

UNDERGROUND STORAGE TANK REMOVAL REPORT

**Fire Station #8
24200 Fairview Avenue
Hayward (unincorporated), California**

ACC Project No. 98-6073-008.00

Prepared for:

**Mr. John Boykin
Fire Chief
Fairview Fire Protection District
24200 Fairview Avenue
Hayward (unincorporated) California**

and

**Mr. Paul Valencia
Deputy Chief
Hayward Fire Department
777 B Street
Hayward, California 94541-5007**

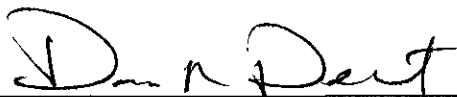
April 15, 1999

Prepared by:



Stephen Southern
Project Manager

Reviewed by:



David R. DeMent, R.G.
Senior Geologist

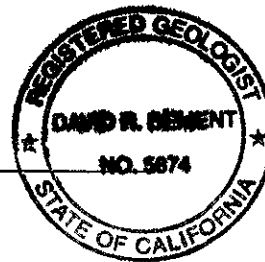


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UNDERGROUND STORAGE TANK REMOVAL REPORT
Fire Station #8
24200 Fairview Avenue
Hayward (unincorporated), California

1.0 INTRODUCTION

ACC Environmental Consultants, Inc., (ACC) was retained by the City of Hayward Fire Department (HFD) to document the removal of one 1,000-gallon diesel underground storage tank (UST) at Fire Station #8, 24200 Fairview Avenue, Hayward (unincorporated), California (Figures 1 and 2).

2.0 BACKGROUND

According to Mr. Hugh Murphy, HFD, the facility now known as Fire Station #8, previously operated under the auspices of the Fairview Fire Protection District. A fire station has operated at the subject property since circa 1938. Approximately five years ago, the unincorporated city of Fairview entered into contract with the City of Hayward to provide fire protection out of Fire Station #8. Mr. Murphy informed ACC that the 1,000-gallon diesel UST replaced a steel UST formerly located at the site.

2.1 Previous Site Investigations

ACC is unaware of previous investigations regarding the former UST at the subject site.

3.0 FIELD ACTIVITIES

3.1 Preparation

Prior to UST removal, Decon Environmental Services, Inc. (Decon) applied for and received a permit from the HFD to remove the UST. On Thursday, December 10, 1998, Decon mobilized on site to begin UST excavation. Approximately 452 gallons of residual diesel fuel was pumped from the UST prior to any excavation activities. After the concrete in the excavation area was sawcut, the fuel dispenser and the concrete over the excavation area were removed. Following the removal of the concrete, Decon began to excavate the UST. During excavation activities, it was discovered that the surrounding subsurface material consisted of sandstone and pea gravel, presumably backfill material from the former UST excavation. Perched groundwater was observed in the excavation at an approximate depth of 5 feet below ground surface (bgs). During excavation, a section of excavated sandstone fell from the backhoe bucket onto the fiberglass UST causing a rupture in the top and side of the UST. Consequently, groundwater from the excavation entered into the UST and mixed with a small amount of diesel fuel which remained after the UST was pumped. Decon subsequently pumped water from the excavation into 55-gallon drums located on site.

3.2 UST Removal

On Friday, December 11, 1998, the UST was removed from the excavation. Witnessing the removal was Mr. Hugh Murphy, HFD, Mr. Paul Valencia, HFD Deputy Chief, and Mr. Scott Seery, Alameda County Health Care Services Agency (ACHCSA). Due to the break in the UST, the tank broke apart upon removal. The UST was transported via Decon to Erickson, Inc. under Uniform Hazardous Waste Manifest (manifest number 98482094). A copy is attached. Due to excessive amounts of pea gravel in the UST pit, the possibility of a concrete hold-down slab at the bottom of the pit, and because the pit appears to have been carved out of sandstone, it was not possible to collect soil samples from native material. At the direction of Mr. Seery, ACC collected a grab groundwater sample from the bottom of the UST pit. The sample was submitted to Chromalab, Inc. (Chromalab), a state-certified analytical laboratory, for analysis of total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE). The groundwater sample was transported under chain of custody to Chromalab by ACC. Mr. Seery concurred with ACC that it would not be possible to collect samples from the stockpiled materials because of the they were primarily pea gravel.

3.3 Observed Soil

Native soil was not observed in the excavation. Beneath pea gravel backfill, ACC noted sandstone bedrock.

3.3.1 Sample Collection

Following removal of the UST, ACC collected a water sample from the recharge in the UST pit. Samples were collected into an amber liter jar and four VOA vials. Samples were submitted to Chromalab. The samples were analyzed in accordance to the Tri-Regional Water Quality Control Board Guidelines for diesel and gasoline USTs. The analyses included TPHd by EPA Method 8015M, TPHg, BTEX by EPA Method SW846 8020A, and MTBE by EPA Method 8260. Laboratory analytical results are summarized in Table 1. A copy of the laboratory analytical results and chain of custody record is attached as Appendix 3.

TABLE 1 - WATER SAMPLE ANALYTICAL RESULTS

Sample ID	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
Pit-1	3,100	26,000	14	64	31	180	140

Notes: µg/L = micrograms per Liter = ppb = parts per billion

4.0 ANALYTICAL RESULTS

Analysis of the water sample indicated concentrations of both gasoline and diesel constituents. The presence of gasoline may be a result of previous use of the former UST. The ratio of BTEX to TPHg indicates the gasoline is highly degraded. The elevated concentrations of diesel are likely due to the breach in the UST prior to removal.

5.0 REMEDIAL ACTIVITIES

Following the initial UST removal, additional samples were collected on December 23, 1998 from 55-gallon drums containing water pumped from the UST excavation and from the excavation itself. Samples were collected into amber liter jars and VOA vials. Samples were submitted to Chromalab and analyzed for TPHd by EPA Method 8015M, and TPHg and BTEX by EPA Method SW846 8020A. Laboratory analytical results are summarized in Table 2. A copy of the laboratory analytical results and chain of custody record is attached as Appendix 3. In addition, a soil sample was collected from underneath the former fuel dispenser. Analytical results indicated concentrations of TPHd at 1,300 parts per million (ppm) and xylenes at 0.021 ppm. Concentrations of TPHg, benzene, toluene, and ethylbenzene were below laboratory detection limits.

TABLE 2 - WATER SAMPLE ANALYTICAL RESULTS

Sample ID	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
Pit (P1-P4)	< 500	680,000	6.3	38	880	510
Drum (D1-D4)	< 2500	150,000	< 25	78	< 25	180

Notes: µg/L = micrograms per Liter = ppb = parts per billion
ND = below laboratory detection limits

5.0 DISCUSSION

Gasoline was not present in samples collected from the former UST pit or from the water collected in drums. Elevated concentrations of diesel are likely the result of diesel released during UST removal activities.

6.0 ADDITIONAL ACTIVITIES

Following the second water sampling event, the UST pit was backfilled. Mr. Seery, ACHCSA, directed ACC to have the pit pumped out and allowed to recharge twice. Following the second

recharge, ACC was directed to collect additional samples from the pit. The excavation was backfilled and a temporary 4-inch monitoring well was installed in the former UST pit. On April 2, 1999, Decon removed an additional 600 gallons of water from the pit. ACC collected water samples using a clean, Teflon bailer. The samples were collected in an amber liter jar and VOA vials. Samples were submitted to Chromalab and analyzed for TPHd by EPA Method 8015M, TPHg, and BTEX by EPA Method SW846 8020A. Laboratory analytical results are summarized in Table 3. A copy of the laboratory analytical results and chain of custody record is attached as Appendix 3.

TABLE 3 - WATER SAMPLE ANALYTICAL RESULTS

Sample ID	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
FS8-Pit	700	6,100	ND	5.5	11	55	ND

*Notes: µg/L = micrograms per Liter = ppb = parts per billion
ND = below laboratory detection limits*

7.0 DISCUSSION

A 1,000-gallon diesel UST was removed from this site in December 1998. Based on anecdotal information, it appears the UST contained gasoline prior to the City of Hayward assuming duties at this Fire Station approximately five years ago. Analytical results indicate the presence of gasoline and diesel in the groundwater. Based on the ratio of xylenes to benzene, the gasoline appears to be aged and degrading. The concentrations of gasoline and diesel have decreased significantly since December 1998.

8.0 RECOMMENDATIONS

Based on bedrock underlying the former UST, source removal activities, because the source of petroleum hydrocarbons has been removed, and decreasing concentrations of diesel and gasoline December 1998, ACC requests this site be evaluated for closure.

9.0 LIMITATIONS

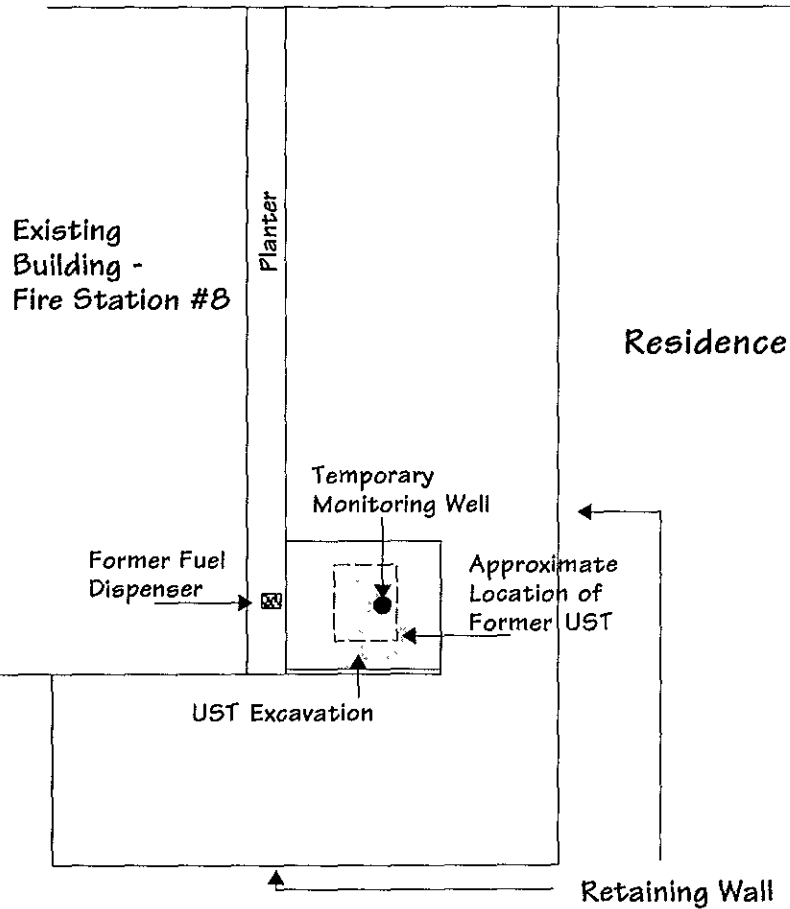
The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

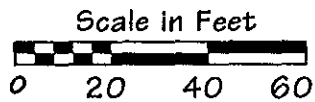
Residence

Fairview Avenue

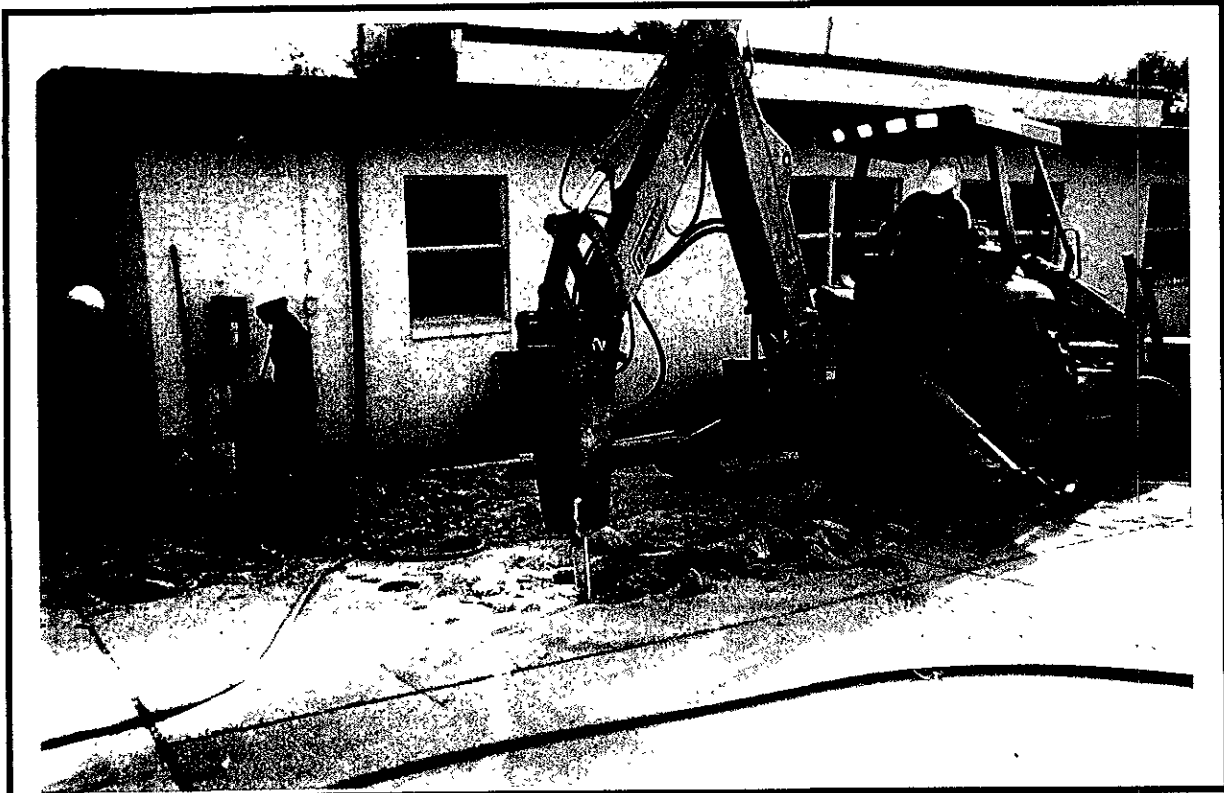


Residence

Residence



Title: Site Map 24200 Fairview Avenue Hayward, California	
Figure Number: 2	Scale: 1" = 20'
Drawn By: SPS	Date: 4/14/99
Project No.: 98-6073-008.00	
ACC Environmental Consultants 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	



Photograph 1: View of Decon Breaking Through the Concrete Pad.



Photograph 2: View of Stockpiled Soil

Project:
UST Removal
24200 Fairview Avenue
Hayward, California

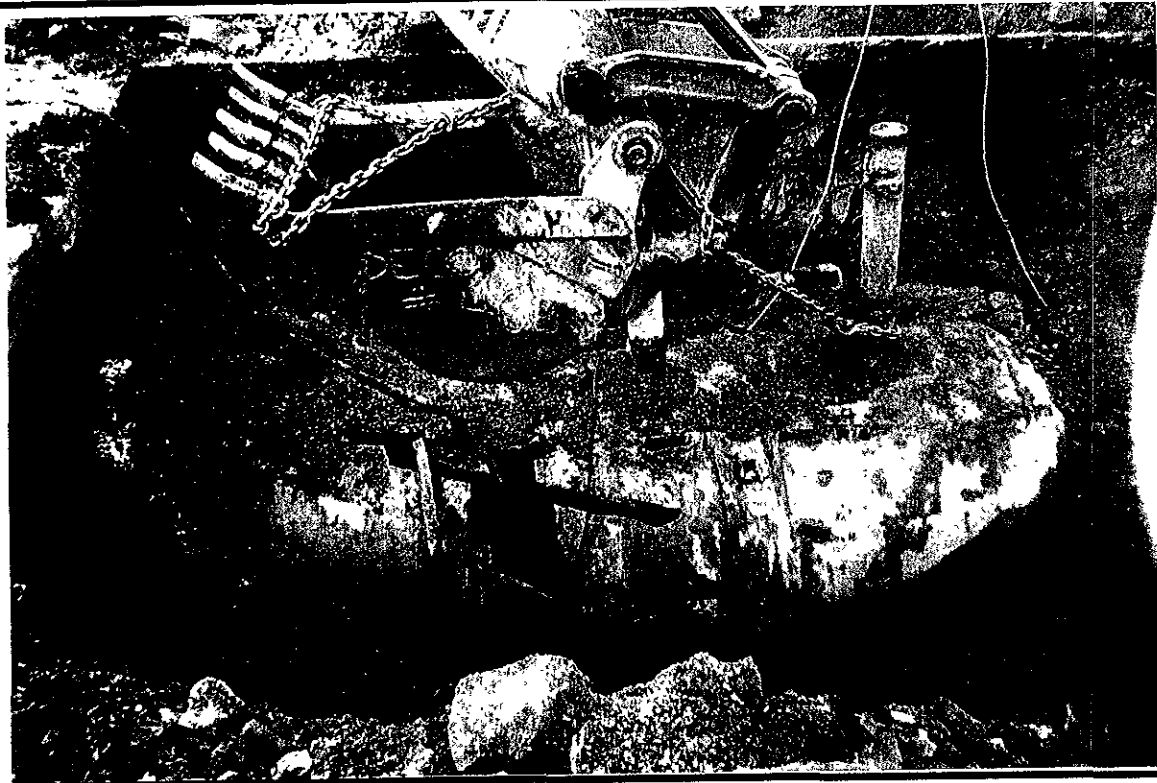
Project Number: 98-6073-008.00

Date of Photos: 12/11/98

A.C.C
ENVIRONMENTAL
CONSULTANTS



Photograph 3: View of Hole in side of UST.



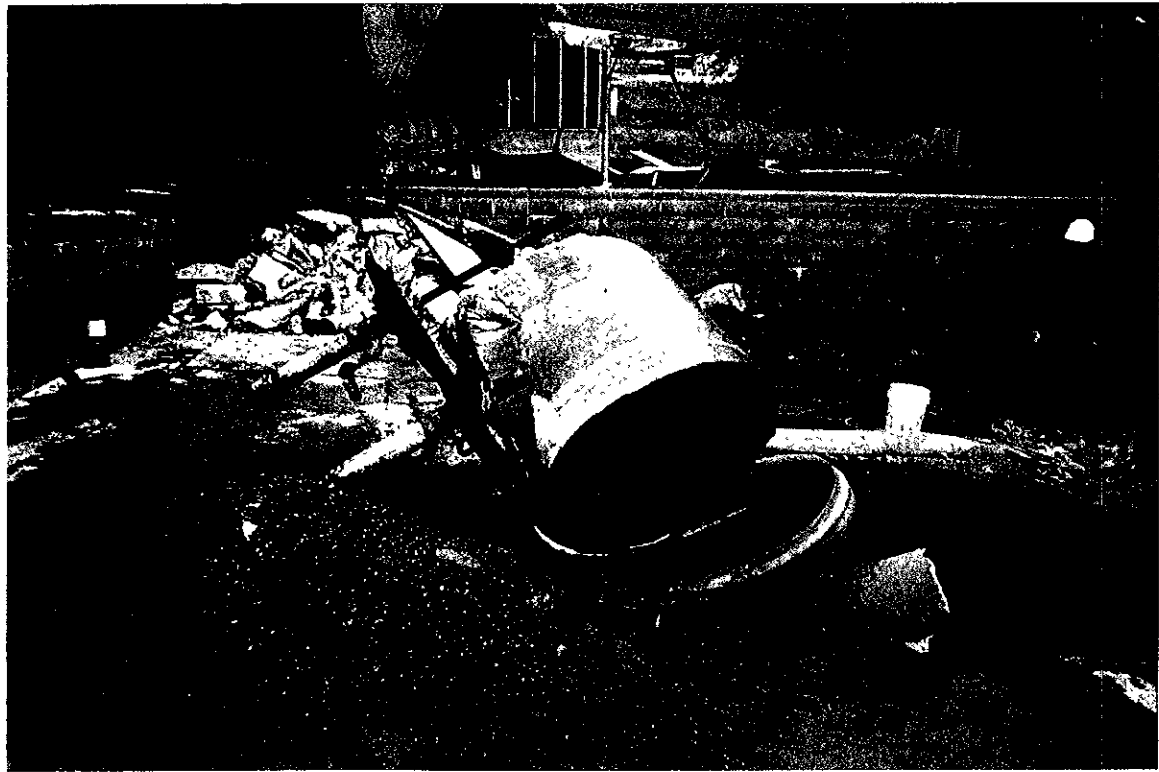
Photograph 4: View of UST Removal

Project:
UST Removal
24200 Fairview Avenue
Hayward, California

Project Number: 98-6073-008.00

Date of Photos: 12/11/98

A.C.C.
ENVIRONMENTAL
CONSULTANTS



Photograph 5: View of Shattered UST.



Photograph 6: Current View of Excavation Area

Project:
UST Removal
24200 Fairview Avenue
Hayward, California

Project Number: 98-6073-008.00

Date of Photos: 12/11/98

A.C.C
ENVIRONMENTAL
CONSULTANTS

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC002127672 Manifest Document No. 3006A 2. Page 1 of 1

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

3. Generator's Name and Mailing Address
City of Hayward Fire Station No. 8
777 B Street
Hayward, CA 94541
 4. Generator's Phone (510) 638-8400

A. State Manifest Document Number
98482094

5. Transporter 1 Company Name
DECON Environmental 6. US EPA ID Number
CAD982468183

B. State Generator's ID

C. State Transporter's ID
 D. Transporter's Phone
(510) 732-6444

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
DECKSON INC.
755 Parr Boulevard
Richmond CA 94801 10. US EPA ID Number
CAD009466392

G. State Facility's ID

H. Facility's Phone
(510) 235-1295

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)
 a. Non-HARA hazardous waste solid,
(empty tank)

12. Containers
 No. 001 Type TB 13. Total Quantity 0.0300 14. Unit Wt/Vol P

15. Waste Number
 State 612
 EPA/Other NDWG

b.
 c.
 d.

State
 EPA/Other
 State
 EPA/Other
 State
 EPA/Other

Additional Descriptions for Materials Listed Above
 a. Tank # 25087, 1000-gallon fiberglass,
previously containing diesel.

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

15. Special Handling Instructions and Additional Information
40hr OSHA trained handlers should use
NIOSH approved safety equipment. 24hr ER# (510) 475-2901
site: 24200 Fairview Ave. Hayward, 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 STEPHEN SOUTHERN FAIRVIEW Signature [Signature] Month 12 Day 11 Year 98

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name Richard Keyes Signature [Signature] Month 12 Day 11 Year 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

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

DO NOT WRITE BELOW THIS LINE.

CHROMALAB, INC.

Environmental Services (SDB)

December 17, 1998

Submission #: 9812203

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: FS#8
Received: December 11, 1998


Project#: 98-6073-008.00


re: 1 sample for TPH - Diesel analysis.
Method: EPA 8015M

Sampled: December 11, 1998 Matrix: WATER Run#: 16470
Extracted: December 15, 1998 Analyzed: December 16, 1998

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
220780	PIT-1	26000	2500	N.D.	103	50

Note: Surrogate has been diluted out. Hydrocarbon reported does not match the pattern of our Diesel standard.


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

December 18, 1998

Submission #: 9812203

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: FS#8

Project#: 98-6073-008.00

Received: December 11, 1998

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

Client Sample ID: PIT-1

Spl#: 220780


Matrix: WATER

Sampled: December 11, 1998

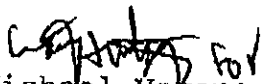
Run#:16463

Analyzed: December 14, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	3100	500	N.D.	100	10
MTBE	69	50	N.D.	90	10
BENZENE	14	5.0	N.D.	95	10
TOLUENE	64	5.0	N.D.	95	10
ETHYL BENZENE	31	5.0	N.D.	98	10
XYLENES	180	5.0	N.D.	93	10



Vincent Vancil
Analyst



Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

December 14, 1998

Submission #: 9812203

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: FS#8

Project#: 98-6073-008.00

Received: December 11, 1998

re: One sample for Fuel Oxygenates by GC/MS analysis.

Method: EPA SW846 Method 8260 Modified

Client Sample ID: PIT-1

Spl#: 220780


Matrix: WATER

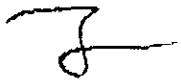
Sampled: December 11, 1998

Run#: 16474

Analyzed: December 12, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
METHYL TERTIARY BUTYL ETHER (MTBE)	140	50	N.D.	--	10


 Alex Tam
 Analyst


 Michael Verona
 Operations Manager

CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

43607
Chain of Custody

Environmental Services (SDB) (DOHS 1094)

DATE 11 Dec 98 PAGE 1 of 1

PROJ MGR STEPHEN SOUTHERN
COMPANY ACC Environmental Consultants
ADDRESS 7977 Capwell Drive, Suite 100
Oakland, California 94621

SAMPLERS (SIGNATURE) [Signature] (PHONE NO.) (510) 638-8400
(FAX NO.) (510) 638-8404

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	MTBE 8260	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	NUMBER OF CONTAINERS	
PT-1	12/11/98	1550	H ₂ O	COLD H ₂ O		X	X									X							A
BRUSH																							

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NAME <u>FS #8</u>	TOTAL NO OF CONTAINERS <u>4</u>	HEAD SPACE	
PROJECT NUMBER <u>98-6073-008.00</u>	REC'D GOOD CONDITION/COLD	CONFORMS TO RECORD	
P.O. # <u>98-6073-008.00</u>	TAT	STANDARD 5-DAY	<u>24</u> 48 72 OTHER

RELINQUISHED BY <u>[Signature]</u> 1650 (SIGNATURE) (TIME) <u>STEPHEN SOUTHERN</u> 12/11/98 (PRINTED NAME) (DATE) <u>ACC ENV. CONSULTANTS</u> (COMPANY)	RELINQUISHED BY 2 (SIGNATURE) (TIME) (PRINTED NAME) (DATE) (COMPANY)	RELINQUISHED BY (SIGNATURE) (TIME) (PRINTED NAME) (DATE) (COMPANY)
RECEIVED BY <u>[Signature]</u> 1700 (SIGNATURE) (TIME) <u>A. Paredes</u> 12/11/98 (PRINTED NAME) (DATE) <u>[Signature]</u> (COMPANY)	RECEIVED BY 2 (SIGNATURE) (TIME) (PRINTED NAME) (DATE) (COMPANY)	RECEIVED BY (LABORATORY) (SIGNATURE) (TIME) (PRINTED NAME) (DATE) (LABORATORY)

SPECIAL INSTRUCTIONS/COMMENTS
24 Hr

CHROMALAB, INC.

Environmental Services (SDB)

December 30, 1998

Submission #: 9812388

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: FIRE STATION #8
Received: December 23, 1998

Project#: 6073-008.03

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

Client Sample ID: DRUM(D1-D4)

Spl#: 222759

Matrix: WATER

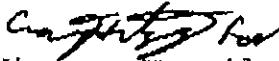
Sampled: December 22, 1998


Run#:16708

Analyzed: December 28, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	2500	N.D.	82	50
BENZENE	N.D.	25	N.D.	96	50
TOLUENE	78	25	N.D.	99	50
ETHYL BENZENE	N.D.	25	N.D.	97	50
XYLENES	180	25	N.D.	96	50

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 3200ug/L.


Vincent Vancil
Analyst


Michael Verona
Operations Manager

510-638-8404

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096

PM V132 D: BTEX00220
CRAIG 17 38

CHROMALAB, INC.

Environmental Services (SDB)

January 5, 1999

Submission #: 9812388

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: FIRE STATION #8
Received: December 23, 1998

Project#: 6073-008.03

re: 2 samples for TPH - Diesel analysis.
Method: EPA 8015MMatrix: WATER
Sampled: December 22, 1998 Run#: 16798
Extracted: December 30, 1998
Analyzed: January 1, 1998

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
222760	PIT(P1-P4)	680000	5000	N.D.	101	100

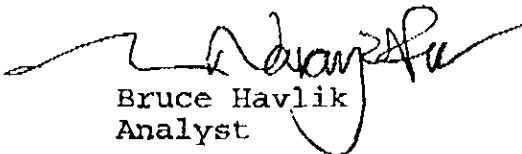
Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.
Surrogate diluted out. silica gel cleanup.

Matrix: WATER
Sampled: December 22, 1998 Run#: 16798
Extracted: December 30, 1998
Analyzed: January 3, 1998

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
222759	DRUM(D1-D4)	150000	5000	N.D.	101	100

Note: Hydrocarbon reported does not match the pattern of our Diesel Standard.
Surrogate diluted out. silica gel cleanup.


Carolyn House
Analyst


Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDS)

December 30, 1998

Submission #: 9812388

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: FIRE STATION #8
Received: December 23, 1998

Project#: 6073-008.03

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

Client Sample ID: PIT(P1-P4)

Spl#: 222760

Matrix: WATER

Sampled: December 22, 1998

Run#: 16736

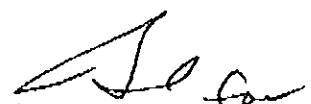
Analyzed: December 28, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	500	N.D.	93	10
BENZENE	6.3	5.0	N.D.	100	10
TOLUENE	38	5.0	N.D.	99	10
ETHYL BENZENE	880	5.0	N.D.	101	10
XYLENES	510	5.0	N.D.	95	10

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile. If quantified using Gasoline's response factor, concentration would equal 130000ug/L.



Vincent Vancil
Analyst



Michael Verona
Operations Manager

510-638-8404

1220 Quarry Lane • Pleasanton, California 94566-4756
(925) 484-1919 • Facsimile (925) 484-1096

PM V132 O: BTEXQC0220
CRAIG 12/36

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

SUBM #: 9812388 REP: PH

CLIENT: ACC

DUE: 12/28/98

REF #: 43813

Chain of Custody

DATE 12/22/98 PAGE 1 OF 1

ANALYSIS REPORT

PROJ MGR David DeMent
 COMPANY ACC Environmental
 ADDRESS 7977 Capwell Drive
Oakland CA 94621

SAMPLERS (SIGNATURE) Bret Culbert (PHONE NO.) (510) 638-8400
 (FAX NO.) 638-8404

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 351073550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, 8+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (ICLP, STLC)	NUMBER OF CONTAINERS
Drum (D1-D4)			WATER		X	X	X														4
PIT (P1-P4)			"		X	X	X														4

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NAME <u>Fire Station #8</u>	TOTAL NO. OF CONTAINERS <u>4</u>	HEAD SPACE	REC'D GOOD CONDITION/COLD <u>29%</u>
PROJECT NUMBER <u>6073-008.00</u>	CONFORMS TO RECORD		
P.O.# <u>6073-008.00</u>			
TAT	STANDARD 5-DAY	24	48
		72	OTHER

RELINQUISHED BY	RELINQUISHED BY	RELINQUISHED BY
<u>Bret Culbert</u> 1:02p (SIGNATURE) (TIME)	<u>David DeMent</u> (SIGNATURE) (TIME)	<u>[Signature]</u> 12/18 (SIGNATURE) (TIME)
<u>Bret Culbert</u> releaser (PRINTED NAME) (DATE)	<u>David DeMent</u> 12/23/98 (PRINTED NAME) (DATE)	<u>[Signature]</u> 12/23/98 (PRINTED NAME) (DATE)
<u>Acc</u> (COMPANY)	<u>Acc Environmental</u> (COMPANY)	<u>[Signature]</u> (COMPANY)

SPECIAL INSTRUCTIONS/COMMENTS:
NOA
1 sample for real

RECEIVED BY	RECEIVED BY	RECEIVED BY (LABORATORY)
<u>David DeMent</u> 1:02pm (SIGNATURE) (TIME)	<u>[Signature]</u> 12/23/98 (SIGNATURE) (TIME)	<u>Cassidy</u> (SIGNATURE) (TIME)
<u>David DeMent</u> 12/23/98 (PRINTED NAME) (DATE)	<u>[Signature]</u> 12/23/98 (PRINTED NAME) (DATE)	<u>C. Cassidy</u> 12/17 (PRINTED NAME) (DATE)
<u>Acc Environmental</u> (COMPANY)	<u>[Signature]</u> (COMPANY)	<u>CLC</u> 12-23-98 (LAB)

CHROMALAB, INC.

Environmental Services (SOB)

January 15, 1999

Submission #: 9901142

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: FS#8

Project#: 98-6073-008.00

Received: January 14, 1999

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

Client Sample ID: DISPENSER

Spl#: 225076

Matrix: SOIL

Sampled: January 14, 1999

Run#:16970

Analyzed: January 14, 1999

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	1.1	N.D.	99	1
BENZENE	N.D.	0.0050	N.D.	92	1
TOLUENE	N.D.	0.0050	N.D.	90	1
ETHYL BENZENE	N.D.	0.0050	N.D.	88	1
XYLENES	0.021	0.0050	N.D.	87	1

Vincent Vancil
Analyst

Michael Verona
Operations Manager

uTBE?

CHROMALAB, INC.

Environmental Services (SDB)

January 15, 1999

Submission #: 9901142

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern


Project: FS#8
Received: January 14, 1999

Project#: 98-6073-008.00


re: 1 sample for TPH - Diesel analysis.
Method: EPA 8015MMatrix: SOIL
Run#: 16951
Sampled: January 14, 1999
Extracted: January 14, 1999
Analyzed: January 15, 1999

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
225076	DISPENSER	1300	10	N.D.	84.5	10

Note: Surrogate Recoveries biased high due to Hydrocarbon co-elution.



Carolyn House
Analyst



Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1098

Reference #: _____

Chain of Custody

DATE 4 JAN 99 PAGE 1 OF 1

PROJECT INFORMATION					ANALYSIS REPORT													NUMBER OF CONTAINERS							
SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH-EPA 8015, 8020 <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX DMTR	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) Dibenzodioxin, DDB, DM, D.	PURGEABLE HALOCARBONS, (BYOC) (EPA 8010)	VOLATILE ORGANICS (VOC) (EPA 8260)	SEMI-VOLATILES (EPA 8270)	TOTAL OIL AND GREASE ISM 6520 B+F, E+F)	<input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8080)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)		TOTAL LEAD	D.W.E.T. (STLC) DTCLP	<input type="checkbox"/> Resorcinol Chromium <input type="checkbox"/> pH (24 hr hold time for H2O)				
DISPENSOR	1/4/99	1015	SOIL	COOL	X		X																		1

PROJECT INFORMATION				SAMPLE RECEIPT				REQUISITIONED BY			DELIVERED BY			RECEIVED BY		
PROJECT NAME FS #8	TOTAL NO. OF CONTAINERS	HEAD SPACE	TEMPERATURE	CONFIRMS TO RECORD	SIGNATURE <i>Stephen Southern</i>			SIGNATURE <i>Stephen Southern</i>			SIGNATURE			SIGNATURE		
PROJECT NUMBER 98-6073-008-00					PRINTED NAME STEPHEN SOUTHERN			PRINTED NAME STEPHEN SOUTHERN			PRINTED NAME			PRINTED NAME		
P.O. # 98-6073-008-00					COMPANY ACC ENV.			COMPANY			COMPANY			COMPANY		
TAT	STANDARD 5-DAY		<input checked="" type="checkbox"/> 24	<input type="checkbox"/> 48	<input type="checkbox"/> 72	OTHER	RECEIVED BY <i>C. Cassidy</i>			RECEIVED BY			RECEIVED BY (LABORATORY)			
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic Report				SPECIAL INSTRUCTIONS/COMMENTS: 24 HR TAT				SIGNATURE <i>C. Cassidy</i>			SIGNATURE			SIGNATURE		
								PRINTED NAME C. Cassidy			PRINTED NAME			PRINTED NAME		
								DATE 1-14-99			DATE			DATE		
								COMPANY			COMPANY			COMPANY		

CHROMALAB, INC.

Environmental Services (SDB)

April 6, 1999

Submission #: 9904038

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: CITY OF HAYWARD FS8
Received: April 2, 1999

Project#: 6073-008.00

re: 1 sample for TPH - Diesel analysis.
Method: EPA 8015M

Sampled: April 2, 1999

Matrix: WATER
Run#: 18170

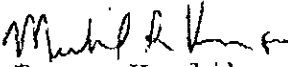
Extracted: April 2, 1999
Analyzed: April 3, 1999

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
235243	FS8-PIT	6100	50	N.D.	82.4	1

Note: Hydrocarbon reported is in the early Diesel Range and does not match our Diesel Standard. Surrogate Recoveries biased high due to Hydrocarbon co-elution.

Carolyn House
Analyst




Bruce Havlik
Analyst

CHROMALAB, INC.

Environmental Services (SDB)

April 6, 1999

Submission #: 9904038

ACC ENVIRONMENTAL CONSULTANTS

Atten: Stephen Southern

Project: CITY OF HAYWARD FS8
Received: April 2, 1999

Project#: 6073-008.00

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

Client Sample ID: FS8-PIT

Spl#: 235243

Matrix: WATER


Sampled: April 2, 1999

Run#:18200

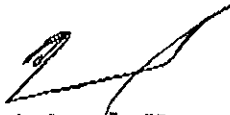
Analyzed: April 5, 1999

ANALYTE	RESULT	REPORTING	BLANK	BLANK	DILUTION
	(ug/L)	LIMIT	RESULT	SPIKE	
	(ug/L)	(ug/L)	(ug/L)	(%)	FACTOR
GASOLINE	700	250	N.D.	101	5
MTBE	N.D.	25	N.D.	111	5
BENZENE	N.D.	2.5	N.D.	106	5
TOLUENE	5.5	2.5	N.D.	105	5
ETHYL BENZENE	11	2.5	N.D.	102	5
XYLENES	55	2.5	N.D.	99	5

Note: Hydrocarbon found in Gasoline Range is uncharacteristic of Gasoline Profile.



Craig Huntzinger
Analyst



Michael Verona
Laboratory Operations Manager

CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4756
510/484-1919 • Facsimile 510/484-1096

RUSH

Chain of Custody

Environmental Services (SDB) (DOHS 1094)

DATE 2 April 99 PAGE 1 OF 1

PROJ. MGR STEPHEN SOUTHERN
 COMPANY ACC Environmental Consultants
 ADDRESS 7977 Capwell Drive, Suite 100
Oakland, California 94621
 SAMPLERS (SIGNATURE) [Signature] (PHONE NO.) (510) 638-8400
 (FAX NO.) (510) 638-8404

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	MTBE	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	NUMBER OF CONTAINERS
F58-PIT	4/2/99	1500	H ₂ O	HCL		X	X									X						5

IN

W X O A S
AMBLE

PROJECT INFORMATION
 PROJECT NAME CITY OF HAYWARD F58
 PROJECT NUMBER 6073-008.00
 P.O.# 6073-008.00

SAMPLE RECEIPT
 TOTAL NO. OF CONTAINERS 5
 HEAD SPACE
 REC'D GOOD CONDITION/COLD
 CONFORMS TO RECORD

TAT STANDARD 5-DAY 24 48 72 OTHER

RELINQUISHED BY 1. [Signature] 1540
 (SIGNATURE) (TIME)
STEPHEN SOUTHERN 4/2/99
 (PRINTED NAME) (DATE)
 ACC ENV.
 (COMPANY)

RELINQUISHED BY 2. _____
 (SIGNATURE) (TIME)
 (PRINTED NAME) (DATE)
 (COMPANY)

RECEIVED BY 1. _____
 (SIGNATURE) (TIME)
 (PRINTED NAME) (DATE)

RECEIVED BY 2. RECEIVED BY (LABORATORY)
[Signature] 4/02/99
 (SIGNATURE) (TIME)
CRISTINA 15:46
 (PRINTED NAME) (DATE)

SPECIAL INSTRUCTIONS/COMMENTS:
AB HR TAI