Ecology Recovery Associates

1989-A Santa Rita Road, Suite 365 Pleasanton, CA 94566 (510) 484-4760 FAX (510) 484-4463

January 6, 1997

Ms. Chris Boykin
Fire Prevention/Hazardous Materials
Pleasanton Fire Department
4444 Railroad St.
Pleasanton, CA 94566

Subject:

REPORT on SOIL REMOVAL and REQUEST FOR SITE CLOSURE.

Fire Station No. 3 Pleasanton, California

1. BACKGROUND:

During removal of two underground fuel tanks at Fire Station 3, diesel fuel contamination was detected in the excavated soil as well as in one sample from the south side wall of the excavation. This contamination is documented in the Report by W.A. Craig, Inc. dated September 20, 1996. **Ecology Recovery Associates (ERA)** was hired by the City of Pleasanton to excavate additional soil and to coordinate disposal of the contaminated soil.

2. SOIL SAMPLING:

The Craig report indicates that one soil sample for the south side wall of the excavation was contaminated with 2,800 mg/kg TPH-diesel. On November 27, 1996 approximately 12 cubic yards of soil was removed from a four foot thick cut along the south wall of the excavation. This material was stockpiled with the existing soil and covered with visqueen. Two additional soil samples were collected (Figure 1) at this time. Neither of these samples contained detectible TPH-gasoline. One sample, number 96-104-1, from a two foot thick gravel layer located two feet below the surface contained 12,000 mg/kg TPH-diesel (Table 1). Two additional samples were collected on December 9, 1996 from the dense clay layer underlying the gravel layer. Neither of these samples contained detectible TPH-diesel. Evidently the diesel moved downward into the gravel layer and did not migrate deeper into the clay.

On December 19, 1996 and additional three foot cut (seven cubic yards) of soil were removed from the south side wall. The gravel layer was again sampled (96-104-5) resulting in 2 mg/kg TPH-diesel. This level is well below the RWQCB action limit of 100 mg/kg.

4. SOIL DISPOSAL

On December 19, three truck loads totaling 74.71 tons of soil was loaded and transported to TPS, Inc. in Richmond, California. These loads include all the soil excavated from Fire Station 3 and the twelve cubic yards moved previously from Fire Station 1. TPS is a thermal desorption soil processing facility fully permitted by regulatory agencies. Copies of waste disposal manifests are attached (Appendix 2).

The excavation was backfilled with appropriate fill to a level within eight inches of the surface in preparation for covering with asphalt.

REQUEST FOR CLOSURE:

Based on the removal and proper disposal of the contaminated soil and the subsequent sampling indicating TPH levels are Fire Station No. 3 well below action levels, project closure is appropriate.

Sincerely,

Gary A Tompkins, Ph.D

Calif. REA No. 5823

Attachments:

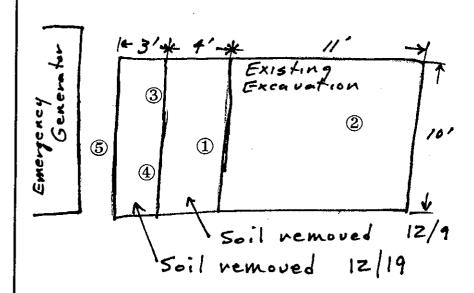
Figure 1 - Sampling Locations

Table 1 - Summary of Laboratory Results Appendix 1 - Laboratory Analytical Reports Appendix 2 - Waste Disposal Manifests

Table 1. Summary of laboratory results from soil sampling at Fire Station No. 3 excavation, Pleasanton, CA.

	Sample I D	Date	Location	TPH-d	ТРН-д
	96-104-1	11/27/96	South side wall-gravel layer	12,000	N.D. ¹
	96-104-2	11/27/96	Center bottom of excavation	N.D.	N.D.
	96-104-3	12/9/96	South side wall - clay layer	N.D.	N.A.R. ²
	96-104-4	12/9/96	South side wall - clay layer	N.D.	N.A.R.
	96-104-5	12/19/96	South side wall - gravel layer	2.0	N.A.R.
,					

N.D. = Not detected above reporting limit. See attached lab reports of reporting limits. N.A.R. = No analysis required.





Location No.	Sample No.	Location	Depth	Date Sampled
1	96-104-1	south side wall, gravel layer	4'	Nov 27
2	96-104-2	center bottom, sandy clay	9.5'	Nov 27
3	96-140-3	south side wall, clay layer	4.5'	Dec 09
④	96-140-4	south side wall, clay layer	5.5	Dec 09
(5)	96-140-5	south side wall, gravel layer	4'	Dec 19

Pleasanton Fire Station No. 3 Soil Removal and Remediation December, 1996

Ecology Recovery Associates Pleasanton, CA

Appendix 1

Laboratory Analytical Reports

8 pages

Environmental Services (SDB)

December 6, 1996

Submission #: 9611366

ECOLOGY RECOVERY

Atten: Gary Tompkins

Project: PLEASANTON 2

Received: November 27, 1996

Project#: 104

re: 2 samples for TPH- Gasoline analysis.

Method: EPA 8015M

Matrix: SOIL

Sampled: November 27, 1996 Run#: 4371

Analyzed: December 5, 1996

Spl# CLIENT SPL ID	GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
109057 96-104-1	N.D.	52	N.D.	90.8	500
Note: Surrogate r See Surroga Interferenc	ecovery was outside te Summary page. Re e.	QA/QC limits of eporting Limits	lue to samp Increased	le inter Due To S	rference
109058 96-104-2	N.D.	1.0	N.D.	90.8	1

Kayvan Kimyai

Chemist

Marianne Alexander Gas/BTEX Supervisor

Environmental Services (SDB)

December 6, 1996

Submission #: 9611366

ECOLOGY RECOVERY

Atten: Gary Tompkins

Project: PLEASANTON 2

Received: November 27, 1996

Project#: 104

re: 2 samples for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: SOIL Sampled: November 27, 1996

Extracted: December 5, 1996

Analyzed: December 6, 1996

REPORTING BLANK BLANK DILUTION DIESEL LIMIT RESULT SPIKE FACTOR CLIENT SPL ID (mg/Kg) (mg/Kg) (mg/Kg)109057 96-104-1 12000 100 N.D. 109058 96-104-2 12000 500-N-D-500-

Run#: 4356

Bruce Havlik Chemist

Alex Tam

Semivolatiles Supervisor

A laboratory error occurred in the analysis of sample 109058 96-104-2 on 12/6/96. This sample was re-run on 12/10/96 (as sample 110182) and determined to be N.D. for TPH-D. See submission 9612107.



Environmental Services (SDB)

December 10, 1996

Submission #: 9612107

REVISED FROM REPORT SENT

PREVIOUSLY.

ECOLOGY RECOVERY

Atten: Gary Tompkins

Project: PLEASANTON 2

Project#: 104

Received: November 27, 1996

re: 1 sample for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: SOIL

Extracted: December 9, 1996

Sampled: November 27, 1996

Run#: 4414

Analyzed: December 10, 1996

DIESEL

REPORTING

BLANK BLANK DILUTION

CLIENT SPL ID

LIMIT (mg/Kg)

(mg/Kg)

RESULT SPIKE FACTOR

<u>Spl# CLIENT S</u> 110182 96-104-2

(mg/Kg) $\overline{\text{N.D.}}$

1.0

(왕)

Bruce Havlik Chemist

Alex Tam

Semivolatiles Supervisor

Chain of Custody

CHROMALAB, INC.

SUBM #: 9611366 REP: MU

CLIENT: ECOLREC 12/06/96

REF ##30965

Environmental Services (SDB) (DOHS 1094) COMPANY Ecology Recovery
ADDRESS 1989 A Soura Rits PURGEABLE HALOCARBONS (EPA 601, 8010) ž PURGEABLE AROMATICS BTEX (EPA 602, 8020) BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525) NUMBER OF CONTAINERS TOTAL RECOVERABLE
HYDROCARBONS (EPA LUFT METALS: Cd, Cr, Pb, Zn, PRIORITY POLLUTANT METALS (13) ТРН (Diese) (ТРН (EPA 3510/3550, 8015) **VOLATILE ORGANICS** (EPA 624, 8240, 524.2) TOTAL OIL & GREASE (EPA 5520, 8+F, E+F) CAM METALS (17) TPH - Gasoline (EPA 5030, 8015) (EPA 608, 8080) 484-476 OPHONE NO.) TOTAL LEAD 484-4463 (FAX NO.) MATRIX PRESERV. PROJECT INFORMATION PROJECT NAME: Pleasanton Z SAMPLE RECEIPT RELINQUISHED BY RELINQUISHED BY 2. RELINQUISHED BY TOTAL NO. OF CONTAINERS G TOMPKINS 1/20 PROJECT NUMBER (SIGNATURE) HEAD SPACE (SIGNATURE) (TIME) REC'D GOOD CONDITION/COLD P.O. # (PRINTED NAME) (PRINTED NAME) (DATE) CONFORMS TO RECORD STANDARD (COMPANY) OTHER RECEIVED BY RECEIVED BY RECEIVED BY (LABORATORY) SPECIAL INSTRUCTIONS/COMMENTS (SIGNATURE) (SIGNATURE) (PRINTED NAME) (PRINTED NAME)

Environmental Services (SDB)

December 16, 1996

Submission #: 9612108

ECOLOGY RECOVERY

Atten: Gary Tompkins

Project: PLEASANTON-2

Project#: 104

Received: December 9, 1996

re: 2 samples for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: SOIL

Extracted: December 11, 1996

Sampled: December 9, 1996

Run#: 4457

Analyzed: December 11, 1996

		REPORTING	BLANK	BLANK	DILUTION
	DIESEL	LIMIT	RESULT	SPIKE	FACTOR
Spl# CLIENT SPL ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)	
110185 96-104-3	N.D.	1.0	N.D.	67.0	1
110186 96-104-4	N.D.	1.0	N.D.	67.0	1

Bruce Havlik

Chemist

Alex Tam

Semivolatiles Supervisor

100/110183-110106

CHROMALAB, INC.

SHRM #: 9612108 REP: MV

CLIENT: ECOLREC

DHE: 12716796

REF #:31109

custody seals on contriners

Chain of Custody

DATE 12/9/96 PAGE _ _ OF _ ____ Environmental Services (SDB) (DOHS 1094) ANALYSIS REPORT ラ PURGEABLE AROMATICS BTEX (EPA 602, 8020) BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525) NUMBER OF CONTAINERS PRIORITY POLLUTANT METALS (13) (EPA 624, 8240, 524.2) TOTAL OIL & GREASE (EPA 5520, 8+F, E+F) TOTAL RECOVERABLE HYDROCARBONS (EPA **VOLATILE ORGANICS** LUFT METALS: Cd, Cr, Pb, CAM METALS (17) SAMPLERS (SIGNATURE) TOTAL LEAD EXTRACTION TPH - Diesel, TCLP, STLC) SAMPLE FROM END INDICATED SAMPLE HERE SAMPLE RECEIPT RELINQUISHEDAY RELINQUISHED BY RELINQUISHED BY TOTAL NO. OF CONTAINERS TIMEY (SIGNATURE) (SIGNATURE) HEAD SPACE 12/9/9 REC'D GOOD CONDITION/COLD (PRINTED NAME) (PRINTED NAME) (DATE) CONFORMS TO RECORD Recover (COMPANY) COMPANY 72 OTHER RECEIVED BY RECEIVED BY SPECIAL INSTRUCTIONS/COMMENTS: Please FAX Results (SIGNATURE) (TIME) (SIGNATURE) Samples brought in by Bary Tompkins personally-IPPINTED NAME (DATE) (PRINTED NAME)



Environmental Services (SDB)

December 26, 1996

Submission #: 9612267

ECOLOGY RECOVERY

Atten: Gary Tompkins

Project: 104

Project#:

104

Received: December 19, 1996

re: 1 sample for TPH - Diesel analysis.

Method: EPA 8015M

Matrix: SOIL

Extracted: December 20, 1996

Sampled: December 19, 1996 Run#: 4580

Analyzed: December 22, 1996

DIESEL

REPORTING

BLANK

BLANK DILUTION

CLIENT SPL ID

LIMIT

RESULT

SPIKE FACTOR

(mg/Kg)

(mg/Kg)

(mq/Kq)

111608 96-104-5

N.D.

2.0

1.0

72.0 They do not have a pattern

Note: Compounds reported are in the Diesel range.

characteristic of petroleum hydrocarbons.

Bruce Havlik

Chemist

Semivolatiles Supervisor

SUBM #: 9612267 REP: MV

CLIENT: ECOLREC 12/27/96 DUE:

REF #:31290

Chain of Custody

PAGE _____OF Environmental Services (SDB) (DOHS 1094) ANALYSIS REPORT Gary A. Tompkins PROJ MGR PURGEABLE HALOCARBONS COMPANY Ecology Recovery Associates TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020) Zu, Ni NUMBER OF CONTAINERS PURGEABLE AROMATICS BTEX (EPA 602, 8020) BASE/NEUTRALS, ACIDS (EPA 62S/627, 8270, 525) PRIORITY POLLUTANT METALS (13) VOLATILE ORGANICS (EPA 624, 8240, 524.2) TPH - Diesel, 1994 (TEPA-3510/3550, 8015) TOTAL RECOVERABLE HYDROCARBONS (EPA ADDRESS 1989 A Santa Rita Rd. # 365 TOTAL OIL & GREASE (EPA 5520, 8+F, E+F) LUFT METALS: Cd, Cr, Pb, CAM METALS (17) Pleasanton, CA 94566 PESTICIDES (EPA 608, 8080) (EPA 608, 8080) (EPA 601, 8010) EXTRACTION (TCLP, STLC) TOTAL LEAD (PHONE NO.) SAMPLERS (SIGNATURE) 510-484-4760 (FAX NO.) 510-484-4463 MATRIX PRESERV. SAMPLE ID. RELINQUISHED BY RELINQUISHED BY RELINQUISHED BY SAMPLE RECEIPT **PROJECT INFORMATION** PROJECT NAME: TOTAL NO. OF CONTAINERS (TIME) (SIGNATURE) (SIGNATURE) PROJECT NUMBER 12 19/96 (DATE) **HEAD SPACE** Gary Tompkins
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Appendix 2

Waste Disposal Manifests 4 pages

Soil Master (c)

TPS Technologies, Inc.

Customer	Job	Report
Customa	$\mathbf{v} \sim$	7.0

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Complete 50.00		nifests Received	Completed Weight 49.80%	Estimated 150 (tons		TOTAL 74.71	Net Wt. (tons)

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	Pleasanto	n, CH	94546		FAX#:		Customer Acco	ount Number v	vith TPS:	
						*.Phone #: 4-70				
	Consultant's Name and Billing A	ta Rifa	, Rd 436	5		ontact: WWW.		neut Number 1	with TPC.	
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Generator and/or Consultant	the recognition towns				1) 10 - 50 - 4-54					
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