GARLOW ASSOCIATES
ENVIRONMENTAL AND GEOLOGICAL CONSULTANTS

568 Sunnymount Avenue
Sunnyvale, CA 94087
Phone: (408) 245-2897
Fax: (408) 245-8007

November 4, 1998

Mr. Michael Karvelot
Director of Environmental Affairs
Quik Stop Markets, Inc.
4567 Enterprise Street
Fremont, CA 94538

Reference: **Quik Stop Market No. 51**
3130 35th Avenue, Oakland, California

Subject: **Underground Storage Tank Removal Report**

Dear Mr. Karvelot:

Enclosed is a copy of the Underground Storage Tank Removal Report at the above-referenced facility. Please note that the name of the regulatory agency receiving the report is provided in the distribution section of the report.

The report submitted to regulatory agencies on your behalf is accompanied with the cover letter signed by you which states: "I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge."

Should you have any questions after reviewing this report please call.

Sincerely for,
GARLOW ASSOCIATES

Richard A. Garlow
President

Enclosures

UNDERGROUND STORAGE TANK REMOVAL REPORT

Quik Stop Market No. 51
3130 35th 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

November 4, 1998

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UNDERGROUND STORAGE TANK REMOVAL REPORT

Quik Stop Market No. 51
3130 35th Avenue
Oakland, California

November 4, 1998

1.0 INTRODUCTION

At Quik Stop Market No. 51, the underground storage tank (UST) replacement plan was to place the new USTs in a slightly different location than the original USTs. It was the desire of Quik Stop Markets, Inc. (Quik Stop) to put the soil from the new excavation into a portion of the existing excavation. To evaluate the condition of the replacement soil, on June 17, 1998, four soil samples were collected from the approximate location of the new USTs. With the aid of an excavator, soil samples were collected at depths of 5 feet, 9 feet, 13 feet and 16 feet below the ground surface (bgs). The sample was delivered to a certified laboratory where it was combined into a single composite for analyses. Analytical results indicated that this soil was impacted with gasoline related compounds and not suitable for fill.

On June 18, 1998, two 10,000 gallon steel USTs, and associated product lines were removed from Quik Stop Market No. 51, located at 3130 35th 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 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 and 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 at a location

slightly to the west of the location of the removed USTs. 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. Soil sampling for excavated soil characterization was not a part of this project. All excavated soil was transported to the Forward Incorporated facility in Stockton, California for profiling, treatment and reuse (Certificate of Beneficial Reuse is included in Appendix A).

3.1 UST Removal

According to the Uniform Hazardous Waste Manifest, on Wednesday, June 17, 1998, approximately 400 gallons of gasoline was 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 B.

At time of our arrival at the site on Thursday June 18, 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 the dry ice Mr. Leroy Griffin of the City of Oakland, Fire Services Agency, 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. Larry Pavick of OST. After removal from the excavation the USTs were lowered to the ground surface for inspection. An inspection of the USTs indicated that there were no apparent leaks or holes. Following inspection, the USTs were approved for transportation and loaded on a truck operated by Trident Truck Lines for delivery and disposal at Erickson, Inc. The 10,000-gallon UST closest to 35th Avenue, identified as T-1, was removed first and labeled with the inventory number 23008. Next to be removed was the, 10,000 gallon UST closest to the Quik Stop Market, identified as T-2, and labeled with the inventory number 23009. The Uniform Hazardous Waste Manifests are included in Appendix B.

3.2 Soil Sampling

After the USTs were removed, the excavation was inspected. The bottom of the tanks were at a depth of approximately 12 feet bgs and groundwater was not observed.

Under the direction of Mr. Leroy Griffin of the City of Oakland, Fire Services Agency, an excavator was used to obtain samples from the bottom of the excavation. Soil samples were collected from

a depth of approximately one to two feet below the bottom of the USTs from beneath each end of each UST and beneath the middle of each UST. 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 T1-1, T1-2 and T1-3. In a similar manner, the soil samples collected from beneath UST T-2 were identified as T2-1, T2-2 and T2-3.

Analytical results indicated the presence of relatively high concentrations of gasoline-related constituents in soil immediately beneath the tanks. The excavation was continued vertically in an effort to remove as much hydrocarbon impacted soil as practical. Vertical excavation was terminated at 16 feet below grade, the maximum reach of the excavator. Native soil was then resampled below the former sample locations designated T1-1, T1-2, T2-1 and T2-2. These deeper samples taken at 16 feet were designated T1-1@16', T1-2@16', T2-1@16', and T2-2@16', respectively. Analytical results from the deeper samples suggest an overall decrease in contamination with depth. No further vertical excavation was attempted because of equipment limitations, although lateral excavation was conducted in order to position the larger replacement tanks.

The product dispensers were located very close to the USTs and in part juxtaposed over the UST basin.. Due to the short distance, piping trench and dispenser samples were 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 Bottom Samples and Excavated Soil

A total of ten samples (T1-1 through T2-3 and T1-1@16' through T2-2@16') were collected from the bottom of the excavation beneath the USTs. As shown in Table 1, analytical results indicted that with the exception of samples collected from location T1-2, the concentration of gasoline related compounds showed an overall decrease with increasing depth. At location T1-2 a small increase was indicated.

After the analytical results were received additional excavation was completed to fit the excavation to the size and location of the new fiberglass tanks. Garlow Associates was not present during the excavation and removal of soil, however shipping records indicate that 973.13 tons of soil were treated for reuse. This weight of soil would represent approximately 660 to 800 cubic yards. All of the excavated soil was transported for profiling and reuse at Forward Incorporated, at their Stockton facility. The Certificate of Beneficial Reuse is included as Appendix E.

5.0 DISCUSSION AND CONCLUSION

During the UST excavation, removal and sampling there was a gasoline like odor and a visible discoloration of the soil. Prior to over excavation analytical results indicated that TPH-g concentrations ranged from 1,100 parts per million (ppm) to 170 ppm and benzene concentration ranged from 5.2 ppm to 0.35 ppm. After over excavation to 16 feet the gasoline odor appeared to decrease and discoloration of the soil was not observed. After over excavation analytical results indicated that TPH-g concentrations ranged from 360 ppm to 2.4 ppm and benzene concentration ranged from 1.5 ppm to 0.017 ppm. This represented a decrease in the detected concentrations at the limit of the excavation equipment reach.

6.0 CERTIFICATION

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

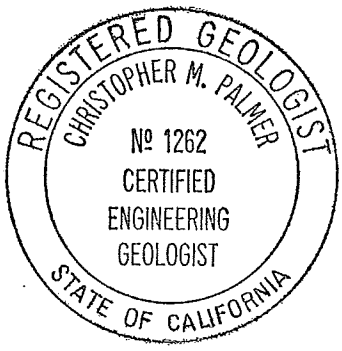
Richard A. Garlow
President

Christopher M. Palmer
Certified Engineering Geologist (C.E.G. #1262)

7.0 DISTRIBUTION

Mr. Michael Karvelot
Director of Environmental Affairs
Quik Stop Markets, Inc
4567 Enterprise Street
Fremont, CA 94538

Mr. Leroy Griffin
Hazardous Materials Supervisor
Fire Services Agency
City of Oakland
505 14th Street, 7th Floor
Oakland, CA 94612



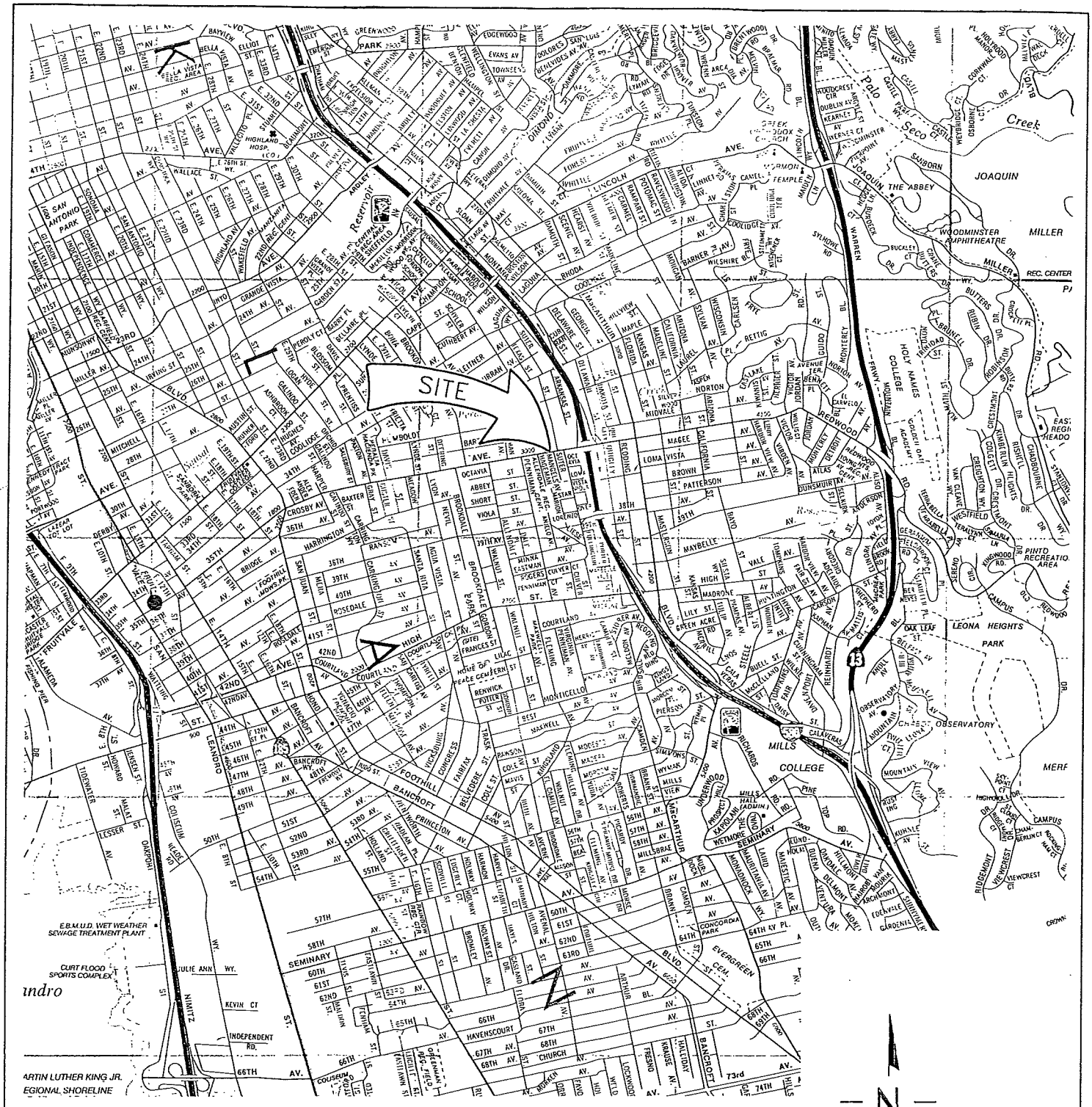
TABLES

TABLE 1
UST EXCAVATION SOIL - ANALYTICAL RESULTS
Quik Stop Market No. 51
Oakland, California

Sample Number	Sample Date	Sample Depth (feet)	TPH-g (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
QSST-1,2,3,4	6/17/98	~5-16	100	0.71	<0.005	0.7	1.7	1.5
T1-1	6/18/98	~13-14	360	0.9	<0.625	3.9	20	8
T1-2	6/18/98	~13-14	170	0.35	<0.155	2.2	14	2.6
T1-3	6/18/98	~13-14	1,000	2.1	<0.625	15	20	12
T2-1	6/18/98	~13-14	530	5.2	<1.25	7.5	30	13
T2-2	6/18/98	~13-14	1,100	1.8	<0.31	14	32	7
T2-3	6/18/98	~13-14	430	1	<0.625	4.7	6.7	<6.25
T1-1@16'	6/19/98	~15-16	350	1.1	<0.31	3.3	17	5.5
T1-2@16'	6/19/98	~15-16	360	0.6	<0.31	3.3	15	<3.1
T2-1@16'	6/19/98	~15-16	240	1.5	<0.31	4	12	5
T2-2@16'	6/19/98	~15-16	2.4	0.017	<0.005	0.041	0.049	0.13

TPH-g	Total petroleum hydrocarbons as gasoline
MTBE	Methyl tert-butyl ether
ppm	Parts per million (mg/kg)
<	Less than the listed method detection limit

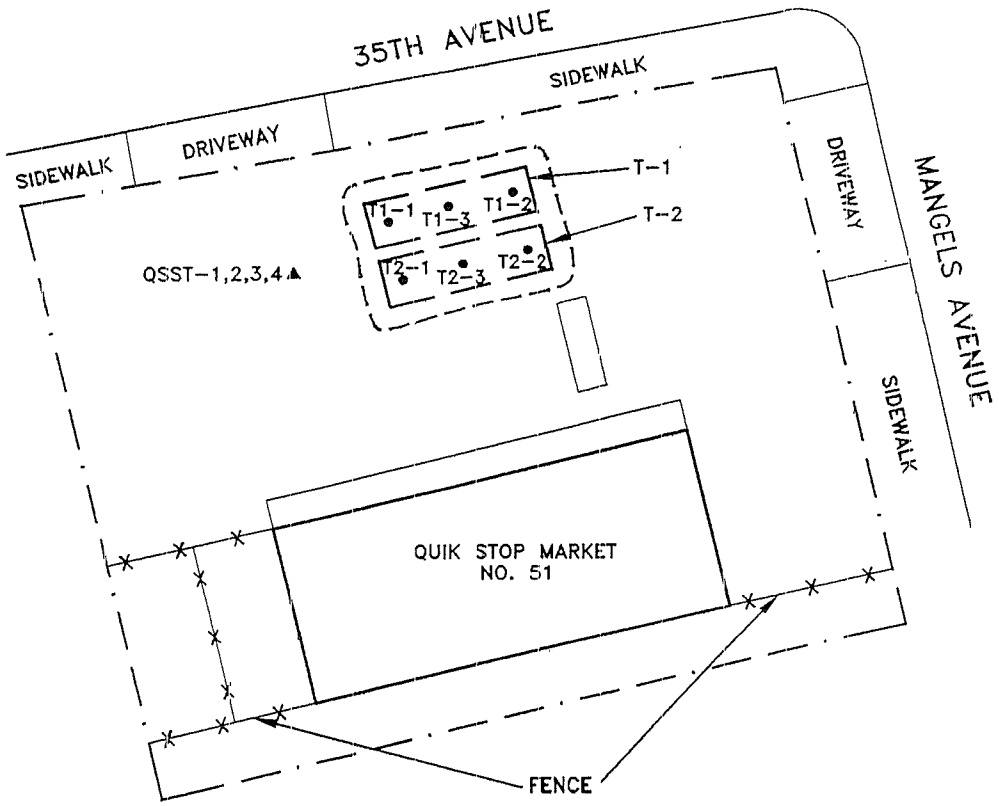
FIGURES



BASE MAP REFERENCE:

CALIFORNIA STATE AUTOMOBILE ASSOCIATION
CITY STREET MAP FOR: OAKLAND, BERKELEY, ALAMEDA, AND VICINITY
ALAMEDA COUNTY, CALIFORNIA

GARLOW ASSOCIATES	REVISED EC 08/05/98	REVIEWED BY RAS REVIEW DATE 10/20/98	VICINITY MAP UNDERGROUND STORAGE TANK REMOVAL REPORT 3130 35TH AVENUE OAKLAND, CALIFORNIA	FIGURE 1 PROJECT Quik Stop No. 51
8 x 11 | 441-2V				



LEGEND

- TANK EXCAVATION BOTTOM SOIL SAMPLE
- COMPOSITE SOIL SAMPLE
- SITE BOUNDARY (INFERENCE)
- LIMITS OF EXCAVATION
- UST–REMOVED

N

APPROXIMATE SCALE
0 15 30
feet

BASE MAP REFERENCE:
SITE PLAN, FUELING SYSTEM UPGRADE AND CANOPY ADDITION, QUIK STOP MARKETS

GARLOW ASSOCIATES	REVISED EC 08/05/98 8 x 11 441–2S	REVIEWED BY RPS REVIEW DATE 10/20/98	SITE MAP UNDERGROUND STORAGE TANK REMOVAL REPORT 3130 35TH AVENUE OAKLAND, CALIFORNIA	FIGURE 2 PROJECT Quik Stop No. 51

APPENDIX A

Certificate of Beneficial Reuse

FORWARD
INCORPORATED

P.O. Box 6336
1145 W. Charter Way • Stockton, CA 92506
(209) 466-4482 • (800) 204-4242 • FAX (209) 466-1067

Sent Via Fax (510) 637-1564

July 9, 1998

Quik Stop Markets
Attn.: Mr. Mike Karvelot
Post Office Box 5745
Fremont, CA 94537

RE: Certificate of Beneficial Reuse of
Petroleum Impacted Soils from
FORWARD, INC. Acceptance No. 710912
3130 35th Avenue, Oakland, California Q.S. # 57

Dear Mike:

FORWARD, INC. is pleased to confirm the beneficial reuse of 973.13 tons of the petroleum impacted soil from the referenced site. The material was received at our facility on 6/16/98, 6/17/98, 6/18/98, 6/19/98, 6/20/98, and 6/22/98 and was utilized as Beneficial Reuse.

Acceptance of this material was based upon the information provided on the *FORWARD, INC.* Waste Profile Form and associated materials submitted by Quik Stop Market (Generator) and is subject to the "Terms and Conditions" agreed to and signed by the Generator on the *FORWARD, INC.* Waste Profile Form.

Thank you for the opportunity to be of service. Should you have any questions, please do not hesitate to contact me or Customer Service at (800)204-4242.

Sincerely,

FORWARD, INC.

Brad Bonner

Brad Bonner
Sales Manager

BB/xh

F:\FORWARD\TEMPLATES\CERTIFICATE OF REMEDIATION.DOT

APPENDIX B

Uniform Hazardous Waste Manifest

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CALA000145889 Manifest Document No. 5325 31 2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MIKE STOP MARKETS
4567 ENTERPRISE ST
FREMONT, CA
4. Generator's Phone (510) 657 8500

A. State Manifest Document Number 95788253
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone (510) 235-1395
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (415)324-1638

5. Transporter 1 Company Name: Ecology Control Industries
6. US EPA ID Number: CAD982030173

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Romic Chemical Corp.
2081 Bay Road
East Palo Alto, CA 94303
10. US EPA ID Number: CAD009452657

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. R.Q. Waste Gasoline Mixture, 3, UN 1203 PG II ERG #27 (D001 D018)	001	TT	00400	G	State 322 EPA/Other D001
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
Petroleum Hydrocarbon 70 - 100%
Water 0 - 30%
Profile 205773 t

K. Handling Codes for Wastes Listed Above
a. 01
b.
c.
d.

15. Special Handling Instructions and Additional Information
ERG 31 Mike
24 Hr. Contact Name. KARVELOT & Phone 510-657-8500

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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity 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.

Printed/Typed Name	Signature	Month	Day	Year
FOR MIKE KARVELOT BY Kerry Brenton		06	17	98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Fred Tensmeyer	Fred Tensmeyer	06	17	98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

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	Signature	Month	Day	Year
DOMINIC LUNDAG		06	22	98

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS. (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (1/95)
EPA 8700—22

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	CAL000045889
Manifest Document No.	7 2 5 0 1
2. Page 1 of 1	
Information in the shaded areas is not required by Federal law.	
A. State Manifest Document Number	96844304
3. Generator's Name and Mailing Address	QUIK STOP MARKETS 4567 ENTERPRIZE ST FREMONT CA
4. Generator's Phone	510) 657-8500
B. State Generator's ID	[illegible]
5. Transporter 1 Company Name	Trident Truck Line
6. US EPA ID Number	CAD982484370
C. State Transporter's ID	[illegible]
D. Transporter's Phone	(510) [illegible]
7. Transporter 2 Company Name	
8. US EPA ID Number	
E. State Transporter's ID	
F. Transporter's Phone	
9. Designated Facility Name and Site Address	Erickson, Inc. 255 Parr Blvd. Richmond, CA. 94801
10. US EPA ID Number	CAD009466392
G. State Facility's ID	[illegible]
H. Facility's Phone	(510)235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank 27	002	TP	20000	P	State 512 / EPA/Other NONE
b. ST ST					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: [illegible] Empty Storage Tanks [illegible] Tanks have been inerted with [illegible]

K. Handling Codes for Wastes Listed Above: [illegible]

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name Mike Karvelot & Phone 510-657-8500

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.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity 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.

Printed/Typed Name	Signature	Month	Day	Year
Mike Karvelot	M. K[signature]	06	18	98

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Bob Senna	BC	06	18	98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

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	Signature	Month	Day	Year

GENERATOR / TRANSPORTER / FACILITY

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

3 44 14

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

Yellow: GENERATOR RETAINS

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

Entech Analytical Labs, Inc.

CA ELAP# 2224

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

Attn: Rich Garlow
On-Site Technologies
20949 Cabot Blvd.
Hayward, CA 94545

Date:	6/18/98
Date Received:	6/17/98
Date Analyzed:	6/18/98
Project:	441-2.1
P.O.#:	Quik Stop 51
Sampled By:	Client

Certified Analytical Report

Soil Sample Analysis:

Test	*QSST-1,2,3,4*	*Units*	*PQL*	*EPA Method #*
Sample Matrix	Soil			
Sample Date	6/17/98			
Sample Time	8:30			
Lab #	E11646			
DF-Gas/BTEX	25			
TPH-Gas	**100**	mg/kg	1.0 mg/kg	8015M
MTBE	**1.5**	mg/kg	0.05 mg/kg	8020
Benzene	**0.71**	mg/kg	0.005 mg/kg	8020
Toluene	**ND**	mg/kg	0.005 mg/kg	8020
Ethyl Benzene	**0.70**	mg/kg	0.005 mg/kg	8020
Xylenes	**1.7**	mg/kg	0.005 mg/kg	8020

1. DLR=DF x PQL (DF=1 unless noted)
2. Analysis performed by Entech Analytical Labs, Inc. (CAELAP #2224)

Michael N. Golden, Lab Director

DF=Dilution Factor
DLR=Detection Reporting Limit

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980618
Matrix: Soil
Units: ug/kg

Date Analyzed: 06/18/98
Quality Control Sample: E11399

PARAMETER	Method #	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	**SP % R**	SPD ug/kg	**SPD %R**	RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<5.0	80	ND	72	**90**	72	**90**	0.3	25	76-117
Toluene	8020	<5.0	80	ND	71	**88**	70	**88**	0.8	25	76-117
Ethyl Benzene	8020	<5.0	80	ND	72	**90**	71	**89**	0.6	25	74-119
Xylenes	8020	<5.0	240	ND	216	**90**	214	**89**	0.8	25	75-120
Gasoline	8015	<1000.00	1000	ND	1110	**111**	1010	**101**	9.4	25	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

To: EnTech
(Laboratory Name)

Report Attn: Rich Garlow

CHAIN OF CUSTODY RECORD

ON-SITE TECHNOLOGIES, INC.
20949 Cabot Boulevard
Hayward, California 94545
(510) 784-1384 telephone
(510) 784-1375 facsimile

Project No.: 441-2.1

Site Name & Address: Quik Stop 51
3330 35th Ave
Oakland, Ca

SAMPLERS: (signature)

P.O. Number: Bill Quik Stop

I.D. NO.	Date Sampled	Time Sampled	Soil	Water	SAMPLING LOCATION	No. Of Containers	ANALYSES REQUESTED: TPH (gasoline) and BTEX	TPH (diesel)	MTBE	EPA Method 8010				
QST-1,2,3,4	6/17/98	830	✓		SLIT Trench. Composite	4	X		X		E1646			

TURNAROUND TIME FOR ANALYSES
- ☑ 24 HR.
- ☐ 48 HR.
- ☐ Standard
- ☐ Other _____

REMARKS
Fax results to (408) 452-0981

PUSH

Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
Relinquished By: (signature)	Date/Time 6/17/98 10:25	Received By: (signature)	Date/Time 10:30a 6/17/98
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time

The following MUST be completed by the laboratory accepting samples for analyses. Please check YES or NO:

1. Have all samples received been stored on ice? ☑ Yes ☐ No
2. Will samples remain refrigerated until analyzed? ☑ Yes ☐ No
3. Did any samples received for analyses have head space? ☐ Yes ☐ No NA
4. Were samples in appropriate containers and properly packaged? ☑ Yes ☐ No
5. Chain of Custody seal intact? ☐ Yes ☐ No

NTRAN — Signature; _____ Title; 6/17/98 Date

Entech Analytical Labs, Inc.

CA ELAP# 2224

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

On-Site Technologies
20949 Cabot Boulevard
Hayward, CA 94545
Attn: Rich Garlow

Date: 6/19/98
Date Received: 6/18/98
Project: 441-2.1
PO #: Invoice Quick Stop
Sampled By: Client

Certified Analytical Report

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

Sample ID	T1-1			T1-2			T1-3				
Sample Date	6/18/98			6/18/98			6/18/98				
Sample Time	11:30			11:30			11:30				
Lab #	E11756			E11757			E11758				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	6/18/98			6/18/98			6/18/98				
TPH-Gas	**360**	125	125	**170**	31	31	**1000**	125	125	1	8015M
MTBE	**8**	125	6.25	**2.6**	31	1.55	**12**	125	6.25	0.05	8020
Benzene	**0.9**	125	0.625	**0.35**	31	0.155	**2.1**	125	0.625	0.005	8020
Toluene	**ND**	125	0.625	**ND**	31	0.155	**ND**	125	0.625	0.005	8020
Ethyl Benzene	**3.9**	125	0.625	**2.2**	31	0.155	**15**	125	0.625	0.005	8020
Xylenes	**20**	125	0.625	**14**	31	0.155	**20**	125	0.625	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)

M. Golden, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2224

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

On-Site Technologies
20949 Cabot Boulevard
Hayward, CA 94545
Attn: Rich Garlow

Date: 6/19/98
Date Received: 6/18/98
Project: 441-2.1
PO #: Invoice Quick Stop
Sampled By: Client

Certified Analytical Report

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

Sample ID	T2-1			T2-2			T2-3				
Sample Depth											
Sample Date	6/18/98			6/18/98			6/18/98				
Sample Time	11:30			11:30			11:30				
Lab #	E11759			E11760			E11761				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	6/18/98			6/18/98			6/18/98				
TPH-Gas	**530**	250	250	**1100**	62	62	**430**	125	125	1	8015M
MTBE	**13**	250	12.5	**7**	62	3.1	**ND**	125	6.25	0.05	8020
Benzene	**5.2**	250	1.25	**1.8**	62	0.31	**1**	125	0.625	0.005	8020
Toluene	**ND**	250	1.25	**ND**	62	0.31	**ND**	125	0.625	0.005	8020
Ethyl Benzene	**7.5**	250	1.25	**14**	62	0.31	**4.7**	125	0.625	0.005	8020
Xylenes	**30**	250	1.25	**32**	62	0.31	**6.7**	125	0.625	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)

M. Golden, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980618
Matrix: Soil
Units: ug/kg

Date Analyzed: 06/18/98
Quality Control Sample: E11399

PARAMETER	Method #	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	**SP % R**	SPD ug/kg	**SPD %R**	RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<5.0	80	ND	72	**90**	72	**90**	0.3	25	76-117
Toluene	8020	<5.0	80	ND	71	**88**	70	**88**	0.8	25	76-117
Ethyl Benzene	8020	<5.0	80	ND	72	**90**	71	**89**	0.6	25	74-119
Xylenes	8020	<5.0	240	ND	216	**90**	214	**89**	0.8	25	75-120
Gasoline	8015	<1000.00	1000	ND	1110	**111**	1010	**101**	9.4	25	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

To: EnTech
(Laboratory Name)

Report Attn: Rich Gardner

CHAIN OF CUSTODY RECORD

ON-SITE TECHNOLOGIES, INC.
20949 Cabot Boulevard
Hayward, California 94545
(510) 784-1384 telephone
(510) 784-1375 facsimile

Project No.: 441-2-1

Site Name & Address: Quick Stop #51
3130 35th Ave
Oakland Ca

SAMPLERS: (signature)

P.O. Number: Bill Quick Stop

I.D. NO.	Date Sampled	Time Sampled	Soil	Water	SAMPLING LOCATION	No. Of Containers	TPH (gasoline) and BTEX	TPH (diesel)	MTBE	EPA Method 8010	Fuel Leak				REMARKS
T1-1	6/18/98	11:30	✓		fill end E11756	1	X		X						
T1-2			✓		opposite end E11757	1	X		X						
T1-3			✓		E11758	1	X		X						
T2-1			✓		fill end E11759	1	X		X						
T2-2			✓		opposite end E11760	1	X		X						
T2-3			✓		E11761	1	X		X						

ANALYSES REQUESTED

TURNAROUND TIME FOR ANALYSES
- ☑ 24 HR.
- ☐ 48 HR.
- ☐ Standard
- ☐ Other _____

RUSH

Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
Relinquished By: (signature)	Date/Time 6/18/98 1252	Received By: (signature) MMD	Date/Time 6/18 1p
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time

The following MUST be completed by the laboratory accepting samples for analyses. Please check YES or NO:

1. Have all samples received been stored on ice? ☑ Yes ☐ No
2. Will samples remain refrigerated until analyzed? ☑ Yes ☐ No
3. Did any samples received for analyses have head space? ☐ Yes ☐ No NA
4. Were samples in appropriate containers and properly packaged? ☑ Yes ☐ No
5. Chain of Custody seal intact? ☑ Yes ☐ No

MMD — Signature | Title | 6/18/98 — Date

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Entech Analytical Labs, Inc.

CA ELAP# 2224

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

On-Site Technologies
20949 Cabot Boulevard
Hayward, CA 94545
Attn: Rich Garlow

Date: 6/26/98
Date Received: 6/19/98
Project: 441-2.1
PO #: Quik Stop
Sampled By: Client

Certified Analytical Report

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

Sample ID	T1-1 @ 16'			T1-2 @ 16'			T2-1 @ 16'				
Sample Date	6/19/98			6/19/98			6/19/98				
Sample Time	9:00			9:00			9:00				
Lab #	E11853			E11854			E11855				
	Result	DF	DLR	Result	DF	DLR	Result	DF	DLR	PQL	Method
Analysis Date	6/23/98			6/23/98			6/23/98				
TPH-Gas	**350**	62	62	**360**	62	62	**240**	62	62	1	8015M
MTBE	**5.5**	62	3.1	**ND**	62	3.1	**5.0**	62	3.1	0.05	8020
Benzene	**1.1**	62	0.31	**0.60**	62	0.31	**1.5**	62	0.31	0.005	8020
Toluene	**ND**	62	0.31	**ND**	62	0.31	**ND**	62	0.31	0.005	8020
Ethyl Benzene	**3.3**	62	0.31	**3.3**	62	0.31	**4.0**	62	0.31	0.005	8020
Xylenes	**17**	62	0.31	**15**	62	0.31	**12**	62	0.31	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)

M. Golden, Lab Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2224

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

On-Site Technologies
20949 Cabot Boulevard
Hayward, CA 94545
Attn: Rich Garlow

Date: 6/26/98
Date Received: 6/19/98
Project: 441-2.1
PO #: Quik Stop
Sampled By: Client

Certified Analytical Report

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

Sample ID	T2-2 @ 16'										
Sample Date	6/19/98										
Sample Time	9:00										
Lab #	E11856										
	Result	DF	DLR							PQL	Method
Analysis Date	6/24/98										
TPH-Gas	**2.4**	1.0	1							1	8015M
MTBE	**0.13**	1.0	0.05							0.05	8020
Benzene	**0.017**	1.0	0.005							0.005	8020
Toluene	**ND**	1.0	0.005							0.005	8020
Ethyl Benzene	**0.041**	1.0	0.005							0.005	8020
Xylenes	**0.049**	1.0	0.005							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)

M. Golden, Lab Director

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980623
Matrix: Soil
Units: ug/kg

Date Analyzed: 06/23/98
Quality Control Sample: E11811

PARAMETER	Method #	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	**SP % R**	SPD ug/kg	**SPD %R**	RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<5.0	80	ND	78	**98**	81	**102**	3.9	25	76-117
Toluene	8020	<5.0	80	ND	79	**99**	83	**103**	3.9	25	76-117
Ethyl Benzene	8020	<5.0	80	ND	82	**102**	86	**107**	5.0	25	74-119
Xylenes	8020	<5.0	240	ND	242	**101**	255	**106**	5.1	25	75-120
Gasoline	8015	<1000.00	1000	ND	1090	**109**	1020	**102**	6.6	25	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

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

QC Batch #: GBG4980624
Matrix: Soil
Units: ug/kg

Date Analyzed: 06/24/98
Quality Control Sample: E11905

PARAMETER	Method #	MB ug/kg	SA ug/kg	SR ug/kg	SP ug/kg	**SP % R**	SPD ug/kg	**SPD %R**	RPD	QC LIMITS RPD	QC LIMITS %R
Benzene	8020	<5.0	80	ND	83	**104**	100	**125**	18.3	25	76-117
Toluene	8020	<5.0	80	ND	84	**105**	84	**105**	0.3	25	76-117
Ethyl Benzene	8020	<5.0	80	ND	84	**105**	82	**102**	2.7	25	74-119
Xylenes	8020	<5.0	240	ND	252	**105**	239	**100**	5.2	25	75-120
Gasoline	8015	<1000.00	1000	ND	1210	**121**	1120	**112**	7.7	25	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

To: EnTech
(Laboratory Name)

Report Attn: Rich Lowlow

CHAIN OF CUSTODY RECORD

ON-SITE TECHNOLOGIES, INC.
20949 Cabot Boulevard
Hayward, California 94545
(510) 784-1384 telephone
(510) 784-1375 facsimile

Project No.: 441-2.1

Site Name & Address: Quik Stop
3130 35TH Ave
Oakland Ca

SAMPLERS : (signature)

P.O. Number: Bill Quik Stop

TURNAROUND TIME FOR ANALYSES
- ☐ 24 HR.
- ☐ 48 HR.
- ☑ Standard
- ☐ Other _____

I.D. NO.	Date Sampled	Time Sampled	Soil	Water	SAMPLING LOCATION	No. Of Containers	TPH (gasoline) and BTEX	TPH (diesel)	MTBE	EPA Method 8010				REMARKS
T1-1@16'	6/19/98	9:00	✓		Fill end	1	X		X		611853			Fax results to
T1-2@16'	"	9:00	✓		opposite end	1	X		X		611854			(408) 452-0981
T2-1@16'	"	9:00	✓		Fill end	1	X		X		611855			and to
T2-2@16'	"	9:00	✓		Opposite end	1	X		X		611856			Michael Karvelas at Quik Stop

ANALYSES REQUESTED

Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
Relinquished By: (signature)	Date/Time 6/19/98 11:19	Received By: (signature)	Date/Time 6/19/98 11:20 Am
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time

The following MUST be completed by the laboratory accepting samples for analyses. Please check YES or NO:

1. Have all samples received been stored on ice? ☑ Yes ☐ No
2. Will samples remain refrigerated until analyzed? ☑ Yes ☐ No
3. Did any samples received for analyses have head space? ☐ Yes ☐ No NA
4. Were samples in appropriate containers and properly packaged? ☑ Yes ☐ No
5. Chain of Custody seal intact? ☑ Yes ☐ No

VMLAO — Signature | _____ Title | 6/19/98 Date

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APPENDIX E

Transmittal Letter

Quik Stop Markets, Inc.

4567 Enterprise Street • Fremont, CA 94538 • (510) 657-8500 • Fax: (510) 657-1544

November 4, 1998

Mr. Leroy Griffin
Hazardous Materials Supervisor
City of Oakland Fire Services Agency
505 14th Street, 7th Floor
Oakland, CA 94612

Re: **Underground Storage Tank Removal Report**
Quik Stop Market #51
3130 35th Avenue, Oakland, California 94619

Dear Mr. Griffin:

Enclosed please find the Underground Storage Tank Removal Report prepared by Garlow Associates for the above-referenced facility.

I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Sincerely,
QUIK STOP MARKETS, INC.

Mike Karvelot
Director of Environmental Affairs

Enc.