

SP Environmental Systems, Inc.

9719 LINCOLN VILLAGE Dr. SUITE 310 SACRAMENTO, CA 95827 (916) 369-8971

FAX (916) 369-8370

March 23, 1990

Mr. Dennis Byrne Alameda County Health Agency Division of Hazardous Materials 80 Swan Way, Rm 200 Oakland, California 94621

Re: Removal of Underground Storage Tanks at 330 Cypress Street, Oakland, California

Dear Mr. Byrne:

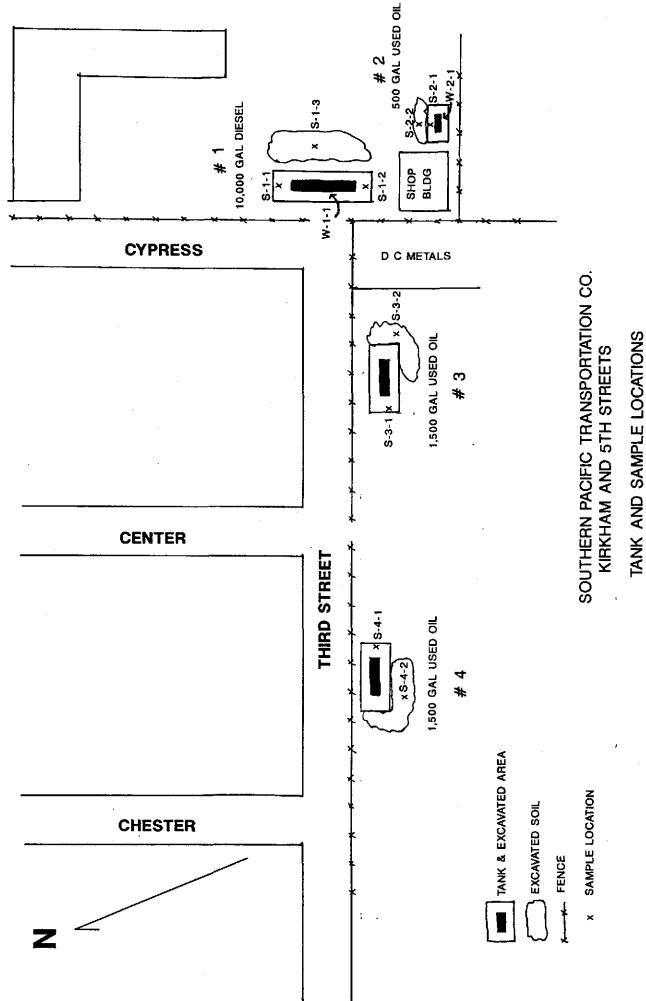
Enclosed please find the following information on the removal of four underground tanks by SP Environmental Systems, Inc. (SPEvS) at 330 Cypress Street, Oakland California on February 13 through 15, 1990 :

Attachment	A	Figure 1 Site Plan, Tank and Sample Locations
	В	Tank Removal Data Sheets
	С	Table 1 Summary of Analytical Results
	D	Laboratory Results
	E	Manifests

The tanks were located on Southern Pacific Transportation Company (SPTCo) property, designated as the 5th and Kirkham Street site.

The tanks are numbered as follows: (05032-)

- # 1 -- 10,000 gallon diesel tank located at 330 Cypress Street;
- # 2 -- 500 gallon used-oil tank at 330 Cypress Street:
- # 3 -- 1,500 gallon used-oil tank to the west of tanks 1 and 2, south of Third St. between Cypress and Center Streets;
- # 4 -- 1,500 gallon used-oil tank furthest to the west of all the tanks, south of Third St. between Center and Chester Streets.



ATTACHMENT B

SP ENVIRONMENTAL SYSTEMS, INC. UNDERGROUND STORAGE TANK REMOVAL PROGRAM

GENERAL SITE INFORMATION

- 1. a) SP Tank Number: 05032-1
 - b) State Tank Number:
- 2. Date On Site: 2/14-2/15/90
- 3. Facility Name: 5th and Kirkham Streets site
- 4. Street Address: 330 Cypress Street
- 5. City/State/County: Oakland/Ca/Alameda
- 6. Comments: Property to be sold by SPTCo

TANK INFORMATION

- 1. Diameter: 8 feet
- 2. Length: 21 feet
- 3. Tank Capacity (volume): 10,000 gal
- 4. Product Type: diesel
- 5. Amount of product in tank (if any): 0
 - a) Was product pumped?:
 - b) If so, destination of product:
 - c) Comments:
- 6. Condition of Tank/Comments: good -- no holes, tears or dents observed in tank

EXCAVATION INFORMATION

- 1. Length/orientation: NE to SW
- 2. Width/orientation: NW to SE
- 3. Final excavation depth: approx. 15 feet
- 4. Visible Contamination?: no
 - a) Describe extent:
 - b) Field PID Reading(s): 100-200 ppm in excavation above tank. Highest readings on NW side of tank where product line connected tank to pump.
- 5. Soil Description (include type, color, moisture, odor, other): coarse sandy soil, dk brown to black, ground water seppage at 10 feet.
- 6. Excavation Backfilled?: yes a) Source of fill material: excavated material was put back in hole
- 7. Is there soil stockpiled?: no
 - a) Location:
 - b) Quantity:
- 8. Additional work necessary?: maybe
 - a) Explain: Alameda Co. will evaluate lab results and decide if further investigation is needed

LABORATORY INFORMATION

1. Number of samples taken: 3 soil, 1 water

Sample ID	Sample Location	Analyses
S-1-1 S-1-2 S-1-3	side wall, vent end side wall, fill end excavated soil	TPH-D; BTEX TPH-D; BTEX TPH-D; BTEX
W-1-1	water in hole	TPH-D; BTEX

- 2. Performing Laboratory: Central Coast Analytical Services, San Luis Obispo, Ca.
- 3. Chain-of-Custody Number: 21231
- 4. Date Sent to Lab: 2/15/90
- 5. Comments:

CONTRACTOR INFORMATION

- 1. Contractor Name: Jim Dobbas, Inc.
- 3. Mobe/Demobe Hours:
- 4. Onsite Work Hours: 2/13 10:00 to 16:30 for 4 tanks 2/14 07:00 to 16:30 2/15 07:00 to 12:30
- 5. Standby Hours: 0
- 6. Total time billed to this tank site: 8 hours
- 7. Equipment and Materials used or rented: 3-50lb cylinders CO_2 ; LEL/Oxygen meter
- 8. Comments:

SP ENVIRONMENTAL SYSTEMS, INC. UNDERGROUND STORAGE TANK REMOVAL PROGRAM

GENERAL SITE INFORMATION

- 1. a) SP Tank Number: 05032-2
 - b) State Tank Number:
- 2. Date On Site: 2/13-2/15/90
- 3. Facility Name: 5th and Kirkham Streets site
- 4. Street Address: 330 Cypress Street
- 5. City/State/County: Oakland/Ca/Alameda
- 6. Comments: Property to be sold by SPTCo

TANK INFORMATION

- 1. Diameter: 4 feet
- 2. Length: 5 feet
- 3. Tank Capacity (volume): 500 gal
- 4. Product Type: used oil
- 5. Amount of product in tank (if any): 250
 - a) Was product pumped?: yes
 - b) If so, destination of product: H & H Ship Service, San Francisco (Class I facility)
 - c) Comments: Lot of solids remained in tank
- 6. Condition of Tank/Comments: good -- no holes, tears or dents observed in tank

EXCAVATION INFORMATION

- 1. Length/orientation: NW to SE
- 2. Width/orientation: NE to SW
- 3. Final excavation depth: approx. 7 feet
- 4. Visible Contamination?: no
 - a) Describe extent:
 - b) Field PID Reading(s):
- 5. Soil Description (include type, color, moisture, odor, other): coarse sandy soil, brown to black, ground water seepage at 3 feet
- 6. Excavation Backfilled?: yes a) Source of fill material: excavated material was put back in hole
- 7. Is there soil stockpiled?: no
 - a) Location:
 - b) Quantity:
- 8. Additional work necessary?: maybe
 - a) Explain: Alameda Co. will evaluate lab results and decide if further investigation is needed

LABORATORY INFORMATION

1. Number of samples taken: 2 soil, 1 water

Sample ID Sample Location Analyses

S-2-1 side wall-NE side TPH-G/D; BTEX; O&G;

PCB, PCP, PNA;

Metals

S-2-2 excavated soil same W-2-1 water in hole same

- 2. Performing Laboratory: Central Coast Analytical Services, San Luis Obispo, Ca.
- 3. Chain-of-Custody Number: 21231
- 4. Date Sent to Lab: 2/15/90
- 5. Comments:

CONTRACTOR INFORMATION

- 1. Contractor Name: Jim Dobbas, Inc.
- Personnel Onsite (Name/Title): Roger Brown/foreman;
 Jim Garner/operator;
 Skip Moon/operator-laborer
- 3. Mobe/Demobe Hours:
- 4. Onsite Work Hours: 2/13 10:00 to 16:30 for 4 tanks 2/14 07:00 to 16:30 2/15 07:00 to 12:30
- 5. Standby Hours: 0
- 6. Total time billed to this tank site: 5
- Equipment and Materials used or rented: 100 lb dry ice; LEL/Oxygen meter
- 8. Comments:

SP ENVIRONMENTAL SYSTEMS, INC. UNDERGROUND STORAGE TANK REMOVAL PROGRAM

GENERAL SITE INFORMATION

- 1. a) SP Tank Number: 05032 - 3
 - State Tank Number: b)
- 2. Date On Site: 2/13-2/15/90
- 3. Facility Name: 5th and Kirkham Streets site
- 4. Street Address: 330 Cypress Street
- 5. City/State/County: Oakland/Ca/Alameda
- 6. Comments: Property to be sold by SPTCo

TANK INFORMATION

- Diameter: 4 feet 1.
- 2. Length: 12 feet
- 3. Tank Capacity (volume): 1500 gal
- 4. Product Type: used oil
- 5. Amount of product in tank (if any): 1450 gal

 - a) Was product pumped?: yesb) If so, destination of product: H & H Ship Service, San Francisco (Class facility)
 - c) Comments:
- Condition of Tank/Comments: ruptured when uncovered, rest of tank has no observed holes

EXCAVATION INFORMATION

- 1. Length/orientation: NW to SE
- 2. Width/orientation: NE to SW
- 3. Final excavation depth: approx. 10 feet
- 4. Visible Contamination?: yes
 - a) Describe extent: oily liquid and sludge in hole
 - b) Field PID Reading(s): as high as 370 ppm in hole
- 5. Soil Description (include type, color, moisture, odor, other): coarse sandy soil, dk brown to black, ground water seepage at 5 feet
- 6. Excavation Backfilled?: yes a) Source of fill material: excavated material was put back in hole
- 7. Is there soil stockpiled?: no
 - a) Location:
 - b) Quantity:
- 8. Additional work necessary?: maybe
 - a) Explain: Alameda Co. will evaluate lab results and decide if further investigation is needed

LABORATORY INFORMATION

1. Number of samples taken: 2 soil

Sample ID Sample Location

Analyses

S-3-1

side wall, fill end

TPH-G/D; BTEX; O&G;

PCB, PCP, PNA;

Metals

S - 3 - 2

excavated soil

same

- Performing Laboratory: Central Coast Analytical Services, San Luis Obispo, Ca.
- 3. Chain-of-Custody Number: 21231
- 4. Date Sent to Lab: 2/15/90
- 5. Comments:

CONTRACTOR INFORMATION

- 1. Contractor Name: Jim Dobbas, Inc.
- Personnel Onsite (Name/Title): Roger Brown/foreman;
 Jim Garner/operator;

Skip Moon/operator-laborer

- 3. Mobe/Demobe Hours:
- 4. Onsite Work Hours: 2/13 10:00 to 16:30 for 4 tanks 2/14 07:00 to 16:30 2/15 07:00 to 12:30
- 5. Standby Hours: 0
- 6. Total time billed to this tank site: 10
- 7. Equipment and Materials used or rented: 1-50lb cylinders CO₂; 100 lb dry ice; LEL/Oxygen meter
- 8. Comments:

SP ENVIRONMENTAL SYSTEMS, INC. UNDERGROUND STORAGE TANK REMOVAL PROGRAM

GENERAL SITE INFORMATION

- SP Tank Number: 05032-4 1. a)
 - b) State Tank Number:
- 2. Date On Site: 2/13-2/15/90
- 3. Facility Name: 5th and Kirkham Streets site
- 4. Street Address: 330 Cypress Street
- 5. City/State/County: Oakland/Ca/Alameda
- 6. Comments: Property to be sold by SPTCo

TANK INFORMATION

- 1. Diameter: 4 feet
- 2. Length: 12 feet
- 3. Tank Capacity (volume): 1500 gal
- 4. Product Type: used oil
- 5. Amount of product in tank (if any): 50 gal

 - a) Was product pumped?: yes
 b) If so, destination of product: H & H Ship Service, San Francisco (Class facility)
 - c) Comments:
- Condition of Tank/Comments: good -- no holes, tears, or 6. dents observed in tank

EXCAVATION INFORMATION

- 1. Length/orientation: NW to SE
- 2. Width/orientation: NE to SW
- 3. Final excavation depth: approx. 10 feet
- 4. Visible Contamination?: no
 - a) Describe extent:
 - b) Field PID Reading(s): 0
- 5. Soil Description (include type, color, moisture, odor, other): coarse sandy soil, light to dark brown, no ground water seepage
- 6. Excavation Backfilled?: yes a) Source of fill material: excavated material was put back in hole
- 7. Is there soil stockpiled?: no
 - a) Location:
 - b) Quantity:
- 8. Additional work necessary?: maybe
 - a) Explain: Alameda Co. will evaluate lab results and decide if further investigation is needed

LABORATORY INFORMATION

1. Number of samples taken: 2 soil

Sample ID Sample Location

Analyses

S-4-1

side wall-fill end

TPH-G/D; BTEX; O&G;

PCB, PCP, PNA;

Metals

S - 4 - 2

excavated soil

same

- 2. Performing Laboratory: Central Coast Analytical Services, San Luis Obispo, Ca.
- 3. Chain-of-Custody Number: 21231
- 4. Date Sent to Lab: 2/15/90
- 5. Comments:

CONTRACTOR INFORMATION

- 1. Contractor Name: Jim Dobbas, Inc.
- 2. Personnel Onsite (Name/Title): Roger Brown/foreman;

Jim Garner/operator;

Skip Moon/operator-laborer

- 3. Mobe/Demobe Hours:
- 4. Onsite Work Hours: 2/13 10:00 to 16:30 for 4 tanks 2/14 07:00 to 16:30

2/15 07:00 to 12:30

- 5. Standby Hours: 0
- 6. Total time billed to this tank site: 5 hours
- 7. Equipment and Materials used or rented: 100 lb dry ice; LEL/Oxygen meter
- 8. Comments:

ATTACHMENT C

SUMMARY OF ANALYTICAL RESULTS 330 CYPRESS STREET

TABLE 1

SAMPLE NUMBER (PPM)

S-4-1	NF					110	NF	NF		19
		NF	0.0017	0.0023	NF	0.0043	NF	NF	54	120
S-3-2	1100	110	2.1	18	11	<i>L9</i>	4.1	0.5	63	006
8-3-1	8.1	NF	1.1	9.0	0.033		NF	NF	NF	14
W-2-1	90	†	0.0003	0.0016	0.0003	0.0019	NA	NA	NA	NA
S-2-2	6.3	220	0.004	900'0	0.003	0.018	ŖN	0.3	160	260
8-2-1	1500	NF	1.9	18	NF	NF	NF	NF	9.4	09
W-1-1	70	NA	1.5	1.2	1.7	8.6	NA	NA	NA	NA
S 1.3	12	NA	0.007	0.004	NF	NF	NA	NA	NA	NA
S-1-3	NF	NA	0.004	JN	ЯN	NF	VΝ	V N	NA	VΝ
1-1-S	700	NA	NF	11	12	28	NA	NA	NA	NA
	LbH.	Xi & Grease	Benzene	Coluene	thylbenzene	Cytenes	admium	hrominm VI	pac	inc

ATTACHMENT D

Central Coast Analytical Services

Central Coast Analytical Services 141 Suburban Road, Suite C-4 San Luis Obispo, California 93401 (805) 543-2553

Lab Number: As Listed Collected: As Listed Received: Ø2/19/9Ø @ Ø915 Tested: As Listed Collected by: Patricia Curl

ATTN: Bob Warner S.P. Environmental Systems 9719 Lincoln Village, Suite 310 Sacramento, CA 95827

Sample Description: Job #05032, 5th & Kirkham Sts. 33Ø Cypress, Oakland, Tank Removal Samples As Listed

REPORT

LAB NUMBER	SAMPLE DESCRIPTION	LEVEL FOUND
		OIL & GREASE
EPA METHOD DETECTION LIMIT(PQL)**		5Ø3E *3. mg/l
DATE/ANALYST	_	***5Ø. mg/kg Ø2/25/9Ø/SAW* Ø2/22/9Ø/MGH***
G-Ø651-2	W-2-1, Aqueous Coll: Ø2/15/9Ø @ Ø93Ø	4. mg/l
G-Ø651-6	S-4-1. Soil Coll: Ø2/14/9Ø @ 16ØØ	<5∅. mg/kg
G-Ø651-7	S-4-2, Soil Coll: Ø2/14/9Ø @ 162Ø	25Ø. mg/kg
G-Ø651-8	S-2-2. Soil Coll: Ø2/15/9Ø @ Ø8ØØ	22Ø. mg/kg
G-Ø651-9	S-3-2, Soil Coll: Ø2/15/9Ø @ Ø83Ø	11Ø. mg/kg
G-Ø651-1Ø	S-2-1, Soil Coll: Ø2/15/9Ø @ Ø93Ø	<5Ø. mg/kg
G-Ø651-11	S-3-1, Soil Coll: Ø2/15/9Ø @ Ø945	<5Ø. mg/kg

**Practical Quantitation Limit

Ø2/26/9Ø GØ651-25.WR1/#17 MH/ke

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES Wendrulece 6 Mary Havlicek, Ph.D., President

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-3
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl
Extracted on: Ø2/21/9Ø

TOTAL PETROLEUM HYDROCARBON ANALYSIS EPA METHOD 625/827Ø (GC/MS)

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Suite 310

Proj.#95932, 5th & Kirkham Sts.,

S-1-1 @ 8', Soil

Sacramento, CA 95827

Component Determined

Detection Limit in ppm (PQL)*

Concentration

opm (PQL)* in ppm

Total Petroleum Hydrocarbons (30 Wt. Motor Oil) 1.

35.

Total Petroleum Hydrocarbons *(Gasoline)

1.

7ØØ.

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy. Sample was extracted by EPA Method 3510.

MSD#5 Ø2/28/9Ø GØ651tp3.wr1/#9 MH/dp/dc/co/kc Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

^{*}Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

**(Practical Quantitation Limit)

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401 (8Ø5) 543-2553

Lab Number: G-Ø651-3 Ø2/15/9Ø Collected: Received: Ø2/19/9Ø Tested: Ø2/2Ø/9Ø Collected by: P. Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Suite 310

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Streets,

S-1-1, Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	5.	not found
Toluene	5.	11.
Ethylbenzene	5.	12.
Xylenes	5.	58.
TOTAL PURGEABLE PETROLEUM HYDI (Weathered Gasoline)		390.
Kerosene, Jet Fuel, Mineral S	pirits)5ø. 	<5Ø.
BTX as a Percent of Fuel		19.
Percent Surrogate Recovery		128.
*(Practical Quantitation Limit	==== ====== t)	

^{**}Soil samples sonicated during extraction.

NOTE: High concentration of some analytes caused the sample to be run diluted, resulting in raised Practical Quantitation Limits for analytes. to instrument blank for undiluted Practical Quantitation Limits.

MSD#6 Ø2/26/9Ø GØ651f3.wr1/#21 MH/j1/dc/co

Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-4
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl
Extracted on: Ø2/21/9Ø

TOTAL PETROLEUM HYDROCARBON ANALYSIS EPA METHOD 625/8270 (GC/MS)

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

Suite 310

Sacramento, CA 95827

S-1-2 @ 8', Soil

Component Determined

Detection Limit in ppm (PQL)*

Concentration in ppm

Total Petroleum Hydrocarbons (30 Wt. Motor Oil)

1.

<1.

Total Petroleum Hydrocarbons *(Gasoline)

1.

<1.

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy. Sample was extracted by EPA Method 3510.

MSD#5 Ø2/28/9Ø GØ651tp4.wr1/#9 MH/dp/dc/co/kc Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

^{*}Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

**(Practical Quantitation Limit)

Suite 310

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-4
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/2Ø/9Ø
Collected by: P. Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Streets,

S-1-2, Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit in ppm (PQL)*	in ppm
Benzene	Ø.ØØ2	Ø.ØØ4
Toluene	Ø.ØØ2	not found
Ethylbenzene	Ø.ØØ2	not found
Xylenes	Ø.ØØ2	not found
TOTAL PURGEABLE PETROLEUM H (Gasoline)		<∅.2
(Diesel #2, Stoddard Solven	t,	
Kerosene, Jet Fuel, Mineral		<Ø.2
BTX as a Percent of Fuel		not applicabl
Percent Surrogate Recovery		100.
*/Pmanting1		*****

^{*(}Practical Quantitation Limit)

MSD#6 Ø2/26/9Ø GØ651f4.wr1/#21 MH/ec/dc/co Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

^{**}Soil samples sonicated during extraction.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-5
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl
Extracted on: Ø2/21/9Ø

TOTAL PETROLEUM HYDROCARBON ANALYSIS EPA METHOD 625/8270 (GC/MS)

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Culta 716

Proj.#Ø5Ø32, 5th & Kirkham Sts., S-1-3 @ 1', Soil

Suite 310

Sacramento, CA 95827

Component Determined

Detection Limit in ppm (PQL)*

Concentration in ppm

Total Petroleum Hydrocarbons (30 Wt. Motor Oil)

1.

12.

Total Petroleum Hydrocarbons
*(Gasoline)

1.

<1.

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy. Sample was extracted by EPA Method 3510.

MSD#5 Ø2/28/9Ø GØ651tp5.wr1/#9 MH/dp/dc/co/kc Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

^{*}Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

**(Practical Quantitation Limit)

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4 San Luis Obispo, California 934Ø1

(8Ø5) 543-2553

Lab Number: G-Ø651-5
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/2Ø/9Ø
Collected by: P. Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS)
EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Streets,

Suite 310

S-1-3, Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit in ppm (PQL)*	in ppm
Benzene	Ø.ØØ1	Ø.ØØ2
Toluene	Ø.ØØ1	Ø.ØØ4
Ethylbenzene	Ø.ØØ1	not found
Xylenes	Ø.ØØ1	not found
TOTAL PURGEABLE PETROLEUM HYDROC (Gasoline)	ø.1	<Ø.1
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		83.
		=======================================
*(Practical Quantitation Limit)		
**Soil samples sonicated during	extraction.	

MSD#6 Ø2/26/9Ø GØ651f5.wr1/#21 MH/ec/dc/co Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

Central
Coast
Analytical
Services

Central Coast
Analytical Services
141 Suburban Road, Suite C-4
San Luis Obispo, California 934Ø1
(8Ø5) 543-2553

Lab Number: G-Ø651-1Ø

Collected: 92/15/99 @ 9939

Received: Ø2/19/9Ø @ Ø915
Tested: As Listed
Collected by: Patricia Curl

ATTN: Bob Warner S.P. Environmental Systems 9719 Lincoln Village, Suite 31Ø Sacramento, CA 95827 Sample Description:
Job #05032, 5th & Kirkham Sts.
330 Cypress, Oakland, Tank Removal
S-2-1, Soil

*DIGESTED BY EPA METHOD 3050 ON 02/21/90 BY AEA.

REPORT

CONSTITUENT	EPA METHOD/DATE/ANALYST	DETECTION LIMIT mg/kg(PQL)**	TOTAL LEVEL FOUND mg/kg	***TTLC mg/kg
*CADMIUM	6Ø1Ø Ø2/21/9Ø JMW	3.	∢3.	1ØØ.
CHROMIUM VI	3Ø6Ø/7196 Ø2/21/9Ø AEA	ø.1	<ø.1	5ØØ.
*LEAD	742Ø Ø2/21/9Ø JMW	1.	9.4	1000.
*ZINC	6Ø1Ø Ø2/21/9Ø JMW	3.	6Ø.	5ØØØ.

***TOTAL THRESHOLD LIMIT CONCENTRATION as listed in 22 Cal Adm Code Art 11 Sec. 66699 as persistent & bioaccumulative toxic substance.

Ø2/26/9Ø GØ651-1ØS.WR1/#18 MH/ke Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

^{**}Practical Quantitation Limit

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 934Ø1
(8Ø5) 543-2553

Lab Number: G-Ø651-1Ø
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/2Ø/9Ø
Collected by: Patricia Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

SAMPLE DESCRIPTION:

Job Ø5Ø32, 5th & Kirkman Sts.

S-2-1, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	in ppm
Benzene	Ø.1	1.9
Toluene	Ø.1	18.
Ethylbenzene	Ø.1	not found
Xylenes	Ø.1	not found
TOTAL PURGEABLE PETROLEUM HYDR (Stoddard Solvent)		1500.
(Gasoline, Diesel #2		
	4 <i>d</i>	
Kerosene, Jet Fuel, Mineral Sp	irits)ip.	<1Ø.
·		

NOTE: High concentration of some analytes caused the sample to be run diluted, resulting in raised Practical Quantitation Limits for analytes. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7 Ø2-28-9Ø GØ651f1Ø.wr1/#22 MH/jm/re/kc

*(Practical Quantitation Limit)

**Soil samples sonicated during extraction.

Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-1Ø
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - PESTICIDES & PCB'S

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

Suite 310 S-2-1 @ 3', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	Ø.ØØ5	not found
alpha BHC	Ø.ØØ5	not found
beta BHC	Ø.ØØ5	not found
delta BHC	Ø.ØØ5	not found
gamma BHC	Ø.ØØ5	not found
pp-DDD	Ø.ØØ5	not found
pp-DDE	Ø. ØØ5	not found
pp-DDT	Ø.ØØ5	not found
Dieldrin	Ø.ØØ5	not found
Endosulfan I	Ø.ØØ5	not found
Endosulfan II	Ø.Ø5	not found
Endosulfan Sulfate	Ø.ØØ5	not found
Endrin	Ø.ØØ5	not found
Endrin Aldehyde	ø.øø5	not found
Heptachlor	Ø.ØØ5	not found
Heptachlor Epoxide	Ø.ØØ5	not found
Chlordane	Ø.Ø5	not found
Toxaphene	Ø.Ø5	not found
PCB 1Ø16	Ø.Ø5	not found
PCB 1221	Ø.Ø5	not found
PCB 1232	Ø.Ø5	not found
PCB 1242	Ø.Ø5	not found
PCB 1248	Ø.Ø5	not found
PCB 1254	Ø.Ø5	not found
PCB 126Ø	Ø.Ø5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 Ø2/27/9Ø GØ651a1Ø.wr1/#9 MH/dp/dc/ss Respectfully submitted,

Mary Havlicek, Ph.D.

Central Coast Analytical Services

Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401 (805) 543-2553

Central Coast

Lab Number: G-Ø651-1Ø
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

POLYNUCLEAR AROMATICS BY EPA METHOD 625/8270 (GC/MS)

Attn: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys. 9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

9719 Lincoln Village Drive Suite 310

S-2-1 @ 3', Soil

Sacramento, CA 95827

Compound Analyzed Detection Limit (mg/Kg) Concentration (mg/Kg) (Practical Quantitation Limit) Acenaphthalene Ø.ØØ5 not found Acenaphthene Ø.ØØ5 not found Anthracene Ø.ØØ5 Ø.ØØ6 Benzo(a)anthracene Ø.ØØ5 Ø. Ø25 Benzo(b)fluoranthene Ø.ØØ5 not found Benzo(k)fluoranthene Ø.ØØ5 not found Benzo(a)pyrene not found not found Ø.ØØ5 Benzo(ghi)perylene Ø.ØØ5 Сhrysene Ø.ØØ5 Ø. Ø28 Dibenzo(a,h)anthracene Ø.ØØ5 not found Fluoranthene Ø.ØØ5 Ø.Ø75 Fluorene Ø.ØØ5 not found Indeno(1,2,3-cd)pyrene not found Ø.ØØ5 Methylnaphthalenes Ø.ØØ5 not found Naphthalene Ø.ØØ5 Ø.Ø1Ø Phenanthrene 0.005 Ø.Ø13 Pyrene Ø.ØØ5 Ø.Ø68

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 3540.

MSD#5 Ø2/27/9Ø GØ651b1Ø.wr1/#1Ø MH/dp/dc/ss Respectfully submitted,

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-1Ø
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ACIDS

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#Ø5Ø32, 5th & Kirkham Sts.,

Suite 310 S-2-1 @ 3', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	Ø.ØØ5	not found
2-Chlorophenol	Ø.ØØ5	not found
Creosols	Ø.ØØ5	not found
2,4-Dichlorophenol	Ø.ØØ5	not found
2,4-Dimethylphenol	Ø.ØØ5	not found
2,4-Dinitrophenol	Ø.Ø2	not found
2-Methyl-4,6-dinitrophenol	Ø.Ø2	not found
2-Nitrophenol	Ø.ØØ5	not found
4-Nitrophenol	Ø.ØØ5	not found
Pentachlorophenol	Ø.ØØ5	not found
Pheno1	Ø.ØØ5	not found
2,4,6-Trichlorophenol	Ø.ØØ5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on Ø2/21/9Ø by EPA Method 354Ø.

TOTAL PETROLEUM HYDROCARBONS

*(As Stoddard Solvent)	1.	11Ø.
(As 30 Wt. Motor Oil)	1.	23.

^{*}Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Stoddard Solvent. Internal standards are employed for greater accuracy.

MSD#5 Ø2/28/9Ø GØ651a1Ø.wr1/#9 MH/dp/dc/ss/kc Respectfully submitted,

Mary Havlicek, Ph.D.

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4 San Luis Obispo, California 934Ø1

(8Ø5) 543-2553

Lab Number: G-Ø651-8 Ø2/15/9Ø Collected: Received: Ø2/19/9Ø Tested: Ø2/2Ø/9Ø

Collected by: Patricia Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

Southern Pacific Environmental Sys. SAMPLE DESCRIPTION:

9719 Lincoln Village Drive

Job Ø5Ø32, 5th & Kirkman Sts.,

Suite 310

S-2-2, Soil

Sacramento, CA 95827

REVISED REPORT

Compound Analyzed	Detection Limit in ppm (PQL)*	in ppm
Benzene	Ø.ØØ1	Ø.ØØ4
Toluene	Ø.ØØ1	Ø.ØØ6
Ethylbenzene	Ø.ØØ1	Ø.ØØ3
Xylenes	Ø.ØØ1	Ø.Ø18
TOTAL PURGEABLE PETROLEUM HYDROCARB (Stoddard Solvent)		6.3
(Gasoline, Diesel #2 Kerosene, Jet Fuel, Mineral Spirits		<Ø.1
BTX as a Percent of Stoddard Solven	t	Ø.4
Percent Surrogate Recovery		116.
*(Practical Quantitation Limit)	= = = = = = = = = = =	

**Soil samples sonicated during extraction.

MSD#7 Ø2-28-9Ø GØ651f8.wr1/#22 MH/ej/re/kc

Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Central Coast Analytical | Services

ATTN: Bob Warner

Sacramento, CA 95827

S.P. Environmental Systems

9719 Lincoln Village, Suite 310

Central Coast Analytical Services 141 Suburban Road, Suite C-4 San Luis Obispo, California 934Ø1 (805) 543-2553

Lab Number: G-Ø651-8

Collected:

Ø2/15/9Ø € Ø8ØØ Ø2/19/9Ø **€** Ø915

Received: Tested: Collected by: Patricia Curl

As Listed

Sample Description:

Job #05032, 5th & Kirkham Sts. 330 Cypress, Oakland, Tank Removal

S-2-2, Soil

*DIGESTED BY EPA METHOD 3050 ON Ø2/21/9Ø BY AEA.

REPORT

CONSTITUENT	EPA METHOD/DATE/ANALYST	DETECTION LIMIT mg/kg(PQL)**	TOTAL LEVEL Found mg/kg	***TTLC mg/kg
*CADMIUM	6Ø1Ø Ø2/21/9Ø JMW	3.	< 3.	100.
CHROMIUM VI	3Ø6Ø/7196 Ø2/21/9Ø AEA	ø.1	Ø.3	5ØØ.
*LEAD	742Ø Ø2/21/9Ø JMW	1.	76Ø.	1000,
*ZINC	6010 02/21/90 JMW	· 3.	56Ø.	5ØØØ.

Ø2/26/9Ø GØ651-8S.WR1/#18 MH/ke

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES Mansauler

^{**}Practical Quantitation Limit

^{***}TOTAL THRESHOLD LIMIT CONCENTRATION as listed in 22 Cal Adm Code Art 11 Sec. 66699 as persistent & bioaccumulative toxic substance.

Suite 310

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-8
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - PESTICIDES & PCB'S

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

S-2-2 @ 1', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	Ø.ØØ5	not found
alpha BHC	Ø.ØØ5	not found
beta BHC	Ø.ØØ5	not found
delta BHC	Ø.ØØ5	not found
gamma BHC	Ø.ØØ5	not found
pp-DDD	Ø.ØØ5	not found
pp-DDE	Ø.ØØ5	not found
pp-DDT	Ø.ØØ5	not found
Dieldrin	Ø.ØØ5	not found
Endosulfan I	Ø.ØØ5	not found
Endosulfan II	Ø.Ø5	not found
Endosulfan Sulfate	Ø.ØØ5	not found
Endrin	Ø.ØØ5	not found
Endrin Aldehyde	Ø.ØØ5	not found
Heptachlor	Ø.ØØ5	not found
Heptachlor Epoxide	Ø,ØØ5	not found
Chlordane	Ø.Ø5	not found
Toxaphene	Ø.Ø5	not found
PCB 1016	Ø.Ø5	not found
PCB 1221	Ø.Ø5	not found
PCB 1232	Ø.Ø5	not found
PCB 1242	Ø.Ø5	not found
PCB 1248	Ø.Ø5	not found
PCB 1254	Ø.Ø5	not found
PCB 126Ø	Ø.Ø5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 Ø2/27/9Ø GØ651a8.wr1/#9 MH/dp/dc/ss Respectfully submitted,

Mary Havlicek, Ph.D.

Central Coast Analytical Services

Central Coast Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401 (8Ø5) 543-2553

Lab Number: G-Ø651-8 Collected: Ø2/15/9Ø Ø2/19/9Ø Received: Tested: Ø2/22/9Ø Collected by: P. Curl

POLYNUCLEAR AROMATICS BY EPA METHOD 625/8270 (GC/MS)

Attn: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#Ø5Ø32, 5th & Kirkham Sts., S-2-2 @ 1', Soil

Suite 310

Compound Analyzed

Sacramento, CA 95827

Detection Limit (mg/Kg) Concentration (mg/Kg) (Practical Quantitation Limit)

Acenaphthalene	Ø. ØØ5	Ø.Ø39
Acenaphthene	Ø.ØØ5	not found
Anthracene	Ø.Ø85	ø.ø76
Benzo(a)anthracene	Ø.ØØ5	Ø.24
Benzo(b)fluoranthene	Ø.ØØ5	Ø.1Ø
Benzo(k)fluoranthene	Ø.ØØ5	Ø. Ø9Ø
Benzo(a)pyrene	Ø.ØØ5	Ø.23
Benzo(ghi)perylene	Ø.ØØ5	not found
Chrysene	Ø.ØØ5	Ø.22
Dibenzo(a,h)anthracene	Ø.ØØ5	not found
Fluoranthene	Ø.ØØ5	Ø.11
Fluorene	Ø.ØØ5	Ø. Ø27
Indeno(1,2,3-cd)pyrene	Ø.ØØ5	not found
Methylnaphthalenes	Ø.ØØ5	Ø.Ø7Ø
Naphthalene	Ø.ØØ5	Ø. Ø35
Phenanthrene	Ø.ØØ5	Ø.2Ø
Pyrene	ø. øø5	Ø.36

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on Ø2/12/9Ø by EPA Method 354Ø.

MSD#5 Ø2/27/9Ø GØ651b8.wr1/#9 MH/dp/dc/ss

Respectfully submitted.

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-8
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/827Ø (GC/MS) - SEMIVOLATILE ACIDS

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

Suite 310

S-2-2 @ 1', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)	
4-Chloro-3-methylphenol	Ø.ØØ5	not found	
2-Chlorophenol	Ø.ØØ5	not found	
Creosols	Ø.ØØ5	not found	
2,4-Dichlorophenol	Ø.ØØ5	not found	
2,4-Dimethylphenol	Ø.ØØ5	not found	
2,4-Dinitrophenol	Ø.Ø2	not found	
2-Methyl-4,6-dinitrophenol	Ø.Ø2	not found	
2-Nitrophenol	Ø.ØØ5	not found	
4-Nitrophenol	Ø.ØØ5	not found	
Pentachlorophenol	Ø.ØØ5	not found	
Phenol	Ø.ØØ5	not found	
2,4,6-Trichlorophenol	Ø.ØØ5	not found	

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

TOTAL PETROLEUM HYDROCARBONS

*(As Stoddard Solvent)

1.

15.

(As 30 Wt. Motor Oil)

1.

6Ø.

*Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Stoddard Solvent. Internal standards are employed for greater accuracy.

MSD#5 Ø2/28/9Ø GØ651a8.wr1/#9 MH/dp/dc/ss/kc Respectfully submitted,

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-11 Collected: Ø2/15/9Ø Received: Ø2/19/9Ø Tested: Ø2/2Ø/9Ø

Collected by: Patricia Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

Southern Pacific Environmental Sys.

**Soil samples sonicated during extraction.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

SAMPLE DESCRIPTION:

Job Ø5Ø32, 5th & Kirkman Sts.

S-3-1, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
	·	
Benzene	Ø.ØØ2	1,1
Toluene	Ø.ØØ2	Ø.6
Ethylbenzene	Ø.ØØ2	Ø.Ø33
Xylenes	Ø.ØØ2	1.Ø
TOTAL PURGEABLE PETROLEUM HY (Weathered Gasoline)		8.1
(Diesel #2, Stoddard Solvent Kerosene, Jet Fuel, Mineral		<ø.2
BTX as a Percent of Fuel		33.
Percent Surrogate Recovery		112.
*(Practical Quantitation Lin		:======================================

MSD#7 Ø2-26-9Ø GØ651f11.wr1/#22 MH/ej/re/kc Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Central Coast Analytical Services

Central Coast Analytical Services 141 Suburban Road, Suite C-4 San Luis Obispo, California 934Ø1 (805) 543-2553

Lab Number: G-Ø651-11

Collected: \$2/15/9\$ @ \$945 Received: Ø2/19/9Ø **₽** Ø915

As Listed Tested: Collected by: Patricia Curl

ATTN: Bob Warner S.P. Environmental Systems

9719 Lincoln Village, Suite 310

Sacramento, CA 95827

Sample Description: Job #05032, 5th & Kirkham Sts. 33Ø Cypress, Oakland, Tank Removal

S-3-1, Soil

*DIGESTED BY EPA METHOD 3050 ON Ø2/21/9Ø BY AEA.

REPORT

CONSTITUENT	EPA METHOD/DATE/ANALYST	DETECTION LIMIT mg/kg(PQL)**	TOTAL LEVEL FOUND mg/kg	***TTLC mg/kg
*CADMIUM	6Ø1Ø Ø2/21/9Ø JMW	3.	∢3.	100.
CHROMIUM VI	3Ø6Ø/7196 Ø2/21/9Ø AEA	ø.1	∢Ø.1	5ØØ.
*LEAD	742Ø Ø2/21/9Ø JMW	1.	<1.	1ØØØ.
*ZINC	6Ø1Ø Ø2/21/9Ø JMW	3.	14.	5ØØØ.

***TOTAL THRESHOLD LIMIT CONCENTRATION as listed in 22 Cal Adm Code Art 11 Sec. 66699 as persistent & bioaccumulative toxic substance.

Ø2/26/9Ø GØ651-11S.WR1/#18 MH/ke

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

^{**}Practical Quantitation Limit

Suite 310

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-0651-11
Collected: 02/15/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - PESTICIDES & PCB'S

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

S-3-1 @ 5', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	Ø.ØØ5	not found
alpha BHC	ø.øø5	not found
beta BHC	Ø.ØØ5	not found
delta BHC	ø.øø5	not found
gamma BHC	Ø.ØØ5	not found
pp-DDD	Ø.ØØ5	not found
pp-DDE	Ø.ØØ5	not found
pp-DDT	Ø.ØØ5	not found
Dieldrin	Ø.ØØ5	not found
Endosulfan I	Ø.ØØ5	not found
Endosulfan II	Ø.Ø5	not found
Endosulfan Sulfate	Ø.ØØ5	not found
Endrin	Ø.ØØ5	not found
Endrin Aldehyde	Ø.ØØ5	not found
Heptachlor	Ø.ØØ5	not found
Heptachlor Epoxide	Ø.ØØ5	not found
Chlordane	Ø.Ø5	not found
Toxaphene	Ø.Ø5	not found
PCB 1Ø16	Ø.Ø5	not found
PCB 1221	Ø.Ø5	not found
PCB 1232	Ø.Ø5	not found
PCB 1242	Ø.Ø5	not found
PCB 1248	Ø.Ø5	not found
PCB 1254	Ø.Ø5	not found
PCB 126Ø	Ø.Ø5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 Ø2/27/9Ø

GØ651a11.wr1/#9

MH/dp/dc/ss

Respectfully submitted,

Mary Havlicek, Ph.D.

Central Coast Analytical Services

Central Coast Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401 (8Ø5) 543-2553

Lab Number: G-Ø651-11 Collected: Ø2/15/9Ø Ø2/19/9Ø Received: 02/22/90 Tested: Collected by: P. Curl

POLYNUCLEAR AROMATICS BY EPA METHOD 625/8270 (GC/MS)

Attn: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys. 9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

Suite 310

Sacramento, CA 95827

S-3-1 @ 5', Soil

Compound Analyzed Detection Limit (mg/Kg) Concentration (mg/Kg) (Practical Quantitation Limit)

Acenaphthalene Acenaphthene	Ø.ØØ5 Ø.ØØ5	not found not found
Anthracene	Ø.ØØ5	Ø.ØØ7
Benzo(a)anthracene	Ø.ØØ5	Ø.Ø12
Benzo(b)fluoranthene	Ø.ØØ5	not found
Benzo(k)fluoranthene	Ø.ØØ5	not found
Benzo(a)pyrene	Ø.ØØ5	not found
Benzo(ghi)perylene	Ø.ØØ5	not found
Chrysene	Ø.ØØ5	Ø.Ø13
Dibenzo(a,h)anthracene	Ø.ØØ5	not found
Fluoranthene	Ø.ØØ5	Ø.Ø21
Fluorene	Ø.ØØ5	Ø.Ø43
Indeno(1,2,3-cd)pyrene	Ø.ØØ5	not found
Methylnaphthalenes	Ø.ØØ5	not found
Naphthalene	· Ø.ØØ5	Ø.ØØ7
Phenanthrene	Ø.ØØ5	Ø.Ø17
Pyrene	Ø.ØØ5	Ø.Ø12

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/12/9\emptyset$ by EPA Method 3540.

MSD#5 Ø2/27/9Ø GØ651b11.wr1/#1Ø MH/dp/dc/ss

Mary Havlicek, Ph.D.

Respectfully submitted,

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-11
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ACIDS

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#Ø5Ø32, 5th & Kirkham Sts.,

Suite 310

S-3-1 @ 5', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	Ø.ØØ5	not found
2-Chlorophenol	Ø.ØØ5	not found
Creosols	Ø.ØØ5	not found
2,4-Dichlorophenol	Ø.ØØ5	not found
2,4-Dimethylphenol	Ø.ØØ5	not found
2,4-Dinitrophenol	Ø.Ø2	not found
2-Methyl-4,6-dinitrophenol	Ø.Ø2	not found
2-Nitrophenol	Ø.ØØ5	not found
4-Nitrophenol	Ø.ØØ5	not found
Pentachlorophenol	Ø.ØØ5	not found
Phenol	Ø.ØØ5	not found
2,4,6-Trichlorophenol	Ø.ØØ5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on \$2/21/9\$ by EPA Method 354\$.

TOTAL PETROLEUM HYDROCARBONS

*(Gasoline)

1.

1.

2.

(As 30 Wt. Motor Oil)

20.

*Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy.

MSD#5 Ø2/28/9Ø GØ651a11.wr1/#9 MH/dp/dc/ss/kc Respectfully submitted

/// Mary Mary Havilicek, Ph.D.

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-9
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/20/9Ø
Collected by: Patricia Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

SAMPLE DESCRIPTION:

Job Ø5Ø32, 5th & Kirkman Sts.

S-3-2, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
	· .	
Benzene	Ø.5	2.1
Toluene	Ø.5	18.
Ethylbenzene	Ø.5	11.
Xylenes	Ø.5	67.
TOTAL PURGEABLE PETROLEUM H (Weathered Gasoline)		11øø.
(Diesel #2, Stoddard Solven	t.	
Kerosene, Jet Fuel, Mineral		<5Ø.
BTX as a Percent of Fuel		7.9
Percent Surrogate Recovery		116.
*(Proctical Ougatitation Li	======================================	:======================================

^{*(}Practical Quantitation Limit)

NOTE: High concentration of some analytes caused the sample to be run diluted, resulting in raised Practical Quantitation Limits for analytes. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7 Ø2-26-9Ø GØ651f9.wr1/#22 MH/ej/re/kc Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

^{**}Soil samples sonicated during extraction.

Central Coast Analytical Services Collected: \$2/15/99 • \$838 141 Suburban Road, Suite C-4 Received: \$2/19/99 • \$915 San Luis Obispo, California 93401 Tested: (8Ø5) 543-2553

Lab Number: G-Ø651-9

As Listed Collected by: Patricia Curl

ATTN: Bob Warner S.P. Environmental Systems 9719 Lincoln Village, Suite 310 Sacramento, CA 95827

Sample Description: Job #05032, 5th & Kirkham Sts. 33Ø Cypress, Oakland, Tank Removal S-3-2, Soil

*DIGESTED BY EPA METHOD 3050 ON Ø2/21/9Ø BY AEA.

REPORT

CONSTITUENT	EPA METHOD/DATE/ANALYST	DETECTION LIMIT mg/kg(PQL)**	TOTAL LEVEL Found mg/kg	***TTLC mg/kg
*CADMIUM	6Ø1Ø Ø2/21/9Ø JMW	3.	4.1	100.
CHROMIUM VI	3Ø6Ø/7196 Ø2/21/9Ø AEA	ø.1	ø.2	5ØØ.
*LEAD	742Ø Ø2/21/9Ø JMW	1.	63.	1000.
*ZINC	6Ø1Ø Ø2/21/9Ø JMW	3.	900.	5ØØØ.

Ø2/26/9Ø GØ651-9S.WR1/#18 MH/ke

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES Maystaclicit

^{**}Practical Quantitation Limit

^{***}TOTAL THRESHOLD LIMIT CONCENTRATION as listed in 22 Cal Adm Code Art 11 Sec. 66699 as persistent & bioaccumulative toxic substance.

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-9dup
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/2Ø/9Ø
Collected by: Patricia Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

Southern Pacific Environmental Sys.

**Soil samples sonicated during extraction.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

SAMPLE DESCRIPTION:

Job Ø5Ø32, 5th & Kirkman Sts. S-3-2, Soil, Duplicate Analysis

Compound Analyzed	Detection Limit in ppm (PQL)*	in ppm
Benzene	Ø.5	1.9
Toluene	Ø.5	18.
Ethylbenzene	Ø.5	11.
Xylenes	Ø.5	63.
TOTAL PURGEABLE PETROLEUM :		11ØØ.
(Diesel #2, Stoddard Solver Kerosene, Jet Fuel, Minera		< 5Ø.
BTX as a Percent of Fuel		7.5
		7.5
Percent Surrogate Recovery	***=================	115.
*(Practical Quantitation Li		
	•	

NOTE: High concentration of some analytes caused the sample to be run diluted, resulting in raised Practical Quantitation Limits for analytes. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7 Ø2-26-9Ø GØ651f9d.wr1/#22 MH/ej/re/kc Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast Lab Number
Analytical Services Collected:
141 Suburban Road , Suite C-4 Received:
San Luis Obispo, California 93401 Tested;
(805) 543-2553 Collected

Lab Number: G-Ø651-9
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested; Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - PESTICIDES & PCB'S

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

Suite 310 S-3-2 @ 1', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg)	Concentration	
	(Practical Quantitation Limit)	(mg/Kg)	
Aldrin	Ø.ØØ5	not found	
alpha BHC	Ø.ØØ5	not found	
beta BHC	Ø.ØØ5	not found	
delta BHC	ø.øø5	not found	
gamma BHC	Ø.ØØ5	not found	
pp-DDD	ø.øø5	not found	
pp-DDE	Ø.ØØ5	not found	
pp-DDT	ø.øø5	not found	
Dieldrin	Ø.ØØ5	not found	
Endosulfan I	Ø.ØØ5	not found	
Endosulfan II	Ø.Ø5	not found	
Endosulfan Sulfate	Ø.ØØ5	not found	
Endrin	Ø.ØØ5	not found	
Endrin Aldehyde	Ø.ØØ5	not found	
Heptachlor	ø.øø5	not found	
Heptachlor Epoxide	Ø.ØØ5	not found	
Chlordane	Ø.Ø5	not found	
Toxaphene	Ø.Ø5	not found	
PCB 1Ø16	Ø.Ø5	not found	
PCB 1221	Ø.Ø5	not found	
PCB 1232	Ø.Ø5	not found	
PCB 1242	Ø.Ø5	not found	
PCB 1248	Ø.Ø5	not found	
PCB 1254	Ø.Ø5	not found	
PCB 126Ø	Ø.Ø5	not found	

Compounds reported as "not found" would have been reported if present at or above the listed detection limit, Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 Ø2/27/9Ø GØ651a9.wr1/#9 MH/dp/dc/ss Respectfully submitted,

Mary Havlicek, Ph.D.

Central Coast Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 934Ø1

Lab Number: G-Ø651-9 Collected: Ø2/15/9Ø Ø2/19/9Ø Received: Ø2/22/9Ø Tested:

(8Ø5) 543-2553 Collected by: P. Curl

POLYNUCLEAR AROMATICS BY EPA METHOD 625/827Ø (GC/MS)

Attn: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

Proj.#Ø5Ø32, 5th & Kirkham Sts.,

9719 Lincoln Village Drive Suite 310

S-3-2 @ 1', Soil

Sacramento, CA 95827

Compound Analyzed Detection Limit (mg/Kg) Concentration (mg/Kg) (Practical Quantitation Limit) Acenaphthalene Ø.ØØ5 not found Acenaphthene Ø.ØØ5 not found Anthrocene Ø.ØØ5 Ø.ØØ8 Benzo(a)anthracene Ø.ØØ5 not found Benzo(b)fluoranthene Ø.ØØ5 not found Benzo(k)fluoranthene Ø.ØØ5 not found Benzo(a)pyrene Benzo(ghi)perylene Ø.ØØ5 not found Ø.ØØ5 not found Chrysene Ø.ØØ5 not found

Dibenzo(a,h)anthracene Ø.ØØ5 not found Fluoranthene Ø.ØØ5 Ø.Ø31 Fluorene Ø.ØØ5 Ø. Ø17 Indeno(1,2,3-cd)pyrene Ø.ØØ5 not found Methylnophthalenes Ø.ØØ5 1Ø. Naphthalene Ø.ØØ5 6.4 Phenanthrene Ø.ØØ5 Ø.Ø87 Pyrene Ø.ØØ5 Ø. Ø58

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on \$2/21/9\$ by EPA Method 354Ø.

MSD#5 Ø2/27/9Ø GØ651b9.wr1/#9 MH/dp/dc/ss

Respectfully submitted,

Mangaellas Mary Havlicek, Ph.D.

Suite 310

Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 934Ø1 (8Ø5) 543-2553

Coast-to-Coast

Lab Number: G-Ø651-9
Collected: Ø2/15/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ACIDS

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

S-3-2 @ 1', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	Ø.ØØ5	not found
2-Chlorophenol	Ø.ØØ5	not found
Creosols	Ø.ØØ5	not found
2,4-Dichlorophenol	Ø.ØØ5	not found
2,4-Dimethylphenol	Ø.ØØ5	not found
2,4-Dinitrophenol	Ø.Ø2	not found
2-Methyl-4,6-dinitrophenol	Ø.Ø2	not found
2-Nitrophenol	Ø.ØØ5	not found
4-Nitrophenol	Ø.ØØ5	not found
Pentachlorophenol	Ø.ØØ5	not found
Phenol	Ø.ØØ5	not found
2,4,6-Trichlorophenol	Ø.ØØ5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

TOTAL PETROLEUM HYDROCARBONS

*(Gasoline)	1,	1100.
(As 30 Wt. Motor Oil)	1	38.

*Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy.

Respectfully submitted,

Mary Havlicek, Ph.D.

President

MSD#5 Ø2/28/9Ø GØ651a9.wr1/#9 MH/dp/dc/ss/kc

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-6
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/2Ø/9Ø
Collected by: Patricia Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

Southern Pacific Environmental Sys.

**Soil samples sonicated during extraction.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

SAMPLE DESCRIPTION:

Job Ø5Ø32, 5th & Kirkman Sts.

S-4-1, Soil

Compound Analyzed	Detection Limit	Concentration
	in ppm (PQL)*	in ppm
Benzene	Ø.ØØØ5	Ø.ØØ17
Toluene	Ø.ØØØ5	Ø.ØØ23
Ethylbenzene	Ø.ØØØ5	not found
Xylenes	Ø.ØØØ5	Ø.ØØ43
TOTAL PURGEABLE PETROLEUM (Gasoline)		<Ø.1
•		
(Diesel #2, Stoddard Solver		
Kerosene, Jet Fuel, Minera 	l Spirits)ø.1 	< Ø . 1
BTX as a Percent of Fuel		not applicabl
Percent Surrogate Recovery		115.
======================================		: ## # # # # # # # # # # # # # # # # #
Tridected wadnetederon L.	riiit ()	

MSD#7 Ø2-26-9Ø GØ651f6.wr1/#22 MH/ej/re/kc Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

Central Coast
Analytical Services
141 Suburban Road, Suite C-4
San Luis Obispo, California 934Ø1
(8Ø5) 543-2553

Lab Number: G-Ø651-6 Collected: Ø2/14/9Ø

Received:

Ø2/14/9Ø @ 16ØØ Ø2/19/9Ø @ Ø915

Tested: As Listed Collected by: Patricia Curl

ATTN: Bob Warner S.P. Environmental Systems 9719 Lincoln Village, Suite 310 Sacramento, CA 95827

Sample Description:
Job #05032, 5th & Kirkham Sts.
330 Cypress, Oakland, Tank Removal
S-4-1, Soil

*DIGESTED BY EPA METHOD 3050 ON 02/21/90 BY AEA.

CONSTITUENT	EPA METHOD/DATE/ANALYST	REPORT DETECTION LIMIT mg/kg(PQL)**	TOTAL LEVEL FOUND mg/kg	DUPLICATI mg/kg		LEVEL FOUND //SPIKE mg/kg	% SPIKE RECOVERY Percent
*CADMIUM	6Ø1Ø Ø2/21/9Ø JMW	3.	₹3.	<3.	36.	32.	89.
***CHROMIUM VI	7196 Ø2/21/9Ø AEA	Ø.1	√ <Ø.1	<Ø.1	1.	<Ø.1	< 1.
*LEAD	7420 Ø2/21/9Ø JMW	1.	54.	66.	36.	9Ø.	83.
*ZINC	6Ø1Ø Ø2/21/9Ø JMW	3.	: 12ø.	12Ø.	36.	15Ø.	83.

***NOTE: Matrix in soil can cause reduction and for precipitation of Chromium VI, resulting in low recovery of spike

**Practical Quantitation Limit

Ø2/26/9Ø GØ651-6S.WR1/#18 MH/ke Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Many Vacalized

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-6
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - PESTICIDES & PCB'S

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

Suite 31Ø S-4-1 @ 5', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg)	Concentration
	(Practical Quantitation Limit)	(mg/Kg)
Aldrin	Ø.ØØ5	not found
alpha BHC	ø.øø5	not found
beta BHC	Ø.ØØ5	not found
delta BHC	ø.ø05	not found
gamma BHC	ø.øø5	not found
pp-DDD	Ø.Ø5	not found
pp-DDE	ø.øø5	not found
pp-DDT	ø.øø5	not found
Dieldrin	Ø.ØØ5	not found
Endosulfan I	ø.øø5	not found
Endosulfan II	Ø.Ø5	not found
Endosulfan Sulfate	ø.øø5	not found
Endrin	ø.øø5	not found
Endrin Aldehyde	Ø.Ø65	not found
Heptachlor	Ø.ØØ5	not found
Heptachlor Epoxide	Ø.ØØ5	not found
Chlordane	Ø.Ø5	not found
Toxaphene	Ø.Ø5	not found
PCB 1Ø16	Ø.Ø5	not found
PCB 1221	Ø.Ø5	not found
PCB 1232	Ø.Ø5	not found
PCB 1242	Ø.Ø5	not found
PCB 1248	Ø.Ø5	not found
PCB 1254	Ø.Ø5	not found
PCB 126Ø	ø.ø5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 **02/27/90** G**0651**g6.wr1

GØ651a6.wr1/#9 MH/dp/dc/co Respectfully submitted,

Mary Bullet.
Mary Havlicek, Ph.D.

Central Coast Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 934Ø1 (8Ø5) 543-2553

Lab Number: G-Ø651-6 Collected: Ø2/14/9Ø Received: Ø2/19/9Ø Tested: Ø2/22/9Ø Collected by: P. Curl

POLYNUCLEAR AROMATICS BY EPA METHOD 625/8270 (GC/MS)

Attn: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#Ø5Ø32, 5th & Kirkham Sts.,

S-4-1 @ 5', Soil

Suite 310 Sacramento, CA 95827

Compound Analyzed Detection Limit (mg/Kg) Concentration (mg/Kg) (Practical Quantitation Limit) Acenaphthalene Ø.ØØ5 not found Acenaphthene Ø.ØØ5 not found Anthracene Ø.ØØ5 Ø. Ø27 Benzo(a)anthracene Ø.ØØ5 Ø.95 Benzo(b)fluoranthene Ø.ØØ5 Ø.8Ø Benzo(k)fluoranthene Ø.ØØ5 Ø.8Ø Benzo(a)pyrene Ø.ØØ5 1.8 Benzo(ghi)perylene Ø.ØØ5 not found Chrysene Ø.ØØ5 1.3 Dibenzo(a,h)anthracene Ø.ØØ5 Ø.33 Fluoranthene Ø.ØØ5 Ø.49 Fluorene Ø.ØØ5 not found Indeno(1,2,3-cd)pyrene Ø.ØØ5 1.4 Methylnaphthalenes Ø. ØØ5 Ø.12 Naphthalene Ø.ØØ5 Ø.Ø44 Phenanthrene Ø.ØØ5 Ø.17 Pyrene Ø.ØØ5 Ø.72

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 3540.

MSD#5 Ø2/27/9Ø GØ651b6.wr1/#9 MH/dp/dc/ss

Respectfully submitted,

Many Waller Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-6
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ACIDS

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#Ø5Ø32, 5th & Kirkham Sts.,

Suite 310

S-4-1 @ 5', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	Ø.ØØ5	not found
2-Chlorophenol	Ø.ØØ5	not found
Creosols	Ø.ØØ5	not found
2,4-Dichlorophenol	Ø.ØØ5	not found
2,4-Dimethylphenol	Ø.ØØ5	not found
2,4-Dinitrophenol	Ø.Ø2	not found
2-Methyl-4,6-dinitrophenol	Ø. Ø2	not found
2-Nitrophenol	Ø.ØØ5	not found
4-Nitrophenol	Ø.ØØ5	not found
Pentachlorophenol	Ø.ØØ5	not found
Phenol	Ø.ØØ5	not found
2,4,6-Trichlorophenol	Ø.ØØ5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

TOTAL PETROLEUM HYDROCARBONS

*(As Gasoline)

1.

<1.

(As 30 Wt. Motor Oil)

1.

ЗØ.

*Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy.

Respectfully submitted,

MSD#5 Ø2/28/9Ø GØ651a6.wr1/#9 MH/dp/dc/co/kc

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-7
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/2Ø/9Ø

Collected by: Patricia Curl

115.

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

SAMPLE DESCRIPTION:

Job Ø5Ø32, 5th & Kirkman Sts.

S-4-2, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	Ø.5	, 1.3
Toluene	Ø.5	17.
Ethylbenzene	Ø.5	20.
Xylenes	Ø.5	110.
TOTAL PURGEABLE PETROLEUM HY (Weathered Gasoline)	_ :	 16øø.

^{*(}Practical Quantitation Limit)

Percent Surrogate Recovery

NOTE: High concentration of some analytes caused the sample to be run diluted, resulting in raised Practical Quantitation Limits for analytes. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7 Ø2-26-9Ø GØ651f7.wr1/#22 MH/jm/re/kc Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

^{**}Soil samples sonicated during extraction.

Central Coast Analytical Services 141 Suburban Road, Suite C-4 San Luis Obispo, California 934Ø1 (8Ø5) 543-2553

Lab Number: G-Ø651-7

Collected: Ø2/14/9Ø @ 162Ø Ø2/19/9Ø @ Ø915

Received: As Listed Tested:

Collected by: Patricia Curl

ATTN: Bob Warner S.P. Environmental Systems 9719 Lincoln Village, Suite 310

Sacramento, CA 95827

Sample Description:

Job #05032, 5th & Kirkham Sts. 339 Cypress, Oakland, Tank Removal

S-4-2, Soil

*DIGESTED BY EPA METHOD 3050 ON Ø2/21/9Ø BY AEA.

REPORT

CONSTITUENT	EPA METHOD/DATE/ANALYST	DETECTION LIMIT mg/kg(PQL)**	TOTAL LEVEL FOUND mg/kg	***TTLC mg/kg
*CADMIUM	6Ø1Ø Ø2/21/9Ø JMW	3.	<3.	100.
CHROMIUM VI	3Ø6Ø/7196 Ø2/21/9Ø AEA	Ø.1	<ø.1	5ØØ.
*LEAD	742Ø Ø2/21/9Ø JMW	1.	2.	1ØØØ.
*ZINC	6Ø1Ø Ø2/21/9Ø JMW	3.	19.	5ØØØ.

Ø2/26/9Ø GØ651-7S.WR1/#18 MH/ke

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES Many Vaulecik

^{**}Practical Quantitation Limit

^{***}TOTAL THRESHOLD LIMIT CONCENTRATION as listed in 22 Cal Adm Code Art 11 Sec. 66699 as persistent & bioaccumulative toxic substance.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-7
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/827Ø (GC/MS) - PESTICIDES & PCB'S

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#Ø5Ø32, 5th & Kirkham Sts.,

Suite 310

S-4-2 @ 1', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	Ø.ØØ5	not found
alpha BHC	Ø.ØØ5	not found
beta BHC	Ø.ØØ5	not found
delta BHC	Ø.ØØ5	not found
gamma BHC	Ø.ØØ5	not found
pp-DDD	Ø.ØØ5	not found
pp-DDE	Ø.ØØ5	not found
pp-DDT	Ø.ØØ5	not found
Dieldrin	Ø.ØØ5	not found
Endosulfan I	Ø.ØØ5	not found
Endosulfan II	Ø.Ø5	not found
Endosulfan Sulfate	Ø.ØØ5	not found
Endrin	Ø.ØØ5	not found
Endrin Aldehyde	Ø.ØØ5	not found
Heptachlor	Ø.ØØ5	not found
Heptachlor Epoxide	Ø.ØØ5	not found
Chlordane	Ø.Ø5	not found
Toxaphene	Ø.Ø5	not found
PCB 1Ø16	Ø.Ø5	not found
PCB 1221	Ø.Ø5	not found
PCB 1232	Ø.Ø5	not found
PCB 1242	Ø.Ø5	not found
PCB 1248	Ø.Ø5	not found
PCB 1254	Ø.Ø5	not found
PCB 126Ø	Ø.Ø5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset2/21/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 Ø2/27/9Ø GØ651a7.wr1/#9 MH/dp/dc/ss

Muller Naulia 3

Respectfully submitted,

Mary Havlicek, Ph.D.

Central Coast Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401 (805) 543-2553

Lab Number: G-Ø651-7 Collected: Ø2/14/9Ø Received: Ø2/19/9Ø Ø2/22/9Ø Tested: Collected by: P. Curl

POLYNUCLEAR AROMATICS BY EPA METHOD 625/8270 (GC/MS)

Attn: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Suite 310

Proj.#05032, 5th & Kirkham Sts., S-4-2 @ 1', Soil

Sacramento, CA 95827

Detection Limit (mg/Kg) Compound Analyzed Concentration (mg/Kg) (Practical Quantitation Limit)

Acenaphthalene Acenaphthene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(ghi)perylene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Methylnaphthalenes Naphthalene	55555555555555555555555555555555555555	not found Ø.11 Ø.13 Ø.035 Ø.035 Ø.069 not found Ø.12 not found Ø.18 Ø.13 not found 14. 6.7
Naphthalene Phenanthrene Pyrene	Ø. ØØ5 Ø. ØØ5 Ø. ØØ5	6.7 Ø.39 Ø.29

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on \$2/12/9\$ by EPA Method 3540.

MSD#5 Ø2/27/9Ø GØ651b7.wr1/#9 MH/dp/dc/ss

Respectfully submitted.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-Ø651-7
Collected: Ø2/14/9Ø
Received: Ø2/19/9Ø
Tested: Ø2/22/9Ø
Collected by: P. Curl

EPA METHOD 625/827Ø (GC/MS) - SEMIVOLATILE ACIDS

ATTN: Bob Wagner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Sts.,

Suite 310

S-4-2 @ 1', Soil

Sacramento, CA 95827

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	Ø.ØØ5	not found
2-Chlorophenol	Ø.ØØ5	not found
Creosols	ø.øø5	not found
2,4-Dichlorophenol	Ø.ØØ5	not found
2,4-Dimethylphenol	Ø.ØØ5	not found
2,4-Dinitrophenol	Ø.Ø2	not found
2-Methyl-4,6-dinitrophenol	Ø.Ø2	not found
2-Nitrophenol	Ø.ØØ5	not found
4-Nitrophenol	Ø.ØØ5	not found
Pentachlorophenol	Ø.ØØ5	not found
Pheno1	Ø.ØØ5	not found
2,4,6-Trichlorophenol	Ø.ØØ5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset2/21/9\emptyset$ by EPA Method 354 \emptyset .

TOTAL PETROLEUM HYDROCARBONS

*(Gasoline)

1.

700.

(As 30 Wt. Motor Oil)

1.

16Ø.

*Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy.

Respectfully submitted,

MSD#5 Ø2/28/9Ø GØ651a7.wr1/#9 MH/dp/dc/ss/kc

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Collected: Ø2/14/9Ø Received: Ø2/19/9Ø Tested: Ø2/22/9Ø Collected by: P. Curl Extracted on: Ø2/21/9Ø

Lab Number:

TOTAL PETROLEUM HYDROCARBON ANALYSIS EPA METHOD 625/8270 (GC/MS)

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Suite 310

Proj.#05032, 5th & Kirkham Sts.,

W-1-1 @ 10', Water

Sacramento, CA 95827

Component Determined Detection Limit in ppm (PQL)**

Concentration in ppm

G-Ø651-1

Total Petroleum Hydrocarbons (30 Wt. Motor Oil)

1.

3.

Total Petroleum Hydrocarbons *(Gasoline)

1.

54.

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Gasoline. Internal standards are employed for greater accuracy. Sample was extracted by EPA Method 3510.

MSD#5 Ø2/28/9Ø GØ651tp1.wr1/#9 MH/dp/dc/co/kc Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

^{*}Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

**(Practical Quantitation Limit)

Suite 310

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4 San Luis Obispo, California 934Ø1 (805) 543-2553

Lab Number: G-Ø651-1 Collected: Ø2/14/9Ø Received: Ø2/19/9Ø Tested: Ø2/2Ø/9Ø Collected by: P. Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Proj.#05032, 5th & Kirkham Streets,

W-1-1, Water

Sacramento, CA 95827

Compound Analyzed	Detection Limit in ppb (PQL)*	Concentration in ppb
Benzene	1ØØ.	15øø.
Toluene	1ØØ.	12ØØ.
Ethylbenzene	1ØØ.	17øø.
Xylenes	100.	98ØØ.
TOTAL PURGEABLE PETROLEUM (Gasoline)		7ØØØØ.
(Diesel #2, Stoddard Solve		
Kerosene, Jet Fuel, Minero	1 Spirits)10000.	<10000.
BTX as a Percent of Fuel		20.
Percent Surrogate Recovery	,	118.
*(Practical Quantitation L **Soil samples sonicated d	imit)	=======================================

High concentration of some analytes caused the sample to be run diluted, resulting in raised Practical Quantitation Limits for analytes. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#6 Ø2/26/9Ø GØ651f1.wr1/#21 MH/j1/dc/co

Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401 (8Ø5) 543-2553

Lab Number: G-Ø651-1dup Collected: Ø2/14/9Ø Ø2/19/9Ø Received: Tested: Ø2/2Ø/9Ø Collected by: P. Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive

Suite 310

Sacramento, CA 95827

Proj.#05032, 5th & Kirkham Streets, W-1-1, Water, Duplicate Analysis

Compound Analyzed	Detection Limit in ppb (PQL)*	Concentration in ppb
	-	
Benzene	20.	1500.
Toluene	20.	1200.
Ethylbenzene	20.	2100.
Xylenes	20.	11000.
TOTAL PURGEABLE PETROLEUM HYD		
(Weathered Gasoline)		5ØØØØ.
(Weathered Gasoline) (Diesel #2, Stoddard Solvent,		5ØØØØ.
(Diesel #2, Stoddard Solvent,		5ØØØØ. <2ØØØ.

^{*(}Practical Quantitation Limit)

NOTE: High concentration of some analytes caused the sample to be run diluted, resulting in raised Practical Quantitation Limits for analytes. to instrument blank for undiluted Practical Quantitation Limits.

MSD#6 Ø2/26/9Ø GØ651f1d.wr1/#21 MH/ec/dc/co

Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

^{**}Soil samples sonicated during extraction.

Central Coast
Analytical Services
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Received: **Ø2/19/9Ø @ Ø915**Tested: As Listed
Collected by: Patricia Curl

Lab Number:

Collected:

ATTN: Bob Warner S.P. Environmental 9719 Lincoln Village, Suite 31Ø Sacramento, CA 95827 Sample Description: Job #05032, 5th & Kirkham Sts. 330 Cypress, Oakland, Tank Removal W-1-1, Aqueous

G-Ø651-1

Ø2/14/9Ø @ 1515

REPORT

CONSTITUENT E	PA METHO	D/DATE/ANA	LYST	DETECTION LIMIT (mg/l)(PQL)*	LEVEL FOUND mg/l	LEVEL FOUND meq/1
**CALCIUM	2ØØ.7	Ø2/23/9Ø	RJ	1Ø.	26.	1.3
**MAGNESIUM	200.7	Ø2/23/9Ø	RJ	1Ø.	38 .	3.Ø
**SODIUM	200.7	Ø2/23/9Ø	RJ	1Ø.	69.	3.Ø
**POTASSIUM	200.7	Ø2/23/9Ø	RJ	3Ø.	2Ø.	Ø.6
SUM OF CATIONS						8.0
ALKALINITY AS CaCO3	31Ø.1	Ø2/2Ø/9Ø	RPB	1.	62Ø.	12.4
BICARBONATE AS HCO3	31Ø.1	Ø2/2Ø/9Ø	RPB	1.	76Ø.	12.4
CARBONATE AS CaCO3	310.1	Ø2/2Ø/9Ø	RPB	1.	` <1.	<Ø.1
HYDROXIDE AS OH	310.1	Ø2/2Ø/9Ø	RPB	1.	<1.	<Ø.1
CHLORIDE	3ØØ.Ø	Ø2/22/9Ø	CS	1.	44.	1.2
SULFATE	3ØØ.Ø	Ø2/22/9Ø	CS	1.	16.	Ø.3
NITROGEN, NITRATE	3ØØ.Ø	Ø2/22/9Ø	CS	Ø.1	<Ø.1	<Ø.1
NITRATE	3ØØ.Ø	Ø2/22/9Ø	CS	Ø.4	<Ø.4	
FLUORIDE	3ØØ.Ø	Ø2/22/9Ø	CS	Ø.1	Ø.9	Ø.1
**IRON	200.7	Ø2/23/9Ø	RJ	Ø.Ø5	Ø.17	
**MANGANESE	2ØØ.7	Ø2/23/9Ø	RJ	Ø.Ø6	<ø.ø6	
**COPPER	2ØØ.7	Ø2/23/9Ø	RJ	Ø.2	<Ø.2	
**ZINC	2ØØ.7	Ø2/23/9Ø	RJ	Ø.2	<Ø.2	
FOAMING AGENTS	425.1	Ø2/22/9Ø	RPB	Ø.Ø2	Ø.13	
SUM OF ANIONS						14.Ø
pH (units)	15Ø.1	Ø2/2Ø/9Ø	RPB	Ø.1	6.4	
CONDUCTIVITY	120.1	Ø2/2Ø/9Ø	RPB	1.	1200.	
(micromhos)						
DISSOLVED SOLIDS, . TOTAL	16Ø.1	Ø2/21/9Ø	DEK	5.	77Ø.	
HARDNESS	13Ø.2	Ø2/21/9Ø	DEK	Ø.1	48Ø.	

^{*}Practical Quantitation Limit

02/26/90 G0651-15.WR1/#17 MH/ke/bc Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Many Vander Control of the Control of

^{**}Note: Limited sample size remained for metals due to change in request for analyses, resulting in higher Practical Quantitation Limit.

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4 San Luis Obispo, California 934Ø1 (8Ø5) 543-2553

Lab Number: G-Ø651-2 Collected: Ø2/15/9Ø Ø2/19/9Ø Received: Tested: Ø2/2Ø/9Ø Collected by: P. Curl

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

ATTN: Bob Warner

SAMPLE DESCRIPTION:

Southern Pacific Environmental Sys.

9719 Lincoln Village Drive Suite 310

Proj.#05032, 5th & Kirkham Streets,

W-2-1, Water

Sacramento, CA 95827

Compound Analyzed	Detection Limit in ppb (PQL)*	Concentration in ppb
Benzene	ø.1	Ø.3
Toluene	Ø.5	1.6
Ethylbenzene	Ø.5	Ø.3
Xylenes	Ø.5	1.9
TOTAL PURGEABLE PETROLEUM HYDR (Weathered Gasoline)		 5ø.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Sp	irits)1Ø.	<1Ø.
BTX as a Percent of Fuel		7.5
Percent Surrogate Recovery		111.
=======================================	**=====================================	
*(Practical Quantitation Limit)	

MSD#6 Ø2/26/9Ø GØ651f2.wr1/#21 MH/jl/dc/co

Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

^{**}Soil samples sonicated during extraction.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 934Ø1
(8Ø5) 543-2553

Lab Number: B-Ø222Ø

Collected: Received:

Tested: Ø2/22/9Ø

Collected by: Extracted on:

TOTAL PETROLEUM HYDROCARBON ANALYSIS EPA METHOD 625/8270 (GC/MS)

CCAS

SAMPLE DESCRIPTION:

Instrument Blank

Component Determined

Detection Limit Concentration in ppb (PQL)*

Total Petroleum Hydrocarbons 50. <50.

(Motor Oil)

Total Petroleum Hydrocarbons 50. <50.

(Stoddard Solvent)

*(Practical Quantitation Limit)

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Stoddard Solvent. Internal standards are employed for greater accuracy.

MSD#5 Ø2/28/9Ø BØ221tp.wr1/#1Ø MH/dp/dc/ss Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: QL-Ø221Ø Collected: Ø2/21/9Ø Received: Ø2/21/9Ø Tested: Ø2/22/9Ø

Collected by:

Extracted on: Ø2/21/9Ø

TOTAL PETROLEUM HYDROCARBON ANALYSIS EPA METHOD 625/8270 (GC/MS)

CCAS

SAMPLE DESCRIPTION:

EPA Method 3510 Reagent Blank

Component Determined
Detection Limit Concentration in ppb (PQL)*

Total Petroleum Hydrocarbons 50. <50.

(Motor Oil)

Total Petroleum Hydrocarbons 50. <50.

(Stoddard Solvent)

*(Practical Quantitation Limit)

The values presented are developed by comparison of sample extracts with simulated extracts prepared from 30 Wt. Motor Oil & Stoddard Solvent. Internal standards are employed for greater accuracy. Sample was extracted by EPA Method 3510.

MSD#5 Ø2/28/9Ø QLØ221tp.wr1/#1Ø MH/dp/dc/ss Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast
Analytical Services, Inc.
Al Suburban Road . Suite C-4

Collected:

Lab Number:

B-Ø22ØØ

141 Suburban Road , Suite C-4 San Luis Obispo, California 93401

Received: Tested:

Ø2/2Ø/9Ø

(805) 543-2553

Collected by:

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

CCAS

SAMPLE DESCRIPTION: INSTRUMENT BLANK

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	Ø.ØØØ2	not found
Toluene	Ø.ØØØ5	not found
Ethylbenzene	Ø.ØØØ5	not found
Xylenes	Ø.ØØØ5	not found
TOTAL PURGEABLE PETROLEUM HYDROCARI (Gasoline)	BONS Ø.Ø5 s)Ø.Ø5	<Ø.Ø5 <Ø.Ø5
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		1Ø8.
*(Practical Quantitation Limit) **Soil samples sonicated during ex		***************

MSD#6 Ø2/26/9Ø B-Ø22ØØf.wr1/#21 MH/j1/dc/co Respectfully submitted,

COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4

(8Ø5) 543-2553

Lab Number: Collected: QS-Ø22ØØ

Possived.

San Luis Obispo, California 93401

Received: Tested:

Ø2/2Ø/9Ø

Collected by:

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

CCAS

SAMPLE DESCRIPTION: BOILED WATER SPIKE Spiked with Gasoline to Ø.7 ppm

Compound Analyzed		Concentration w/spike in ppm	
Benzene	Ø.ØØ1	Ø. Ø37	123.
Toluene	Ø.ØØ1	Ø.1Ø	88.
Ethylbenzene	Ø.ØØ1	Ø.Ø25	132.
Xylenes	Ø.ØØ1	Ø.12	133.
TOTAL PURGEABLE PETROLEUM			124.
(Diesel #2, Stoddard Solve Kerosene, Jet Fuel, Minera	•	<ø.1	
BTX as a Percent of Fuel		3Ø.	
Percent Surrogate Recovery	ý	116.	

**Soil samples sonicated during extraction.

*(Practical Quantitation Limit)

MSD#7 Ø2-26-9Ø qSØ22ØØf.wr1/#22 MH/ej/re/kc Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast Analytical Services, Inc. 141 Suburban Road , Suite C-4

San Luis Obispo, California 93401

Lab Number: Collected:

S-Ø22ØØ-2

Received: Tested:

Ø2/2Ø/9Ø

(8Ø5) 543-2553

Collected by:

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

CCAS

SAMPLE DESCRIPTION: STD. 1/2X (#Ø22Ø9Ø-9) BTE & EDC @ 0.020 ppm, Xylenes @ 0.060 ppm

Compound Analyzed	Detection Limit in ppm (PQL)*	w/spike in ppm	Recovery
_	.		
Benzene	Ø.ØØ1	Ø.Ø27	135.
Toluene	Ø. ØØ1	Ø.Ø21	1Ø5.
Ethylbenzene	Ø.ØØ1	Ø.Ø23	115.
Xylenes	Ø.ØØ1	Ø.Ø7Ø	117.
(Diesel #2, Stoddard S Kerosene, Jet Fuel, Mi	ø _. 1	not ap	oplicable
BTX as a Percent of Fi	uel	not as	oplicable
Percent Surrogate Reco	overy	118.	
		=======================================	
*(Practical Quantitati	ion Limit)		

MSD#7 Ø2-26-9Ø SØ22ØØf2.wr1/#22 MH/ej/re/kc

**Soil samples sonicated during extraction.

Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: B-02200-2 Collected:

Received:

Tested:

Ø2/2Ø/9Ø

Collected by:

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

CCAS

SAMPLE DESCRIPTION: INSTRUMENT BLANK

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
		·
Benzene	Ø.ØØØ1	not found
Toluene	Ø.ØØØ5	not found
Ethylbenzene	Ø.ØØØ5	not found
Xylenes	Ø.ØØØ5	not found
TOTAL PURGEABLE PETROLEUM HYDROCAL (Gasoline)	Ø.Ø5	<Ø.Ø5
BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		126.
*(Practical Quantitation Limit) **Soil samples sonicated during ex		

MSD#7 Ø2-26-9Ø BØ22ØØf2.wr1/#22 MH/jm/re/kc Respectfully submitted, COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast
Analytical Services, Inc.
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: B-02200 Collected:

Received:

Tested: Ø2/20/90 Collected by:

Fuel Fingerprint Analysis - EPA Method 8240/8260 (GC/MS) EXTRACTED BY EPA METHOD 5030 (purge-and-trap)**

CCAS

SAMPLE DESCRIPTION: INSTRUMENT BLANK

Compound Analyzed	Detection Limit	Concentration
	in ppm (PQL)*	in ppm
Benzene	Ø.ØØØ1	not found
Toluene	Ø.ØØØ5	not found
Ethylbenzene	Ø.ØØØ5	not found
Xylenes	Ø.ØØØ5	not found
TOTAL PURGEABLE PETROLEUM F		
(Gasoline)	ø.ø5	<ø.ø5
(Diesel #2, Stoddard Solver	nt,	
Kerosene, Jet Fuel, Mineral	l Spirits)ø.ø5 	< Ø . Ø 5
BTX as a Percent of Fuel		not applicabl
Percent Surrogate Recovery		119.
		#### #####
*(Practical Quantitation Li	lmit)	

MSD#7 Ø2-26-9Ø BØ22ØØf.wr1/#22 MH/ej/re/kc

**Soil samples sonicated during extraction.

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 934Ø1

Lab Number: B-02220 Collected:

Received:

Tested: Ø2/22/9Ø

(8Ø5) 543-2553

Collected by:

EPA METHOD 625/8270 (GC/MS) - PESTICIDES & PCB'S

CCAS

SAMPLE DESCRIPTION:

Instrument Blank

Compound Analyzed	Detection Limit (mg/Kg)	Concentration
	(Practical Quantitation Limit)	(mg/Kg)
Aldrin	Ø.ØØ1	not found
alpha BHC	Ø. ØØ1	not found
beta BHC	Ø. ØØ1	not found
delta BHC	Ø.ØØ1	not found
gamma BHC	Ø.ØØ1	not found
pp-DDD	Ø.ØØ1	not found
pp-DDE	Ø. ØØ1	not found
pp-DDT	Ø.ØØ1	not found
Dieldrin	Ø.ØØ1	not found
Endosulfan I	Ø.ØØ1	not found
Endosulfan II	Ø.Ø1	not found
Endosulfan Sulfate	Ø.ØØ1	not found
Endrin	Ø.ØØ1	not found
Endrin Aldehyde	Ø.ØØ1	not found
Heptachlor	Ø.ØØ1	not found
Heptachlor Epoxide	Ø.ØØ1	not found
Chlordane	Ø.Ø1	not found
Toxaphene	Ø.Ø1	not found
PCB 1Ø16	Ø.Ø1	not found
PCB 1221	Ø.Ø1	not found
PCB 1232	Ø.Ø1	not found
PCB 1242	Ø.Ø1	not found
PCB 1248	Ø.Ø1	not found
PCB 1254	Ø.Ø1	not found
PCB 126Ø	Ø.Ø1	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit.

MSD#5 Ø2/28/9Ø BØ222Øa.wr1/#1Ø MH/dp/dc/co

MayNacuce

Respectfully submitted.

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: QX-Ø221Ø Collected: Ø2/21/9Ø Received: Ø2/21/9Ø Tested: Ø2/22/9Ø

Collected by:

EPA METHOD 625/8270 (GC/MS) - PESTICIDES & PCB'S

CCAS

SAMPLE DESCRIPTION:

EPA Method 3540 Reagent Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	Ø.Ø5	not found
alpha BHC	Ø.Ø5	not found
beta BHC	Ø.Ø5	not found
delta BHC	Ø.Ø5	not found
gamma BHC	Ø.Ø5	not found
pp-DDD	Ø.Ø5	not found
pp-DDE	Ø.Ø5	not found
pp-DDT	Ø.Ø5	not found
Dieldrin	Ø.Ø5	not found
Endosulfan I	Ø.Ø5	not found
Endosulfan II	Ø.5	not found
Endosulfan Sulfate	Ø.Ø5	not found
Endrin	Ø.Ø5	not found
Endrin Aldehyde	Ø.Ø5	not found
Heptachlor	Ø.Ø5	not found
Heptachlor Epoxide	Ø.Ø5	not found
Chlordane	Ø.5	not found
Toxaphene	Ø.5	not found
PCB 1016	Ø.5	not found
PCB 1221	Ø.5	not found
PCB 1232	Ø.5	not found
PCB 1242	Ø.5	not found
PCB 1248	Ø.5	not found
PCB 1254	Ø.5	not found
PCB 126Ø	Ø.5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset2/21/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 Ø2/28/9Ø QXØ221Øa.wr1/#1Ø MH/dp/dc/ss Respectfully submitted,

Mu. Sauleul

Mary Havlicek, Ph.D.

Central Coast Analytical

Services

Central Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401

(8Ø5) 543-2553

Lab Number: B-Ø222Ø

Collected: Received:

Tested: Ø2/22/9Ø

Collected by:

POLYNUCLEAR AROMATICS BY EPA METHOD 625/8270 (GC/MS)

CCAS

SAMPLE DESCRIPTION:

Instrument Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	Ø.ØØ1	not found
Acenaphthene	Ø.ØØ1	not found
Anthracene	Ø.ØØ1	not found
Benzo(a)anthracene	Ø.ØØ1	not found
Benzo(b)fluoranthene	Ø.ØØ1	not found
Benzo(k)fluoranthene	Ø. ØØ1	not found
Benzo(a)pyrene	Ø.ØØ1	not found
Benzo(ghi)perylene	Ø.ØØ1	not found
Chrysene	Ø.ØØ1	not found
Dibenzo(a,h)anthracene	Ø.ØØ1	not found
Fluoranthene	Ø.ØØ1	not found
Fluorene	Ø.ØØ1	not found
Indeno(1,2,3-cd)pyrene	Ø.ØØ1	not found
Methylnaphthalenes	ø.øø1	not found
Naphthalene	Ø.ØØ1	not found
Phenanthrene	Ø.ØØ1	not found
Pyrene	Ø.ØØ1	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit.

MSD#5 Ø2/27/9Ø BØ222Øb.wr1/#1Ø MH/dp/dc/co

May Naule

Mary Havlicek, Ph.D.

Central Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: QX-Ø221Ø Collected: Ø2/21/9Ø Received: Ø2/21/9Ø Tested: Ø2/22/9Ø

Collected by:

POLYNUCLEAR AROMATICS BY EPA METHOD 625/8270 (GC/MS)

CCAS

SAMPLE DESCRIPTION:

EPA Method 3540 Reagent Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration	(mg/Kg)
Acenaphthalene Acenaphthene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Benzo(ghi)perylene Chrysene Dibenzo(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Methylnaphthalenes Naphthalene Phenanthrene	Ø. Ø5 Ø. Ø5	not found	
Pyrene	Ø.Ø5	not found	

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/12/9\emptyset$ by EPA Method 354 \emptyset .

MSD#5 Ø2/27/9Ø QXØ221Øb.wr1/#1Ø MH/dp/dc/ss Respectfully submitted,

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: QX-02210 Collected: 02/21/90 Received: 02/21/90 Tested: 02/22/90

Collected by:

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ACIDS

CCAS

SAMPLE DESCRIPTION:

EPA Method 3540 Reagent Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	Ø.Ø5	not found
2-Chlorophenol	Ø.Ø5	not found
Creosols	Ø.Ø5	not found
2,4-Dichlorophenol	Ø.Ø5	not found
2,4-Dimethylphenol	Ø.Ø5	not found
2,4-Dinitrophenol	Ø.2	not found
2-Methyl-4,6-dinitrophenol	Ø.2	not found
2-Nitrophenol	Ø.Ø5	not found
4-Nitrophenol	Ø.Ø5	not found
Pentachlorophenol	Ø.Ø5	not found
Phenol	Ø.Ø5	not found
2,4,6-Trichlorophenol	Ø.Ø5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/21/9\emptyset$ by EPA Method 354 \emptyset .

TOTAL PETROLEUM HYDROCARBONS

(As Stoddard Solvent) 1. <1.

(As 30 Wt. Motor Oil) 1. <1.

The values presented are developed by comparison of sample extracts with simulated extracts prepared from Stoddard Solvent & 30 Wt. Motor Oil. Internal standards are employed for greater accuracy.

MSD#5 Ø2/28/9Ø QXØ221Øa.wr1/#1Ø MH/dp/dc/ss

Mary Havlicek, Ph.D.

Respectfully submitted,

Central Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: QS-Ø214Ø

Collected:

Received: Tested:

Ø2/22/9Ø

Collected by:

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ACIDS

CCAS

SAMPLE DESCRIPTION:

ROASTED SOIL SPIKE, Selectively Spiked to $2000~\mathrm{ug/Kg}$

Compound Analyzed	Detection Limit (ug/Kg)(PQL)*	Concentration w/spike (ug/Kg)	Percent Recovery
4-Chloro-3-methylphenol	1.	92Ø.	46.
2-Chlorophenol	1.	800.	41.
2,4-Dichlorophenol	1.	not spiked	
2,4-Dimethylphenol	1.	not spiked	
2,4-Dinitrophenol	5.	not spiked	
2-Methyl-4,6-dinitropheno	1 5.	not spiked	
2-Nitrophenol	1.	not spiked	
4-Nitrophenol	1.	not spiked	
Pentachlorophenol	1.	not spiked	
Phenol	1.	96Ø. `	48.
2,4,6-Trichlorophenol	1.	not spiked	

^{*(}Practical Quantitation Limit)

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on Ø2-14-9Ø.

MSD#5 Ø2/28/9Ø QSØ214Øa.wr1/1Ø MH/dp/dc/co Respectfully submitted,

Mary Havlicek, Ph.D.

Coast-to-Coast
Analytical Services
141 Suburban Road , Suite C-4
San Luis Obispo, California 934Ø1
(8Ø5) 543-2553

Lab Number: B-Ø222Ø

Collected:

Received:

Tested:

Ø2/22/9Ø

Collected by:

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ACIDS

CCAS

SAMPLE DESCRIPTION:

Instrument Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	Ø.ØØ1	not found
2-Chlorophenol	Ø.ØØ1	not found
Creosols	Ø,ØØ1	not found
2,4-Dichlorophenol	Ø.ØØ1	not found
2,4-Dimethylphenol	Ø.ØØ1	not found
2,4-Dinitrophenol	Ø.ØØ5	not found
2-Methyl-4,6-dinitrophenol	Ø.ØØ5	not found
2-Nitrophenol	Ø.ØØ1	not found
4-Nitrophenol	Ø.ØØ1	not found
Pentachlorophenol	Ø.ØØ1	not found
Phenol	Ø.ØØ1	not found
2,4,6-Trichlorophenol	Ø.ØØ1	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit.

TOTAL PETROLEUM HYDROCARBONS

(As Stoddard Solvent)

1. <1.

(As 30 Wt. Motor Oil)

1. <1.

The values presented are developed by comparison of sample extracts with simulated extracts prepared from Stoddard Solvent & 30 Wt. Motor Oil. Internal standards are employed for greater accuracy.

Respectfully submitted,

MSD#5 Ø2/28/9Ø BØ222Øc.wr1/#1Ø MH/dp/dc/co

Mary Havlicek, Ph.D.

CCAS

Coast-to-Coast Analytical Services 141 Suburban Road , Suite C-4 San Luis Obispo, California 93401 Lab Number: QS-Ø214Ø

Collected: Received:

Tested: Ø2/22/9Ø

(8Ø5) 543-2553 Collected by:

EPA METHOD 625/8270 (GC/MS) - SEMIVOLATILE ORGANICS

SAMPLE DESCRIPTION:

ROASTED SOIL SPIKE, Selectively Spiked to 2000 ug/Kg Detection Limit

	to 2000 ug/Kg		
A	Detection Limit	Concentration	Percent
Compound Analyzed	(ug/Kg)(PQL)*	w/spike (ug/Kg)	Recovery
Accepabathalone	1		
Acenaphthalene	1.	not spiked	
Acenaphthene Anthracene	1.	1200.	62.
Benzidine	1.	not spiked	
	2.	not spiked	
Benzo(a)anthracene	1.	not spiked	
Benzo(b)fluoranthene	1.	not spiked	
Benzo(k)fluoranthene	1.	not spiked	
Benzo(a)pyrene	1.	not spiked	
Benzo(ghi)perylene	1.	not spiked	
Bis(2-chloroethoxy)methor		not spiked	
Bis(2-chloroethyl)ether	2.	not spiked	
Bis(2-chloroisopropyl)et	ner <u>2</u> .	not spiked	
Bis(2-ethylhexyl)phthala		not spiked	
4-Bromophenylphenylether	2.	not spiked	
Butylbenzylphthalate	5.	not spiked	
2-Chloronaphthalene	1.	not spiked	
4-Chlorophenylphenylether		not spiked	
Chrysene	1.	not spiked	
Dibenzo(a,h)anthracene	1.	not spiked	
Dibutylphthalate	. 1.	not spiked	
1,2-Dichlorobenzene	2.	not spiked	
1,3-Dichlorobenzene	2.	not spiked	
1,4-Dichlorobenzene	2.	75Ø.	38.
3,3-Dichlorobenzidine	5.	not spiked	
Diethylphthalate	1.	not spiked	
Dimethylphthalate	1.	not spiked	
2,4-Dinitrotoluene	2.	91ø.	46.
2,6-Dinitrotoluene	5.	not spiked	
Di-n-octylphthalate	1.	not spiked	
1,2-Diphenylhydrazine	1Ø.	not spiked	
Fluoranthene	1.	not spiked	
Fluorene	1.	not spiked	
Hexachlorobenzene	5.	not spiked	
Hexachlorobutadiene	2.	not spiked	
Hexachlorocyclopentadiene	∍ 5.	not spiked	
Hexachloroethane	1.	not spiked	
Indeno(1,2,3-cd)pyrene	1.	not spiked	
Isophorone	5.	not spiked	
Naphthalene	1.	not spiked	
Nitrobenzene	à.	not spiked	
N-Nitrosodimethylamine	20.	not spiked	
N-Nitrosodiphenylamine	2.	not spiked	
N-Nitroso di-n-propylamir		12ØØ.	58.
Phenanthrene	1. 1.		58.
Pyrene	1.	not spiked	
Trichlorobenzene		17ØØ.	86.
II TOUTOLODGUZGUR	2.	1ØØØ.	38.

^{*(}Practical Quantitation Limit)

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on $\emptyset 2/14/9\emptyset$.

MSD#5/Ø2-28-9Ø QSØ214Øb.wr1/1Ø MH/dp/dc/co

Respectfully submitted, Manylanderl Mary Havlicek, Ph.D., President

LOG NO. 21231

CHAIN OF CUSTODY AXIMALIKE MALA

-ENVIRONMENTAL-MANAGEMENT CORP.

) 7833601) 1 # 11 1 NOTE / FIELD READINGS 1 + 2 (50) 71D-280ppm wdd 001 - ald Pro-0 (3) = COLD (4) (15m) MEEKS TURN ARGUND TIME LAB TO SEND RESULTS TO: SPECIAL INSTRUCTIONS MEEK ORIGINAL 48 HONES **PRESERVATIVES**: 24 HOURS (1) HCL (2) HNO3 AIRBILL # ANALYSIS REQUESTED × × X × × REMARKS X SAMPLE RETENTION TIME X Х × × * × × Х × メ × DATE / TIME OTHER TRUCK 12 amb Rights Trunk Renss \$25.55 \$4.65 \$4.65 \$5.55 11.0°E が開発しる例 Suite 3/0 DESTINATION LABORATORY -AETC 3240-FITZGERALD.RD. RANCHO-CORDOVA, CA. EAVIRONMENTAL SYSTEMS (SPEND) CITEM JOB NUMBER CONTAINER 05032 bailer WHERE bniler Water 2105 2016 7/8: 7/05 7105 JEINGH 5016 7105 7/105 2005 UPS direct 421161 Surge Cheiven GRAB grap METHOD gens. gena 716 PHONE 319-897 SAMPLE DEPTH OAKLAND 8 3 FED X LINCALN VILLAGE MELLIRL JOB DESCRIPTION THAKS - REMOVAL IDENTIFICATION 5-2-5 W-2-5-3-3 $(M-)^{-1}$ 1-8-5 08/0 STELOCATION CYPRESS ST とか 5 7-5 ACRA MENTO SPECTATION TO STATE OF THE PARTY OF THE PART SUSPECTED CONSTITUENTS 68 009/ 0890 1515 029 0945 BOJECT MANAGER TIME 710 (as) DATE

ATTACHMENT E

Department of Health Services
Toxic Substances Control Division
Secremento, California

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l H		<u> </u>	PB				0) 043-4035
7.	Transporter 2 Company Name . 8.	US EPA ID Number			Transporter's II		
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Market Plaza, San Francisco, CA 94	105		B. Stat	o Generator's ID	<i>)</i> 0	55
Generator's Phone (415) 541-2838 ATTN:		nt			1 1	1111
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1 & H Ship Service Company CA	D D D A P P P D	168	D. Trai	nsporter's Phone	(41	5) 5434835
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JONAL JAY CUITTARD	yonac	Tu	78	Lucia		<u> </u>
18. Transporter 2 Acknowledgement of Receipt of Materials	Signature	${}$				Month Day Year
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20. Facility Owner or Operator Certification of receipt of hazardous m	Signature	salest exce	P. E3 NO	Red in Rem 19.		Month Day Year
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CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-860-852-7550

See Instructions on Back of Page 6

Department of Health Services Toxic Substances Control Division

	print or type. (Form designed for use on elite (12-pitch typewriter).	ID No. 10(7 M	lanifest	2. Pa	age 1		ne shaded areas
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-	3. Generator's Name and Mailing Address S.P. TRANSPORTATION COMPANY 1 Market Plaza				9 0 0	<u>036</u>	36
	San Francisco, CA 94105 4. Generator's Phone (415 541-2838 ATTN:	: Mr. Mike Gra	nt	B. Stat	e Generator's ID	1 1	101115 to
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		A ₁ D ₁ 9 ₁ 8 ₁ 1 ₁ 9 ₁ 8 ₁ 2	191914		sporter's Phone		<u>16) 885-2824</u>
ı	7. Transporter 2 Company Name 8.	US EPA ID Number			e Transporter's eporter's Phone		
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	containing waste oil. Tanks inerte transport.	a with ary ice	101	c.		d.	
	15. Special Handling Instructions and Additional Information	JOB S			RN PACIF		
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	APPROPRIATE PROTECTIVE CLOTHING AND	RESPIRATOR.	Oa	ikian	d, Califo	rnıa	
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See Instructions on Back of Page 6

Department of Health Services

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	3. Generator's Name and Mailing Address				A. State Meniger Good 3793			
	S.P. TRANSPORTATION COMPANY							
	1 Market Plaza San Francisco, CA 94105					State Generator's ID		
	4. Generator's Phone (415) 541-2838 ATTN: N	<i>V</i> ir. Mike Gran				H 1 XH103161010131013101		
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DAY AND NIGHT: 543-4835

FRANCISCO, CA 94107

BOX 77363

CERTIFICATE OF DISPOSAL

FEBRUARY 20, 1990

H & H Ship Service Company hereby certifies to S.P. ENVIRONMENTAL SYSTEMS that:

The storage tank(s), size(s) 1-10,000 GALS., 2-1,500 GALS. AND 500 GALS.

removed from the SOUTHERN PACIFIC -----------facility at 330 CYPRESS STREET OAKLAND, CALIFORNIA

were transported to H & H Ship Service Company, 220 China Basin St., San Francisco, California 94107.

- 2. The following tank(s), H & H Job Number have been steamed cleaned, cut with approximately 2' X 2' holes, rendered harmless and disposed of as scrap metal.
- 3. Disposal site: LEVIN METALS CORPORATION, RICHMOND, CALIFORNIA.
- The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.
- Should you require further information, please call (415) 543-4835.

Very Truly Yours,

Cleveland Operations Coordinator

220 CHINA BASIN, P.O.