.50	<0.50	<0.50	5.8	—
MW-3	01/06/04	136.35	5.02	131.33	<50	<0.50	<0.50	<0.50	<0.50	4.9	—
MW-3	06/06/03	136.35	5.12	131.23	<50	<0.50	<0.50	<0.50	<0.50	6.6	—
MW-3	09/05/03	136.35	6.53	129.82	<50	<0.50	<0.50	<0.50	<0.50	4.4	—
MW-3	12/24/03	136.35	5.20	131.15	<50	<0.50	<0.50	<0.50	<0.50	1.2	—
MW-3	03/25/04	136.35	5.42	130.93	<50	<0.50	<0.50	<0.50	<0.50	3.2	—

NOTES:
ft-MSL = feet above mean sea level
µg/L = micrograms per liter
mg/L = milligrams per liter
TPH-G = total petroleum hydrocarbons as gasoline
MTBE = methyl tert butyl ether
DO = diesolved oxygen
< = not detected at or above the stated detection limit

APPENDIX A

GENERAL FIELD PROCEDURES, FIELD MEASUREMENT FORMS, OFFICIAL LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORDS

GENERAL FIELD PROCEDURES

General field procedures used during fluid-level monitoring and groundwater sampling activities are described below.

FLUID-LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city benchmark.

GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4 C prior to analysis by a state-certified laboratory.

TRC Alton Geoscience, Northern California Operations

FLUID MEASUREMENT FIELD FORM

Project No.: 41023607 TRC Alton Personnel: J. Chidester

Station No.: Quick Stop # 56 Date: 3/25/04

Well Number	Screen Interval	Depth to Water	Depth to Product	Free Product Thickness (ft)	Free Product Recovery	Total Depth	Dissolved O_2 (mg/L)	Comments
MW-2		5.25				29.92		2"
MW-3		5.42				30.69		2"
MW-1		8.66				30.05		2"

TRC Alton Geoscience, Northern California Operations

GROUND WATER SAMPLING FIELD NOTES

Site: Quik Stop #56 Project No.: 41023607 Sampled By: J. Chidester Date: 3/25/04

Well No. MW-2 Purge Method: 2" electric
Total Depth (feet) 29.92 Depth to Product (feet): —
Depth to Water (feet): 5.25 Product Recovered (gallons): —
Water Column (feet): 24.67 Casing Diameter (Inches): 2"
80% Recharge Depth (feet): 10.18 1 Well Volume (gallons): 3.95

Time Start	Time Stop	Depth To Water (feet)	Volume Purged gallons	Conductivity (uS/cm)	Temperature (F, C)	pH
933				1.42	67.2	6.49
				1.35	66.9	6.39
	939			1.34	67.1	6.40
	Total Purged		12	Time Sampled		1030

Comments:
Turbidity=

Well No. MW-3 Purge Method: 2" electric
Total Depth (feet) 30.69 Depth to Product (feet): —
Depth to Water (feet): 5.42 Product Recovered (gallons): —
Water Column (feet): 25.27 Casing Diameter (Inches): 2"
80% Recharge Depth (feet): 10.47 1 Well Volume (gallons): 4.04

Time Start	Time Stop	Depth To Water (feet)	Volume Purged gallons	Conductivity (uS/cm)	Temperature (F, C)	pH
1047				0.91	67.3	6.71
				0.90	66.5	6.62
	1053			0.91	67.0	6.62
	Total Purged		12	Time Sampled		1130

Comments:
Turbidity=

Well No. MW-1 Purge Method: 2" electric
Total Depth (feet) 30.05 Depth to Product (feet): —
Depth to Water (feet) 8.66 Product Recovered (gallons): —
Water Column (feet): 21.39 Casing Diameter (Inches): 2"
80% Recharge Depth (feet): 12.94 1 Well Volume (gallons): 3.42

Time Start	Time Stop	Depth To Water (feet)	Volume Purged gallons	Conductivity (uS/cm)	Temperature (F, C)	pH
1146				0.86	65.9	6.62
				0.83	65.8	6.48
	1151			0.87	67.2	6.39
	Total Purged		10	Time Sampled		1230

Comments:
Turbidity=

Well No. _____ Purge Method: _____
Total Depth (feet) _____ Depth to Product (feet): _____
Depth to Water (feet): _____ Product Recovered (gallons): _____
Water Column (feet): _____ Casing Diameter (Inches): _____
80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged gallons	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		

Comments:
Turbidity=

Well No. _____ Purge Method: _____
Total Depth (feet) _____ Depth to Product (feet): _____
Depth to Water (feet): _____ Product Recovered (gallons): _____
Water Column (feet): _____ Casing Diameter (Inches): _____
80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged gallons	Conductivity (uS/cm)	Temperature (F, C)	pH
	Total Purged			Time Sampled		

Comments:
Turbidity=

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

TRC-Alton Geoscience
5052 Commercial Circle
Concord, CA 94520

Attn: Chris Brown
Phone (925) 688-1200
Fax: (925) 688-0388
Date Received 03/30/04

Job#: 41023607-TA01

Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B/DHS LUFT Manual
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration		Reporting Limit	Date Sampled	Date Analyzed
Client ID :	TPH Purgeable	ND		50 µg/L	03/25/04	04/02/04
MW-2	Methyl tert-butyl ether (MTBE)	5.3		0.50 µg/L	03/25/04	04/02/04
Lab ID :	Benzene	ND		0.50 µg/L	03/25/04	04/02/04
TRC04033041-01A	Toluene	ND		0.50 µg/L	03/25/04	04/02/04
	Ethylbenzene	ND		0.50 µg/L	03/25/04	04/02/04
	Xylenes, Total	ND		0.50 µg/L	03/25/04	04/02/04
Client ID :	TPH Purgeable	ND		50 µg/L	03/25/04	04/02/04
MW-3	Methyl tert-butyl ether (MTBE)	3.2		0.50 µg/L	03/25/04	04/02/04
Lab ID :	Benzene	ND		0.50 µg/L	03/25/04	04/02/04
TRC04033041-02A	Toluene	ND		0.50 µg/L	03/25/04	04/02/04
	Ethylbenzene	ND		0.50 µg/L	03/25/04	04/02/04
	Xylenes, Total	ND		0.50 µg/L	03/25/04	04/02/04
Client ID :	TPH Purgeable	39,000		20,000 µg/L	03/25/04	04/02/04
MW-1	Methyl tert-butyl ether (MTBE)	72,000		100 µg/L	03/25/04	04/02/04
Lab ID :	Benzene	ND	V	100 µg/L	03/25/04	04/02/04
TRC04033041-03A	Toluene	ND	V	100 µg/L	03/25/04	04/02/04
	Ethylbenzene	ND	V	100 µg/L	03/25/04	04/02/04
	Xylenes, Total	ND	V	100 µg/L	03/25/04	04/02/04

Reported in micrograms per liter, per client request.
V = Reporting Limits were increased due to high concentrations of target analytes.
ND = Not Detected

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / info@alpha-analytical.com

4/12/04
Report Date

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC pH Report

Work Order TRC04033041 **Project:** 41023607-TA01

Alpha's Sample ID	Client's Sample ID	Matrix	pH
04033041-01A	MW-2	Aqueous	2
04033041-02A	MW-3	Aqueous	2
04033041-03A	MW-1	Aqueous	2

4/12/04
Report Date

~~Billing Information:~~ SITE LOCATION

Name Quik Stop #56

Address 3132 Beaumont Ave.

City, State, Zip Oakland, CA

Phone Number _____ Fax _____

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Page # 1 of 1

04211

Client Name TRC	P.O. #	Job # 41023607-TA01
Address 5052 Commercial Circle	PWS #	DWR #
City, State, Zip Concord, CA 94520	Phone # (925) 688-1200	Fax # (925) 688-0388

Sampled by James Chidester

Report Attention Chris Brown

Time Sampled	Date Sampled	Matrix* See Key Below	Office Use Only Lab ID Number	Sample Description	Total and type of containers ** See below	Analyses Required: TPH-G	BTEX	MTBE						REMARKS
1030	3/25/04	AQ	TRCON033041-01	MW-2	4 VOAs	X	X	X						
1130	↓	↓	-02	MW-3	↓	X	X	X						
1230	↓	↓	-03	MW-1	↓	X	X	X						
			-04											

ADDITIONAL INSTRUCTIONS:

	Signature	Print Name	Company	Date	Time
Relinquished by	James Chidester	James Chidester	TRC	3/29/04	1400
Received by	D Baker	D Baker	Alpha	3/30/04	1230
Relinquished by					
Received by					
Relinquished by					
Received by					

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to these samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report