

LOP 657



43289 Osgood Road, Fremont, Calif. 94539

(510) 623-0480

Cal. State Cont. Lic. # 572427

92112000 11:3:47

## TANK CLOSURE REPORT

for

RJ Quick Clean  
2522 Castro Valley Boulevard  
Castro Valley, California

TANK #2

Mr. Raymond Lorge  
Mr. Jim Lorge  
RJ Quick Clean  
2522 Castro Valley Boulevard  
Castro Valley, California 94546

Dear Sirs:

K.T.W. & Associates is pleased to submit this report describing closure activities associated with the removal of one (1) underground storage tank at your site located at 2522 Castro Valley Boulevard and 2517 San Carlos Street, Castro Valley, California. This report provides a description of site activities and observations, the condition of the excavated tank, the condition of tank backfill and other subsurface materials, sampling procedures and locations, laboratory analytical procedures and certified analytical results, chain of custody documentation, and hazardous waste manifest.

#### **Site Description**

The site is located at 2522 Castro Valley Boulevard and 2517 San Carlos Street, Castro Valley, California. A site location map is presented in Plate 1. One (1) 700 gallon, underground storage tank, was formerly located at the subject site. A site map showing the location of the site structure, former underground tank and sampling activities are presented in Plate 2.

#### **Closure Plan and Permitting**

A closure plan and permit application for removal of underground tanks was completed and submitted to the Alameda County Health Care Services Agency, Hazardous Materials Division.

### **Underground Tank Closure**

Tank removal activities occurred on February 20, 1992. Inspector Scott Seery, Alameda County Health Care Services Agency, was present to observe the tank removal and sampling activities. Construction, environmental sampling, and documentation services associated with closure were performed by K.T.W. & Associates.

The presence of groundwater in the tank showed visual signs of contamination, as well as a strong gasoline odor. The tank and excavation was purged of 1,119 gallons of water prior to its removal. The water was removed from the tank via a vacuum truck, manifested under a hazardous waste manifest and disposed of at a recycling plant, presented in Attachment B.

Closure activities were documented in the Hazardous Materials Inspection Form prepared by Scott Seery located in Attachment A. Upon removal the structural integrity of the tank was observed to be unsound and riddled with through and through holes. The tank was removed, wrapped in polyethelyene sheeting, and transported from the site by a permitted hazardous waste transporter under hazardous waste manifest. Copies of the hazardous waste manifest and certificate are presented in Attachment B.

### **General Observations, Underground Tank Closure**

The tank, which had been used to store gasoline approximately forty-five years ago, contained the following trim: a riser assembly for filling, a vent line, and a product line for the dispensing of the material. According to anecdotal information supplied by the client, the tank had not contained product for at least thirty years.

The condition of the lines prior to removal were unsound, and contained several corrosion holes. All the fittings appeared to be properly installed, however, the corrosion holes appeared to be of sufficient size in the vent line to allow for the introduction of groundwater. The riser assembly that constituted the fill pipe for the tank appeared to be sound and free of defects.

A very strong hydrocarbon odor was observed while removing the overburden. The material was stockpiled on-site pending analysis results, and was not incorporated as backfill in the excavation. Backfilling the excavation, and installation of an extraction well in the center of the tank pit occurred on the same day as to allow for access to the properties surrounding the excavation. It was backfilled with clean imported fill material and resurfaced.

### **Soil Sampling**

Soil samples were collected from the tank excavation and the stockpile. Water samples were also taken from the groundwater remaining in the bottom of the pit. Soil and water sampling of the tank excavation occurred on February 20, 1992. The soil samples were obtained by excavating to the native soil interface and driving a brass tube into the native soil. Soil samples were collected in brass tubes, sealed in foil and plastic caps, and promptly stored in a cooler. The water samples were obtained via the use of a disposable bailer and placed in acidified vials and liter amber bottles. Following completion of field work, the samples were submitted to Anametrix Analytical Lab, a certified analytical laboratory, for analyses under appropriate chain of custody protocol.

### **Certified Analytical Results**

Samples collected for minimum verification analyses (MVA) were analyzed in accordance with appropriate regulatory guidelines contained within Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks (RWQCB, 1988). Copies of soil analytical results are presented in Attachment C.

#### MVA for Underground Tank Excavation

The soil samples were collected one (1) from a sidewall on the fill end (sample No. 1), and from the stockpile (sample No. 8) of the tank excavation. These samples showed a variety of the compounds associated with gasoline contamination.

RJ Quick Clean

March 9, 1992

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The analyses performed on the soil for gasoline and its constituents showed levels ranging from 140 to 430 parts per million (p.p.m.) of Total Petroleum Hydrocarbons as Gasoline (TPH-G), non-detected (N.D.) to 49 p.p.m. of Total Petroleum Hydrocarbons as Diesel (TPH-D), 32 to 6.7 p.p.m. Benzene, Toluene, Xylenes, and Ethylbenzene (BTXE). These two soil samples were also analyzed for ~~Total Organic Lead~~ (TOL). Lead constituents ranged from 9.7 p.p.m. to 10.2 p.p.m. *Total Lead*

Additionally, groundwater samples were taken from the tank excavation (samples No. 2 and No. 4). Sample 4 was analyzed for TPH-G and BTXE. Those constituents were 6900 part per billion (p.p.b) TPH-G, and up to 430 p.p.b. BTXE. Sample 2 was analyzed for TPH-D and TOL. That sample contained 42,000 p.p.b. TPH-D, and 6.7 p.p.b of TOL. The analyses are combined in Table I.

### Regulatory Guidelines

The Regional Water Quality Control Board - San Francisco Bay Region has established a level of 100 p.p.m. Total Petroleum Hydrocarbons (TPH) concentrations in soil as a general decision value for requiring further definition of site soil and groundwater contamination where shallow groundwater conditions are known to exist. The origin of the 100 p.p.m. level was to "develop a method to prioritize the case load and indicate whether a significant volume of fuel had been released or discharged" (RWQCB, June, 1988).

It is our opinion, that the well placed in the center of the backfill, be used as a monitoring well to allow for impact studies on the existing area.

Copies of this report should be submitted to:

Regional Water Quality Control Board  
1111 Jackson Street, Rm. 6000  
Oakland, CA 94607  
Attn: Dyan Whyte

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Alameda County Health Care Services Agency  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, California 94621  
Attention: Scott Seery

Additional copies of this report have been provided for the purpose of regulatory submittal.

Should you have any questions or comments regarding the evaluations presented in this report, please call.

Respectfully,

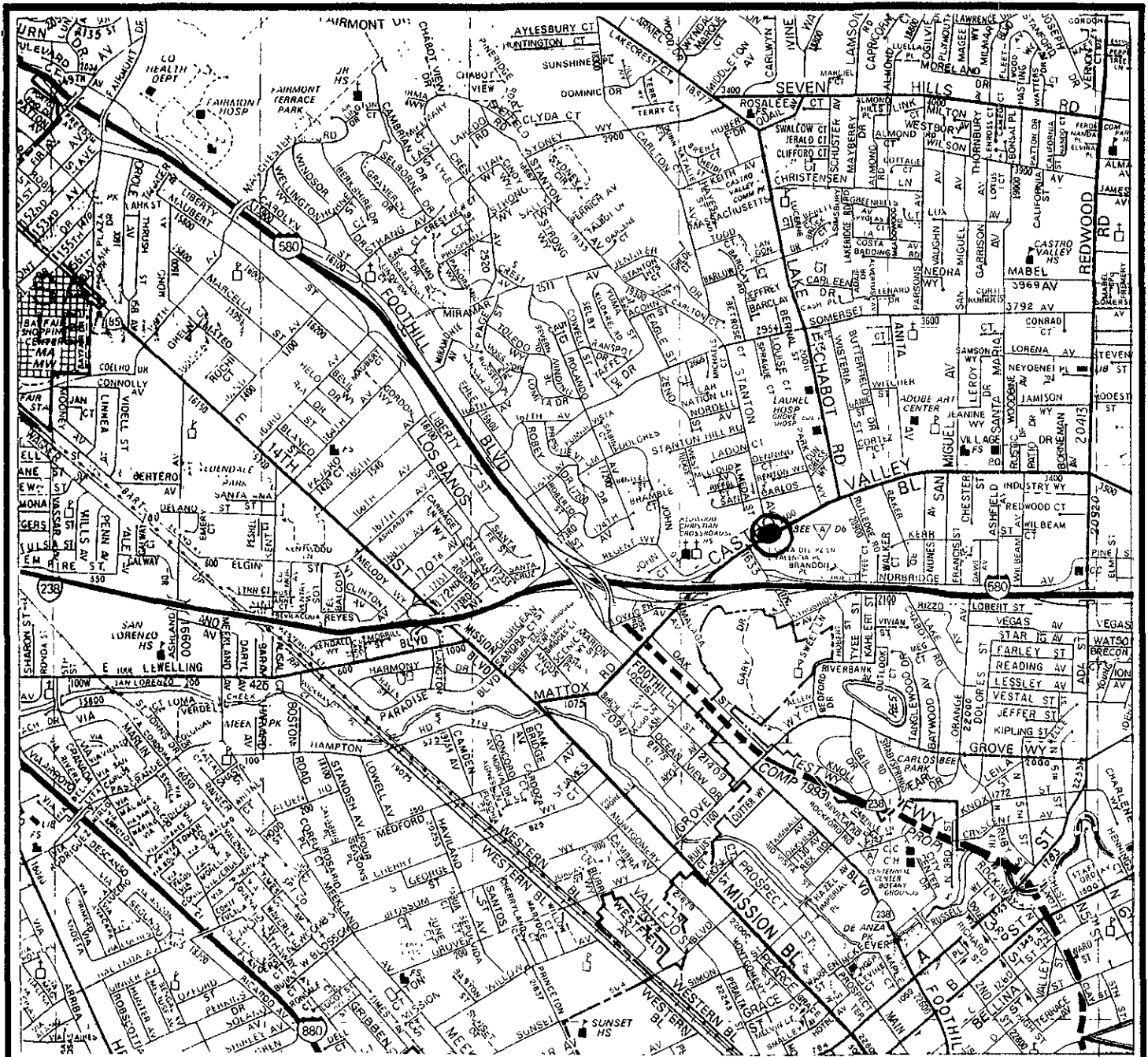
A handwritten signature in black ink, appearing to read "K. Krause". The signature is written in a cursive style with a large initial "K" and a long, sweeping underline.

Kevin Krause  
Vice President  
K.T.W. & Associates, Inc.

KK/emm

Attachments

## PLATES



SCALE NTS
DATE 3/13/92
DRWG. BY EMM

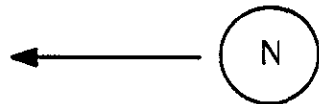
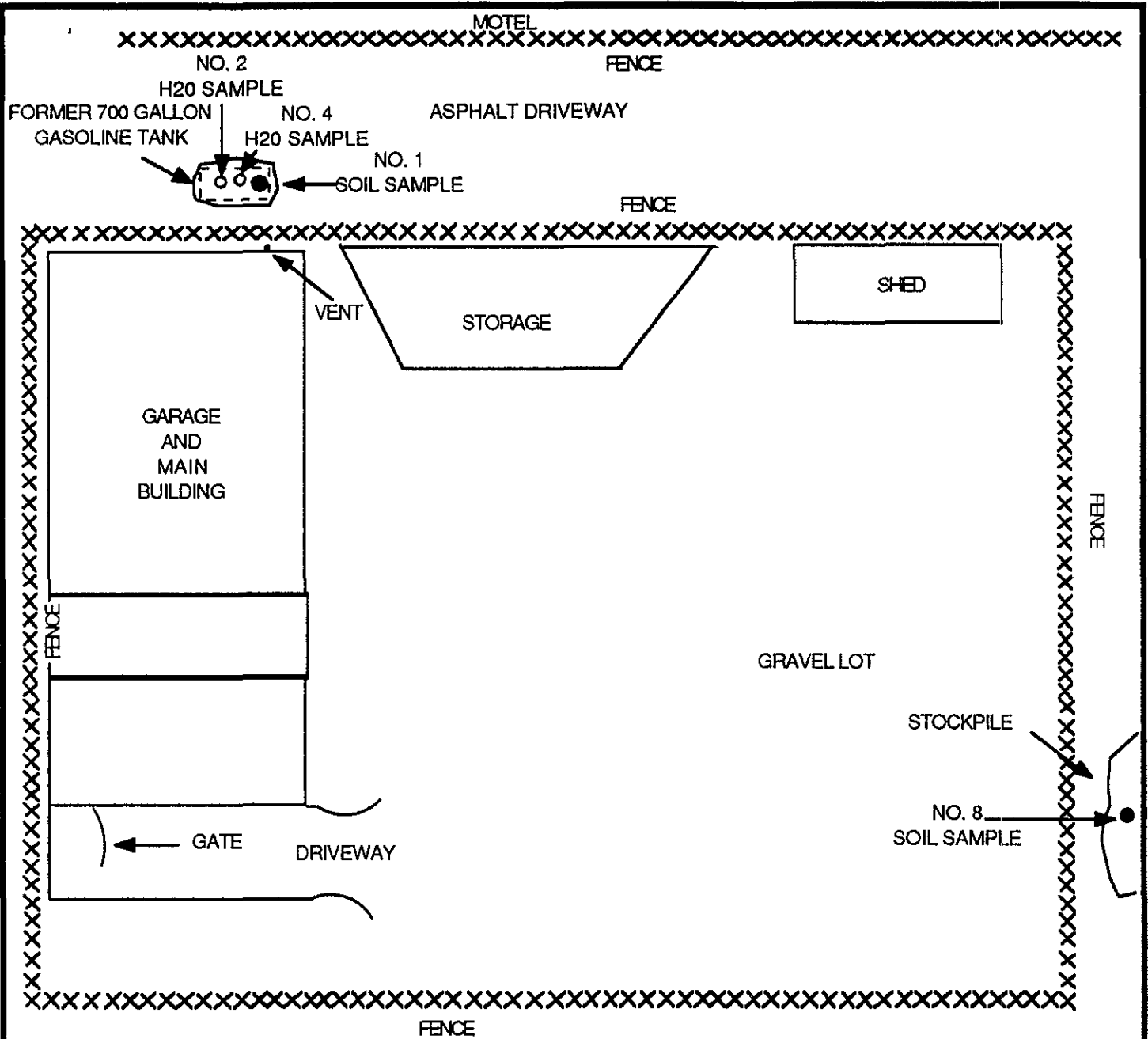


SITE LOCATION MAP  
 RJ QUICK CLEAN  
 2522 Castro Valley Blvd.  
 Castro Valley, California

PLATE  
 1

= SITE LOCATION





SCALE NTS
DATE 3/9/92
DRWG. BY EMM



GENERALIZED SITE MAP  
 RJ QUICK CLEAN  
 2522 Castro Valley Blvd.  
 Castro Valley, California

PLATE  
 2

PROJECT: 1231

## TABLE

RJ QUICK CLEAN TABLE I

SOIL SAMPLES		DATE	TPH-G	TPH-D	B	T	X	E	TOL	total Pb
pit	1	2/21/92	430 ppm	ND.	ND.	32	32	12	9.7	
stockpile	8	2/21/92	140	49*	6.7	11	13	8.6	<del>0.15</del>	10.2

WATER SAMPLES		DATE	TPH-G	TPH-D	B	T	X	E	TOL	total Pb
	24	2/21/92	6900 ppb	N/A	280	280	430	120	ND	6.7
	A 2	2/21/92	N/A	42000	N/A	N/A	N/A	N/A	N/A	N/A

**ABBREVIATIONS**

TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
B	BENZENE
T	TOLUENE
X	XYLENES
E	ETHYLBENZENE
TOL	TOTAL ORGANIC LEAD (Total lead??)

NOTE: ALL SOIL SAMPLES ARE MEASURED IN PARTS PER MILLION (PPM)  
 ALL WATER SAMPLES ARE MEASURED IN PARTS PER BILLION (PPB)

\* Lab indicates TPH-D result to lighter HCs (gasoline?) plus  
 a heavier HC (motor oil?)

**ATTACHMENT A**

**Inspection Form**

ALAMEDA COUNTY, DEPARTMENT OF  
ENVIRONMENTAL HEALTH  
Hazardous Materials Inspection Form

II, III

white -env.health  
yellow -facility  
pink -files

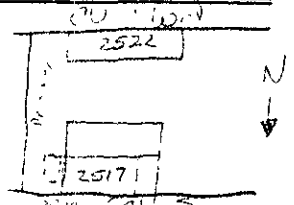
Site ID # \_\_\_\_\_ Site Name Padilla Trucking / RJ Quick Clean Today's Date 21 201 92

Site Address 2517 San Carlos / 2522 Castro Valley Blvd  
City Castro Valley Zip 94546 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks



• Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

On-site to witness UST closure. This closure is the second of two on this site. Larry Brown of CUFED was also on-site. The subject tank was riddled with large through-going holes. Brown floating product and sheen were observed on shallow GW welling into excavation. Native soil along sidewall of pit was heavily stained. A GW sample was collected after the pit was pumped by the vacuum truck. The UST was wrapped in plastic sheeting before being placed on an Erickson flatbed for transport. One (1) sidewall sample was collected from the fill end of the tank pit, just above the apparent GW/vadose interface. Odor of product was evident emanating from the UST pit.

The pit will be back filled w/ gravel around a 6" perforated well casing for future extraction.

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N) \_\_\_\_\_
- 14. OnSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- |                                                                 |                                                                                         |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| General                                                         | <input type="checkbox"/> 1. Permit Application 25284 (H&S)                              |
|                                                                 | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S)                         |
|                                                                 | <input type="checkbox"/> 3. Records Maintenance 2712                                    |
|                                                                 | <input type="checkbox"/> 4. Release Report 2651                                         |
|                                                                 | <input type="checkbox"/> 5. Closure Plans 2670                                          |
| Monitoring for Existing Tanks                                   | <input type="checkbox"/> 6. Method                                                      |
|                                                                 | 1) Monthly Test                                                                         |
|                                                                 | 2) Daily Vadose<br>Semi-annual groundwater<br>One time soils                            |
|                                                                 | 3) Daily Vadose<br>One time soils<br>Annual tank test                                   |
|                                                                 | 4) Monthly Gndwater<br>One time soils                                                   |
|                                                                 | 5) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det<br>Vadose/gndwater mon. |
|                                                                 | 6) Daily Inventory<br>Annual tank testing<br>Cont pipe leak det                         |
|                                                                 | 7) Weekly Tank Gauge<br>Annual tank testing                                             |
|                                                                 | 8) Annual Tank Testing<br>Daily Inventory                                               |
|                                                                 | 9) Other _____                                                                          |
| <input type="checkbox"/> 7. Precs Tank Test 2643<br>Date: _____ |                                                                                         |
| <input type="checkbox"/> 8. Inventory Rec. 2644                 |                                                                                         |
| <input type="checkbox"/> 9. Soil Testing 2646                   |                                                                                         |
| <input type="checkbox"/> 10. Ground Water. 2647                 |                                                                                         |
| New Tanks                                                       | <input type="checkbox"/> 11. Monitor Plan 2632                                          |
|                                                                 | <input type="checkbox"/> 12. Access, Secure 2634                                        |
|                                                                 | <input type="checkbox"/> 13. Plans Submit 2711<br>Date: _____                           |
|                                                                 | <input type="checkbox"/> 14. As Built 2635<br>Date: _____                               |

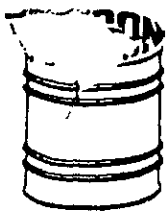
Contact: Facora Sr. mivo  
Title: Program Manager  
Signature: [Signature]

Inspector: S. Seery  
Signature: [Signature]

II, III

## **ATTACHMENT B**

### **Hazardous Waste Disposal Manifests and Certificates**



**GIBSON OIL & REFINING CO., INC.**

3300 TRUXTON AVENUE, SUITE 200  
BAKERSFIELD, CA. 93301  
(805) 327-0413

WEIGHT TAG NUMBER

DATE *2-20-92*

MANIFEST # *90648639*

ORIGIN: *RS QUICK CLEAN*

DESTINATION: GIBSON OIL REFINERY  
COMMERCIAL DRIVE  
BAKERSFIELD, CA. 93308

INVOICE TO: PRICE:

CARRIER #	CARRIER	RELEASE #	COMMODITY	QUANTITY	TEMP.	GRAV.	NET GALLONS/BBLs
<i>2436</i>	<i>ERICKSON</i>	<i>13220</i>	<i>O/W</i>	<i>-</i>	<i>-</i>	<i>10</i>	<i>11196 / 26.64 BBLs</i>
ARRIVED TO UNLOAD		START TO UNLOAD		FINISH UNLOADING		SOLIDS %	
<i>15:45</i> AM PM				<i>16:25</i> AM PM		<i>0</i>	
LOADED FROM			UNLOADED TO				
<i>VAC TRUCK</i>			<i>30958</i>				
LOADER'S SIGNATURE			DRIVER'S SIGNATURE				
<i>Bill [Signature]</i>			<i>[Signature]</i>				
REMARKS			PHG				
							WASHOUT GALLONS
							DEDUCT B S & W %
							<i>4</i>
							NET BARRELS
							RECEIPT TICKET
							<i>52974</i>

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. **CA101006181812712110** Manifest Document No. **712110**

2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
**RJ QUICK CLEAN**  
**2522 CASTRO VALLEY BLVD**  
**CASTRO VALLEY CA 94546** X012711

4. Generator's Phone (510-581-9797) 94546

5. Transporter 1 Company Name **ERICKSON INC** 8. US EPA ID Number **CA1010191416131912**

6. Transporter 2 Company Name \_\_\_\_\_ 8. US EPA ID Number \_\_\_\_\_

9. Designated Facility Name and Site Address  
**GIBSON PILOT** 10. US EPA ID Number **CA10101413121610171012**  
**475 SEAPORT BLVD**  
**REDWOOD CITY CA 94064** 415.368.5511  
**CA10101413121610171012** (415) 368-5511

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

11. US DOT Description	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
	No.	Type			
a. <b>RQ HAZARDOUS WASTE LIQUID NOS ORM-E</b> <b>NA9109 D018</b>	111	TIT	111/119	G	State: <b>223</b> EPA/Other: <b>D018</b> State: _____ EPA/Other: _____ State: _____ EPA/Other: _____
b. _____	_____	_____	_____	_____	State: _____ EPA/Other: _____ State: _____ EPA/Other: _____
c. _____	_____	_____	_____	_____	State: _____ EPA/Other: _____ State: _____ EPA/Other: _____
d. _____	_____	_____	_____	_____	State: _____ EPA/Other: _____ State: _____ EPA/Other: _____

J. Additional Descriptions for Materials Listed Above  
**Hydrocarbons - 0.5% OR LESS**  
**Water - 95% OR LESS**  
**GOR 52974**

15. Special Handling Instructions and Additional Information  
**Gloves Goggles**  
**24 EMERGENCY CONTACT phone Ray Large**  
**510 581 9797**

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 **RAY C. LARGE** Signature **Ray C Large** Month Day Year **12 22 09 12**

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name **Kenneth Phillips** Signature **Kenneth Phillips** Month Day Year **02 20 09 12**

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 **BILL CEDIN** Signature **Bill Cedin** Month Day Year **10 21 20 09 12**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7650  
 TRANSPORTER  
 FACILITY

Do Not Write Below This Line



90792154  
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550  
 GENERATOR  
 TRANSPORTER  
 FACILITY

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>CA190100618181727171912</b>		Manifest Document No. <b>77792</b>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>R. J. QUICK CLEAR 2552 CASTRO VALLEY BLVD CASTRO VALLEY CA 94546</b>				A. State Manifest Document Number <b>90792154</b>		B. State Generator's ID							
4. Generator's Phone <b>(510) 581-9797</b>		5. Transporter 1 Company Name <b>ERICKSON INC.</b>		6. US EPA ID Number <b>CA101019466392</b>		C. State Transporter's ID <b>205149</b>		D. Transporter's Phone <b>(510) 235-1795</b>					
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 <b>Erickson, Inc. 255 Parr Blvd. Richmond, Ca. 94801</b>				10. US EPA ID Number <b>CA101019466392</b>		G. State Facility's ID <b>CA0009466392</b>		H. Facility's Phone <b>(510) 235-1393</b>					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No:	
a. Waste Empty Storage Tank <b>NON-RCRA Hazardous Waste Solid.</b>						<b>11 710</b>		<b>1645</b>		<b>P</b>		State <b>512</b> EPA/Other <b>NONE</b>	
b.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above: <b>Qty: ① Empty Storage Tank (s) #8117, Tank (s) have been inerted with 15 lbs. Dry Ice per 1000 Gal. Capacity.</b>						K. Handling Codes for Wastes Listed Above: a. <b>U1</b> b. c. d.							
15. Special Handling Instructions and Additional Information <b>Keep away from sources of ignition: Always wear hardhats when working around U.S.T.'s 24 Hr. Contact Name <u>RAY LORGE</u> &amp; Phone <u>510-581-9797</u></b>													
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 <b>Chris Lorge</b>				Signature <b>Chris Lorge</b>				Month Day Year <b>10/21/92</b>					
17. Transporter 1 Acknowledgement &/Receipt of Materials													
Printed/Typed Name <b>RICH POLLASTRINI 5833</b>				Signature <b>[Signature]</b>				Month Day Year <b>10/21/92</b>					
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 <b>DONALD A. BOSSONE</b>				Signature <b>[Signature]</b>				Month Day Year <b>10/21/92</b>					

Do Not Write Below This Line

Write: TSD/ SENDS THIS COPY TO DOHS WITHIN 30 DAYS  
 To: P.O. Box 3000, Sacramento, CA 95812

DAY OR NIGHT  
TELEPHONE  
(510) 5-1393

CERTIFICATE

NO. 12068

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

CUSTOMER KITW
JOB NO. 77792

FOR: Erickson, Inc. TANK NO. 8117

LOCATION: Richmond DATE: 02/24/92 TIME: 09:47:37

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT LG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 700 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%  
LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN  
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS  
WASTE FACILITY."

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

**STANDARD SAFETY DESIGNATION**

**SAFE FOR MEN:** Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

**SAFE FOR FIRE:** Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

[Signature] REPRESENTATIVE TITLE [Signature] INSPECTOR

**ATTACHMENT C**

**Certified Analytical  
Results**

**ANAMETRIX INC**

Environmental & Analytical Chemistry  
 1961 Concourse Drive, Suite E, San Jose, CA 95131  
 (408) 432-8192 • Fax (408) 432-8198

**REPORT**

MR. JOHN SUTFIN  
 KTW ASSOCIATES  
 43289 OSGOOD ROAD  
 FREMONT, CA 94539

Workorder # : 9202243  
 Date Received : 02/21/92  
 Project ID : 1231-2  
 Purchase Order: A3128-RJ2

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9202243- 1	2
9202243- 2	4

This report consists of 8 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

\_\_\_\_\_  
 Sarah Schoen, Ph.D.  
 Laboratory Director

3-12-92

\_\_\_\_\_  
 Date

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KFW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202243  
Date Received : 02/21/92  
Project ID : 1231-2  
Purchase Order: A3128-RJ2  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9202243- 1	2	WATER	02/20/92	TPHd
9202243- 2	4	WATER	02/20/92	TPHg/BTEX

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KTW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202243  
Date Received : 02/21/92  
Project ID : 1231-2  
Purchase Order: A3128-RJ2  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as diesel for sample 2 is due to the presence of a combination of a heavier petroleum product (possibly motor oil) and a lighter petroleum product (possibly gasoline or kerosene).

Cheryl Baumer                      3/2/92  
Department Supervisor                      Date

Lueca Shor                      3/2/92  
Chemist                                      Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
(GASOLINE WITH BTEX)  
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9202243  
Matrix : WATER  
Date Sampled : 02/20/92

Project Number : 1231-2  
Date Released : 03/02/92

	Reporting Limit	Sample I.D.#	Sample I.D.#
		4	04B0227C
-----	-----	-----	-----
COMPOUNDS	(ug/L)	-02	BLANK
-----	-----	-----	-----
Benzene	0.5	280	ND
Toluene	0.5	280	ND
Ethylbenzene	0.5	120	ND
Total Xylenes	0.5	430	ND
TPH as Gasoline	50	6900	ND
% Surrogate Recovery		94%	96%
Instrument I.D.		HP4	HP4
Date Analyzed		02/27/92	02/27/92
RLMF		25	1

- 
- ND - Not detected at or above the practical quantitation limit for the method.
  - TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
  - BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
  - RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Lucina Star 3/2/92  
Analyst Date

Cheryl Balmer 3/2/92  
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9202243  
Matrix : WATER  
Date Sampled : 02/20/92  
Date Extracted: 02/26/92

Project Number : 1231-2  
Date Released : 03/02/92  
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)
9202243-01	2	02/27/92	1000	42000
DWBL022692	METHOD BLANK	02/27/92	50	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 50ug/L.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GC/FID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

stem uni 3/21/92  
Analyst Date

Charles F. ... 3/21/92  
Supervisor Date



TOTAL EXTRACTABLE HYDROCARBON METHOD SPIKE REPORT  
 EPA METHOD 3510 WITH GC/FID  
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : METHOD SPIKE  
 Matrix : REAGENT WATER  
 Date Sampled : N/A  
 Date Extracted: 02/26/92  
 Date Analyzed : 02/27/92

Anamatrix I.D. : SPK022692  
 Analyst : *AB*  
 Supervisor : *CB*  
 Date Released : 03/02/92  
 Instrument I.D.: HP 9

COMPOUND	SPIKE AMT. (ug/L)	MS (ug/L)	%REC MS	MSD (ug/L)	%REC MSD	RPD	%REC LIMITS
Diesel	1250	1300	104%	1200	96%	-8%	36-150

\* Limits established by Anamatrix, Inc.

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KTW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202243  
Date Received : 02/21/92  
Project ID : 1231-2  
Purchase Order: A3128-RJ2  
Department : METALS  
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9202243- 1	2	WATER	02/20/92	7421

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KTW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202243  
Date Received : 02/21/92  
Project ID : 1231-2  
Purchase Order: A3128-RJ2  
Department : METALS  
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for sample.

Manuqum 3/12/92  
Department Supervisor Date

Mona Kameh 3/12/92  
Chemist Date

ANALYSIS DATA SHEET - TOTAL LEAD EPA METHOD 7421  
 ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9202243  
 Matrix : WATER  
 Date Sampled : 02/20/92  
 Project Number: 1231-2

Date Prepared : 03/11/92  
 Date Analyzed : 03/12/92  
 Date Released : 03/12/92  
 Instrument I.D.: AA2

ELEMENTS		LEAD	
EPA METHOD		7421	
REPORTING LIMIT		3.0	
ANAMETRIX ID	CLIENT ID	(ug/L)	
9202243-01	2	6.7	0.0067
MB0311W	METHOD BLANK	ND	

ND : Not detected at or above the practical quantitation limit for the method.

All Metals by EPA Method 6010/7000, Test Method for Evaluating Solid Waste, SW-846 3rd Edition November 1986, and California Code of Regulations Title 22, or Method for Chemical Analysis of Water and Wastes, EPA, 3rd edition, 1983.

Mary Hagan 3/12/92  
 Supervisor Date

Mona Kamel 3/12/92  
 Chemist Date

9202243

CLIENT #2 #10 (B) 1930 FB C H A I N O F C U S T O D Y R E C O R D A 3128-RJ2

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis										Condition of Samples	Initial																		
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Sample Number	Date	Time	Comp	Grab	Station Location																																
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								SNH-Perchlorate Request																													
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[Signature]		2/21/92	[Signature]		2/21/92	...																															
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	COMPANY: ... ADDRESS: ... PHONE: ... FAX: ...																															
Ellen M. ...		2/21/92	Benny ...		2/21/92	...																															

Rel. By: Benny ... Received by: ... 2-21-92 1645

**ANAMETRIX INC**

Environmental & Analytical Chemistry  
1961 Concourse Drive, Suite E, San Jose, CA 95131  
(408) 432-8192 • Fax (408) 432-6198

**REPORT**

MR. JOHN SUTFIN  
KTW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202242  
Date Received : 02/21/92  
Project ID : 1231  
Purchase Order: A3128-RJ

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9202242- 1	1
9202242- 2	8

This report consists of 8 pages not including the cover letter, and is organized in sections according to the specific Anamatrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anamatrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Sarah Schoen, Ph.D.  
Laboratory Director

Date

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KTW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202242  
Date Received : 02/21/92  
Project ID : 1231  
Purchase Order: A3128-RJ  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9202242- 1	1	SOIL	02/20/92	TPHd
9202242- 2	8	SOIL	02/20/92	TPHd
9202242- 1	1	SOIL	02/20/92	TPHg/BTEX
9202242- 2	8	SOIL	02/20/92	TPHg/BTEX

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KRW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202242  
Date Received : 02/21/92  
Project ID : 1231  
Purchase Order: A3128-RJ  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as diesel for sample 8 is due to the presence of a combination of a lighter petroleum product (possibly gasoline) and a heavier petroleum product (possibly motor oil).

Cheeryl Balmer                      2/27/92  
Department Supervisor                      Date

Lynn Sher                              2/27/92  
Chemist                                      Date



ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
(GASOLINE WITH BTEX)  
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9202242  
Matrix : SOIL  
Date Sampled : 02/20/92

Project Number : 1231  
Date Released : 02/27/92

Reporting Limit	Sample I.D.#	Sample I.D.#	Sample I.D.#
(mg/Kg)	1	8	08B0226C
COMPOUNDS	-01	-02	BLANK
Benzene	0.005	ND	6.7
Toluene	0.005	32	11
Ethylbenzene	0.005	12	8.6
Total Xylenes	0.005	32	13
TPH as Gasoline	0.5	430	140
% Surrogate Recovery	142%	137%	103%
Instrument I.D.	HP8	HP8	HP8
Date Analyzed	02/26/92	02/26/92	02/26/92
RLMF	100	100	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
- RLMF - Reporting Limit Multiplication Factor.

Anamatrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Anna Stor 2/27/92  
Analyst Date

Cheryl Balmer 2/27/92  
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL  
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9202242  
 Matrix : SOIL  
 Date Sampled : 02/20/92  
 Date Extracted: 02/25/92

Project Number : 1231  
 Date Released : 02/27/92  
 Instrument I.D.: HP23

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9202242-01	1	02/26/92	10	ND
9202242-02	8	02/26/92	10	49
DSBL022592	METHOD BLANK	02/26/92	10	ND

Note : Reporting limit is obtained by multiplying the dilution factor times 10 mg/Kg.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3550.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Steve .2ms                      3/9/92  
 Analyst                                      Date

Charles Balmer                      3/9/92  
 Supervisor                                      Date

TOTAL EXTRACTABLE HYDROCARBON MATRIX SPIKE REPORT  
 EPA METHOD 3550 WITH GC/FID  
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : N/A  
 Matrix : SOIL  
 Date Sampled : 02/18/92  
 Date Extracted: 02/25/92  
 Date Analyzed : 02/26/92

Anamatrix I.D. : 9202191-02  
 Analyst : IS  
 Supervisor : CB  
 Date Released : 02/27/92  
 Instrument I.D.: HP 23

COMPOUND	SPIKE AMT. (mg/Kg)	MS (mg/Kg)	%REC MS	MSD (mg/Kg)	%REC MSD	RPD	%REC LIMITS
Diesel	125	120	96%	130	104%	8%	32-143

\* Limits established by Anamatrix, Inc.

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KTW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202242  
Date Received : 02/21/92  
Project ID : 1231  
Purchase Order: A3128-RJ  
Department : METALS  
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9202242- 1	1	SOIL	02/20/92	7421
9202242- 2	8	SOIL	02/20/92	7421

REPORT SUMMARY  
ANAMETRIX, INC. (408)432-8192

MR. JOHN SUTFIN  
KTW ASSOCIATES  
43289 OSGOOD ROAD  
FREMONT, CA 94539

Workorder # : 9202242  
Date Received : 02/21/92  
Project ID : 1231  
Purchase Order: A3128-RJ  
Department : METALS  
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Manu/Supervisor 3/12/92  
Department/Supervisor Date

Mona Kamp / 3/12/92  
Chemist Date

