

December 13, 2002

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

Alameda County
DEC 1 8 2002
Environmental Health

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

RE: QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2002

Dear Mr. Hwang:

Enclosed is a copy of the Fourth Quarter 2002 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,

Tracy L. Walker, RG

Associate

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

Lang L. Walker



December 13, 2002

Project 41-0236

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

SITE: C

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

RE:

QUARTERLY GROUNDWATER MONITORING REPORT, FOURTH QUARTER 2002

Dear Mr. Karvelot:

This Fourth Quarter 2002 Groundwater Monitoring Report presents the results of the Fourth Quarter 2002 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 October 21, 2002. Groundwater elevations averaged 127.64 feet above mean sea level (MSL). Groundwater flow direction was to the southwest at a gradient of 0.08 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 October 21, 2002, 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 35 gallons of purge water was generated during groundwater sampling activities conducted on October 21, 2002. The purge water was stored onsite in one Department of Transportation-approved 55-gallon drum pending disposal.

### **QUARTERLY PROGRESS REPORT, FOURTH QUARTER 2002**

Quik Stop Market No. 56 – 3132 Beaumont Avenue, Oakland, California December 13, 2002

#### 3.0 LIST OF ATTACHMENTS

Figure 1:

Vicinity Map

Figure 2:

Groundwater Elevation Contour Map, October 21, 2002

Figure 3:

Dissolved-Phase Hydrocarbon Concentrations, October 21, 2002

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) 688-2476.

Sincerely,

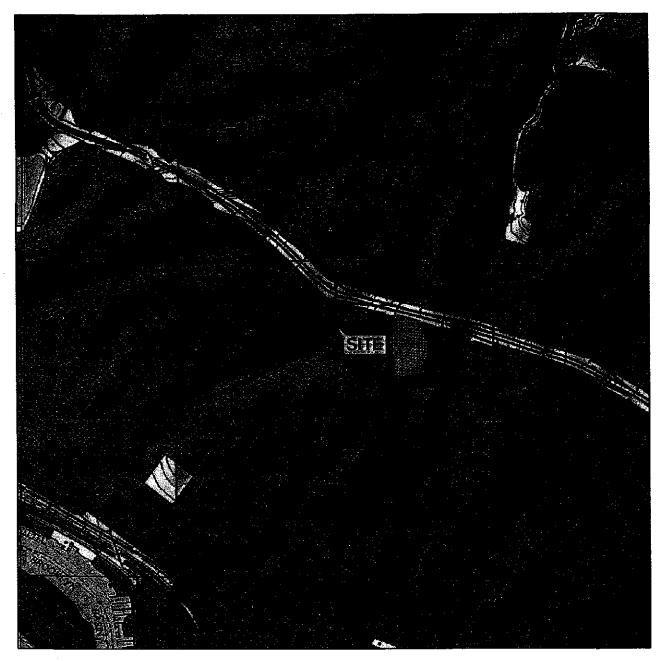
Lacy L. Walker, RG

Associate

Mr. Don Hwang, Alameda County Health Care Services Agency

The ongoing project services summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the findings and professional opinions presented in this report. The findings are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.

# FIGURES



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

SCALE 1: 24,000

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

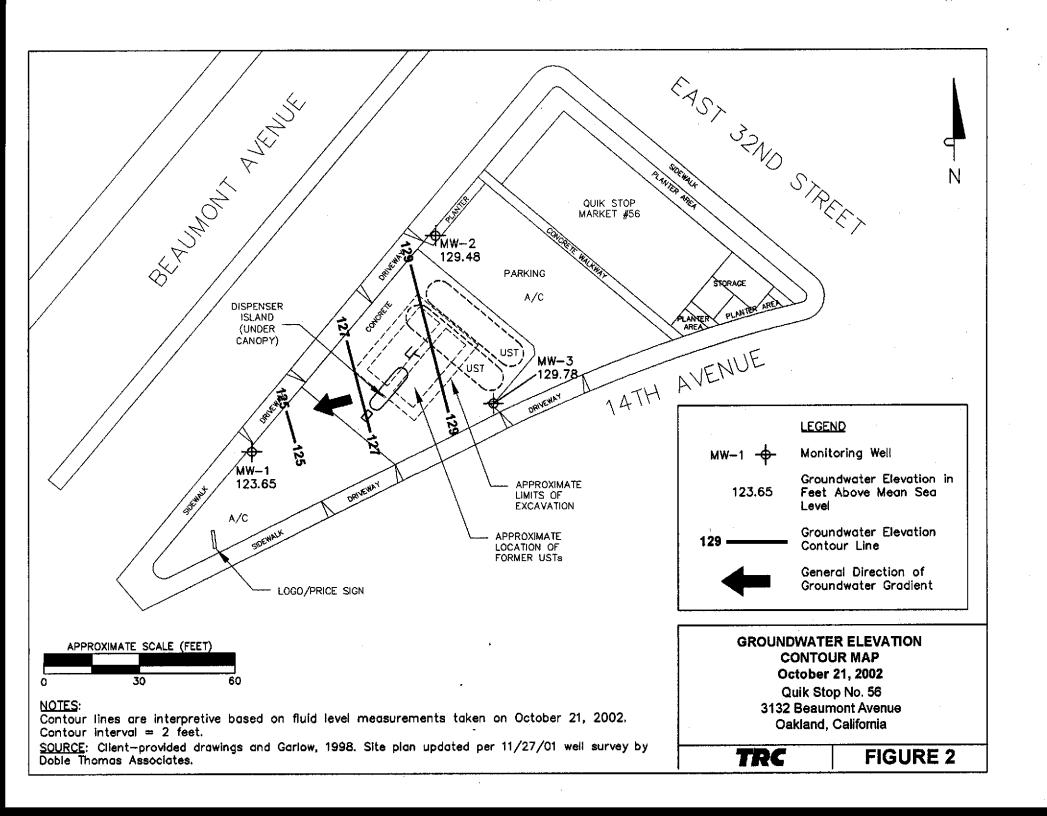


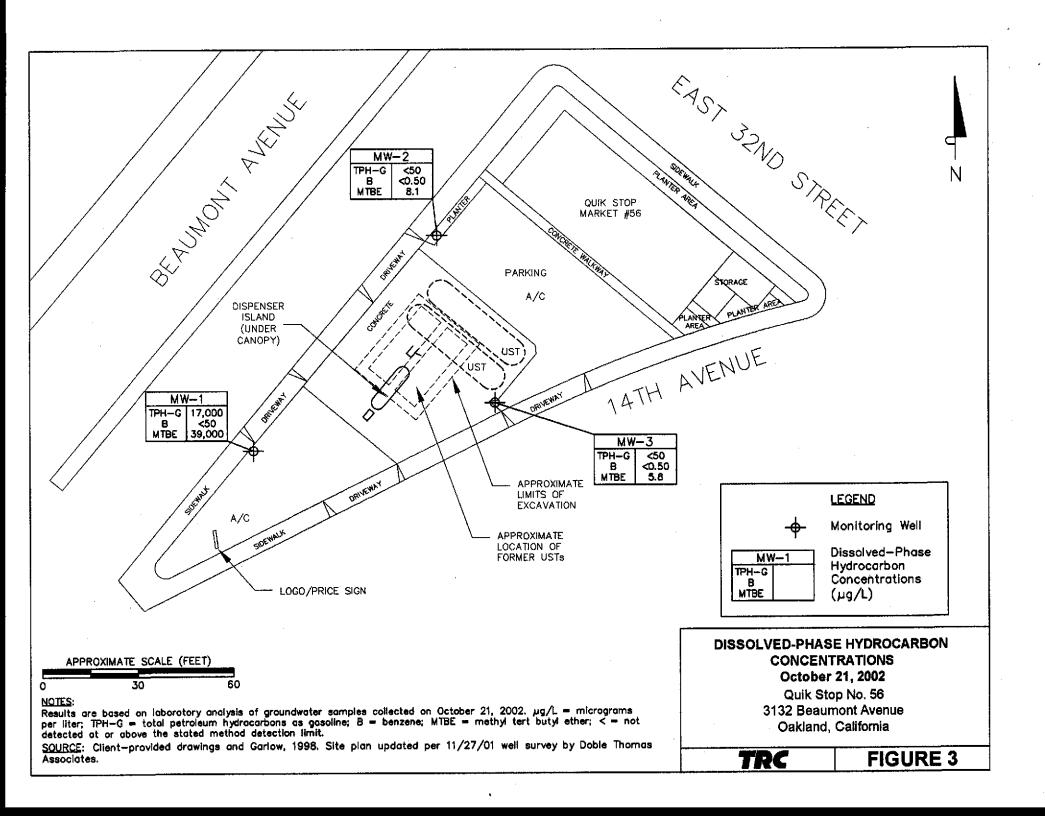
### **VICINITY MAP**

Quik Stop No. 56 3132 Beaumont Avenue Oakland, California

TRC

FIGURE 1





TABLE

Table 1 Summary of Groundwater Levels and Chemical Analysis

Quik Stop No. 56 - 3132 Beaumont Avenue, Oakland

		Top of Casing	Depth to					Ethyl-	Total	MTBE	
Sample	D = 4=	Elevation	Water	Elevation (feet)	TPH-G	Benzene	Toluene (µg/L)	benzene (μg/L)	Xylenes (µg/L)	8260 (µg/L)	DO (mg/L)
ID	Date	(ft-MSL)	(feet)	(reet)	(µg/L)	(µg/L)	(hg/L)	(pg/L)	(pg/c)	(pg/c/	(mg/c)
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		veyed to new ref							
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-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 resur	veyed to new ref	erence po	int					
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	
		400.70		,	.50	-0.50	40.50	<0.50	<0.50	0.96	0.90
MW-3	03/02/00	133.78	6.41	127.37	<50	<0.50	<0.50 <0.5	<0.50	<0.5 <0.5	24	3.91
MW-3	11/16/00	133,78	6.46	127.32	<50	<0.5	<0.50	<0.50	<0.50	72	1.47
MW-3	01/23/01	133.78	5.75	128.03	<50	<0.50		<0.50 <0.50	< 0.50	25	0.56
MW-3	04/25/01	133.78	5.90	127.88	<50	< 0.50	<0.50				6.67
MW-3	07/24/01	133.78	6.56	127.22	<50	<0.50	0.79	0.73	0.68	5.2 14	0.07
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		veyed to new ref			-0.50	40 EC	-0 CC	40	
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	_

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 = dissolved 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  $4\Box C$  prior to analysis by a state-certified laboratory.

# FLUID MEASUREMENT FIELD FORM

Project No.: 41023606
Station No.: Quick Stop #56

TRC Alton Personnel: J. Chidester

Date: 10/21/02

Well Number	Screen Interval			Free Product Thickness (ft)		Total Depth	Oíssolved O, (mg/L)	Comments
1W-2		5.68		·		29.92		2"
1W-3		6.57				30.69		2"
iw-1		10.48				30.05		2*
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	-	1						
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### TRC Alton Geoscience, Northern California Operations

## **GROUND WATER SAMPLING FIELD NOTES**

Site: Quick Step#56 Projec	No 41023006 Samul	ed By. J. Chidester	Date: 10/21/02
Well No. MW-2 Total Depth (feet): 29.92 Depth to Water (feet): 5.68 Water Column (feet): 24.24 80% Recharge Depth (feet): 10.53	Purge Method: 2" electric Depth to Product (feet): Product Recovered (gallons): - Casing Diameter (Inches): 2" 1 Well Volume (gallons): 3.88	Well No. MW-3  Total Depth (feet) 30.69  Depth to Water (feet): 6.57  Water Column (feet): 24.12  80% Recharge Depth (feet): 11.39	Purge Method: 2 "electric  Depth to Product (feet):  Product Recovered (gallons):  Casing Diameter (inches):2 "  1 Well Volume (gallons):3.66
Start Stop To Water Purged	Conduc Temper bytty alure pH (uS/cm) (F,C)   I.   1	Start Stop To Water Purged	Conduc Temper pH (uS/cm) (F.C)  0.80 70.3 6.96  0.75 72.9 6.80  0.77 74.2 6.57
Total Purged /2 Comments: Turbidity=	Time Sampled [229	Total Purged 12 Comments: Turbidity=	Time Sampled 290
Well No. MW-1  Total Depth (feet) 30.05  Depth to Water (feet): 10.48  Water Column (feet): 19.57  80% Recharge Depth (feet): 14.3	Purge Method: 2" electric Depth to Product (feet): Product Recovered (gallons): Casing Diameter (Inches): 2"  J Well Volume (gallons): 3.13	Weil No. Total Depth (feet) Depth to Water (feet): Water Column (feet): 80% Recharge Depth (feet):	Purge Method:  Depth to Product (feet):  Product Recovered (gallons):  Casing Diameter (Inches):  1 Well Volume (gallons):
Start: Stop To Water Purgeo	Conduc Temper- livity ature pH (uS/cm) (F, C) 0.73 72.2 6.87 0.66 73.0 6.73 0.76 74, 2.6.55	Start Stop To Water Purged	Conduc-Temper- tivity ature pH (uS/cm) (F,C)
Total Purged 9 Comments: Turbidity=	Time:Sampled #255	Total Purged  Comments: Turbidity=	Time Sampled
Well No Total Depth (feet) Depth to Water (feet): Water Column (feet): 80% Recharge Depth (feet):	Purge Method:	Depth to Water (feet): Water Column (feet):	Purge Method:  Depth to Product (feet):  Product Recovered (gallons):  Casing Diameter (Inches):  1 Well Volume (gallons):
Time Time Depth Volum Start Stop To Water Purger	e Conduc-Temper-	Time Time Depth Volume Start Stop To Water Purged	Conduc Temper- I tivity ature pH (uS/cm) (F , C)
Total Purged Comments:	Time Sampled	Total Purged	Time Sampled
Comments: Turbidity≕	·	Comments: Turbidity=	



### Alpha Analytical, Inc.

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

Attn: Phone: Tracy Walker (925) 688-1200

Concord, CA 94520

Fax:

(925) 688-0388

Job#:

41023606/Quick Stop#56

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

	Parameter	Concent	ration	Reporting	Date	Date
				Limit	Sampled	Analyzed
Client ID:	TPH Purgeable	ND		50 μg/L	10/21/02	10/25/02
MW-2	Methyl tert-butyl ether (MTBE)	8.1		$0.50~\mu g/L$	10/21/02	10/25/02
Lab ID:	Benzene	ND		$0.50~\mu g/L$	10/21/02	10/25/02
TRC02102320-01A	Toluene	ND		$0.50~\mu g/L$	10/21/02	10/25/02
	Ethylbenzene	ND		0.50 µg/L	10/21/02	10/25/02
	Xylenes, Total	ND		$0.50~\mu g/L$	10/21/02	10/25/02
Client ID:	TPH Purgeable	ND		50 μg/L	10/21/02	10/25/02
MW-3	Methyl tert-butyl ether (MTBE)	5.8		0.50 μg/L	10/21/02	10/25/02
Lab ID:	Benzene	ND		0.50 μg/L	10/21/02	10/25/02
TRC02102320-02A	Toluene	ND		0.50 μg/L	10/21/02	10/25/02
	Ethylbenzene	ND		0.50 μg/L	10/21/02	10/25/02
	Xylenes, Total	ND		0.50 μg/L	10/21/02	10/25/02
Client ID:	TPH Purgeable	17,000		10,000 μg/L	10/21/02	10/25/02
MW-1	Methyl tert-butyl ether (MTBE)	39,000		50 μg/L	10/21/02	10/25/02
Lab ID:	Benzene	ND	V	50 μg/L	10/21/02	10/25/02
TRC02102320-03A	Toluene	ND	V	50 μg/L	10/21/02	10/25/02
	Ethylbenzene	ND	V	50 μg/L	10/21/02	10/25/02
	Xylenes, Total	ND	v	50 μg/L	10/21/02	10/25/02

Reported in micrograms per liter, per client request.

V = Reporting Limits were increased due to high concentrations of target analytes.

ND = Not Detected

R Scholl

KandySaulner

Dalter Finhon

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 / Wichita, KS • (316) 722-5890 / info@alpha-analytical.com

11/5/02 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: TRC02102320

Project: 41023606/Quick Stop#56

Alpha's Sample ID	Client's Sample ID	Matrix	рН	
02102320-01A	MW-2	Aqueous	2	
02102320-02A	MW-3	Aqueous	2	
02102320-03A	MW-1	Aqueous	2	

11/5/02

Report Date

Billina	Information:	
D11111119	millioniadon .	

### CHAIN-OF-CUSTODY RECORD

Page:

1 of 1

### Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778 TEL: (775) 355-1044 FAX: (775) 355-0406

Report Due By: 5:00 PM On: 06-Nov-02

Client:

TRC-Alton Geoscience 5052 Commercial Circle Tracy Walker

TEL: (925) 688-1200 FAX: (925) 688-0388

EDD Required: No

Concord, CA 94520

Job: 41023606/Quick Stop#56

Sampled by : James Chidester

CC Report:

Report Attention: Tracy Walker

PO:

Client's COC #: none

Cooler Temp:

WorkOrder: TRC02102320

23-Oct-02

QC Level: 1

∓ Final Rot Only

										Reques	ted Tests		
Alpha	Client	C	ollection	No. of	Bottles	3		TPH/P_W	voc_w				
Sample ID	Sample ID	Matrix	Date	ORG	SUB	TAT	PWS#				<u> </u>		Sample Remarks
TRC02102320-01A	MW-2	AQ	10/21/02 12:20	4	0	10		BTXE/GAS/ Mibe	BTXE/GAS/ Mibe				
TRC02102320-02A	MW-3	AQ	10/21/02 12:40	4	0	10		BTXE/GAS/ Mtbe	BTXE/GAS/ Mibe				The second is a set of a control of the second of the seco
TRC02102320-03A	MW-1	AQ 1	10/21/02 12:55	4	0	10		BTXE/GAS/ Mtbe	BTXE/GAS/ Mibe				

Comments:

Security seals intact, ice frozen. California samples. Need water RLs in ug/L.:

Signature Received by:

Print Name

Company

Date/Time

Alpha Analytical, Inc.

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 those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type: AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Ship To: Alpha Analytical	Pageof	CHAIN OF CUSTODY RECORD				
Ship To: Alpha Analytical Attn: Scimple Control 255 Glendale Ave., 5te 21 Sparks, NV 89431	Project Name: Quick Stop#56 Project No.: 41023606 Site Location: 3132 Beaumont Aug, Oakland	Analysis  OA  OA  OA  OA  OA  OA  OA  OA  OA  O				
Boring/Well Sample No. Depth Date Time	Sample Type Water   Solid   Other   Solid   Other   Solid   Other   Solid   Sample Containers   Solid   Other   Solid   Solid	02102320 Remarks				
MW-2 10/21/02 122	والمراب والمراب والمراب والمراب والمراب والمراب والمراب والمراب والمرابع المرابع المرابع والمرابع والمرابع	XXX STD TAT				
MW-3   1240		<u> </u>				
MW-1 125.	5 4 4 4 4 4					
		Report to Trucy Walke				
	+ + + + + + + + + + + + + + + + + + + +					
	<del></del>					
Total Number of Samples Shipped: 12 Ship	per's Signature: Carmer Mathematical					
	per's Signature: Camus (National)	Company Date Time				
Relinquished by: James Chitis	4	RC 10/22/02 1100				
	vieto G. Navar					
Relinquished by:						
Received by:						
Relinquished by:						
Received by:						
Special Instructions / Shipment / Handling/ Storage Re	quirements:	TRC 21 Technology Drive Irvine, California 92618 (949) 727-9336				
The material(s) listed are received for ana property of the client and not TRC. At the material(s) will be returned to the client for	ysis and/or treatability evaluation and rema e conclusion of the test work, all remaining r eventual disposal at a licensed facility.	TRC 5052 Commercial Circle Concord, California 94520 (925) 688-1200				