UNDERGROUND STORAGE TANK REMOVAL REPORT

Quik Stop Market No. 56 3132 Beaumont Avenue Oakland, California

Prepared for:

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

Prepared by:

GARLOW ASSOCIATES

568 Sunnymount Avenue Sunnyvale, California 94087

TABLE OF CONTENTS

1.0	INTRODUCTION	1
		L
2.0	SITE DESCRIPTION	1
3.0	SCOPE OF WORK	J
	3.1 UST Removal	2
	3.2 Soil Sampling	
4.0	SAMPLE ANALYSES AND ANALYTICAL RESULTS	3
	4.1 UST Excavation Soil Samples, Water Samples and Excavated Soil	4
5.0	DISCUSSION AND CONCLUSION	4
6.0	CERTIFICATION	5
7.0	DISTRIBUTION	5
	TATE T TATE TO THE 1999 IN THE 1999 IN	

TABLE OF CONTENTS (Continued)

TABLES

Table 1 UST Excavation Soil - Analytical Results

Table 2 UST Excavation Water - Analytical Results

FIGURES

Figure 1 Vicinity Map

Figure 2 Site Map

APPENDICES

Appendix A Uniform Hazardous Waste Manifests

Appendix B Uniform Underground Tank System Closure Inspection Report and

Hazardous Matetrials Inspection Reports

Appendix C Excavation Verification Sampling Procedures

Appendix D Certified Analytical Reports and Chains of Custody

Appendix E Non-Hazardous Waste Manifests

Appendix F Transmittal Letter

UNDERGROUND STORAGE TANK REMOVAL REPORT

Quik Stop Market No. 56 3132 Beaumont Avenue Oakland, California

November 25, 1998

1.0 INTRODUCTION

At Quik Stop Market No. 56, the underground storage tank (UST) replacement plan was to place the new USTs approximately 10 feet to the north of the original USTs and oriented 90 degrees from the original USTs. On September 21, 1998, two 10,000-gallon steel USTs, and associated product lines were removed from Quik Stop Market No. 56, located at 3132 Beaumont Avenue, Oakland, California (see Figure 1). Dan Brenton Construction, Inc. (Brenton Construction) removed the USTs and associated piping. On-Site Technologies (OST) provided environmental oversight and collected soil and water samples and transported the samples to an analytical laboratory licensed by the state of California to perform the requested analyses. [Please note that in October 1998, Garlow Associates took over the management of this project.] This report describes the sample collection, analytical results and related activities.

2.0 SITE DESCRIPTION

The site is occupied by a business engaged in the retail sale of groceries and gasoline. As described above the site contained two USTs, which contained unleaded gasoline. It is our understanding that these USTs were replaced with two 12,000-gallon, double walled, fiberglass USTs in the locations described above. Figure 2 illustrates pertinent site features including the locations of the former USTs.

3.0 SCOPE OF WORK

The scope of work for this project was to provide environmental oversight, regulatory communication, UST excavation verification sampling and preparation of an underground storage

tank removal report. Sampling of the excavated soil was not a part of this project. All excavated soil was transported to the Forward Incorporated facility in Manteca, California for profiling, treatment and reuse.

3.1 UST Removal

According to the Uniform Hazardous Waste Manifest, on Wednesday, September 16, 1998, 2,500 gallons of waste gasoline rinsate were pumped out of the 2 USTs into a holding tank operated by Ecology Control Industries for delivery and disposal at Romic Chemical Corporation. The Uniform Hazardous Waste Manifest for this material is included in Appendix A.

At the time of our arrival at the site on Thursday, September 17, 1998, the USTs were exposed, the remaining product had been pumped out and the tops of the two USTs were at a depth of approximately 3 feet below ground surface (bgs). During the excavation activities it was noted that from appearance and odors, the granular backfill appeared to have been impacted by gasoline.

Following the pumping out of the USTs they were inerted by placing at least 15 pounds of dry ice per 1,000 gallons capacity into each UST. After the explosive vapors had been sufficiently displaced by dry ice, Mr. Hernan Gomez, of the City of Oakland, Fire Services Agency (COFSA), approved the USTs for removal. Also present during the UST removal were Mr. Michael Karvelot of Quik Stop, Mr. Kerry Brenton and his crew from Brenton Construction, and Mr. Richard Garlow of OST. The 10,000-gallon UST away from Beaumont Avenue, identified as T-1, was removed first and labeled with inventory number 23912. Next to be removed was the, 10,000-gallon UST closest to Beaumont Avenue, identified as T-2, and labeled with inventory number 23911. After removal from the excavation the USTs were lowered to the ground surface for inspection. Both USTs had a black tar coating. An inspection of UST T-1 indicated that there were no apparent leaks or holes. An inspection of UST T-2 found a small hole approximately 1/8-inch in diameter near the bottom of the southern end. What appeared to be water was observed to be leaking out of this hole.

Following inspection, the USTs were approved for transportation and loaded on a truck operated by Ecology Control Industries for delivery and disposal at Erickson, Inc. Uniform Hazardous Waste Manifests are included in Appendix A. The COFSA Uniform Underground Tank System Closure Inspection Report is included in Appendix B.

3.2 Soil Sampling

After the USTs were removed, observations of the excavation were made. The bottoms of the USTs were at a depth of approximately 12 feet bgs and water was observed in the bottom of the hole. According to the contractor, Dan Brenton Construction, during the excavation of the USTs a water line was cut and resulted in quite a bit of water flowing into the hole. The water beneath UST T-2, had a black liquid floating on top of it. This liquid appeared to be related to the black tar coating covering both USTs. The sidewalls and bottom of the excavation appeared to be silty clay and no granular aquifer like material was observed. Due to the presence of water in the excavation it was

decided to let the contractor complete the excavation for the replacement tanks and collect samples from the bottom of the excavation on Monday, September 21, 1998.

On Monday, September 21, 1998, due to an excessive amount of soil yet to be removed and the small size of the site only the northern side of the excavation was accessible. At this time some water still remained in the bottom of the excavation. Under the direction of Mr. Leroy Griffin of COFSA, an excavator was used to obtain samples from the bottom of the excavation. Soil samples were collected from beneath the northern end of each UST, at depth of approximately one to two feet below the bottom of the excavation, into the native soil. After the soil was brought to the surface the soil was inspected and sampled using the methods described in Appendix C. As shown in Figure 2, soil samples collected from beneath UST T-1 were identified as T-1-1 and the soil sample from beneath UST T-2 was identified as T-2-1. In addition, a sample of the water in the excavation was also collected and identified as PW-1. Sampling of the southern side of the excavation was scheduled for Monday, September 28, 1998. The COFSA Hazardous Materials Inspection Report is included in Appendix B.

On Monday, September 28, 1998, the southern side of the excavation was sampled. Some water still covered the bottom of the excavation. Due to the presence of this water it was decided to sample the sidewalls of the excavation adjacent to the ends of the USTs. Under the direction of Mr. Leroy Griffin of the COFSA, an excavator was used to obtain samples from the sidewalls. Samples were collected just above the soil/water interface at a depth of 1 to 1 1/2 feet into the native soil in the sidewalls of the excavation. After the soil was brought to the surface it was field checked for contamination and sampled using the methods described in Appendix C. As shown in Figure 2, the soil sample collected from the sidewall adjacent to UST T-2 was identified as SW-1 and the soil sample of the water in the excavation was also collected and identified as GW-1. The COFSA Hazardous Materials Inspection Report is included in Appendix B.

At this station the delivery pumps were located very close to the USTs and most of these areas were excavated. Due to this situation a trench or dispenser sample was not required.

4.0 SAMPLE ANALYSES AND ANALYTICAL RESULTS

All soil samples were analyzed at Entech Analytical Labs, Inc. (Entech), a laboratory certified by the California Department of Health Services to perform the specified analyses. Soil and groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) using Environmental Protection Agency (EPA) Method 8015M, the gasoline constituents benzene, toluene, ethylbenzene and total xylenes (BTEX) and the oxygenating compound methyl tertiary butyl ether (MTBE) using EPA Method 8020. The certified analytical reports and chains of custody are provided in Appendix D.

4.1 UST Excavation Soil Samples, Water Samples and Excavated Soil

A total of four soil samples (T-1-1, T-2-1, SW-1 and SW-2) were collected from the excavation beneath or adjacent to the USTs. As shown in Table 1, laboratory analytical results indicated that bottom samples T-1-1 and T-2-1 from the northern end of the excavation had no detectable concentrations of TPH-g, BTEX or MTBE. In addition sidewall sample SW-1 had no detectable concentrations of TPH-g or BTEX, but had a low concentration of MTBE (0.53 parts per million [ppm]). Sidewall sample SW-2 had low concentrations of TPH-g (240 ppm), and ethylbenzene (0.85 ppm) and total xylenes (1.30 ppm), but no detectable benzene, toluene or MTBE (see Table 1).

Two samples of the water in the bottom of the excavation (PW-1, and GW-1) were collected. As shown in Table 2, laboratory analytical results of sample PW-1, collected on 9/21/98, indicated detectable concentrations of TPH-g (1,800 parts per billion [ppb]), BTEX (3.8 ppb, 50 ppb, 32 ppb and 160 ppb, respectively) and MTBE (5,500 ppb). In sample GW-1 collected on 9/28/98, much lower concentrations of TPH-g (64 ppb) and MTBE (2,700 ppb) were detected, and the volatile BTEX components were not detected.

A considerable amount of soil was removed to fit the excavation to the size and location of the new fiberglass tanks and to remove apparently stained soil and backfill. Garlow Associates was not present during the excavation and removal of soil, however shipping records indicate that 792 cubic yards of soil were transported from the site. This would represent a total of approximately 1,070 tons of soil. All of the excavated soil was transported for profiling and reuse at Forward Incorporated, at their Manteca facility. The Non-Hazardous Waste Manifests are included as Appendix E.

5.0 DISCUSSION AND CONCLUSION

During the UST excavation and removal a gasoline like odor was noted as well as visible discoloration of some of the soil, backfill and water in the excavation. During over-excavation activities the discolored soil, backfill and some of the water was removed. Laboratory analytical results of the four soil samples collected, indicated that TPH-g, BTEX and MTBE were not detected in samples T-1, T-2-1. In soil sample SW-1 only low concentrations of MTBE were detected and in soil sample SW-2 only low concentrations of TPH-g, ethylbenzene and total xylenes were detected.

Laboratory analytical results of the two water samples collected indicated that TPH-g, BTEX and MTBE were detected in the water sample collected on 9/21/98. However, in the water sample collected on 9/28/98, analytical results indicated that BTEX were not detected, and that while TPH-g and MTBE were detected, they were detected in much lower concentrations. Tank excavation observations were inconclusive regarding the presence or absence of groundwater.

6.0 CERTIFICATION

We certify that, to the best of our knowledge, the information provided in this report is true and correct.

Richard A. Garlow

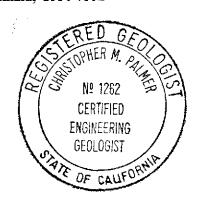
President

Christopher M. Palmer

Certified Engineering Geologist (CA #1262)

7.0 DISTRIBUTION

Mr. Michael Karvelot Director of Environmental Affairs Quik Stop Markets, Inc 4567 Enterprise Street Fremont, CA 94538 Mr. Hernan E. Gomez Hazardous Materials Inspector Fire Services Agency City of Oakland 505 14th Street, 7th Floor Oakland, CA 94612

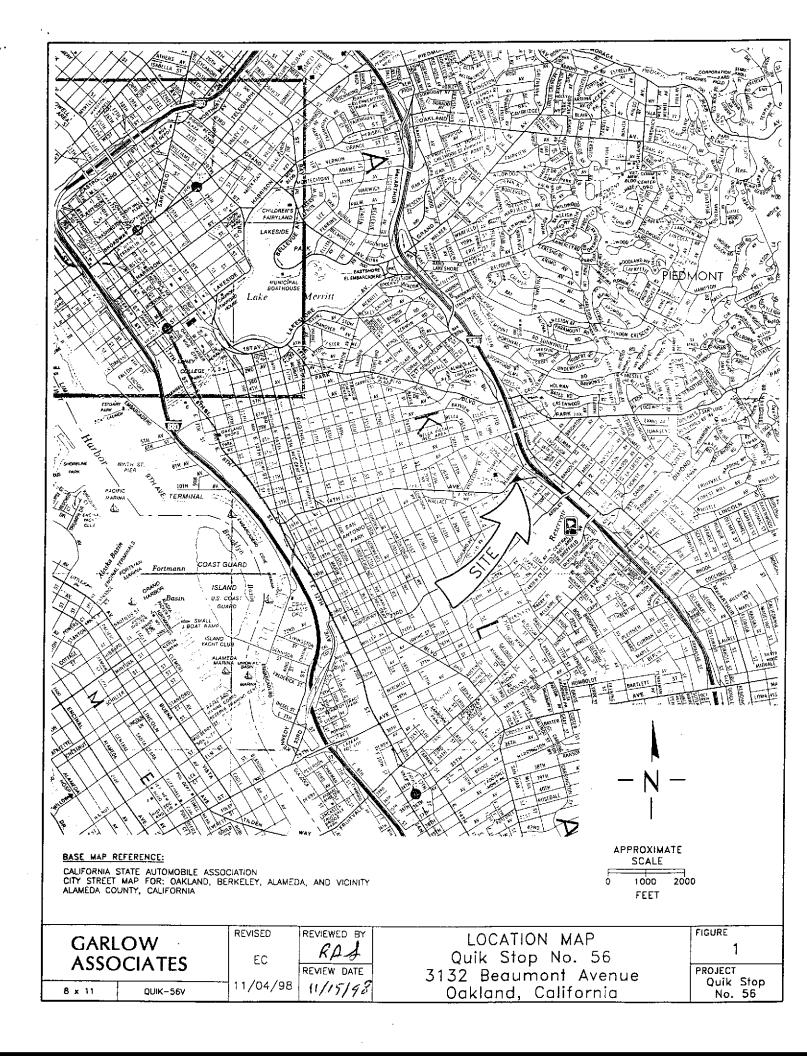


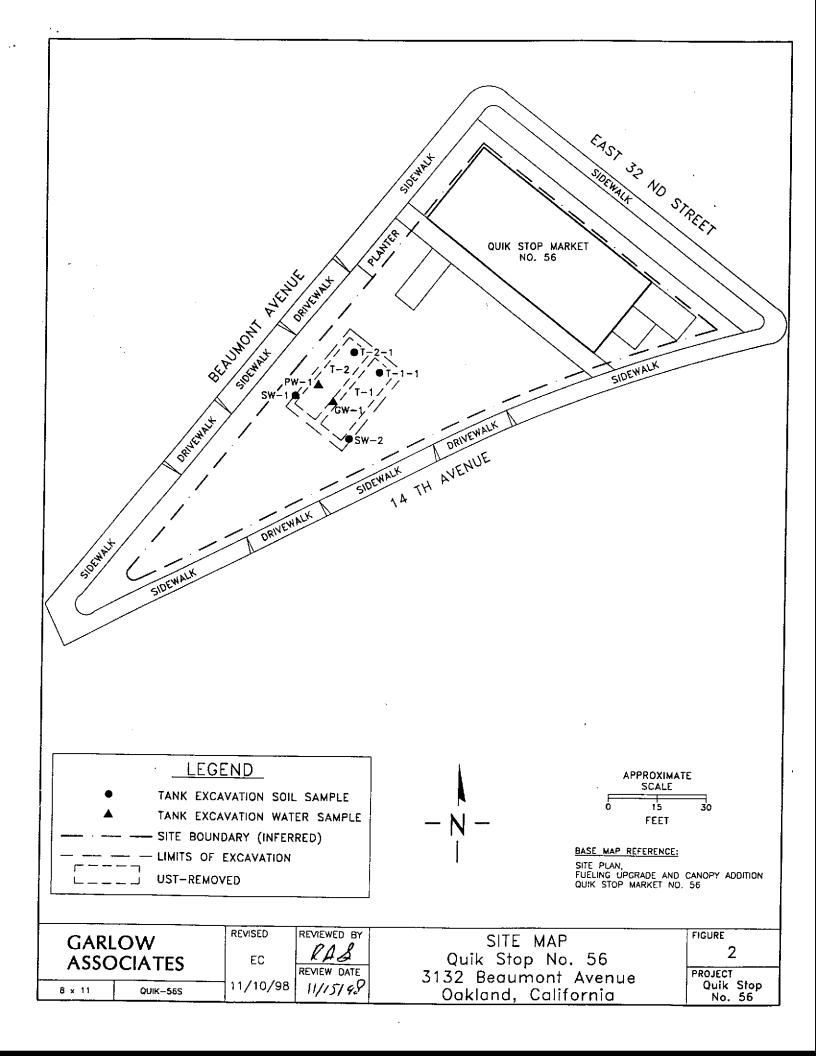
TABLES

FIABLE 1 LUST EXCAVATION SPILE AND X HIGH RESULTS IN THE 1995 THE											
			2999 (11052-1107) (1107)								
Sample Number	Sample Date	Sample Depth (feet)	TPH-g (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl- benzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)			
T-1-1 T-2-1 SW-1 SW-2	9/21/98 9/21/98 9/28/98 9/28/98	~13-14 ~13-14 ~11-12 ~11-12	<1 <1 <1 240.00	<0.005 <0.005 <0.005 <0.5	<0.005 <0.005 <0.005 <0.5	<0.005 <0.005 <0.005 0.85	<0.005 <0.005 <0.005 1.30	<0.05 <0.05 0.53 <5.0			
TPH-g MTBE ppm <	TPH-g Total petroleum hydrocarbons as gasoline MTBE Methyl tert-butyl ether										

			(6)		enir is:	ESULTE CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT				
Sample Number	Sample Date	Sample Depth (feet)	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE (ppb)		
PW-1 GW-1	9/21/98 9/28/98	~12-13 ~12-13	1,800 64	3.8 <0.5	50 <0.5	32 <0.5	160 <0.5	5,500 2,700		
TPH-g Total petroleum hydrocarbons as gasoline MTBE Methyl tert-butyl ether ppb Parts per billion (ug/l) Less than the listed method detection limit										

FIGURES





APPENDIX A

Uniform Hazardous Waste Manifests

State of California—Environmental Protection Agency Form Approved OM8 No. 2050–0039 (Expires 9-30-99) Please print or type. Form designed for use on elite (12-pitch) typewriter. See Instructions on back of page 6. Department of Toxic Substances Contr Sacramento, California 1. Generator's US EPA ID No. Manifest Document No. 2. Page 1 Information in the shaded areas UNIFORM HAZARDOUS is not required by Federal low, CALO000045 0 WASTE MANIFEST 3. Generator's Name and Mailing Address A. State Manifest Document Number 98027406 11567 Enterprise St. Fremont, CA 94538 CALL 1-800-852-7550 4. Generator's Phone (7/1) 6 77 - 3 571 t) 5. Transporter 1 Company Name 6. US EPA ID Number C. State Transporter's ID **ECOLOGY CONTROL INDUSTRIES** CAD982030173 510-235-1393 D. Transporter's Phone 7. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID F. Transporter's Phone Religional Parilly Name and Site Address G. State Facility's ID 10. US EPA ID Number WITHIN CALIFORNIA, 255 PARR BLVD RICHMOND, CA 94801 CAD009466392 H. Facility's Phone 12. Containers l: Waste Namber Type Quantity Wt/Vol State Р Non-RCRA hazardous waste solid EPA/Other CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: Ν EPA/Other State 🐇 🐇 27 m. 2. EPA/Other EPA/Other U OTALItional Discription Empty STORAGE TANK(S) #23911 23912 TANK(S) HAVE BEEN INERTED WITH 15 LBS DRY ICE PER 1000 GALLONS CAPACITY Wear appropriate protective clothing when handling. SITE LOCATION: 2/5 24 Hour Emergency Telephone Number: 570-440 1954 24 Hour Emergency Contact: Mike KARVELO+ 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. SPILL, If I am a large quantity generator, I certify that I have a program in place to reduce the valume and taxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation, and select the best waste management method that is available to me and that I can afford. OF EMERGENCY OR Printed/Typed Name
/M.KE KARVELO +

	7 mile minibard		
Ţ	17. Transporter 1 Acknowledgement of Receipt of Materials		
À N	Printed/Typed Name Biggs	Day Briga	Month Day Year
Ď	18. Transporter 2 Acknowledgement of Receipt of Materials		
1 [Printed/Typed Name	Signature	Month Day Year
1		·	

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

DO NOT WRITE BELOW THIS LINE.

C

Day

Year

Month

and the environment; OR, if I am a small quantity generator, I have a covallable to me and that I can afford.	mode a specificial	sposal corrently	available to me which	th minimizes the presen	at and future threat to hu	ıman health
ovailable to me and that I can afford.	mode a Spoo total	a errora to minim	iize my wasie genera	thon and select the bes	t waste management me	thod that is
Printed/Typed Name			11			
	Signoture	1.5	7)/X		Month Dru	v-
DENNIS J. BOULDON	1 /	10 1	1/4/2			
17. Transporter 1 Acknowledgement of Paraint of Materials		Je - Ja	y jour			0 7
17. Transporter 1 Acknowledgement of Receipt of Materials	-					

Signature

18. Transporter 2 Acknowledgement of Receipt of Materials

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

DO NOT WRITE BELOW THIS LINE

ö

APPENDIX B

Uniform Underground Tank System Closure Inspection Report
And
Hazardous Materials Inspection Reports

OAKLAND FIRE SERVICES AGENCY, OFFICE OF EMERGENCY SERVICES UNIFORM UNDERGROUND TANK SYSTEM CLOSURE INSPECTION REPORT

Facility Name Quick	16 /	Site ID. No	
Address 3137 Baun	mont Ave.	City Oak	Zip
Project Contact Terry Bo	mbrick Const	Contact Phone No.	(40X) 823-R500
Tank ID No.	1	2 to- th	
Size	10 K	10 K	
Construction Material	Steel	stul	
Single/Double Wall	Single Kbill Steel	Single Wall	
Backfill Type	Sand	Sand	
Oxygen <10%	5%	5%	
LEL <20%	5%	5%	
Tank Condition	good - No holes observed	Hole it bottom end of Tunk (west)	
Soil/Groundwater Condition	Product Fright	Product observed in pit / strong anell	
Soil Sample Depth	14' Set 11,0 ann . 14'	4,0 14 Soft	
Number and Description of Soil/Groundwater Samples (Indicate Sample Locations on Site Plan.)	Soil & belowed early of early tank the center -		
Piping: Q Rinsed/Tested/Capped	d Ri	nsate: Shipped on Manifest 'Transporter Name Sam	e as on Application
ank and Piping Transport:	ਬ੍ਰੇ Shipped on Manifest	☐ Vehicle Hazwaste Certi	
ampling: 🔾 Evidence Tape	Chain of Custody, Pipelir Samples Taken	☐ Samples Refrigerated ne ☐ Yes, ☐ No (If no, expla ☐ Soil Stored on Bermed	ain why in Comments.) Plastic and Covered.
isposition of Tank Contents $\frac{Y}{Y}$	indust semoned +	O Soil Stored on Bermed	Finceste charged on
omments/Special Conditions		12	• !
comments/Special Conditions		Date <u>9 / 1 / 98</u> Start Time <u>9</u>	Site Plan: Attached
ignature of Contractor/Authorize	d Agent	Date 7/17/9/	Page 1 of 1

25. #56

OAKLAND FIRE SERVICES AGENCY/OFFICE OF EMERGENCY SERVICES

HAZARDOUS MATERIALS UNIT 505 - 14th Street, Oakland, CA 94612 (510) 238-3938

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number Facility Name	Faci	ility Address	Zip Code
Quick Ston	3132 B	eaumont Ave:	
Inspect	ion Report		Л
Gampline operation			
· · · · · · · · · · · · · · · · · · ·	}		
Tanks wheaty removed.	H, O of	berved in pil	
12:5"			
X = Soil cample	14'		
	T-2-1		
x = 1500, sample 1.	4		B
	T-1-1		` U
1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T-1 T-2	<u> </u>
One to Beaument Ave. (West en	om ara		N T
close to Beaumont Ave. (West en	<u>u)</u>	<u> </u>	T
D= H, O cample DIX/-1 1A			
D= H, U cample PIXI-1 13	¥.5	- (,	-
This one HiO sample - 3 v			<u></u>
This o've no name 3 in	vaos		
Samples taken ky	ATC ASS		
2011/05	1110 1100		
Facility Contact/ Print Name:	Inspected By	□ Insp. Griffin 2	38-7759
Mike KARVELOT		☐ Insp. Johnson 2	38-3804
Facility Contact/ Signature:	1 HUA		38-7758
MKult	Date		38-7253

OAKLAND FIRE SERVICES AGENCY/OFFICE OF EMERGENCY SERVICES HAZARDOUS MATERIALS UNIT

505 - 14th Street, Oakland, CA 94612 (510) 238-3938

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number Facility Name	Facility Address	Zip Code
aniels Stop	3132 Beaumont Ave #50	
	ion Report	
Tank installation		
2 UST, 1	2 K each Brine Tank	
-2	CWFW	
No problems observed	at this time.	
Oneretion	went as planned	
9 7 3 3 3 3 3 3	mora so pravvica	
		
		·
	<u> </u>	
		
		· · · · · · · · · · · · · · · · · · ·
	N	·
Facility Contact/ Print Name:	Inspected By: Insp. Griffin 2	38-7759
Mike KANVELOT	☐ Insp. Johnson 2	38-3804
Facility Contact/ Signature:	HED Insp. Craford 2	38-7758
M. Kubt	Insp. Gomez 2	38-7253
///./\ww	Date: 9/22/98	

OAKLAND FIRE SERVICES AGENCY/OFFICE OF EMERGENCY SERVICES HAZARDOUS MATERIALS UNIT

505 - 14th Street, Oakland, CA 94612 (510) 238-3938

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number Facility Name Facility Address	Zip Code
auich Stop \$3132 Beaumont Ave	
Inspection Report	1
Sampling operation	
Beaumon	
X 3	<u> </u>
3	
5 H2 O } Neur Coulan }	·
X	
x = Findle 10	
D= DNI- H20 Rample 3 vials	
——————————————————————————————————————	
x = Soil Sample siele wall area from end of	- 80
tank (del lank closest to street)	1 000
(5 N/1 12 AT	
3 W2- 13 4st Soil sample from and of old	tanh
5 W 2 - 13 HT Foil sample from and of old area next to tamb 1	

Facility Contact/ Print Name:	Inspected By:	☐ Insp. Griffin	238-7759
MIKE KARVELOT		☐ Insp. Johnson	238-3804
Facility Contact/ Signature:	HELDA	☐ Insp. Craford	238-7758
M K LX		🗵 Insp. Gomez	238-7253
111,110	Date:	9/2/8/98	

APPENDIX C

Excavation Verification Sampling Procedures

APPENDIX C

EXCAVATION VERIFICATION SAMPLING PROCEDURES

Verification samples were collected from vadose zone soil within the Underground Storage Tank excavation. The following procedures were used to obtain soil samples for laboratory analysis.

- Soil obtained from the excavation pit was brought to the surface using an excavator. Samples
 were collected by driving a brass or stainless steel sample tube into the soil contained in the
 backhoe bucket. If necessary, the sample tube will be hand packed to minimize headspace.
- Each end of the full sample tube was covered with a sheet of aluminum foil and then sealed with plastic end caps.
- The sample was labeled with the project number, a unique sample identification number and the date.
- Soil sample containers were then placed in airtight bags and immediately cooled in a refrigerated ice chest. The samples were maintained at a low temperature until delivery to a state certified laboratory.
- Chain-of-custody documentation was maintained.

APPENDIX D

Certified Analytical Reports and Chains of Custody

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

ATC Associates, Inc. 1780-H Old Bayshore Highway

San Jose, CA 95112 Attn: Rich Garlow Date: 10/1/98

Date Received: 9/22/98

Project: 62503.0010

PO#: Bill Quik Stop

Sampled By: Client

Certified Analytical Report

Soil Sample Analysis: (All results in mg/kg)

Sample ID	T-1-1		<u> </u>	T-2-1				
Sample Date	9/21/98			9/21/98			 	
Sample Time	8:34		"	8:34				
Lab #	E17067			E17068				
	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	9/25/98			9/25/98				
TPH-Gas	ND	1.0	1	ND	1.0	1	1	8015M
MTBE	ND	1.0	0.05	ND	1.0	0.05	0.05	8020
Benzene	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Toluene	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Ethyl Benzene	ND	1.0	0.005	ND	1.0	0.005	0.005	8020
Xylenes	ND	1.0	0.005	ND	1.0	0.005	0.005	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

Michelle L. Anderson, Lab Director

[·] Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

ATC Associates, Inc. 1780-H Old Bayshore Highway San Jose, CA 95112

Attn: Rich Garlow

Date: 10/1/98

Date Received: 9/22/98

Project: 62503.0010

PO#: Bill Quik Stop

Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	PW-1										<u> </u>
Sample Date	9/21/98						 	······································			
Sample Time	8:40									+	
Lab#	E17069						ļ				
	Result	DF	DLR				 	<u> </u>	T	PQL	Method
Results in µg/Liter:							 		 	1,00	Method
Analysis Date	9/24-10/1/98									_	
TPH-Gas	1,800	1.0	50					 -	 	50	8015M
MTBE	5,500	40	200		_	+			 	5.0	
Benzene	3.8	1.0	0.5		 	 		+	- -	 +	8020
Toluene	50	40	20			+	 		 	0.5	8020
Ethyl Benzene	32	40	20			- -	<u> </u>			0.5	8020
Xylenes	160	40	20	<u> </u>	- 	 			 	0.5	8020
DE-Dilution Et-	777 77				1	_L.	<u> </u>	- 1	1	0.5	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

Michelle L. Anderson, Lab Director

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980924

Matrix: Soil Units: ug/kg Date Analyzed: 09/24/98

Quality Control Sample: Blank Spike

PARAMETER	Meth	od#	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	SP % R	SPD ug/kg	SPD %R	RPD	QC RPD	LIMITS %R
Benzene	80	20	<5.0	80	ND	75	94:	75	93	0.1	25	76-117
Toluene	! 80	20	<5.0	80	ND	74	92	74	93	0.1	25	76-117
Ethyl Benzene	80	20	<5.0	80	. ND	74	93	74	92	0.6	25	74-119
Xylenes	¦ 80	20	<5.0	240	ND	224	93	222	93	l 0.9	25	75-120
Gasoline	80	15	<1000.00	1000	ND	1040	104	1010	101	2.9	25	58-120

Note: LCS and LCSD results reported for the following Parameters:

All

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery

NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980925

Date Analyzed: 09/25/98 Quality Control Sample: Blank Spike

Matrix:	Soil
Units:	ug/kg

PARAMETER	Method#	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	SP % R	SPD ug/kg	SPD %R	RPD	QC RPD	LIMITS %R
Benzene	8020	<5.0	80	ND	74	92	76	95	2.5	25	76-117
Toluene	8020	<5.0	80	ND	74	i 93 i	74	i 93	0.2	1 25 i	76-117
Ethyl Benzene	8020	<5.0	80	ND	75	93	74	93	0.7	25	74-119
Xylenes	8020	<5.0	240	ND	225	94	226	94	0.3	25	75-120
Gasoline	8015	<1000.00	1000	ND	990	99	960	96	3.1	25	58-120

حرثو

Note: LCS and LCSD results reported for the following Parameters:

All

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result SP (%R): Spike % Recovery SPD: Spike Duplicate Result SPD (%R): Spike % Recovery

NC: Not Calculated



Chain of Custody

SAN JUSE OFFICE 1780-H Old Bayshore Highway

San Jose, CA 95?12

Tele: (408) 451-0276 Fax: (408) 451-0276

Project Name					• •										Fax: (408) 451-027
Quik 5 km 56			T				\top	T-	T		Τ	Γ	Γ		, , , , , , , , , , , , , , , , , , , ,
Project Number 6 150 3. 0010 ATC Environmental Inc. Contact	"Bill Quik The	EP.A 8015M									8080			;	Turn Around Time
· · · · · · · · · · · · · · · · · · ·		1 40 1	1 1			020			7	4	A 8(Standard
Laboratory Name Enter h		11		40	2 3	10/8	기능	m	EPA	EPA	品				5 to 10 Business Days
Matrix	gas/BT diesel	EPA 8010	EPA 8240	8 8	03 4	552	520	ials,	tals,	듣				Priority Rush	
Sample Number Location Date Time 5 5 Preservative	Type of Containers	TPH as ga	VOOS, EP.	VCCs, EP.	VCCs, EPA 8020	VUUS, EPA 8010/8020 SVOCA FPA 8270	TRPH, SM 5520F	TOG, SM 5520B	Tide 22 Metals,	PP (13) Metals,	Pesticides Only, EPA	MIBE			Business Day(s)
1-1-1 9/PIMB 8 34 x		F F	5	<i>></i> :	× 3	> <i>σ</i>	<u> </u>	15	įΞ	급	U,				
F-1-2 (x	1 617067	X				_	-					.x.			Remarks
I-2-1 9.34 x	1517019				· 	_	-	ļ				*			
F-2-2	1 817068	<u> </u>			-		-	ļ				ᄾ			
PW-1 9.40 X	3 1517069	八				-	-					مر		-	
						-	-	-				X			MARIE-THE STATE OF THE STATE OF
					-	-	- 								
				_	- -		-			-					
					-	_				-		-			
						\top	†		_	+					
								-				_		_	
			_												
			_		_	_									
		-	_ _			-									
					_	<u>-</u> ,									
elinquished by sampler Date	Time	Reco	337014	Eve											
elinquished by Date				•							-				
clinguished by	Time	Rece	ived	by											
Date	Time	Rece	ived	by la	bora	lory		····	ν V.T.	~····	···			 D:	ate / 35/98 Time 2:177

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

ATC Associates, Inc.

1780-H Old Bayshore Highway

San Jose, CA 95112

Attn: Richard Garlow

Date: 10/6/98

Date Received: 9/29/98

Project: 62503.0010

PO #: Bill Quick Stop

Sampled By: Client

Certified Analytical Report

Water Sample Analysis:

Sample ID	GW-1	· •						
Sample Date	9/28/98							
Sample Time	8:30					 	<u> </u>	
Lab#	E17602						·	
	Result	DF	DLR				PQL	Method
Results in µg/Liter:								
Analysis Date	10/2/98							
TPH-Gas	64	1.0	50	1			50	8015M
MTBE	2,700	20	100		-		5.0	8020
Benzene	ND	1.0	0.5				0.5	8020
Toluene	ND	1.0	0.5				0.5	8020
Ethyl Benzene	ND	1.0	0.5				0.5	8020
Xylenes	ND	1.0	0.5				0.5	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

Michelle L. Anderson, Lab Director

Entech Analytical Labs, Inc.

CA ELAP# 2224

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

ATC Associates, Inc.

1780-H Old Bayshore Highway

San Jose, CA 95112

Attn: Richard Garlow

Date: 10/6/98

Date Received: 9/29/98

Project: 62503.0010

PO#: Bill Quick Stop

Sampled By: Client

Certified Analytical Report

Soil Sample Analysis: (All results in mg/kg)

Sample ID	SW-1			SW-2		-		
Sample Date	9/28/98			9/28/98				
Sample Time	8:35			8:40				
Lab#	E17603			E17604				
	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	10/2/98			10/2/98				
TPH-Gas	ND	1.0	1.0	240	100	100	1.0	8015M
MTBE	0.53	1.0	0.05	ND	100	5.0	0.05	8020
Benzene	ND	1.0	0.005	ND	100	0.5	0.005	8020
Toluene	ND	1.0	0.005	ND	100	0.5	0.005	8020
Ethyl Benzene	ND	1.0	0.005	0.85	100	0.5	0.005	8020
Xylenes	ND	1.0	0.005	1.3	100	0.5	0.005	8020

DF=Dilution Factor

ND= None Detected above DLR

PQL=Practical Quantitation Limit

DLR=Detection Reporting Limit

· Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2224)

Michelle L. Anderson, Lab Director

Entech Analytical Labs, Inc.

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4981002

Matrix: Water Units: ug/L Date Analyzed: 10/02/98

Quality Control Sample: Blank Spike

PARAMETER	Method #	MB ug/L	SA ug/L	SR ug/L	SP ug/L	SP, % R	SPD ug/L	SPD %R	RPD	QC RPD i	LIMITS %R
Benzene	i 8020 i	<0.50	80	ND	76	96	80	100	4.7	i 25 i	77-116
Toluene	8020	< 0.50	80	ND	75	94	79	98	4.6	25	75-116
Ethyl Benzene	8020	< 0.50	80	ND	77	96	80	100	3.8	25	77-115
Xylenes	8020	< 0.50	240	ND	230	96	238	99	3.3	25	76-118
Gasoline	8015	<50.0	1000	ND	1050	105	1020	102	2.9	25	65-135

Note: LCS and LCSD results reported for the following Parameters:

All

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery
NC: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4981002

Matrix: Soil Units: ug/kg Date Analyzed: 10/02/98 Quality Control Sample: E17916

PARAMETER	Method #	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	SP % R	SPD ug/kg	SPD %R	RPD	Q(RPD	LIMITS
Benzene	8020	<5.0	80	ND	81	101	77	96	4.5	25	%R 76-117
Toluene Ethyl Benzene	8020	<5.0	80	ND !	80	100	76	95	4.6	25	76-117
Xylenes	8020	<5.0 <5.0	80 240	! ND !	80 2 42	100	76 228	95	4.9	25	74-119
Gasoline	8015	<1000.00	1000	ND	1050	105	1020	95 102	5.9 2.9	25 [25]	75-120 58-120

Note: LCS and LCSD results reported for the following Parameters:

Gasoline

Acceptable LCS and LCSD results are reported when matrix interferences cause MS and MSD results to fall outside established QC limits.

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike % Recovery

NC: Not Calculated



Chain of Custody

SAN JUSE OFFICE 1780-H Old Bayshore Highway San Jose, CA 95112

Tele: (408) 451-0270

Fax: (408) 451-0276

ATC Environme	Project Name Quik Stop 56 Project Number 62503.0010 ATC Environmental Inc. Contact Richard Garlow Laboratory Name Entech									gas/BTEX, EPA	el, EPA 8015M		8240	8020	8010/8020	A 8270	5520F	520B	als, EPA	tals, EPA	Jnly, EPA 8080					Turn Around Time Standard 5 to 10 Business Days Priority Rush Business Day(s)
Sample Number	Location		Time	Soil	Matri Mater		Preserv- alive	No. of Containers	Type of Containers	TPH as gas/	as	VOCs, EPA 8010	VOCS, EPA 8240	VOCs, EPA 8020	VOCs, EPA 8010/8020	SVOCs, EPA 8270	TRPH, SM 5520F	TOG, SM 5520B	Title 22 Metals,	PP (13) Metals,	Pesticides Only, EPA	MTBE				
6w-1	Botton	9/28/98	8:30		X		×	3	40 al VUA	1	- T			76		1						X				Remarks
5w-1	Sidewell	9/18/98	8:35	X						1	1			† 17 = 1	_							X				
Sw-2	Sidewill	9/2498	8:40	X					BrassTube	_^		- -		F./_	100	<u> </u>		~~ a numan .				X				
											ļ		ļ													
										ļ	ļ	-	ļ	ļ	ļ. -										_	
											ļ		-	-												
					·					Ì	<u> </u>															
		<u>-</u>		1					1	 	†			1								- 				
			,	-	1																					
																		ļ								
	ļ				_							ļ,						ļ 								
Colinguished by	v sapialar	. 4	1	<u> </u>	<u> </u>		Dath	<u> </u>	Time -	<u> </u>	Re	cgiv	e (N)			<u> </u>			<u>. </u>		<u> </u>					
Relinquished b	MAG	4.1	San				9,2	198	Time Time		ŀ	<i>\</i> ~	< 1		_		\									
Kelindaisuea p	125	\overline{Z}					912g	198				edeiv					· -—-									
Relinquished b	y 1		-				Date		Time		Re	eceiv	ed b	y lat V	ora VV	lory	0							4	Dat 列之	e Time 9/98 3/