

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

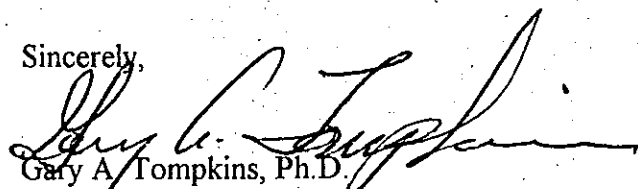
On December 19, three truck loads totaling 74.71 tons of soil was loaded and transported to TPS, Inc. in Richmond, California. These loads include all the soil excavated from Fire Station 3 and the twelve cubic yards moved previously from Fire Station 1. TPS is a thermal desorption soil processing facility 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

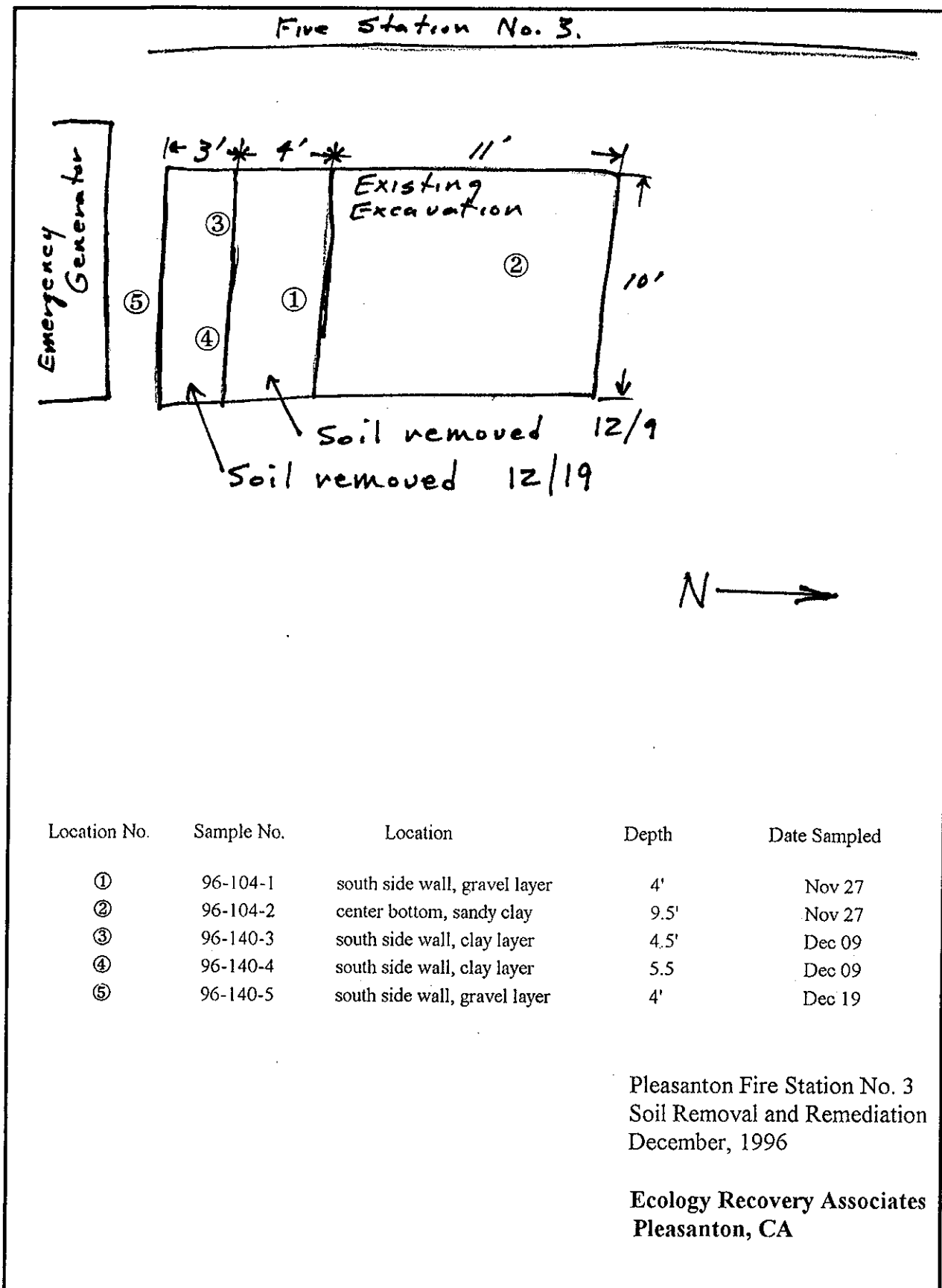
Attachments: Figure 1 - Sampling Locations
 Table 1 - Summary of Laboratory Results
 Appendix 1 - Laboratory Analytical Reports
 Appendix 2 - Waste Disposal Manifests

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

Sample ID	Date	Location	TPH-d	TPH-g
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.

¹ N.D. = Not detected above reporting limit. See attached lab reports of reporting limits.

² N.A.R. = No analysis required.



Appendix 1
Laboratory Analytical Reports

8 pages

CHROMALAB, INC.

Environmental Services (SDB)

December 6, 1996

Submission #: 9611366

ECOLOGY RECOVERY

Atten: Gary Tompkins

Project: PLEASANTON 2
Received: November 27, 1996

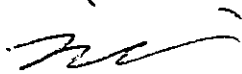
Project#: 104

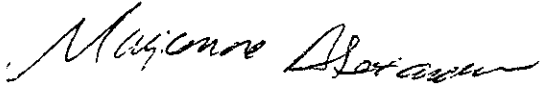
re: 2 samples for TPH- Gasoline analysis.
Method: EPA 8015M

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 recovery was outside QA/QC limits due to sample interference. See Surrogate Summary page. Reporting Limits Increased Due To Sample Interference.						
109058	96-104-2	N.D.	1.0	N.D.	90.8	1


Kayvan Kimyai
Chemist


Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

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 Run#: 4356
Extracted: December 5, 1996
Analyzed: December 6, 1996

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
109057	96-104-1	12000	100	N.D.	77.4	100
109058	96-104-2	12000	500	N.D.	77.4	500


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.

CHROMALAB, INC.

Environmental Services (SDB)

December 10, 1996

ECOLOGY RECOVERY

Atten: Gary Tompkins

Submission #: 9612107

REVISED FROM REPORT SENT
PREVIOUSLY.

Project: PLEASANTON 2
Received: November 27, 1996


Project#: 104

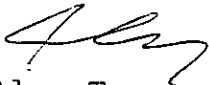
re: 1 sample for TPH - Diesel analysis.
Method: EPA 8015M

Matrix: SOIL
Sampled: November 27, 1996 Run#: 4414

Extracted: December 9, 1996
Analyzed: December 10, 1996

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
110182	96-104-2	N.D.	1.0	N.D.	83.8	1


Bruce Havlik
Chemist


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

December 16, 1996

Submission #: 9612108

ECOLOGY RECOVERY

Atten: Gary Tompkins

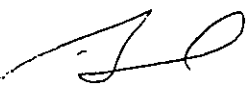
Project: PLEASANTON-2
Received: December 9, 1996


Project#: 104

re: 2 samples for TPH - Diesel analysis.
Method: EPA 8015M

Matrix: SOIL
Sampled: December 9, 1996 Run#: 4457
Extracted: December 11, 1996
Analyzed: December 11, 1996

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
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

100/110185-110106
CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

SUBM #: 9612108 REP: NV
 CLIENT: ECOLREC
 DUE: 12/16/96
 REF #: 31109

31109
Chain of Custody

DATE 12/9/96 PAGE 1 OF 1

PROJ MGR <u>GARY TOMPKINS</u>					ANALYSIS REPORT														NUMBER OF CONTAINERS					
COMPANY <u>Ecology Recovery</u>					TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel, BTEX (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)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)		TOTAL LEAD	EXTRACTION (TCLP, STLC)			
ADDRESS <u>1989 A Santa Rita #365 Pleasanton, CA 94566</u>					SAMPLERS (SIGNATURE) <u>510-484-4760 (PHONE NO.) 484 4463 (FAX NO.)</u>																			
SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.																				
96-104-3	12/9	1340	Soil	No			X															1		
96-104-4	12/19	1343	Soil	No			X															1		
TAKE SAMPLE FROM END INDICATED BY CLIENT → "SAMPLE HERE" SA 12/9/96																								

PROJECT INFORMATION				SAMPLE RECEIPT				RELINQUISHED BY 1			RELINQUISHED BY 2			RELINQUISHED BY 3		
PROJECT NAME: <u>Pleasanton - 2</u>		TOTAL NO. OF CONTAINERS: <u>2</u>		RELINQUISHED BY 1: <u>Gary Tompkins</u> (SIGNATURE) <u>12/9/96</u> (DATE)			RELINQUISHED BY 2: _____ (SIGNATURE) _____ (DATE)			RELINQUISHED BY 3: _____ (SIGNATURE) _____ (DATE)						
PROJECT NUMBER: <u>104</u>		HEAD SPACE: _____		RELINQUISHED BY 1: <u>Ecology Recovery</u> (PRINTED NAME)			RELINQUISHED BY 2: _____ (PRINTED NAME)			RELINQUISHED BY 3: _____ (PRINTED NAME)						
P.O. # _____		REC'D GOOD CONDITION/COLD: _____		RELINQUISHED BY 1: _____ (COMPANY)			RELINQUISHED BY 2: _____ (COMPANY)			RELINQUISHED BY 3: _____ (COMPANY)						
TAT	<u>STANDARD 5-DAY</u>	24	48	72	OTHER	RECEIVED BY 1: _____ (SIGNATURE) _____ (DATE)			RECEIVED BY 2: _____ (SIGNATURE) _____ (DATE)			RECEIVED BY (LABORATORY) 3: <u>Sammy Antone</u> (SIGNATURE) <u>12/9/96</u> (DATE)				
SPECIAL INSTRUCTIONS/COMMENTS: <u>Please Fax Results</u> <u>Samples brought in by Gary Tompkins personally -</u>												RECEIVED BY (LABORATORY) 3: _____ (SIGNATURE) _____ (DATE)				

no custody seals on containers (tubes) - in shipping container

CHROMALAB, INC.

Environmental Services (SDB)

December 26, 1996

Submission #: 9612267

ECOLOGY RECOVERY

Atten: Gary Tompkins

Project: 104
Received: December 19, 1996

Project#: 104

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

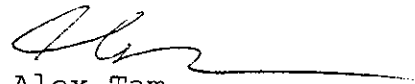
Matrix: SOIL
Sampled: December 19, 1996 Run#: 4580
Extracted: December 20, 1996
Analyzed: December 22, 1996

Spl#	CLIENT SPL ID	DIESEL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
111608	96-104-5	2.0	1.0	N.D.	72.0	1

Note: Compounds reported are in the Diesel range. They do not have a pattern characteristic of petroleum hydrocarbons.



Bruce Havlik
Chemist



Alex Tam
Semivolatiles Supervisor

Appendix 2

Waste Disposal Manifests 4 pages

Soil Master (c)

TPS Technologies, Inc.

Customer Job Report

Job Number Name	Site Address	Site City	State	Zip Code
A04 -- 00077 Fire Station No. 3	3200 Santa Rita Road	Pleasanton	CA	94566

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	12/19/96 16:19	4CABARE	C88 -- 88B	77.120M	30.360M	46,760	23.38
2	12/19/96 16:20	4CABARE	RB10 -- T10	69.420M	30.820M	38,600	19.30
3	12/19/96 16:20	4CABARE	2005 -- 97	96.860M	32.800M	64,060	32.03

Completed Loads 50.00%	Manifests Received 3	Completed Weight 49.80%	Estimated Weight 150 (tons)	TOTAL Net Wt. 74.71 (tons)
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[SM-RPT9]

12/20/96

Manifest

Technologies Soil Recycling

Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment: CONSULTANT	Transporter Truck #:	Facility #: A04	Given by TPS: 00077	Load #: 003										
Generator's Name and Billing Address: CITY OF PLACENTON P.O. BOX 520 PLACENTON, CA 94506		Generator's Phone #:		Generator's US EPA ID No.:											
Person to Contact:		FAX#:		Customer Account Number with TPS:											
Consultant's Name and Billing Address: Ecology Recovery (19504) Mesa Santa Rita Rd #365 PLACENTON, CA 94506		Consultant's Phone #: 916-424-4700		Customer Account Number with TPS: 1002793											
Person to Contact: DAVE TOMPKINS		FAX#: 916-424-4413		Customer Account Number with TPS:											
Generation Site (Transport from): (name & address) TIKE STATION NO. 3 3200 SANTA RITA RD. PLACENTON, CA 94506		Site Phone #:		BTEX Levels:											
Person to Contact:		FAX#:		TPH Levels:											
Designated Facility (Transport to): (name & address) TPS TECHNOLOGIES INC 2530 BERESSIA RD SAN JOSE, CA 94701		Facility Phone #: 415-251-4544		Facility Permit Numbers:											
Person to Contact: D. K. ...		FAX#: 415-251-4544		Facility Permit Numbers:											
Transporter Name and Mailing Address: Caballero Trucking 2530 Beressia Rd SAN JOSE, CA		Transporter's Phone #:		Transporter's US EPA ID No.:											
Person to Contact:		FAX#:		Transporter's DOT No.:											
Description of Soil		Moisture Content		Contaminated by:		Approx. Qty:		Description of Delivery		Gross Weight		Tare Weight		Net Weight	
Sand <input type="checkbox"/>	Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	20 Y											
Clay <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	10 - 20% <input checked="" type="checkbox"/>	Diesel <input checked="" type="checkbox"/>												
		20% - over <input type="checkbox"/>	Other <input type="checkbox"/>												
Sand <input type="checkbox"/>	Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>												
Clay <input type="checkbox"/>	Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>												
		20% - over <input type="checkbox"/>	Other <input type="checkbox"/>												
List any exception to items listed above:															
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.															
Print or Type Name: TOMPKINS Generator <input type="checkbox"/> Consultant <input checked="" type="checkbox"/>										Signature and date: <i>[Signature]</i>		Month Day Year: 12/19/96			
Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.															
Print or Type Name: MAR RIGGIE										Signature and date: <i>[Signature]</i>		Month Day Year: 12/19/96			
Discrepancies:															
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:															
Print or Type Name: ARON RIGGIE										Signature and date: <i>[Signature]</i>					

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

Manifest

Technologies Soil Recycling

Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment: Consultant	Transporter Truck #:	Facility #: ACA	Given by TPS: 00077	Load #: 0012
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Generator's Name and Billing Address: City of Pleasanton P.O. Box 520 Pleasanton, CA 94566	Generator's Phone #:	Generator's US EPA ID No.:
	Person to Contact:	
	FAX#:	Customer Account Number with TPS:

Consultant's Name and Billing Address: EcoLogic Recovery Assoc. 1989 A Santa Rita Rd #365 200 Pleasanton, CA 94566	Consultant's Phone #: 916-444-4166	Generator's US EPA ID No.:
	Person to Contact: Mark Tompkins	
	FAX#: 916-444-4103	Customer Account Number with TPS: 100270

Generation Site (Transport from): (name & address) Fire Station No. 3 3200 Santa Rita Rd. Pleasanton, CA 94566	Site Phone #:	BTEX Levels
	Person to Contact:	TPH Levels
	FAX#:	AVG. Levels

Designated Facility (Transport to): (name & address) TPS Technologies Inc. 20 Recycling Lane Richmond, CA 94801	Facility Phone #: 916-25-8774	Facility Permit Numbers
	Person to Contact: B. Kuyper, Inc.	
	FAX#: 510-231-4154	

Transporter Name and Mailing Address: CABLER TRUCKING 2332 Bonwood Rd San Jose, CA	Transporter's Phone #:	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX#:	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	20 Y				
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: <u>MARK TOMPKINS</u>	Generator <input type="checkbox"/> Consultant <input checked="" type="checkbox"/>	Signature and date: <u>[Signature]</u>	Month: <u>12</u> Day: <u>1</u> Year: <u>1996</u>
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Transporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.
	Print or Type Name: <u>[Signature]</u>

Recycling Facility	Discrepancies:
	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:
	Print or Type Name: <u>Cherice Rice</u>

Please print or type.

Manifest

Technologies Soil Recycling
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment: CONSULTANT	Transporter Truck #:	Facility #: ACA	Given by TPS: 00077	Load #: 0011
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Generator's Name and Billing Address: CITY OF PLEASANTON PO BOX 1520 PLEASANTON, CA 94566	Generator's Phone #:	Generator's US EPA ID No.:
	Person to Contact:	
	FAX#:	Customer Account Number with TPS:

Consultant's Name and Billing Address: ECOLOGICAL RECOVERY ASSOC. 11241 A SANTA RITA RD. STE 365 PLEASANTON, CA 94566	Consultant's Phone #: 510-489-4760	
	Person to Contact: G. COMPTON	
	FAX#: 510-489-4468	Customer Account Number with TPS: 110215

Generation Site (Transport from): (name & address) PUC STATION No. 3 3200 SANTA RITA RD. PLEASANTON, CA 94566	Site Phone #:	BTEX Levels
	Person to Contact:	TPH Levels
	FAX#:	AVG. Levels

Designated Facility (Transport to): (name & address) TPS TECHNOLOGIES INC. 20 RECYCLING LANE RICHMOND, CA 94801	Facility Phone #: 510-231-5778	Facility Permit Numbers
	Person to Contact: D. M. MERRILL	
	FAX#: 510-231-4154	

Transporter Name and Mailing Address: [Faded]	Transporter's Phone #:	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX#:	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>	[Faded]				
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					
Sand <input type="checkbox"/> Organic <input type="checkbox"/>	0 - 10% <input type="checkbox"/>	Gas <input type="checkbox"/>					
Clay <input type="checkbox"/> Other <input type="checkbox"/>	10 - 20% <input type="checkbox"/>	Diesel <input type="checkbox"/>					
	20% - over <input type="checkbox"/>	Other <input type="checkbox"/>					

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:	Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date:	Month: Day: Year:
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Transporter	Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.
	Print or Type Name: Signature and date: Month: Day: Year:

Recycling Facility	Discrepancies:
	Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above: Print or Type Name: Signature and date:

Please print or type.