



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 :

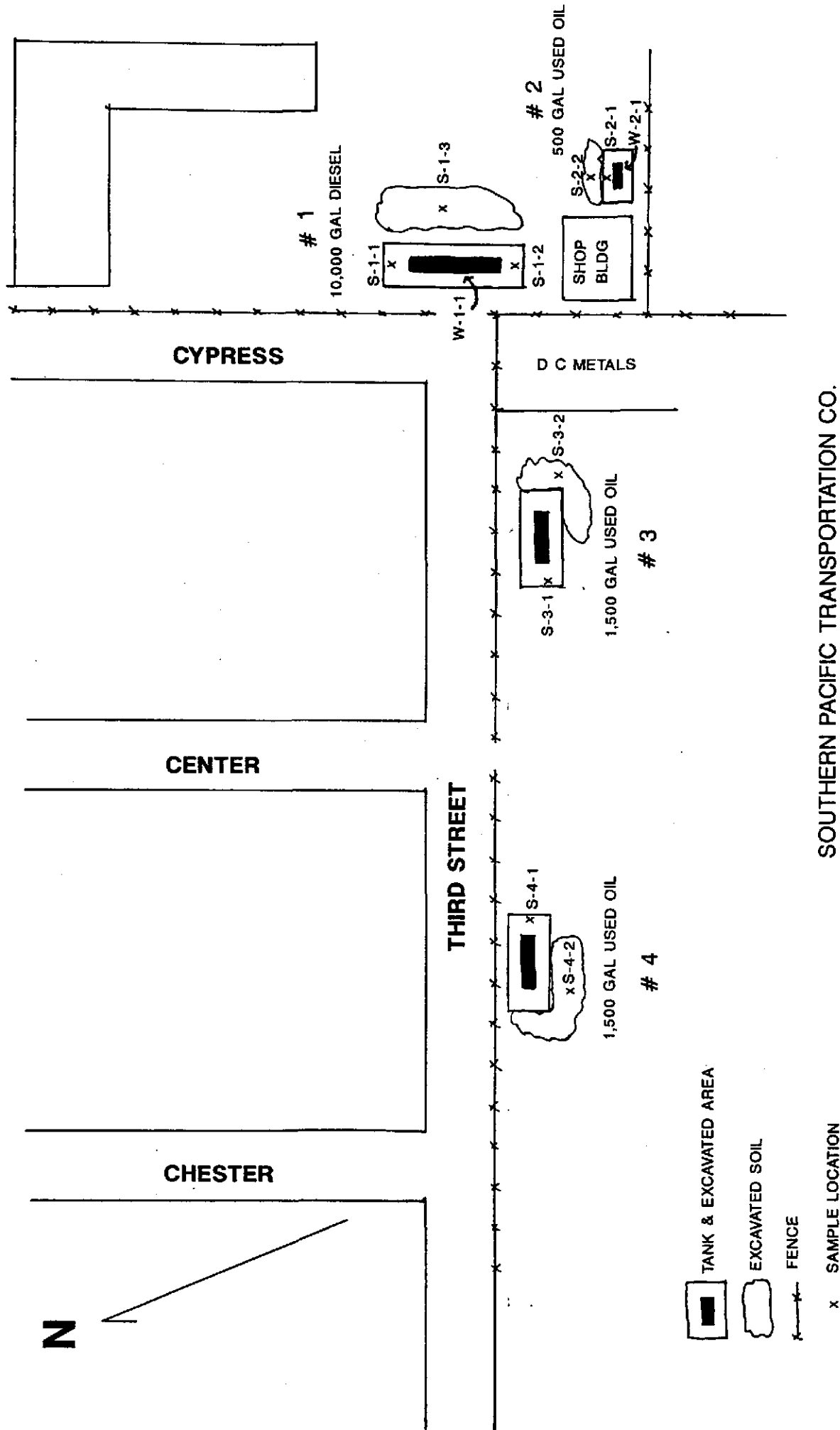
Attachment A	Figure 1 -- Site Plan, Tank and Sample Locations
B	Tank Removal Data Sheets
C	Table 1 -- Summary of Analytical Results
D	Laboratory Results
E	Manifests

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 A



SOUTHERN PACIFIC TRANSPORTATION CO.
KIRKHAM AND 5TH STREETS
TANK AND SAMPLE LOCATIONS

FIGURE 1

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 seepage 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	side wall, vent end	TPH-D;BTEX
S-1-2	side wall, fill end	TPH-D;BTEX
S-1-3	excavated soil	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.
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: 8 hours
7. Equipment and Materials used or rented: 3-50lb cylinders CO₂;
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): 0
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.
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
7. 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
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): 1450 gal
 - a) Was product pumped?: yes
 - b) If so, destination of product: H & H Ship Service, San Francisco (Class I facility)
 - c) Comments:
6. 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

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: 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

1. a) SP Tank Number: 05032-4
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 I facility)
 - c) Comments:
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. 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-1-1	S-1-2	S-1-3	W-1-1	S-2-1	S-2-2	W-2-1	S-3-1	S-3-2	S-4-1	S-4-2
TPH	700	NF	12	70	1500	6.3	50	8.1	1100	NF	1600
Oil & Grease	NA	NA	NA	NA	NF	220	4	NF	110	NF	250
Benzene	NF	0.004	0.002	1.5	1.9	0.004	0.0003	1.1	2.1	0.0017	1.3
Toluene	11	NF	0.004	1.2	18	0.006	0.0016	0.6	18	0.0023	17
Ethylbenzene	12	NF	NF	1.7	NF	0.003	0.0003	0.033	11	NF	20
Xylenes	58	NF	NF	9.8	NF	0.018	0.0019	1	67	0.0043	110
Cadmium	NA	NA	NA	NA	NF	NF	NA	NF	4.1	NF	NF
Chromium VI	NA	NA	NA	NA	NF	0.3	NA	NF	0.2	NF	NF
Lead	NA	NA	NA	NA	9.4	760	NA	NF	63	54	2
Zinc	NA	NA	NA	NA	60	560	NA	14	900	120	19

NA= Not Analyzed ; NF= Not Found or Not Detected

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: 02/19/90 @ 0915
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
Samples As Listed

REPORT

LAB NUMBER	SAMPLE DESCRIPTION	LEVEL FOUND
		OIL & GREASE
EPA METHOD-----		503E
DETECTION LIMIT(PQL)**-----		*3. mg/l
		***50. mg/kg
DATE/ANALYST-----		02/25/90/SAW*
		02/22/90/MGH***
G-0651-2	W-2-1, Aqueous Coll: 02/15/90 @ 0930	4. mg/l
G-0651-6	S-4-1, Soil Coll: 02/14/90 @ 1600	<50. mg/kg
G-0651-7	S-4-2, Soil Coll: 02/14/90 @ 1620	250. mg/kg
G-0651-8	S-2-2, Soil Coll: 02/15/90 @ 0800	220. mg/kg
G-0651-9	S-3-2, Soil Coll: 02/15/90 @ 0830	110. mg/kg
G-0651-10	S-2-1, Soil Coll: 02/15/90 @ 0930	<50. mg/kg
G-0651-11	S-3-1, Soil Coll: 02/15/90 @ 0945	<50. mg/kg

**Practical Quantitation Limit

02/26/90
G0651-2S.WR1/#17
MH/ke

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

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-0651-3
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl
Extracted on: 02/21/90

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

ATTN: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-1-1 @ 8', Soil

Component Determined	Detection Limit in ppm (PQL)*	Concentration in ppm
Total Petroleum Hydrocarbons (30 Wt. Motor Oil)	1.	35.
Total Petroleum Hydrocarbons *(Gasoline)	1.	700.

*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)

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
02/28/90
G0651tp3.wr1/#9
MH/dp/dc/co/kc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES


Mary Havlicek, Ph.D., President

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: G-0651-3
 Collected: 02/15/90
 Received: 02/19/90
 Tested: 02/20/90
 Collected by: P. 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:
 Proj.#05032, 5th & Kirkham Streets,
 S-1-1, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	5.	not found
Toluene	5.	11.
Ethylbenzene	5.	12.
Xylenes	5.	58.

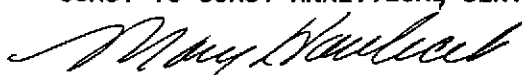
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Weathered Gasoline).....	50.	390.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)...	50.	<50.

BTX as a Percent of Fuel		19.
Percent Surrogate Recovery		128.

*(Practical Quantitation Limit)
 **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. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#6
 02/26/90
 G0651f3.wr1/#21
 MH/jl/dc/co

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

 Mary Havlicek, Ph.D., President

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-0651-4
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl
Extracted on: 02/21/90

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

ATTN: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
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.

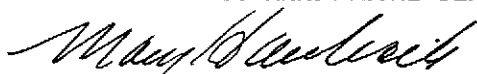
*Due to high volatility of this component, more accurate results will be obtained using EPA Method 5030/8240 (Purge & Trap with GC/MS).

** (Practical Quantitation Limit)

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
02/28/90
G0651tp4.wr1/#9
MH/dp/dc/co/kc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES


Mary Havlicek, Ph.D., President

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: G-0651-4
Collected: 02/14/90
Received: 02/19/90
Tested: 02/20/90
Collected by: P. 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:
Proj. #05032, 5th & Kirkham Streets,
S-1-2, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.002	0.004
Toluene	0.002	not found
Ethylbenzene	0.002	not found
Xylenes	0.002	not found

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Gasoline).....	0.2	<0.2
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)....	0.2	<0.2

BTX as a Percent of Fuel not applicable

Percent Surrogate Recovery 100.

*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#6
02/26/90
G0651f4.wr1/#21
MH/ec/dc/co

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

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-0651-5
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl
Extracted on: 02/21/90

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

ATTN: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-1-3 @ 1', Soil

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.

*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)

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
02/28/90
G0651tp5.wr1/#9
MH/dp/dc/co/kc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D., President

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: G-0651-5
Collected: 02/15/90
Received: 02/19/90
Tested: 02/20/90
Collected by: P. 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:
Proj.#05032, 5th & Kirkham Streets,
S-1-3, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.001	0.002
Toluene	0.001	0.004
Ethylbenzene	0.001	not found
Xylenes	0.001	not found

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Gasoline).....	0.1	<0.1
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)....	0.1	<0.1

BTX as a Percent of Fuel		not applicable
Percent Surrogate Recovery		83.

*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#6
02/26/90
G0651f5.wr1/#21
MH/ec/dc/co

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

Central
Coast
Analytical
Services

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

Lab Number: G-0651-10
Collected: 02/15/90 @ 0930
Received: 02/19/90 @ 0915
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-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	***TTL mg/kg
*CADMIUM	6010 02/21/90 JMW	3.	<3.	100.
CHROMIUM VI	3060/7196 02/21/90 AEA	0.1	<0.1	500.
*LEAD	7420 02/21/90 JMW	1.	9.4	1000.
*ZINC	6010 02/21/90 JMW	3.	60.	5000.

**Practical Quantitation Limit

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

02/26/90
G0651-10S.WR1/#18
MH/ke

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D., President

Coast-to-Coast
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: G-0651-10
Collected: 02/15/90
Received: 02/19/90
Tested: 02/20/90
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 05032, 5th & Kirkman Sts.
S-2-1, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.1	1.9
Toluene	0.1	18.
Ethylbenzene	0.1	not found
Xylenes	0.1	not found

TOTAL PURGEABLE PETROLEUM HYDROCARBONS
(Stoddard Solvent).....10. 1500.

(Gasoline, Diesel #2
Kerosene, Jet Fuel, Mineral Spirits)...10. <10.

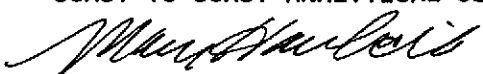
BTX as a Percent of Stoddard Solvnet 1.3

Percent Surrogate Recovery 105.

=====
*(Practical Quantitation Limit)
**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. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7
02-28-90
G0651f10.wr1/#22
MH/jm/re/kc

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Mary Havlicek, Ph.D., President

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San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-0651-10
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
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

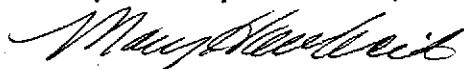
SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-2-1 @ 3', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.005	not found
alpha BHC	0.005	not found
beta BHC	0.005	not found
delta BHC	0.005	not found
gamma BHC	0.005	not found
pp-DDD	0.005	not found
pp-DDE	0.005	not found
pp-DDT	0.005	not found
Dieldrin	0.005	not found
Endosulfan I	0.005	not found
Endosulfan II	0.005	not found
Endosulfan Sulfate	0.005	not found
Endrin	0.005	not found
Endrin Aldehyde	0.005	not found
Heptachlor	0.005	not found
Heptachlor Epoxide	0.005	not found
Chlordane	0.005	not found
Toxaphene	0.005	not found
PCB 1016	0.005	not found
PCB 1221	0.005	not found
PCB 1232	0.005	not found
PCB 1242	0.005	not found
PCB 1248	0.005	not found
PCB 1254	0.005	not found
PCB 1260	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651a10.wr1/#9
MH/dp/dc/ss

Respectfully submitted,



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San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-0651-10
Collected: 02/15/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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


Attn: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Proj. #05032, 5th & Kirkham Sts.,
S-2-1 @ 3', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.005	not found
Acenaphthene	0.005	not found
Anthracene	0.005	0.006
Benzo(a)anthracene	0.005	0.025
Benzo(b)fluoranthene	0.005	not found
Benzo(k)fluoranthene	0.005	not found
Benzo(a)pyrene	0.005	not found
Benzo(ghi)perylene	0.005	not found
Chrysene	0.005	0.028
Dibenzo(a,h)anthracene	0.005	not found
Fluoranthene	0.005	0.075
Fluorene	0.005	not found
Indeno(1,2,3-cd)pyrene	0.005	not found
Methylnaphthalenes	0.005	not found
Naphthalene	0.005	0.010
Phenanthrene	0.005	0.013
Pyrene	0.005	0.068

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651b10.wr1/#10
MH/dp/dc/ss

Respectfully submitted,

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Lab Number: G-0651-10
Collected: 02/15/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

ATTN: Bob Wagner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-2-1 @ 3', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	0.005	not found
2-Chlorophenol	0.005	not found
Creosols	0.005	not found
2,4-Dichlorophenol	0.005	not found
2,4-Dimethylphenol	0.005	not found
2,4-Dinitrophenol	0.02	not found
2-Methyl-4,6-dinitrophenol	0.02	not found
2-Nitrophenol	0.005	not found
4-Nitrophenol	0.005	not found
Pentachlorophenol	0.005	not found
Phenol	0.005	not found
2,4,6-Trichlorophenol	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

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TOTAL PETROLEUM HYDROCARBONS

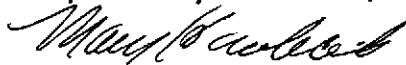
*(As Stoddard Solvent)	1.	110.
(As 30 Wt. Motor Oil)	1.	23.

*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
02/28/90
G0651a10.wr1/#9
MH/dp/dc/ss/kc

Respectfully submitted,


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

Lab Number: G-0651-8
Collected: 02/15/90
Received: 02/19/90
Tested: 02/20/90
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
Suite 310
Sacramento, CA 95827

Job 05032, 5th & Kirkman Sts.,
S-2-2, Soil

REVISED REPORT

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.001	0.004
Toluene	0.001	0.006
Ethylbenzene	0.001	0.003
Xylenes	0.001	0.018

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Stoddard Solvent).....	0.1	6.3
(Gasoline, Diesel #2 Kerosene, Jet Fuel, Mineral Spirits)	ERR	<0.1

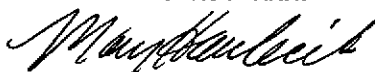
BTX as a Percent of Stoddard Solvent		0.4
Percent Surrogate Recovery		116.

*(Practical Quantitation Limit)

**Soil samples sonicated during extraction.

MSD#7
02-28-90
G0651f8.wr1/#22
MH/ej/re/kc

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San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-0651-8
Collected: 02/15/90 @ 0800
Received: 02/19/90 @ 0915
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-2-2, 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	6010 02/21/90 JMW	3.	<3.	100.
CHROMIUM VI	3060/7196 02/21/90 AEA	0.1	0.3	500.
*LEAD	7420 02/21/90 JMW	1.	760.	1000.
*ZINC	6010 02/21/90 JMW	3.	560.	5000.

**Practical Quantitation Limit

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

02/26/90
G0651-8S.WR1/#18
MH/ke

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

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San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-0651-8
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
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

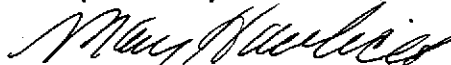
SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-2-2 @ 1', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.005	not found
alpha BHC	0.005	not found
beta BHC	0.005	not found
delta BHC	0.005	not found
gamma BHC	0.005	not found
pp-DDD	0.005	not found
pp-DDE	0.005	not found
pp-DDT	0.005	not found
Dieldrin	0.005	not found
Endosulfan I	0.005	not found
Endosulfan II	0.05	not found
Endosulfan Sulfate	0.005	not found
Endrin	0.005	not found
Endrin Aldehyde	0.005	not found
Heptachlor	0.005	not found
Heptachlor Epoxide	0.005	not found
Chlordane	0.05	not found
Toxaphene	0.05	not found
PCB 1016	0.05	not found
PCB 1221	0.05	not found
PCB 1232	0.05	not found
PCB 1242	0.05	not found
PCB 1248	0.05	not found
PCB 1254	0.05	not found
PCB 1260	0.05	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651a8.wr1/#9
MH/dp/dc/ss

Respectfully submitted,


Mary Havlicek, Ph.D.
President

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

Lab Number: G-0651-8
Collected: 02/15/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

Attn: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

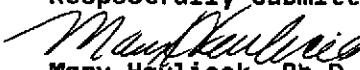
SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-2-2 @ 1', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.005	0.039
Acenaphthene	0.005	not found
Anthracene	0.005	0.076
Benzo(a)anthracene	0.005	0.24
Benzo(b)fluoranthene	0.005	0.10
Benzo(k)fluoranthene	0.005	0.090
Benzo(a)pyrene	0.005	0.23
Benzo(ghi)perylene	0.005	not found
Chrysene	0.005	0.22
Dibenzo(a,h)anthracene	0.005	not found
Fluoranthene	0.005	0.11
Fluorene	0.005	0.027
Indeno(1,2,3-cd)pyrene	0.005	not found
Methylnaphthalenes	0.005	0.070
Naphthalene	0.005	0.035
Phenanthrene	0.005	0.20
Pyrene	0.005	0.36

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/12/90 by EPA Method 3540.

MSD#5
02/27/90
G0651b8.wr1/#9
MH/dp/dc/ss

Respectfully submitted,


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

Lab Number: G-0651-8
Collected: 02/15/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

ATTN: Bob Wagner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

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

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	0.005	not found
2-Chlorophenol	0.005	not found
Creosols	0.005	not found
2,4-Dichlorophenol	0.005	not found
2,4-Dimethylphenol	0.005	not found
2,4-Dinitrophenol	0.02	not found
2-Methyl-4,6-dinitrophenol	0.02	not found
2-Nitrophenol	0.005	not found
4-Nitrophenol	0.005	not found
Pentachlorophenol	0.005	not found
Phenol	0.005	not found
2,4,6-Trichlorophenol	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

=====

TOTAL PETROLEUM HYDROCARBONS

*(As Stoddard Solvent)	1.	15.
(As 30 Wt. Motor Oil)	1.	60.

*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
02/28/90
G0651a8.wr1/#9
MH/dp/dc/ss/kc

Respectfully submitted,



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President

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: G-0651-11
 Collected: 02/15/90
 Received: 02/19/90
 Tested: 02/20/90
 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 05032, 5th & Kirkman Sts.
 S-3-1, Soil

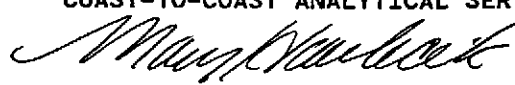
Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.002	1.1
Toluene	0.002	0.6
Ethylbenzene	0.002	0.033
Xylenes	0.002	1.0

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Weathered Gasoline).....	0.2	8.1
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)....	0.2	<0.2

BTX as a Percent of Fuel		33.
Percent Surrogate Recovery		112.

*(Practical Quantitation Limit)
 **Soil samples sonicated during extraction.

MSD#7
 02-26-90
 G0651f11.wr1/#22
 MH/ej/re/kc

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

Lab Number: G-0651-11
Collected: 02/15/90 @ 0945
Received: 02/19/90 @ 0915
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-3-1, 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	6010 02/21/90 JMW	3.	<3.	100.
CHROMIUM VI	3060/7196 02/21/90 AEA	0.1	<0.1	500.
*LEAD	7420 02/21/90 JMW	1.	<1.	1000.
*ZINC	6010 02/21/90 JMW	3.	14.	5000.

**Practical Quantitation Limit

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

02/26/90
G0651-11S.WR1/#18
MH/ke

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES
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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
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

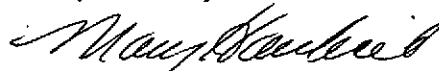
SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-3-1 @ 5', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.005	not found
alpha BHC	0.005	not found
beta BHC	0.005	not found
delta BHC	0.005	not found
gamma BHC	0.005	not found
pp-DDD	0.005	not found
pp-DDE	0.005	not found
pp-DDT	0.005	not found
Dieldrin	0.005	not found
Endosulfan I	0.005	not found
Endosulfan II	0.005	not found
Endosulfan Sulfate	0.005	not found
Endrin	0.005	not found
Endrin Aldehyde	0.005	not found
Heptachlor	0.005	not found
Heptachlor Epoxide	0.005	not found
Chlordane	0.005	not found
Toxaphene	0.005	not found
PCB 1016	0.005	not found
PCB 1221	0.005	not found
PCB 1232	0.005	not found
PCB 1242	0.005	not found
PCB 1248	0.005	not found
PCB 1254	0.005	not found
PCB 1260	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651a11.wr1/#9
MH/dp/dc/ss

Respectfully submitted,



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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

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

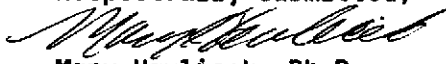
Attn: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-3-1 @ 5', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.005	not found
Acenaphthene	0.005	not found
Anthracene	0.005	0.007
Benzo(a)anthracene	0.005	0.012
Benzo(b)fluoranthene	0.005	not found
Benzo(k)fluoranthene	0.005	not found
Benzo(a)pyrene	0.005	not found
Benzo(ghi)perylene	0.005	not found
Chrysene	0.005	0.013
Dibenzo(a,h)anthracene	0.005	not found
Fluoranthene	0.005	0.021
Fluorene	0.005	0.043
Indeno(1,2,3-cd)pyrene	0.005	not found
Methylnaphthalenes	0.005	not found
Naphthalene	0.005	0.007
Phenanthrene	0.005	0.017
Pyrene	0.005	0.012

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/12/90 by EPA Method 3540.

MSD#5
02/27/90
G0651b11.wr1/#10
MH/dp/dc/ss

Respectfully submitted,

Mary Havlicek, Ph.D.
President

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

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

ATTN: Bob Wagner
 Southern Pacific Environmental Sys.
 9719 Lincoln Village Drive
 Suite 310
 Sacramento, CA 95827

SAMPLE DESCRIPTION:
 Proj.#05032, 5th & Kirkham Sts.,
 S-3-1 @ 5', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	0.005	not found
2-Chlorophenol	0.005	not found
Creosols	0.005	not found
2,4-Dichlorophenol	0.005	not found
2,4-Dimethylphenol	0.005	not found
2,4-Dinitrophenol	0.02	not found
2-Methyl-4,6-dinitrophenol	0.02	not found
2-Nitrophenol	0.005	not found
4-Nitrophenol	0.005	not found
Pentachlorophenol	0.005	not found
Phenol	0.005	not found
2,4,6-Trichlorophenol	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

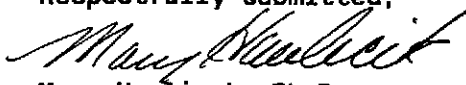
TOTAL PETROLEUM HYDROCARBONS

*(Gasoline)	1.	2.
(As 30 Wt. Motor Oil)	1.	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
 02/28/90
 G0651a11.wr1/#9
 MH/dp/dc/ss/kc

Respectfully submitted,

 Mary Havlicek, Ph.D.
 President

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: G-0651-9
 Collected: 02/15/90
 Received: 02/19/90
 Tested: 02/20/90
 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 05032, 5th & Kirkman Sts.
 S-3-2, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.5	2.1
Toluene	0.5	18.
Ethylbenzene	0.5	11.
Xylenes	0.5	67.

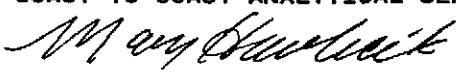
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Weathered Gasoline).....	50.	1100.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)...	50.	<50.

BTX as a Percent of Fuel		7.9
Percent Surrogate Recovery		116.

*(Practical Quantitation Limit)
 **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. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7
 02-26-90
 G0651f9.wr1/#22
 MH/ej/re/kc

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

 Mary Havlicek, Ph.D., President

Central
Coast
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Services

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

Lab Number: G-0651-9
Collected: 02/15/90 @ 0830
Received: 02/19/90 @ 0915
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-3-2, 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	***TTL mg/kg
*CADMIUM	6010 02/21/90 JMW	3.	4.1	100.
CHROMIUM VI	3060/7196 02/21/90 AEA	0.1	0.2	500.
*LEAD	7420 02/21/90 JMW	1.	63.	1000.
*ZINC	6010 02/21/90 JMW	3.	900.	5000.

**Practical Quantitation Limit

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

02/26/90
G0651-9S.WR1/#18
MH/ke

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D., President

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: G-0651-9dup
 Collected: 02/15/90
 Received: 02/19/90
 Tested: 02/20/90
 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 05032, 5th & Kirkman Sts.
 S-3-2, Soil, Duplicate Analysis

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.5	1.9
Toluene	0.5	18.
Ethylbenzene	0.5	11.
Xylenes	0.5	63.

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Weathered Gasoline).....	50.	1100.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)...	50.	<50.

BTX as a Percent of Fuel		7.5
Percent Surrogate Recovery		115.

*(Practical Quantitation Limit)
 **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. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7
 02-26-90
 G0651f9d.wr1/#22
 MH/ej/re/kc

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek
 Mary Havlicek, Ph.D., President

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-0651-9
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
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827


SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-3-2 @ 1', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.005	not found
alpha BHC	0.005	not found
beta BHC	0.005	not found
delta BHC	0.005	not found
gamma BHC	0.005	not found
pp-DDD	0.005	not found
pp-DDE	0.005	not found
pp-DDT	0.005	not found
Dieldrin	0.005	not found
Endosulfan I	0.005	not found
Endosulfan II	0.05	not found
Endosulfan Sulfate	0.005	not found
Endrin	0.005	not found
Endrin Aldehyde	0.005	not found
Heptachlor	0.005	not found
Heptachlor Epoxide	0.005	not found
Chlordane	0.05	not found
Toxaphene	0.05	not found
PCB 1016	0.05	not found
PCB 1221	0.05	not found
PCB 1232	0.05	not found
PCB 1242	0.05	not found
PCB 1248	0.05	not found
PCB 1254	0.05	not found
PCB 1260	0.05	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651a9.wr1/#9
MH/dp/dc/ss

Respectfully submitted,



Mary Havlicek, Ph.D.
President

Central
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Services

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

Lab Number: G-0651-9
Collected: 02/15/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

Attn: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:
Proj.#05032, 5th & Kirkham Sts.,
S-3-2 @ 1', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.005	not found
Acenaphthene	0.005	not found
Anthracene	0.005	0.008
Benzo(a)anthracene	0.005	not found
Benzo(b)fluoranthene	0.005	not found
Benzo(k)fluoranthene	0.005	not found
Benzo(a)pyrene	0.005	not found
Benzo(ghi)perylene	0.005	not found
Chrysene	0.005	not found
Dibenzo(a,h)anthracene	0.005	not found
Fluoranthene	0.005	0.031
Fluorene	0.005	0.017
Indeno(1,2,3-cd)pyrene	0.005	not found
Methylnaphthalenes	0.005	10.
Naphthalene	0.005	6.4
Phenanthrene	0.005	0.087
Pyrene	0.005	0.058

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651b9.wr1/#9
MH/dp/dc/ss

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

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-0651-9
 Collected: 02/15/90
 Received: 02/19/90
 Tested: 02/22/90
 Collected by: P. Curl

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

ATTN: Bob Wagner
 Southern Pacific Environmental Sys.
 9719 Lincoln Village Drive
 Suite 310
 Sacramento, CA 95827

SAMPLE DESCRIPTION:
 Proj.#05032, 5th & Kirkham Sts.,
 S-3-2 @ 1', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	0.005	not found
2-Chlorophenol	0.005	not found
Creosols	0.005	not found
2,4-Dichlorophenol	0.005	not found
2,4-Dimethylphenol	0.005	not found
2,4-Dinitrophenol	0.02	not found
2-Methyl-4,6-dinitrophenol	0.02	not found
2-Nitrophenol	0.005	not found
4-Nitrophenol	0.005	not found
Pentachlorophenol	0.005	not found
Phenol	0.005	not found
2,4,6-Trichlorophenol	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

=====


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.

MSD#5
 02/28/90
 G0651a9.wr1/#9
 MH/dp/dc/ss/kc

Respectfully submitted,

 Mary Havlicek, Ph.D.
 President

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: G-0651-6
Collected: 02/14/90
Received: 02/19/90
Tested: 02/20/90
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 05032, 5th & Kirkman Sts.
S-4-1, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.0005	0.0017
Toluene	0.0005	0.0023
Ethylbenzene	0.0005	not found
Xylenes	0.0005	0.0043

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Gasoline).....	0.1	<0.1
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)....	0.1	<0.1

BTX as a Percent of Fuel not applicable
Percent Surrogate Recovery 115.

*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#7
02-26-90
G0651f6.wr1/#22
MH/ej/re/kc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

Central
Coast
Analytical
Services

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

Lab Number: G-0651-6
Collected: 02/14/90 @ 1600
Received: 02/19/90 @ 0915
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		TOTAL LEVEL FOUND mg/kg	DUPLICATE mg/kg	SPIKED AT mg/kg	LEVEL FOUND W/SPIKE mg/kg	% SPIKE RECOVERY Percent
		DETECTION LIMIT mg/kg(PQL)**						
*CADMIUM	6010 02/21/90 JMW	3.		<3.	<3.	36.	32.	89.
***CHROMIUM VI	7196 02/21/90 AEA	0.1		<0.1	<0.1	1.	<0.1	<1.
*LEAD	7420 02/21/90 JMW	1.		54.	66.	36.	90.	83.
*ZINC	6010 02/21/90 JMW	3.		120.	120.	36.	150.	83.

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

**Practical Quantitation Limit

02/26/90
G0651-6S.WR1/#18
MH/ke

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D., President

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-0651-6
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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


ATTN: Bob Wagner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

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

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.005	not found
alpha BHC	0.005	not found
beta BHC	0.005	not found
delta BHC	0.005	not found
gamma BHC	0.005	not found
pp-DDD	0.005	not found
pp-DDE	0.005	not found
pp-DDT	0.005	not found
Dieldrin	0.005	not found
Endosulfan I	0.005	not found
Endosulfan II	0.005	not found
Endosulfan Sulfate	0.005	not found
Endrin	0.005	not found
Endrin Aldehyde	0.005	not found
Heptachlor	0.005	not found
Heptachlor Epoxide	0.005	not found
Chlordane	0.005	not found
Toxaphene	0.005	not found
PCB 1016	0.005	not found
PCB 1221	0.005	not found
PCB 1232	0.005	not found
PCB 1242	0.005	not found
PCB 1248	0.005	not found
PCB 1254	0.005	not found
PCB 1260	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651a6.wr1/#9
MH/dp/dc/co

Respectfully submitted,

Mary Havlicek, Ph.D.
President

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

Lab Number: G-0651-6
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

Attn: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:

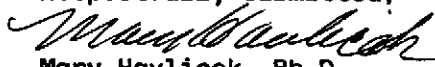
Proj.#05032, 5th & Kirkham Sts.,
S-4-1 @ 5', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.005	not found
Acenaphthene	0.005	not found
Anthracene	0.005	0.027
Benzo(a)anthracene	0.005	0.95
Benzo(b)fluoranthene	0.005	0.80
Benzo(k)fluoranthene	0.005	0.80
Benzo(a)pyrene	0.005	1.8
Benzo(ghi)perylene	0.005	not found
Chrysene	0.005	1.3
Dibenzo(a,h)anthracene	0.005	0.33
Fluoranthene	0.005	0.49
Fluorene	0.005	not found
Indeno(1,2,3-cd)pyrene	0.005	1.4
Methylnaphthalenes	0.005	0.12
Naphthalene	0.005	0.044
Phenanthrene	0.005	0.17
Pyrene	0.005	0.72

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651b6.wr1/#9
MH/dp/dc/ss

Respectfully submitted,


Mary Havlicek, Ph.D.
President

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-0651-6
 Collected: 02/14/90
 Received: 02/19/90
 Tested: 02/22/90
 Collected by: P. Curl

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

ATTN: Bob Wagner
 Southern Pacific Environmental Sys.
 9719 Lincoln Village Drive
 Suite 310
 Sacramento, CA 95827

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

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	0.005	not found
2-Chlorophenol	0.005	not found
Creosols	0.005	not found
2,4-Dichlorophenol	0.005	not found
2,4-Dimethylphenol	0.005	not found
2,4-Dinitrophenol	0.02	not found
2-Methyl-4,6-dinitrophenol	0.02	not found
2-Nitrophenol	0.005	not found
4-Nitrophenol	0.005	not found
Pentachlorophenol	0.005	not found
Phenol	0.005	not found
2,4,6-Trichlorophenol	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

=====

TOTAL PETROLEUM HYDROCARBONS

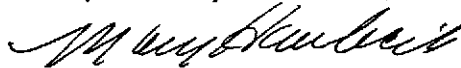
*(As Gasoline)	1.	<1.
(As 30 Wt. Motor Oil)	1.	30.

*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
 02/28/90
 G0651a6.wr1/#9
 MH/dp/dc/co/kc

Respectfully submitted,


 Mary Havlicek, Ph.D.
 President

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: G-0651-7
 Collected: 02/14/90
 Received: 02/19/90
 Tested: 02/20/90
 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 05032, 5th & Kirkman Sts.
 S-4-2, Soil

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration in ppm
Benzene	0.5	1.3
Toluene	0.5	17.
Ethylbenzene	0.5	20.
Xylenes	0.5	110.

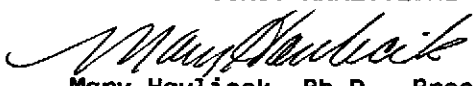
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Weathered Gasoline).....	50.	1600.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)...	50.	<50.

BTX as a Percent of Fuel		8.0
Percent Surrogate Recovery		115.

*(Practical Quantitation Limit)
 **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. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#7
 02-26-90
 G0651f7.wr1/#22
 MH/jm/re/kc

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

 Mary Havlicek, Ph.D., President

Central
Coast
Analytical
Services

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

Lab Number: G-0651-7
Collected: 02/14/90 @ 1620
Received: 02/19/90 @ 0915
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-4-2, 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	***TTL mg/kg
*CADMIUM	6010 02/21/90 JMW	3.	<3.	100.
CHROMIUM VI	3060/7196 02/21/90 AEA	0.1	<0.1	500.
*LEAD	7420 02/21/90 JMW	1.	2.	1000.
*ZINC	6010 02/21/90 JMW	3.	19.	5000.

**Practical Quantitation Limit

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

02/26/90
G0651-7S.WR1/#18
MH/ke

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D., President

Coast-to-
Coast
Analytical
Services

Coast-to-Coast
Analytical Services
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San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-0651-7
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

ATTN: Bob Wagner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827


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

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.005	not found
alpha BHC	0.005	not found
beta BHC	0.005	not found
delta BHC	0.005	not found
gamma BHC	0.005	not found
pp-DDD	0.005	not found
pp-DDE	0.005	not found
pp-DDT	0.005	not found
Dieldrin	0.005	not found
Endosulfan I	0.005	not found
Endosulfan II	0.005	not found
Endosulfan Sulfate	0.005	not found
Endrin	0.005	not found
Endrin Aldehyde	0.005	not found
Heptachlor	0.005	not found
Heptachlor Epoxide	0.005	not found
Chlordane	0.005	not found
Toxaphene	0.005	not found
PCB 1016	0.005	not found
PCB 1221	0.005	not found
PCB 1232	0.005	not found
PCB 1242	0.005	not found
PCB 1248	0.005	not found
PCB 1254	0.005	not found
PCB 1260	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/27/90
G0651a7.wr1/#9
MH/dp/dc/ss

Respectfully submitted,


Mary Havlicek, Ph.D.
President

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(805) 543-2553

Lab Number: G-0651-7
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

Attn: Bob Warner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

SAMPLE DESCRIPTION:

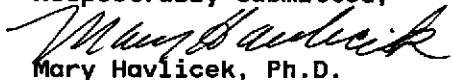
Proj.#05032, 5th & Kirkham Sts.,
S-4-2 @ 1', Soil

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.005	not found
Acenaphthene	0.005	0.11
Anthracene	0.005	0.11
Benzo(a)anthracene	0.005	0.13
Benzo(b)fluoranthene	0.005	0.035
Benzo(k)fluoranthene	0.005	0.035
Benzo(a)pyrene	0.005	0.069
Benzo(ghi)perylene	0.005	not found
Chrysene	0.005	0.12
Dibenzo(a,h)anthracene	0.005	not found
Fluoranthene	0.005	0.18
Fluorene	0.005	0.13
Indeno(1,2,3-cd)pyrene	0.005	not found
Methylnaphthalenes	0.005	14.
Naphthalene	0.005	6.7
Phenanthrene	0.005	0.39
Pyrene	0.005	0.29

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/12/90 by EPA Method 3540.

MSD#5
02/27/90
G0651b7.wr1/#9
MH/dp/dc/ss

Respectfully submitted,


Mary Havlicek, Ph.D.
President

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Analytical Services

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

Lab Number: G-0651-7
Collected: 02/14/90
Received: 02/19/90
Tested: 02/22/90
Collected by: P. Curl

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

ATTN: Bob Wagner
Southern Pacific Environmental Sys.
9719 Lincoln Village Drive
Suite 310
Sacramento, CA 95827

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

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
4-Chloro-3-methylphenol	0.005	not found
2-Chlorophenol	0.005	not found
Creosols	0.005	not found
2,4-Dichlorophenol	0.005	not found
2,4-Dimethylphenol	0.005	not found
2,4-Dinitrophenol	0.02	not found
2-Methyl-4,6-dinitrophenol	0.02	not found
2-Nitrophenol	0.005	not found
4-Nitrophenol	0.005	not found
Pentachlorophenol	0.005	not found
Phenol	0.005	not found
2,4,6-Trichlorophenol	0.005	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

=====

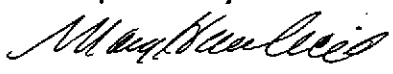
TOTAL PETROLEUM HYDROCARBONS

*(Gasoline)	1.	700.
(As 30 Wt. Motor Oil)	1.	160.

*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
02/28/90
G0651a7.wr1/#9
MH/dp/dc/ss/kc

Respectfully submitted,

Mary Havlicek, Ph.D.
President

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-0651-1
 Collected: 02/14/90
 Received: 02/19/90
 Tested: 02/22/90
 Collected by: P. Curl
 Extracted on: 02/21/90

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

ATTN: Bob Warner
 Southern Pacific Environmental Sys.
 9719 Lincoln Village Drive
 Suite 310
 Sacramento, CA 95827

SAMPLE DESCRIPTION:
 Proj.#05032, 5th & Kirkham Sts.,
 W-1-1 @ 10', Water

Component Determined	Detection Limit in ppm (PQL)**	Concentration in ppm
Total Petroleum Hydrocarbons (30 Wt. Motor Oil)	1.	3.
Total Petroleum Hydrocarbons *(Gasoline)	1.	54.

*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)

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
 02/28/90
 G0651tp1.wr1/#9
 MH/dp/dc/co/kc

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek
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(805) 543-2553

Lab Number: G-0651-1
Collected: 02/14/90
Received: 02/19/90
Tested: 02/20/90
Collected by: P. 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:
Proj.#05032, 5th & Kirkham Streets,
W-1-1, Water

Compound Analyzed	Detection Limit in ppb (PQL)*	Concentration in ppb
Benzene	100.	1500.
Toluene	100.	1200.
Ethylbenzene	100.	1700.
Xylenes	100.	9800.

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Gasoline).....	100000.	700000.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)..	100000.	<100000.

BTX as a Percent of Fuel	20.
Percent Surrogate Recovery	118.

*(Practical Quantitation Limit)
**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. Refer to instrument blank for undiluted Practical Quantitation Limits.

MSD#6
02/26/90
G0651f1.wr1/#21
MH/jl/dc/co

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

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

Lab Number: G-0651-1dup
Collected: 02/14/90
Received: 02/19/90
Tested: 02/20/90
Collected by: P. 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:
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.

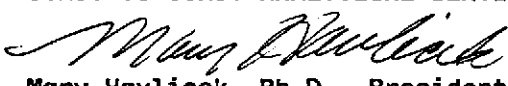
TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Weathered Gasoline).....	2000.	50000.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)...	2000.	<2000.

BTX as a Percent of Fuel		27.
Percent Surrogate Recovery		95.

*(Practical Quantitation Limit)
**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. Refer
to instrument blank for undiluted Practical Quantitation Limits.

MSD#6
02/26/90
G0651f1d.wr1/#21
MH/ec/dc/co

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D., President

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San Luis Obispo, California 93401
(805) 543-2553

Lab Number: G-0651-1
Collected: 02/14/90 @ 1515
Received: 02/19/90 @ 0915
Tested: As Listed
Collected by: Patricia Curl

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

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

REPORT

CONSTITUENT	EPA METHOD/DATE/ANALYST	DETECTION LIMIT (mg/l)(PQL)*	LEVEL FOUND mg/l	LEVEL FOUND meq/l
**CALCIUM	200.7 02/23/90 RJ	10.	26.	1.3
**MAGNESIUM	200.7 02/23/90 RJ	10.	38.	3.0
**SODIUM	200.7 02/23/90 RJ	10.	69.	3.0
**POTASSIUM	200.7 02/23/90 RJ	30.	20.	0.6
SUM OF CATIONS				8.0
ALKALINITY AS CaCO3	310.1 02/20/90 RPB	1.	620.	12.4
BICARBONATE AS HCO3	310.1 02/20/90 RPB	1.	760.	12.4
CARBONATE AS CaCO3	310.1 02/20/90 RPB	1.	<1.	<0.1
HYDROXIDE AS OH	310.1 02/20/90 RPB	1.	<1.	<0.1
CHLORIDE	300.0 02/22/90 CS	1.	44.	1.2
SULFATE	300.0 02/22/90 CS	1.	16.	0.3
NITROGEN, NITRATE	300.0 02/22/90 CS	0.1	<0.1	<0.1
NITRATE	300.0 02/22/90 CS	0.4	<0.4	-----
FLUORIDE	300.0 02/22/90 CS	0.1	0.9	0.1
**IRON	200.7 02/23/90 RJ	0.05	0.17	-----
**MANGANESE	200.7 02/23/90 RJ	0.06	<0.06	-----
**COPPER	200.7 02/23/90 RJ	0.2	<0.2	-----
**ZINC	200.7 02/23/90 RJ	0.2	<0.2	-----
FOAMING AGENTS	425.1 02/22/90 RPB	0.02	0.13	-----
SUM OF ANIONS				14.0
pH (units)	150.1 02/20/90 RPB	0.1	6.4	-----
CONDUCTIVITY (micromhos)	120.1 02/20/90 RPB	1.	1200.	-----
DISSOLVED SOLIDS, TOTAL	160.1 02/21/90 DEK	5.	770.	-----
HARDNESS	130.2 02/21/90 DEK	0.1	480.	-----

*Practical Quantitation Limit

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

02/26/90
G0651-1S.WR1/#17
MH/ke/bc

Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Mary Hávlicek
Mary Hávlicek, Ph.D., President

Coast-to-Coast
Analytical
Services

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

Lab Number: G-0651-2
Collected: 02/15/90
Received: 02/19/90
Tested: 02/20/90
Collected by: P. 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:
Proj.#05032, 5th & Kirkham Streets,
W-2-1, Water

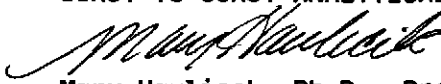
Compound Analyzed	Detection Limit in ppb (PQL)*	Concentration in ppb
Benzene	0.1	0.3
Toluene	0.5	1.6
Ethylbenzene	0.5	0.3
Xylenes	0.5	1.9

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Weathered Gasoline).....	10.	50.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)...	10.	<10.

BTX as a Percent of Fuel		7.5
Percent Surrogate Recovery		111.

*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#6
02/26/90
G0651f2.wr1/#21
MH/jl/dc/co

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D., President

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

Lab Number: B-02220
Collected:
Received:
Tested: 02/22/90
Collected by:
Extracted on:

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

CCAS

SAMPLE DESCRIPTION:

Instrument Blank

Component Determined	Detection Limit in ppb (PQL)*	Concentration in ppb
Total Petroleum Hydrocarbons (Motor Oil)	50.	<50.
Total Petroleum Hydrocarbons (Stoddard Solvent)	50.	<50.

*(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
02/28/90
B0221tp.wr1/#10
MH/dp/dc/ss

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

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Analytical
Services

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

Lab Number: QL-02210
Collected: 02/21/90
Received: 02/21/90
Tested: 02/22/90
Collected by:
Extracted on: 02/21/90

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

CCAS

SAMPLE DESCRIPTION:


EPA Method 3510 Reagent Blank

Component Determined	Detection Limit in ppb (PQL)*	Concentration in ppb
Total Petroleum Hydrocarbons (Motor Oil)	50.	<50.
Total Petroleum Hydrocarbons (Stoddard Solvent)	50.	<50.

*(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
02/28/90
QL0221tp.wr1/#10
MH/dp/dc/ss

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

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

Lab Number: B-02200
Collected:
Received:
Tested: 02/20/90
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 in ppm (PQL)*	Concentration in ppm
Benzene	0.0002	not found
Toluene	0.0005	not found
Ethylbenzene	0.0005	not found
Xylenes	0.0005	not found

TOTAL PURGEABLE PETROLEUM HYDROCARBONS
(Gasoline).....0.05 <0.05

(Diesel #2, Stoddard Solvent,
Kerosene, Jet Fuel, Mineral Spirits)....0.05 <0.05

BTX as a Percent of Fuel not applicable
Percent Surrogate Recovery 108.

=====
*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#6
02/26/90
B-02200f.wr1/#21
MH/jl/dc/co

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

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: QS-02200
 Collected:
 Received:
 Tested: 02/20/90
 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 0.7 ppm

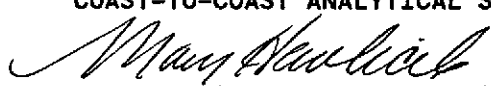
Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration w/spike in ppm	Percent Recovery
Benzene	0.001	0.037	123.
Toluene	0.001	0.10	88.
Ethylbenzene	0.001	0.025	132.
Xylenes	0.001	0.12	133.

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Gasoline).....	0.1	0.9	124.
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)....	0.1	<0.1	----

BTX as a Percent of Fuel		30.	
Percent Surrogate Recovery		116.	

*(Practical Quantitation Limit)
 **Soil samples sonicated during extraction.

MSD#7
 02-26-90
 QS02200f.wr1/#22
 MH/ej/re/kc

Respectfully submitted,
 COAST-TO-COAST ANALYTICAL SERVICES

 Mary Havlicek, Ph.D., President

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: S-02200-2
Collected:
Received:
Tested: 02/20/90
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 (#022090-9) BTE & EDC
@ 0.020 ppm, Xylenes @ 0.060 ppm

Compound Analyzed	Detection Limit in ppm (PQL)*	Concentration w/spike in ppm	Percent Recovery
Benzene	0.001	0.027	135.
Toluene	0.001	0.021	105.
Ethylbenzene	0.001	0.023	115.
Xylenes	0.001	0.070	117.

TOTAL PURGEABLE PETROLEUM HYDROCARBONS
(Gasoline).....0.1 not applicable

(Diesel #2, Stoddard Solvent,
Kerosene, Jet Fuel, Mineral Spirits)....0.1 not applicable

BTX as a Percent of Fuel not applicable

Percent Surrogate Recovery 118.

*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#7
02-26-90
S02200f2.wr1/#22
MH/ej/re/kc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

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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: 02/20/90
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 in ppm (PQL)*	Concentration in ppm
Benzene	0.0001	not found
Toluene	0.0005	not found
Ethylbenzene	0.0005	not found
Xylenes	0.0005	not found

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Gasoline).....	0.05	<0.05
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)....	0.05	<0.05

BTX as a Percent of Fuel not applicable

Percent Surrogate Recovery 126.

*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#7
02-26-90
B02200f2.wr1/#22
MH/jm/re/kc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES
Mary Havlicek
Mary Havlicek, Ph.D., President

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: 02/20/90
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 in ppm (PQL)*	Concentration in ppm
Benzene	0.0001	not found
Toluene	0.0005	not found
Ethylbenzene	0.0005	not found
Xylenes	0.0005	not found

TOTAL PURGEABLE PETROLEUM HYDROCARBONS (Gasoline).....	0.05	<0.05
(Diesel #2, Stoddard Solvent, Kerosene, Jet Fuel, Mineral Spirits)....	0.05	<0.05

BTX as a Percent of Fuel not applicable

Percent Surrogate Recovery 119.

*(Practical Quantitation Limit)
**Soil samples sonicated during extraction.

MSD#7
02-26-90
B02200f.wr1/#22
MH/ej/re/kc

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES

Mary Havlicek
Mary Havlicek, Ph.D., President

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: B-02220
Collected:
Received:
Tested: 02/22/90
Collected by:

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

CCAS

SAMPLE DESCRIPTION:

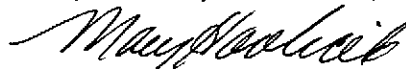
Instrument Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.001	not found
alpha BHC	0.001	not found
beta BHC	0.001	not found
delta BHC	0.001	not found
gamma BHC	0.001	not found
pp-DDD	0.001	not found
pp-DDE	0.001	not found
pp-DDT	0.001	not found
Dieldrin	0.001	not found
Endosulfan I	0.001	not found
Endosulfan II	0.01	not found
Endosulfan Sulfate	0.001	not found
Endrin	0.001	not found
Endrin Aldehyde	0.001	not found
Heptachlor	0.001	not found
Heptachlor Epoxide	0.001	not found
Chlordane	0.01	not found
Toxaphene	0.01	not found
PCB 1016	0.01	not found
PCB 1221	0.01	not found
PCB 1232	0.01	not found
PCB 1242	0.01	not found
PCB 1248	0.01	not found
PCB 1254	0.01	not found
PCB 1260	0.01	not found

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

MSD#5
02/28/90
B02220a.wr1/#10
MH/dp/dc/co

Respectfully submitted,



Mary Havlicek, Ph.D.
President

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

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

CCAS

SAMPLE DESCRIPTION:

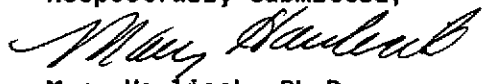
EPA Method 3540 Reagent Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Aldrin	0.05	not found
alpha BHC	0.05	not found
beta BHC	0.05	not found
delta BHC	0.05	not found
gamma BHC	0.05	not found
pp-DDD	0.05	not found
pp-DDE	0.05	not found
pp-DDT	0.05	not found
Dieldrin	0.05	not found
Endosulfan I	0.05	not found
Endosulfan II	0.5	not found
Endosulfan Sulfate	0.05	not found
Endrin	0.05	not found
Endrin Aldehyde	0.05	not found
Heptachlor	0.05	not found
Heptachlor Epoxide	0.05	not found
Chlordane	0.5	not found
Toxaphene	0.5	not found
PCB 1016	0.5	not found
PCB 1221	0.5	not found
PCB 1232	0.5	not found
PCB 1242	0.5	not found
PCB 1248	0.5	not found
PCB 1254	0.5	not found
PCB 1260	0.5	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

MSD#5
02/28/90
QX02210a.wr1/#10
MH/dp/dc/ss

Respectfully submitted,



Mary Havlicek, Ph.D.
President

Central
Coast
Analytical
Services

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

Lab Number: B-02220
Collected:
Received:
Tested: 02/22/90
Collected by:

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

CCAS

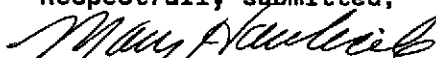
SAMPLE DESCRIPTION:

Instrument Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.001	not found
Acenaphthene	0.001	not found
Anthracene	0.001	not found
Benzo(a)anthracene	0.001	not found
Benzo(b)fluoranthene	0.001	not found
Benzo(k)fluoranthene	0.001	not found
Benzo(a)pyrene	0.001	not found
Benzo(ghi)perylene	0.001	not found
Chrysene	0.001	not found
Dibenzo(a,h)anthracene	0.001	not found
Fluoranthene	0.001	not found
Fluorene	0.001	not found
Indeno(1,2,3-cd)pyrene	0.001	not found
Methylnaphthalenes	0.001	not found
Naphthalene	0.001	not found
Phenanthrene	0.001	not found
Pyrene	0.001	not found

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

MSD#5
02/27/90
B02220b.wr1/#10
MH/dp/dc/co

Respectfully submitted,

Mary Havlicek, Ph.D.
President

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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:

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

CCAS

SAMPLE DESCRIPTION:

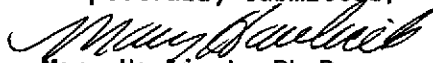
EPA Method 3540 Reagent Blank

Compound Analyzed	Detection Limit (mg/Kg) (Practical Quantitation Limit)	Concentration (mg/Kg)
Acenaphthalene	0.05	not found
Acenaphthene	0.05	not found
Anthracene	0.05	not found
Benzo(a)anthracene	0.05	not found
Benzo(b)fluoranthene	0.05	not found
Benzo(k)fluoranthene	0.05	not found
Benzo(a)pyrene	0.05	not found
Benzo(ghi)perylene	0.05	not found
Chrysene	0.05	not found
Dibenzo(a,h)anthracene	0.05	not found
Fluoranthene	0.05	not found
Fluorene	0.05	not found
Indeno(1,2,3-cd)pyrene	0.05	not found
Methylnaphthalenes	0.05	not found
Naphthalene	0.05	not found
Phenanthrene	0.05	not found
Pyrene	0.05	not found

Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/12/90 by EPA Method 3540.

MSD#5
02/27/90
QX02210b.wr1/#10
MH/dp/dc/ss

Respectfully submitted,


Mary Havlicek, Ph.D.
President

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Analytical
Services

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	0.05	not found
2-Chlorophenol	0.05	not found
Creosols	0.05	not found
2,4-Dichlorophenol	0.05	not found
2,4-Dimethylphenol	0.05	not found
2,4-Dinitrophenol	0.2	not found
2-Methyl-4,6-dinitrophenol	0.2	not found
2-Nitrophenol	0.05	not found
4-Nitrophenol	0.05	not found
Pentachlorophenol	0.05	not found
Phenol	0.05	not found
2,4,6-Trichlorophenol	0.05	not found

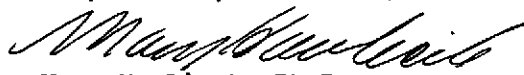
Compounds reported as "not found" would have been reported if present at or above the listed detection limit. Sample was extracted on 02/21/90 by EPA Method 3540.

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
02/28/90
QX02210a.wr1/#10
MH/dp/dc/ss

Respectfully submitted,

Mary Havlicek, Ph.D.
President

Central
Coast
Analytical
Services

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

Lab Number: QS-02140
Collected:
Received:
Tested: 02/22/90
Collected by:

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

CCAS

SAMPLE DESCRIPTION:


ROASTED SOIL SPIKE, Selectively Spiked
to 2000 ug/Kg

Compound Analyzed	Detection Limit (ug/Kg)(PQL)*	Concentration w/spike (ug/Kg)	Percent Recovery
4-Chloro-3-methylphenol	1.	920.	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-dinitrophenol	5.	not spiked	----
2-Nitrophenol	1.	not spiked	----
4-Nitrophenol	1.	not spiked	----
Pentachlorophenol	1.	not spiked	----
Phenol	1.	960.	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 02-14-90.

MSD#5
02/28/90
QS02140a.wr1/10
MH/dp/dc/co

Respectfully submitted,

Mary Havlicek, Ph.D.
President

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: B-02220
Collected:
Received:
Tested: 02/22/90
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	0.001	not found
2-Chlorophenol	0.001	not found
Creosols	0.001	not found
2,4-Dichlorophenol	0.001	not found
2,4-Dimethylphenol	0.001	not found
2,4-Dinitrophenol	0.005	not found
2-Methyl-4,6-dinitrophenol	0.005	not found
2-Nitrophenol	0.001	not found
4-Nitrophenol	0.001	not found
Pentachlorophenol	0.001	not found
Phenol	0.001	not found
2,4,6-Trichlorophenol	0.001	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.

MSD#5
02/28/90
B02220a.wr1/#10
MH/dp/dc/co

Respectfully submitted,


Mary Havlicek, Ph.D.
President

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: QS-02140
Collected:
Received:
Tested: 02/22/90
Collected by:

CCAS

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

SAMPLE DESCRIPTION:

ROASTED SOIL SPIKE, Selectively Spiked
to 2000 ug/Kg

Compound Analyzed	Detection Limit (ug/Kg)(PQL)*	Concentration w/spike (ug/Kg)	Percent Recovery
Acenaphthalene	1.	not spiked	----
Acenaphthene	1.	1200.	62.
Anthracene	1.	not spiked	----
Benzidine	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)methane	1.	not spiked	----
Bis(2-chloroethyl)ether	2.	not spiked	----
Bis(2-chloroisopropyl)ether	2.	not spiked	----
Bis(2-ethylhexyl)phthalate	5.	not spiked	----
4-Bromophenylphenylether	2.	not spiked	----
Butylbenzylphthalate	5.	not spiked	----
2-Chloronaphthalene	1.	not spiked	----
4-Chlorophenylphenylether	2.	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.	750.	38.
3,3-Dichlorobenzidine	5.	not spiked	----
Diethylphthalate	1.	not spiked	----
Dimethylphthalate	1.	not spiked	----
2,4-Dinitrotoluene	2.	910.	46.
2,6-Dinitrotoluene	5.	not spiked	----
Di-n-octylphthalate	1.	not spiked	----
1,2-Diphenylhydrazine	10.	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	2.	not spiked	----
N-Nitrosodimethylamine	20.	not spiked	----
N-Nitrosodiphenylamine	2.	not spiked	----
N-Nitroso di-n-propylamine	1.	1200.	58.
Phenanthrene	1.	not spiked	----
Pyrene	1.	1700.	86.
Trichlorobenzene	2.	1000.	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 02/14/90.

MSD#5/02-28-90
QS02140b.wr1/10
MH/dp/dc/co

Respectfully submitted,



Mary Havlicek, Ph.D., President

CLIENT NAME SP Environmental Systems (SPEC)		CLIENT JOB NUMBER 05032		ANALYSIS REQUESTED Cd, Cr ^(VI) , Pb, Zn (AA) PCB, PCP, PNA, CREOSOTE (8270) TPH G/D (5030/3550) OIL & GREASE (3550 + 503E) BTEX (8020) TPH-D (3550)		FIELD CONDITIONS: 3rd. \square #1 (10 3/4" dia) #4 (1500) \square #3 (1500) #2 (600) \square #2 (600)			
ADDRESS 7719 LINCOLN VILLAGE SUITE 310 SACRAMENTO CA 95827		DESTINATION LABORATORY <input type="checkbox"/> AETG 3240 FITZGERALD RD. RANCHO GORRONA CA 95670		OTHER CENTRAL COAST ANALYTICAL SERVICES		COMPOSITE: SPECIAL INSTRUCTIONS:			
PROJECT NAME STAR & KIRKHAM STS.		PHONE 916 369-8971		TURN AROUND TIME HOURS 24 HOURS 48 WEEK 1 WEEKS 2		NOTE / FIELD READINGS PID-100ppm PID-0 PID-200ppm			
PROJECT MANAGER BOB WARNER		JOB DESCRIPTION 4 TANKS - REMOVAL		SUSPECTED CONSTITUENTS USED OIL		RECEIVED BY Patricia Lind 2/15/90 4:00pm			
SAMPLED BY P. W. R. L.		SITE LOCATION 330 Cypress St. OAKLAND		DATE / TIME 2/14/90 1445 2/14 1520 2/14 1515 2/14 1600 2/14 1620 2/15 0720 2/15 0800 2/15 0830 2/15 0930 2/15 0930 2/15 0945		DATE / TIME 2/15/90 4:00pm			
METHOD driven driven bailer driven grab grab grab grab grab bailer digger		DEPTH 8' 8' 10' 5' 1' 1' 1' 1' 3' 4' 5'		IDENTIFICATION S-1-1 S-1-2 W-1-1 S-4-1 S-4-2 S-1-3 S-2-2 S-3-2 S-2-1 W-2-1 S-3-1		TYPE SOIL SOIL WATER SOIL SOIL SOIL SOIL SOIL water SOIL		REMARKS BESS TUBE BESS TUBE 2 VOA BESS TUBE BESS TUBE BESS TUBE BESS TUBE BESS TUBE BESS TUBE 2 VOA BESS TUBE	
CONTAINER NO. 1 1 3 1 1 1 1 1 1 3 1		DATE / TIME 2/15/90 4:00pm		DATE / TIME 2/15/90 4:00pm		LAB TO SEND RESULTS TO: ORIGINAL COPY			
SHIPPED VIA <input type="checkbox"/> FED X <input type="checkbox"/> UPS <input type="checkbox"/> OTHER		AIRBILL #		PRESERVATIVES: (1) HCL (2) HNO3 (3) - COLD (4)		LAB TO SEND RESULTS TO: ORIGINAL COPY			

ATTACHMENT E

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD00062829800002		Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address S.P. TRANSPORTATION COMPANY 1 Market Plaza, San Francisco, CA 94105					A. State Manifest Document Number 90007840		
4. Generator's Phone (415) 641-2838 ATTN: Mr. Mike Grant					B. State Generator's ID		
5. Transporter 1 Company Name H & H Ship Service Company		d. US EPA ID Number CAD0004771168		C. State Transporter's ID 103568		D. Transporter's Phone (415) 643-4835	
7. Transporter 2 Company Name		e. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107		10. US EPA ID Number CAD0004771168		G. State Facility's ID CAD00047711681		H. Facility's Phone (415) 543-4835	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit	15. Waste No.
a. HAZARDOUS WASTE LIQUID, N.O.S. ORM-E NA 9189				No. Type		Wt/Vol	State 241
							EPA/Other
b.							State
							EPA/Other
c.							State
							EPA/Other
d.							State
							EPA/Other
J. Additional Descriptions for Materials Listed Above FUEL OIL AND WATER					K. Handling Codes for Wastes Listed Above		
					a.	b.	
					01		
					c.	d.	
15. Special Handling Instructions and Additional Information JOB SITE: SOUTHERN PACIFIC 330 Cypress Street Oakland, CA APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name PATRICIA CURL				Signature <i>Patricia Curl</i>		Month Day Year 10 12 11 13 19 10	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name RAYMOND L. JIMENEZ				Signature <i>Raymond Jimenez</i>		Month Day Year 10 12 11 13 19 10	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name				Signature		Month Day Year	

TRANSPORTER FACILITY

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
 To: P.O. Box 400, Sacramento, CA 95812-0400

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CADPPP6281980PPPP	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address S.P. TRANSPORTATION COMPANY 1 Market Plaza, San Francisco, CA 94105 Generator's Phone (415) 541-2838 ATTN: Mr. Mike Grant				A. State Manifest Document Number 90007839		
4. Transporter 1 Company Name H & H Ship Service Company				B. State Generator's ID		
5. Transporter 1 Company Name H & H Ship Service Company		8. US EPA ID Number CAD00477116B		C. State Transporter's ID 103577		
6. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (415) 543-4835		
7. Designated Facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107				E. State Transporter's ID		
10. US EPA ID Number CAD00477116B				F. Transporter's Phone		
				G. State Facility's ID CAD0047711681		
				H. Facility's Phone (415) 543-4835		
1. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
HAZARDOUS WASTE LIQUID, N.O.S. ORM-E NA 9189		0	00250	g	State 241	
					EPA/Other	
					State	
					EPA/Other	
					State	
					EPA/Other	
J. Additional Descriptions for Materials Listed Above FUEL OIL AND WATER		K. Handling Codes for Wastes Listed Above				
		a. 01		b.		
		c.		d.		
15. Special Handling Instructions and Additional Information <p style="text-align: center;">JOB SITE: SOUTHERN PACIFIC 330 Cypress Street Oakland, CA</p> APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name PATRICIA CURL		Signature <i>Patricia Curl as agent for SPICo</i>			Month Day Year 021390	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name JONAL JAY QUITTARD		Signature <i>Jonal Jay Quitard</i>			Month Day Year 021390	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature			Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name		Signature			Month Day Year	

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
 To: P.O. Box 400, Sacramento, CA 95812-0400

01/2/88

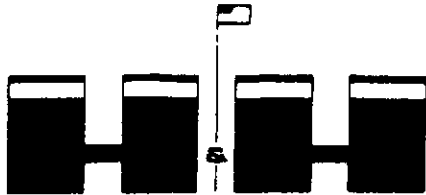
90003636
 90003636
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-900-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA D 0 1 0 1 6 2 8 1 9 8		Manifest Document No. 0 1 0 1 0 1 4		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address S.P. TRANSPORTATION COMPANY 1 Market Plaza San Francisco, CA 94105 4. Generator's Phone (415) 541-2838 ATTN: Mr. Mike Grant						A. State Manifest Document Number 90003636											
5. Transporter 1 Company Name JIM DOBBAS, INC.						6. US EPA ID Number CA D 9 8 1 9 8 2 9 9 4		C. State Transporter's ID 000813									
7. Transporter 2 Company Name						8. US EPA ID Number		D. Transporter's Phone (916) 885-2824									
9. Designated Facility Name and Site Address H & H SHIP SERVICE COMPANY 220 China Basin Street San Francisco, CA 94107						10. US EPA ID Number CA D 0 1 0 1 4 7 7 1 1 6 8		G. State Facility's ID CA D 0 1 0 1 4 7 7 1 1 6 8									
								H. Facility's Phone (415) 543-4835									
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.					
a. RESIDUE WASTE OIL TANK (CALIFORNIA ONLY REGULATED WASTE)						0 1 1 T P		0 1 5 0 0		P		State 512 EPA/Other					
b. RESIDUE WASTE OIL TANK (CALIFORNIA ONLY REGULATED WASTE)						0 1 1 T P		0 0 5 0 0		P		State 512 EPA/Other					
c. RESIDUE WASTE OIL TANK (CA ONLY REG WASTE)						0 1 1 T P		0 1 5 0 0		P		State 512 EPA/Other					
d.												State EPA/Other					
J. Additional Descriptions for Materials Listed Above PUMPED OUT 1,500 gallon and 500 gallon tanks last containing waste oil. Tanks inerted with dry ice for transport.						K. Handling Codes for Wastes Listed Above		a. 01		b. 01							
15. Special Handling Instructions and Additional Information APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.						JOB SITE: SOUTHERN PACIFIC 330 Cypress Street Oakland, California											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name PATRICIA CURL						Signature <i>Patricia Curl for SPTCo</i>				Month Day Year 0 2 1 5 9 0							
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name CECIL MOON				Signature <i>Cecil Moon</i>				Month Day Year 0 2 1 5 9 0			
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name				Signature				Month Day Year			
19. Discrepancy Indication Space																	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.																	
Printed/Typed Name Cleveland Valdez						Signature <i>Cleveland Valdez</i>				Month Day Year 0 2 1 5 9 0							

90003793
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-424-8800
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD000628198		Manifest Document No. 0101013		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.															
3. Generator's Name and Mailing Address S.P. TRANSPORTATION COMPANY 1 Market Plaza San Francisco, CA 94105						A. State Manifest Receipt Number 90003793																	
4. Generator's Phone (415) 541-2838 ATTN: Mr. Mike Grant						B. State Generator's ID 41YH0316101910319																	
5. Transporter 1 Company Name JIM DOBBAS, INC.			6. US EPA ID Number CAD981982994			C. State Transporter's ID 000813 2313		D. Transporter's Phone (916) 885-2824															
7. Transporter 2 Company Name			8. US EPA ID Number			E. State Transporter's ID 014500		F. Transporter's Phone															
9. Designated Facility Name and Site Address H & H SHIP SERVICE COMPANY 220 China Basin Street San Francisco, CA 94107						10. US EPA ID Number CAD004771168		G. State Facility's ID CAD004771168															
						H. Facility's Phone (415) 543-4835																	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.											
a. RESIDUE DIESEL TANK (CALIFORNIA ONLY REGULATED WASTE)						0 0 1 T P		1 0 0 0 0		P		State 512 EPA/Other											
b. RESIDUE WASTE OIL TANK (CALIFORNIA ONLY REGULATED WASTE)						0 0 1 T P		1 0 0 0 0		P		State 512 EPA/Other											
c.												State EPA/Other											
d.												State EPA/Other											
J. Additional Descriptions for Materials Listed Above PUMPED OUT 10,000 gallon and 500 gallon tanks last containing diesel and waste oil. Tanks inerted with dry ice for transport.						K. Handling Codes for Wastes Listed Above																	
						a. 01		b. 01		c.		d.											
15. Special Handling Instructions and Additional Information APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.						JOB SITE: SOUTHERN PACIFIC 330 Cypress Street Oakland, California																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						Printed/Typed Name PATRICIA CURL						Signature <i>Patricia Curl</i>						Month Day Year 10 21 14 19 10					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name CECIL MOON						Signature <i>Cecil Moon</i>						Month Day Year 10 21 14 19 10					
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature						Month Day Year					
19. Discrepancy Indication Space																							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						Printed/Typed Name <i>Crawford Valtier</i>						Signature <i>Crawford Valtier</i>						Month Day Year 10 21 14 19 10					

Do Not Write Below This Line



ENVIRONMENTAL SERVICES
 (DIVISION OF H & H SHIP SERVICE CO., INC.)

220 CHINA BASIN, P.O. BOX 77363 • SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835



CERTIFICATE OF DISPOSAL

FEBRUARY 20, 1990

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

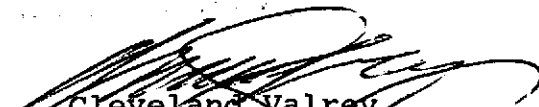
1. The storage tank(s), size(s) **1-10,000 GALS., 2-1,500 GALS. AND 1- 500 GALS.**

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 **3467** 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.**
4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.
5. Should you require further information, please call (415) 543-4835.

Very Truly Yours,


 Cleveland Valrey
 Operations Coordinator