aqua science engineers inc.

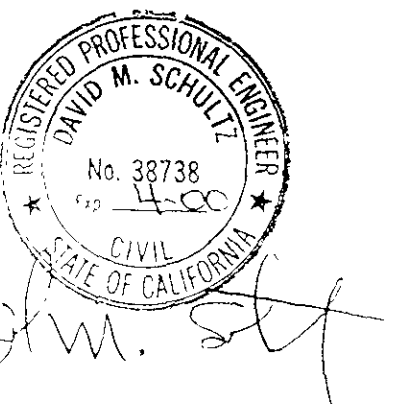
99 JAN 22 PM 2:59

January 8, 1999

PROJECT REPORT
UNDERGROUND STORAGE TANK REMOVAL diesel tank
(ASE JOB NO. 3190)
for
Peerless Stages, Inc.
2021 Brush Street
Oakland, California 94612

Prepared for:

Peerless Stages, Inc.
Mr. Alex Gaeta
2040 Castro Street
Oakland, California 94612



Submitted by:

Aqua Science Engineers
208 West El Pintado
Danville, CA 94526
(925) 820-9391

TABLE OF CONTENTS

FIGURES

APPENDICES

1.0 INTRODUCTION

This report documents the removal, disposal and related activities of the underground storage tank (UST) closure performed at Peerless Stages, 2021 Brush Street in Oakland, California (*Figure 1*). The following UST was removed from the site (*Figure 2*):

QUANTITY	TYPE AND SIZE UST	FORMER CONTENTS
1	Steel, 10,000 gallon	Diesel

The scope of services provided by Aqua Science Engineers, Inc. (ASE) were conducted on behalf of the property owner, Mr. Alex Gaeta, in accordance with ASE proposal No. 98-202 and included the following tasks:

- o Preparing a health and safety plan.
- o Obtaining permits from appropriate agencies.
- o Removing and disposing of the liquids in the UST.
- o Removing and disposing of the UST and piping.
- o Removing and disposing of the fuel dispensers.
- o Sampling and analyzing the soil beneath the UST, the stockpiled soil, and dispeser island.
- o Overexcavating the soil beneath the fuel dispeners.
- o Backfilling the UST excavation with clean fill.
- o Preparing this report of methods and findings.

2.0 PERMITS

Permits and approvals required to remove the UST were obtained by ASE from the City of Oakland Fire Department (OFD), Alameda County Health Care Services (ACHCS), CAL-OSHA, and the Bay Area Air Quality Management District (BAAQMD)[A].

3.0 MOBILIZATION

Field operations were conducted by trained technicians who are certified per the mandatory 40-hour safety program as specified in the OSHA Hazardous Waste Operations and Emergency Response Standard 29 CFR 1910.120). A tailgate safety meeting was conducted to review the health and safety plan. Personnel present during the UST removal activities on December 16 and 17, 1998 included ASE Senior Project Manager David

[A] Copies of permits, application forms and notification documents are in Appendix A

Allen, ASE Geologist Greg Schramm, equipment operator Doug Lighty, Scott Seery of the ACHCS, and Steve Craford of the OFD.

4.0 TANK EXCAVATION ACTIVITIES

Field activities began on December 16, 1998. The concrete overlying the UST was removed using a breaker attachment on the backhoe. This concrete was then transported to the Specialty Crushing facility in Emeryville, CA where it was recycled. The soil on top of and surrounding the UST was then excavated and stockpiled adjacent to the excavation for possible re-use as backfill material.

5.0 TANK PREPARATION

On December 16, 1998, the UST was triple rinsed by ASE staff. 300 gallons of rinsate was pumped from the UST and transported by Clearwater Environmental under State manifest No. 98651263[B]. On December 17th the UST was then made inert through the addition of 600 pounds of dry ice. Steve Craford of the OFD witnessed the UST inerting operation. The lower explosive limit (LEL) of the UST's atmosphere was measured and found to be within the allowable range; therefore, approval for the UST removal was granted by Mr. Craford.

6.0 TANK AND DISPENSER REMOVAL OPERATIONS

6.1 UST Removal

On December 17th the UST was removed from the excavation using a crane, hand cleaned, and inspected by ASE and Mr. Seery. Upon inspection of the UST, it was noted that no obvious integrity failures were present. After the inspection was completed, the UST was loaded onto a Trident Trucklines transport vehicle and transported to the ECI facility in Richmond, California under hazardous waste manifest No. 98027218[B,C].

6.2 Dispensers Removal

Two diesel dispensers and one gasoline dispenser, were removed from the island and transported off-site by Brinker Equipment for parts' recycling on December 17th. Beneath each of the dispenser's piping, obvious soil contamination was present (stained discolored soil and hydrocarbon odors). Soil was excavated from the area below the dispensers to a depth of 5-feet bgs. The overexcavated soil was stockpiled with the soil

B See Appendix B for a copy of the manifest

C See Appendix C for a copy of the Tank Disposal Certificate

surrounding the UST. Deeper excavation did not appear suitable due to the presence of a masonry wall directly adjacent to the dispenser excavation.

7.0 SOIL SAMPLE COLLECTION AND ANALYSES

On December 16, 1998, soil samples STKP-A,B,C,D were collected from the stockpiled soil removed from on top of and surrounding the UST to be analyzed on a RUSH basis to determine the stockpile's usefulness as backfill material. The soil samples were collected in brass sample tubes, covered on each end with Teflon tape and plastic end caps, labeled, and placed on ice. Samples STKP-A,B,C,D were then transported to McCampbell Analytical, Inc. of Pacheco, California (ELAP #1644) under chain of custody. After compositing by the laboratory, the soil sample was analyzed as composite sample STKP-(A-D).

On December 17, 1998, under the direction and with the involvement of Mr. Seery, ASE collected two soil samples (TB-W-13' & TB-E-13') from the bottom of the former excavation. These soil samples were collected in brass sample tubes, covered on each end with Teflon tape and plastic end caps, labeled, and placed on ice. Later in the afternoon, ASE collected two soil samples from beneath the dispenser island excavation (DISP-OEX-S-5' and DISP-OEX-N-5'). These soil samples were collected in brass sample tubes, covered on each end with Teflon tape and plastic end caps, labeled, and placed on ice. All of the December 17th samples were then transported to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under chain of custody for analyses on 5-day turnaround times.

All of the above-referenced samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015M, TPH-D by EPA Method 8015M, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by EPA Method 8020, and total lead by EPA Method 3050A/7420A. The stockpiled soil sample was subsequently analyzed for waste extraction test (WET) lead by EPA Method 3050A/7420A[D]. The analytical results are tabulated below in Table One.

[D] See Appendix D for a copy of the laboratory data sheets.

Table One
SOIL SAMPLE RESULTS
All Results in Parts Per Million

Sample Name, depth	TPH Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
TB-W-13'	< 1.0[1]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
TB-E-13'	< 1.0[2]	< 0.005	< 0.005	< 0.005	< 0.005	**0.064**
STKP-(A-D)	**510**	< 0.01	**0.063**	**0.27**	**0.32**	< 0.2
DISP-OEX-S-5'	**26.0**	< 0.005	< 0.005	< 0.005	< 0.005	**0.26**
DISP-OEX-N-5'	< 10.0[3]	< 0.005	**0.048**	**0.15**	**0.62**	**0.011**
EPA METHOD	8015M	8020	8020	8020	8020	8020

Sample Name	TPH Diesel	TTLC Lead	STLC Lead
TB-W-13'	5.1*	< 5.0	---
TB-E-13'	30.0*	< 5.0	---
STKP-(A-D)	2,900	130	**4.9**
DISP-OEX-S-5'	26.0**	< 5.0	---
DISP-OEX-N-5'	3,800*	< 5.0	---
EPA METHOD	8015M	7420A	7420A

Notes:
1. Hydrocarbons found are uncharacteristic of gasoline profile. Quantified value 1.1 ppm
2. Hydrocarbons found are uncharacteristic of gasoline profile. Quantified value 12 ppm
3. Hydrocarbons found are uncharacteristic of gasoline profile. Quantified value 450 ppm
* Hydrocarbons reported are in the early diesel range and do not match diesel standard
** Hydrocarbon report has characteristic of weathered/aged diesel
Detectable concentrations are in bold.

8.0 EXCAVATION BACKFILLING

The UST excavation was backfilled and compacted by ASE on December 17, 1998 using on-site soil left over from the gasoline UST removal and clean imported fill material. The dispenser excavation remains open pending possible future overexcavation and re-sampling.

9.0 STOCKPILED SOIL

ASE estimates that theree exists approximately 200 tons of contaminated soil at the site. Based on the analytical results of this soil, ASE believes the soil is suitable for offsite disposal at a local non-hazardous waste landfill. As of the date of this report, ASE has not been directed to handle the offhaul of the contaminated soil.

10.0 CONCLUSIONS AND RECOMMENDATIONS

- One (1) 10,000 gallon Diesel underground storage tank was removed from 2021 Brush Street in Oakland, California and disposed of off-site.

- Elevated concentrations of TPH-D exist in the area of the former dispensers. ASE recommends overexcavation and re-sampling of this area in an attempt to remove hydrocarbon impacted soil to below regulatory agency action levels, if possible.

- Elevated concentrations of TPH-D, TPH-G, total lead and WET lead exist in the stockpiled soil. ASE believes the soil is suitable for offsite disposal at a local non-hazardous waste landfill.

11.0 REPORT LIMITATIONS

The results of this project represent conditions at the time and specific location at which samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former UST and associated piping at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of independent CA-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

ASE appreciates the opportunity to assist with the environmental needs of this property. Should questions or comments arise, please feel free to give us a call at (925) 820-9391.

Respectfully submitted,

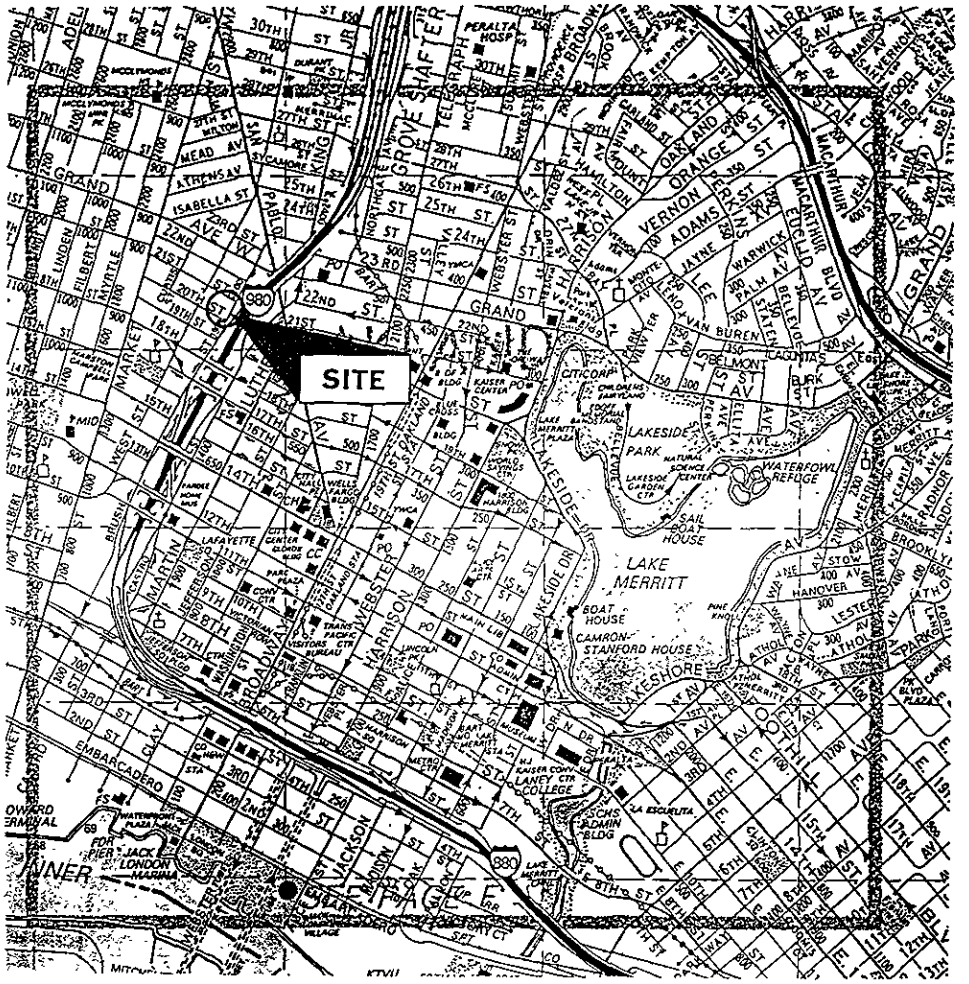
AQUA SCIENCE ENGINEERS, INC.

David Allen, R.E.A.
Senior Project Manager

Enclosures: Figure 1 - Site Location Map
Figure 2 - Site Plan
Appendices A - D

copies to. Mr. Alex Gaeta
Mr. Scott Seery, ACHCS
Mr. Steve Craford, OFD

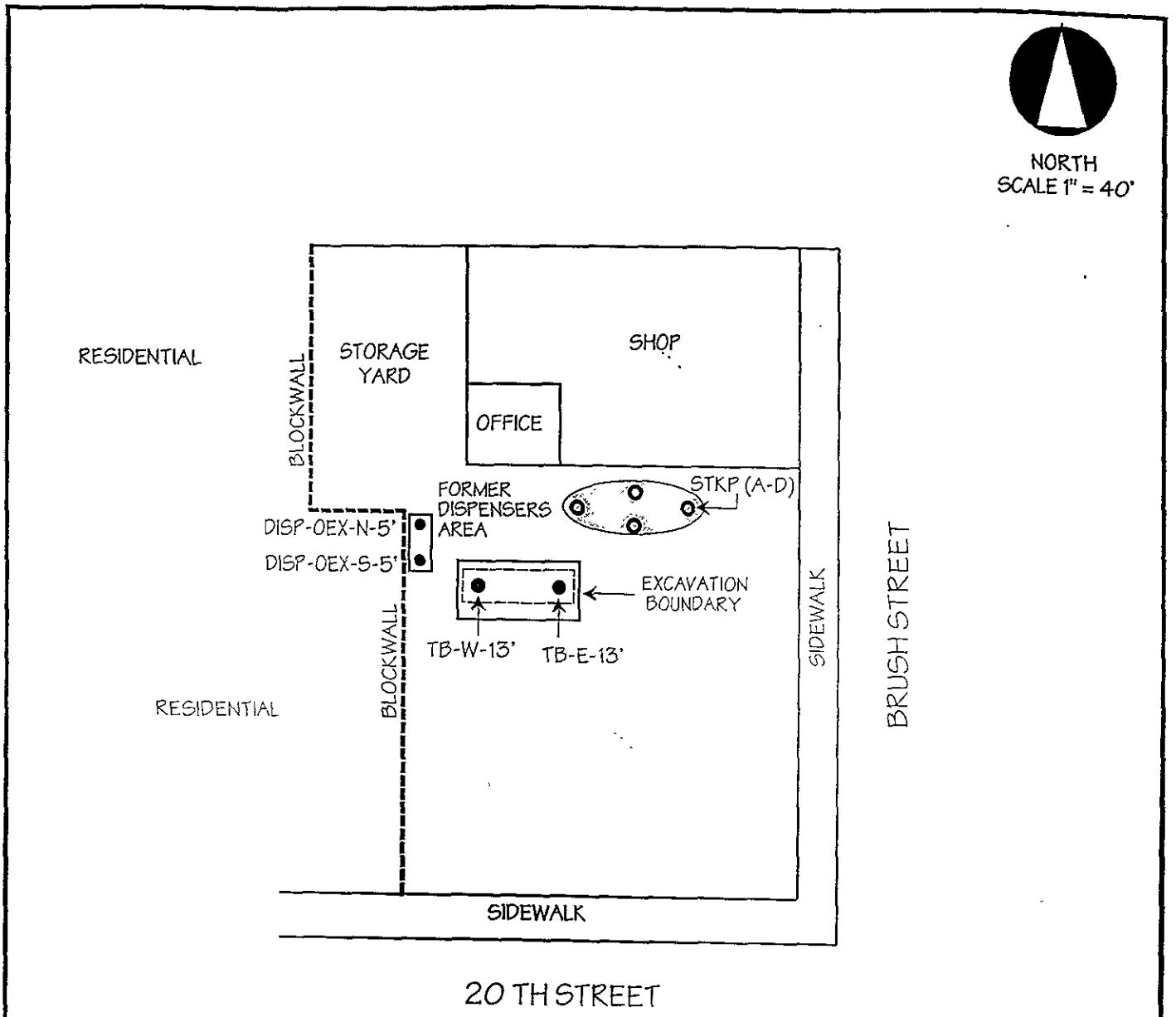
FIGURES



LOCATION MAP

Peerless Stages, Inc.
2021 Brush Street
Oakland, California

Aqua Science Engineers | Figure 1



SITE MAP

[illegible] Stages, Inc.
1021 Brush Street
Oakland, California

[illegible] SCIENCE ENGINEERS | Figure 2

APPENDIX A

PERMITS

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
ENVIRONMENTAL HEALTH SERVICES
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE # 510/567-6700

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/destruction.

One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any changes or alterations of these plans and specifications must be submitted to this this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 72 hours prior to the following required inspections:

X Removal of Tank(s) and Piping
X Sampling
X Final Inspection - Subsequent visit as needed

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

"THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS"

Contact Specialist: Pamela J. Evans 567-6700

3/19/98

UNDERGROUND TANK CLOSURE PLAN

* * * Complete plan according to attached instructions * * *

1. Name of Business PEERLESS STAGES, INC.

   Business Owner or Contact Person (PRINT) ALEX GAETA

2. Site Address 2021 BRUSH STREET

   City OAKLAND Zip 94612 Phone 510.444.1373

3. Mailing Address 2040 CASTRO STREET

   City OAKLAND Zip 94612 Phone 444-29[illegible]

4. Property Owner ALEX GAETA

   Business Name (if applicable) PEERLESS STAGES, INC

   Address 2021 BRUSH STREET

   City, State OAKLAND Zip 94612

   Owner name under which tank is listed

   ALEX GAETA STAGES, INC.

   Facility ID under which tank is permitted CAL000066[illegible]

   or CAL000060794

rev. 11/01/96
tank closure plan

City Of Oakland
FIRE PREVENTION
BUREAU
250 Frank Ogawa Plaza, Ste. 3341
Oakland California 94612-2032
510-238-3851

Permit To Excavate And Install, Repair, Or Remove Inflammable Liquid Tanks

Oakland, California December 17, 1998

Tank Permit Number: 200-98

Permission Is Hereby Granted To:

Remove diesel **Tank And Excavate Commencing:** **Feet Inside:** property **Line.**

On The: west side of Brush St., 100 feet south of 21st St.

Site Address: 2021 Brush St. **Present Storage:** 10,000 gal.

Owner: Peerless Stages **Address:** 2040 Castro St., 94612 **Phone:** 444-2900

Applicant: Aqua Science Engineers, Inc. **Address:** 208 West El Pintado Rd., Danville, 94526 **Phone:** (925) 820-9391

Dimensions Of Street (sidewalk) Surface To Be Disturbed : **X** **No. Of Tanks** 1 **Capacity** 10,000 **Gallons, Each**

Remarks

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Type Of Inspection:

Inspected And Passed On:

By:

Approved: JERRY E. BLUEFORD
Fire Marshal

Inspection Fee Paid. $ 150.00

Received By: D Clemons

UST/AST Installations/modifications:

Pressure Test: Inspected By: **Date:**

Primary Piping Test: Inspected By: **Date:**

Secondary Containment & Sump Testing:

Inspected By: **Date:**

Final: Inspected By: **Date:**

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

State of California
Department of Industrial Relations
Division of Occupatonal Safety & Health

ACTIVITY NOTIFICATION FORM

Buildings Structures Scaffolding Falsework Demolition Trenches Excavations

Company Name: TOVA SCIENCE ENGINEERS Field Phone: 510.220.1004

Permit Number: 98-900642 Office Phone: 925-820-9391

Specific Activity Location: 2021 BRUSH ST. Number of Employees: 2

Nearest Major Cross Street: 21 ST Starting Date: 12/16

City: OAKLAND Anticipated Completion Date: 12/17

County: ALAMEDA High Voltage Lines in Proximity? No X Yes ___

INSTRUCTIONS: The appropriate item(s) must be completed and signed by a person knowledgeable about the project for each activity covered by a permit. Please fill in or check off the blanks where appropriate.

Construction of: Building ___ Structure ___ **Type:** Steel Frame ___ Tiered ___ Concrete ___

Tilt-up ___ Wood Frame ___ Liftslab ___ Precast ___ Slip Form ___ Depth ___ No. of Stories ___

Description: ___

(See 8 CCR 1709-30: Appendix A Plate A-2-a & b.)

Scaffolding: Height ___ Metal ___ Wood ___ **Wood over 60 Feet** ___ Metal over 125 Feet ___

Metal>125 Feet or Wood>60 Feet requires design by California **Registered Civil Engineer** & Plans at Site.(See 8 CCR 1644(c)(7))

Description: ___

Falsework/Vertical Shoring: Maximum Height ___ **Maximum Span** ___ Material ___

Description: ___

(See 8 CCR 1717)

Demolition of: Building ___ Structure ___ Height ___ No of Stories ___ Type: Steel Frame ___

Wood Frame ___ Concrete ___ Demolition Ball ___ Clam ___ Explosives ___

Loader/Tractors ___ Other ___

(See 8 CCR 1734-37)

Trenches/Excavation: Depth Range(Min/Max)* 7 / 15 Width Range(Min/Max) 3 / 12

Ground Protection Method* ___ Slope 1:1 Trench Shield ___

Underground Services Alert Notified ___ (No. 811 or 800 422-4133)

Soil Analysis to be done? ___ If No, You **Must** Slope 1.5:1

Description: UST REMOVAL

(See 8 CCR 1504, 1540-1547)

* Ground protection methods for excavations deeper than 20 feet must be designed by a Registered Professional Engineer See 8 CCR 1541.1, Appendix F

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415).771-6000

REGULATION 8, RULE 40 NOTIFICATION FORM

Check √ ☒ Removal or Replacement of Tanks
☐ Excavation of Contaminated Soil

SITE INFORMATION

Site Address 2021 BUSH STREET

City, State OAKLAND CA Zip 94612

Owner Name ALEX GAETA

Specific location of project IN YARD

Tank Removal

Scheduled startup date 12/16/98

Vapors removed by:

☒ Water wash

☒ Vapor freeing (CO^2)

☐ Ventilation

Indicate below if an A/C was obtained for tank replacement:

Yes_____ No ✓ If yes, A/C or P/O #_____

Contaminated Soil Excavation

Scheduled Startup Date_____

Stockpiles will be covered? Yes_____ No_____

Indicate below the method used to comply with Regulation 8, Rule 40, Section 402.4:

Check (√) 8-40-301 ☐ 8-40-302 ☐ (permit required)

A/C or P/O #_____

A/C = Authority to Construct P/O = Permit to Operate

What other public agency have you notified (e.g., Fire District, Hazardous Materials Department, City or County)?

Agency OAKLAND F.D. Contact STEVE CRAFORD Phone # (510) 238-3938

CONTRACTOR INFORMATION

BAAQMD #

Name AQUA SCIENCE ENGINEERS | Contact DAVE ALLEN

Address 208 W. EL PINTADO RD | Phone (925) 820-9391

City, State, Zip DANVILLE CA 94526

CONSULTANT INFORMATION (if applicable)

Name AQUA SCIENCE | Contact

Address AS ABOVE | Phone ( )

City, State, Zip

FOR OFFICE USE ONLY

Date Received Fax. | Date Postmarked

Inspector No | Date | By

Update Contact Name | Date | By

Update Contact Name | Date | By

See reverse for instructions

APPENDIX B

HAZARDOUS WASTE MANIFESTS

State of California—Environmental Protection Agency
Form Approved OMB 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 Con
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CAL000061794	5112613		

3. Generator's Name and Mailing Address
Fearless Stages, Inc
2040 CASTRO Street, OAKLAND, CA 94612
4. Generator's Phone (510 444 2400

A. State Manifest Document Number: 98651263
B. State Generator ID:
C. State Transporter's ID:
D. Transporter's Phone:
E. State Transporter's ID:
F. Transporter's Phone: (510) 797-9511
G. State Facility's ID: CAL000061794
H. Facility's Phone: (510) 797-9511

5. Transporter 1 Company Name: CLEARWATER ENVIRONMENTAL
6. US EPA ID Number: CAD009767043

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

9. Designated Facility Name and Site Address
ALVISO INDEPENDENT OIL
5002 ARCHER STREET
ALVISO, CA 95002
10. US EPA ID Number: CAL000061794

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 Numbers
a. Oily WATER Non-RCRA Hazardous Waste Liquid	001	TT	1 BBL	G	State 223 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

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

15. Special Handling Instructions and Additional Information
WEAR PPE
Emergency Contact: (510) 797-9511 Attn: Kirk Hayward
ERG # 171
Site 2021 Brush St
OAKLAND, CA

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
DAVID ALLEN for Fearless Rebel		1	12	1995

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
STERLING K STONE		1	12	1995

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy

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

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE

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

98651263

DTSC 8022A (4/97)
EPA 8700—22

...TO DTSC WITHIN 30 DAYS
To ... (916) 958-...00

State of California—Environmental Protection Agency
Form Approved OMB 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 Co
Sacramento, California

98027218

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

GENERATOR — TRANSPORTER — FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No. / Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
	CAL000096079 47499 7		

3. Generator's Name and Mailing Address
PEERLESS STAGES c/o ALEX GAETA
2040 CASTRO ST.
OAKLAND CA 94612
4. Generator's Phone (510) 444-2900

A. State Manifest Document Number: 9802721[illegible]
B. State Generator's ID:

5. Transporter 1 Company Name: TRIDENT TRUCKLINES
6. US EPA ID Number: CAD982484370
C. State Transporter's ID:
D. Transporter's Phone: (510) 783-288

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. 25222
255 PARR BLVD
RICHMOND, CA 94801
10. US EPA ID Number: CAD009466392
G. State Facility's ID:
H. Facility's Phone: 510-235-1393

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	15. Waste Number
a. WASTE EMPTY STORAGE TANK Non-RCRA hazardous waste solid	001	TP	10000	P	State 512 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Description for Materials Listed Above
QTY 1 EMPTY STORAGE TANK(S) # 25222
TANK(S) HAVE BEEN INERTED WITH
15 LBS DRY ICE PER 1000 GALLONS CAPACITY

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

15. Special Handling Instructions and Additional Information
Wear appropriate protective clothing when handling. **SITE LOCATION:** PEERLESS STAG
24 Hour Emergency Telephone Number: 510.444.2900 2021 BRUSH ST.
24 Hour Emergency Contact: ALEX GAETA OAKLAND 946 ERG 1

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
DAVID ALLEN, ASL Inc., Agent for Peerless Stages		12	19	

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
THOMAS E. BROWN				

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

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (4/97)
EPA 8700—22

Blue To GENERATOR SENDS THIS COPY TO [illegible] WITHIN 30 DAYS
P O Box 400, Sacramento CA [illegible]

APPENDIX C

TANK DISPOSAL CERTIFICATE

APPENDIX D

LABORATORY ANALYSES
and
CHAIN OF CUSTODY SHEETS

CHROMALAB, INC.

Environmental Services (SDB)

December 30, 1998 *Submission #:* 9812322

AQUA SCIENCE ENGINEERS, INC

Atten: Dave Allen

Project: PEERLESS STAGES *Project#:* 3190
Received: December 18, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: DISP-OEX-S-5'
Spl#: 222245 *Matrix:* SOIL
Sampled: December 17, 1998 *Run#:*16694 *Analyzed:* December 24, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	90	1
MTBE	N.D.	0.0050	N.D.	114	1
BENZENE	N.D.	0.0050	N.D.	108	1
TOLUENE	N.D.	0.0050	N.D.	110	1
ETHYL BENZENE	N.D.	0.0050	N.D.	106	1
XYLENES	N.D.	0.0050	N.D.	106	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

925-837-4853

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

PW V132 O:BTEXCCO
CRAIG

CHROMALAB, INC.

Environmental Services (SDB)

December 28, 1998 *Submission #:* 9812322

AQUA SCIENCE ENGINEERS, INC

Atten: Dave Allen

Project: PEERLESS STAGES *Project#:* 3190
Received: December 18, 1998

re: 4 samples for Lead analysis.
Method: *EPA 3050A/7420A*

Matrix: SOIL *Extracted:* December 21, 1998
Sampled: December 17, 1998 *Run#:* 16619 *Analyzed:* December 21, 1998

Spl#	CLIENT SPL ID	LEAD (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
222242	TB-E-13'	N.D.	5.0	N.D.	104	1
222243	TB-W-13'	N.D.	5.0	N.D.	104	1
222244	DISP-OEX-N-5'	N.D.	5.0	N.D.	104	1
222245	DISP-OEX-S-5'	N.D.	5.0	N.D.	104	1

Shafi Barekzai
Analyst

Michael Verona
Operations Manager

925-837-4853 PM 12/28

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 29, 1998 *Submission #:* 9812322

AQUA SCIENCE ENGINEERS, INC

Atten: Dave Allen

Project: PEERLESS STAGES *Project#:* 3190
Received: December 18, 1998

re: 4 samples for TPH - Diesel analysis.
Method: *EPA 8015M*

Matrix: SOIL *Extracted:* December 22, 1998
Sampled: December 17, 1998 *Run#:* 16653 *Analyzed:* December 25, 1998

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
222245	DISP-OEX-S-5'	26	1.0	N.D.	85.5	1

Note: Hydrocarbon reported has characteristics of weathered/aged Diesel.

Matrix: SOIL *Extracted:* December 22, 1998
Sampled: December 17, 1998 *Run#:* 16653 *Analyzed:* December 28, 1998

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
222243	TB-W-13'	5.1	1.0	N.D.	85.5	1

Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard.

Matrix: SOIL *Extracted:* December 22, 1998
Sampled: December 17, 1998 *Run#:* 16653 *Analyzed:* December 29, 1998

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
222242	TB-E-13'	30	1.0	N.D.	85.5	1

Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard.

222244	DISP-OEX-N-5'	3800	50	N.D.	85.5	50

Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard. Surrogate diluted out

925-837-4853 FAX 12/29

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 30, 1998 *Submission #:* 9812322

AQUA SCIENCE ENGINEERS, INC

Atten: Dave Allen

Project: PEERLESS STAGES *Project#:* 3190
Received: December 18, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: TB-E-13'
Spl#: 222242 *Matrix:* SOIL
Sampled: December 17, 1998 *Run#:*16694 *Analyzed:* December 24, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	90	1
MTBE	0.064	0.0050	N.D.	114	1
BENZENE	N.D.	0.0050	N.D.	108	1
TOLUENE	N.D.	0.0050	N.D.	110	1
ETHYL BENZENE	N.D.	0.0050	N.D.	106	1
XYLENES	N.D.	0.0050	N.D.	106	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration would equal 12mg/Kg.

Vincent Vancil
Analyst

Michael Verona
Operations Manager

925-837-4853

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

PM V132 D:BTEXOCO.
CRAIG 1

CHROMALAB, INC.

Environmental Services (SDB)

December 30, 1998 *Submission #:* 9812322

AQUA SCIENCE ENGINEERS, INC

Atten: Dave Allen

Project: PEERLESS STAGES *Project#:* 3190
Received: December 18, 1998

re: One sample for Gasoline BTEX MTBE analysis.
Method: SW846 8020A Nov 1990 / 8015Mod

Client Sample ID: TB-W-13'
Spl#: 222243 *Matrix:* SOIL
Sampled: December 17, 1998 *Run#:*16694 *Analyzed:* December 24, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.0	N.D.	90	1
MTBE	0.26	0.0050	N.D.	114	1
BENZENE	N.D.	0.0050	N.D.	108	1
TOLUENE	N.D.	0.0050	N.D.	110	1
ETHYL BENZENE	N.D.	0.0050	N.D.	106	1
XYLENES	N.D.	0.0050	N.D.	106	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration would equal 1.1mg/Kg.

for
Vincent Vancil
Analyst

for
Michael Verona
Operations Manager

925-837-4853

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

3190 BTEXQCC
CRAIG

CHROMALAB, INC.

Environmental Services (SDB)

December 30, 1998 *Submission #:* 9812322

AQUA SCIENCE ENGINEERS, INC

Atten: Dave Allen

Project: PEERLESS STAGES *Project#:* 3190
Received: December 18, 1998

re: One sample for Gasoline analysis.
Method: 8015Mod

Client Sample ID: **DISP-OEX-N-5'**
Spl#: 222244 *Matrix:* SOIL
Sampled: December 17, 1998 *Run#:*16734 *Analyzed:* December 29, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	10	N.D.	101	1

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.If quantified using Gasoline's response factor, concentration would equal 450mg/Kg.

Vincent Vancil
Analyst

Michael Verona
Operations Manager

925-837-4853

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

December 30, 1998 *Submission #:* 9812322

AQUA SCIENCE ENGINEERS, INC

Atten: Dave Allen

Project: PEERLESS STAGES *Project#:* 3190
Received: December 18, 1998

re: One sample for BTEX MTBE analysis.
Method: SW846 8020A Nov 1990

Client Sample ID: DISP-OEX-N-5'
Spl#: 222244 *Matrix:* SOIL
Sampled: December 17, 1998 *Run#:*16694 *Analyzed:* December 24, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
MTBE	0.011	0.0050	N.D.	114	1
BENZENE	N.D.	0.0050	N.D.	108	1
TOLUENE	0.048	0.0050	N.D.	110	1
ETHYL BENZENE	0.15	0.0050	N.D.	106	1
XYLENES	0.62	0.0050	N.D.	106	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096
Federal ID #68-0140157

43746

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

SUBM #: 9812322 REP: PM
CLIENT: ASE
DUE: 12/25/98
REF #:43746

PAGE 1 OF 1

SAMPLER (SIGNATURE) (PHONE NO.) 925-820-9391

PROJECT NAME PEERLESS STORES JOB NO. 3190
ADDRESS OAKLAND DATE 12/17

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS
REPORT TO:
DAVE ALLEN ASE Inc.

SAMPLE ID	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-5020)	TPH-GASOLINE (EPA 5030/8015)	TPH-DIESEL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	PURGEABLE AROMATICS (EPA 602/8020)	VOLATILE ORGANICS (EPA 624/8240)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140)	ORGANOCHLORINE HERBICIDES (EPA 8150)	FUEL OXYGENATES (EPA 8260)	Total Pb			COMPOSITE
TB-E-13'	12/17	11 [illegible]	SOIL	1	X		X												X			
TB-W-13'	12/17	11 [illegible]	SOIL	1	X		X												X			
DISP-EX-N-5'	12/17	16 30	SOIL	1	X		X												X			
DISP-EX-S-5'	12/17	16 35	SOIL	1	X		X												X			

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
(signature) (time)	(signature) 1710 (time)	(signature) (time)	(signature) (time)	5-DAY T.A.T.
D. Allen 12/18/98	P. Paredes 12/18/98			2 jars 2 tubes 5-9
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	
Company- ASE	Company-	Company-	Company-	

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc 2411 Old Crow Canyon Rd, #4 San Ramon, CA 94583	Client Project ID: #3190;	Date Sampled: 12/16/98
		Date Received: 12/16/98
	Client Contact: Dave Allen	Date Extracted: 12/16/98
	Client P.O:	Date Analyzed: 12/16/98

12/23/98

Dear Dave:

Enclosed are:

1). the results of 1 samples from your #3190; project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly.

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc	Client Project ID: #3190;	Date Sampled: 12/16/98
2411 Old Crow Canyon Rd, #4		Date Received: 12/16/98
San Ramon, CA 94583	Client Contact: Dave Allen	Date Extracted: 12/16/98
	Client P.O:	Date Analyzed: 12/16/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
00236	STKP (A-D)	S	510,g	ND<0.2	ND<0.01	0 063	0 27	0.32	96
Reporting Limit unless otherwise stated, ND means not detected above the reporting limit		W	50 ug/L	5.0	0 5	0 5	0 5	0.5	
		S	1.0 mg/kg	0.05	0 005	0 005	0 005	0.005	

[illegible] ug/L, water samples [illegible] SPLP extracts

[illegible] surrogate [illegible]

[illegible] TPH(g) chromatographic pattern [illegible] weakly weathered gasoline [illegible] range compounds (the most [illegible] significant, biologically altered gasoline [illegible] peaks present, g) strongly aged gasoline or [illegible] sample that contains greater than ~5 vol. % [illegible]

[illegible] is sole for the [illegible] is gasoline-damaged [illegible] oil range compounds having broad [illegible] ces from gasoline (?), f) [illegible] from water immiscible

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc	Client Project ID: #3190;	Date Sampled: 12/16/98
2411 Old Crow Canyon Rd, #4		Date Received: 12/16/98
San Ramon, CA 94583	Client Contact: Dave Allen	Date Extracted: 12/16/98
	Client P.O:	Date Analyzed: 12/16/98

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
00236	STKP (A-D)	S	2900,b	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* [illegible]

[illegible]

+ [illegible]

[illegible]

[illegible]

[

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc 2411 Old Crow Canyon Rd, #4 San Ramon, CA 94583	Client Project ID: #3190;	Date Sampled: 12/16/98
		Date Received: 12/16/98
	Client Contact: Dave Allen	Date Extracted: 12/16/98
	Client P.O:	Date Analyzed: 12/17/98

Lead*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
00236	STKP (A-D)	S	TTLC	130	101

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	3.0 mg/kg
	W	TTLC	0.005 mg/L
	---	STLC,TCLP	0.2 mg/L

* soil and sludge samples are reported on a dry weight basis; PQL may be raised due to matrix interference
** cases may be analysed using EPA methods 6010/7000 or other appropriate methods as listed in SW-846. For soil samples, PQL may be raised due to matrix interference
° EPA extraction methods 3550(solids,TTLC), 3510(waters), 3540(solids,TTLC), 3650(solids,TCLP), 3520(waters), 5030(soils,TCLP), 5030(waters), 3010(waters), 3050(solids,TTLC), 3550(solids,TCLP

McCAMPBELL ANALYTICAL INC.
110 Second Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Aqua Science Engineers, Inc 2411 Old Crow Canyon Rd, #4 San Ramon, CA 94583	Client Project ID: #3190;	Date Sampled: 12/16/98
		Date Received: 12/16/98
	Client Contact: Dave Allen	Date Extracted: 12/16-12/23/98
	Client P.O:	Date Analyzed: 12/17-12/24/98

Lead*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction °	Lead*	% Recovery Surrogate
00236	STKP (A-D)	S	TTLC	130	101
00236	STKP (A-D(	S	STLC	4 9	NA

Reporting Limit unless otherwise stated, ND means not detected above the reporting limit	S	TTLC	3.0 mg kg
	W	TTLC	0.005 mg/L
	---	STLC,TCLP	0.2 mg/l

* cc reported in mg kg w
* EPA method 6010/200.7, [illegible]

* 3, TCLP: 3030/3020 [illegible]
ND means not detected [illegible]
[illegible] interference
[illegible] forms greater than ~2 [illegible]
[illegible] significantly effect reported metal conc[illegible]

SP TC Preservation [illegible]
23/7 EPA [illegible]

[illegible] S [illegible] 22

[illegible] accordance with EPA

DHS Certification No. 1644

[illegible] Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 925-798-1620 Fax: 925-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 12/16/98 Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#97138)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
TPH (gas)	0.000	1.916	2.116	2.03	94	104	9.9
Benzene	0.000	0.192	0.186	0.2	96	93	3.2
Toluene	0.000	0.194	0.194	0.2	97	97	0.0
Ethylbenzene	0.000	0.186	0.190	0.2	93	95	2.1
Xylenes	0.000	0.540	0.558	0.6	90	93	3.3
TPH(diesel)	0	309	314	300	103	105	1.5
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 925-798-1620 Fax: 925-798-1622

QC REPORT FOR ICP and/or AA METALS

Date: 12/17/98-12/18/98 Matrix: SOIL

Extraction: TTLC

Analyte	Concentration (mg/kg,mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	5.10	5.00	5.0	102	100	1.9
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	0.0	5.17	5.14	5.0	103	103	0.8
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / Amount Spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 925-798-1620 Fax: 925-798-1622

QC REPORT FOR ICP and/or AA METALS

Date: 12/17/98-12/18/98 Matrix: SOIL

Extraction: STLC

Analyte	Concentration (mg/kg, mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	**0.00**	**5.16**	**5.09**	**5.0**	**103**	**102**	**1.3**

% Rec. = (MS - Sample) / Amount Spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

13347 X ASE 45

CHAIN OF CUSTODY RECORD

MCCAMPBELL ANALYTICAL INC.
AVENUE SOUTH, #D7
CO, CA 94553-5560
Telephone: Fax: (925) 798-1622

TURN AROUND TIME: ☒ RUSH ☐ 24 HOUR ☐ 48 HOUR ☐ 5 DAY

Report To: Bill To: ARCA SCIENCE
Company:

Tele: (925) Fax: (925) 837-4853
Project #: Project Name: PEERLESS
Project Location: 1051 H ST OAKLAND
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: COMPOSITE 4:1	Other: STLC Pb 5day 12/21	Comments
STKP (1-D)	STOCKPILE	12/16	13:30	4	G		X								X	X												X			X	00236

VOAS | O&G | METALS | OTHER
ICE ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
CONTAINERS ✓

Relinquished By	Date	Time:	Received By
	12/16	14:00	Lima A. Butler
Relinquished By	Date	Time:	Received By:
Relinquished By	Date	Time:	Received By

Remarks: NEED RESULTS FAXED TO 925-837-4853 BY 10 a.m.