

Canonie Environmental

Canonie Environmental Services Corp.
1825 South Grant Street
Suite 260
San Mateo, California 94402
Phone: 415-573-8012
FAX: 415-573-5654

April 3, 1989

88-149-07

Mr. Tim Becker
Environmental Engineer
Southern Pacific Transportation Company
One Market Plaza, Room 1007
San Francisco, CA 94105

Completion Report
Underground Storage Tank Removal
Southern Pacific Transportation Company Facility
Oakland, California

*no site
map w/
samples!*

Dear Mr. Becker:

Canonie Environmental Services Corp. (Canonie) has completed removal of four underground storage tanks at the Southern Pacific Transportation Company (SPTCo) facility at Oakland, California. This letter is to inform you of the work performed at the Oakland site located at Fifth Avenue and Seventh Street.

On February 13, 1989, Canonie took soil samples from four locations around the tanks. This preliminary sampling was required by Alameda County Environmental Health Department, Hazardous Materials Division to verify that our proposed method of tank removal would not further impact the site before approval of our work plan. Water was encountered at two to four feet below ground surface. The samples were retrieved from immediately above the water. The samples were analyzed only for total extractable petroleum hydrocarbons (TEPH) in order to assess hydrocarbon concentrations immediately around the tanks. As shown in Attachment A, the soil samples contained from 6,200 to 16,000 parts per million (ppm) TEPH. This information and records of correspondence with other regulatory agencies regarding the on-site treatment of ground water removed during excavation was submitted to Alameda County Environmental Health Department, Hazardous Materials Division on February 15, 1989 in a letter report entitled "Soil Sampling Report and Records of Correspondence with Regulatory Agencies."

Work began on February 20, 1989. SPTCo had previously removed two sets of tracks to allow access to the tanks and prevent damage to the tracks. Four 7,000-gallon storage tanks of riveted steel construction were removed and shipped to Erickson, Inc., of Richmond, California, for disposal. The tanks had been filled with soil and contained water and hydrocarbon product. The two north tanks contained diesel and the two south tanks contained Bunker "C" oil. The soil was removed from the tanks by enlarging

the holes previously used to fill the tanks with soil. An excavator opened the tops of the tanks and removed the soil inside. The soil was stockpiled on plastic sheeting inside bermed areas on-site. The tanks were located inside shoring which remained from the original installation of the tanks. The soil inside of the shoring was removed to a depth of approximately 12 feet where a continuous layer of bay mud was encountered. The soils at this depth appeared "clean" and no further excavation was performed. The final limits of the excavation were 75 feet by 16 feet by 12 feet deep. A total of 500 cubic yards of material was removed.

Approximately 4000 gallons of water and hydrocarbon product were pumped into a storage tank on-site and later sent to Petroleum Recycling Corp. of Signal Hill, California, for disposal. No additional water entered the excavation in the remaining three days that the hole was open. The surface of the site is granular fill material, and it appears the water had infiltrated from the surface and was trapped inside of the shoring and the low-permeability bay mud beneath the site. On February 24, 1989, Canonic dug a test pit 15 feet east of the excavation to characterize the site soil outside of the excavation. In the test pit, from the surface to a depth of 2 feet is a gravel fill material. From a depth of 2 to 6 feet, in the test pit, bay mud similar to that at a depth of 12 to 14 feet in the excavation was encountered. The test pit was stopped at a depth of 6 feet. *why?*

After completion of the ^{tank} excavation, six soil samples were taken from the bottom of the excavation and six samples from 2 feet below the bottom of the excavation. These depths correspond to 12 feet and 14 feet below ground surface. The samples at 12 feet were analyzed for benzene, toluene, xylene, and ethyl benzene (BTX and E); total extractable petroleum hydrocarbons (TEPH); and total oil and grease (TOG). In addition, the six samples at 12 feet were composited into two samples and tested for polychlorinated biphenyls (PCBs) at the request of the Alameda County Environmental Health Department. All samples showed nondetectable levels of BTX and E and PCBs. One sample showed 12 ppm of TEPH and the rest showed none detected. The TOG analysis showed from 8 to 43 ppm in each sample. Attachment A contains copies of the certified analytical reports. Due to the low concentrations of hydrocarbons in the soil, the six samples at 14 feet were not tested. *samples collected on 2-27-89 per change of custody.*

The excavation was backfilled with crushed rock to within one foot of the surface. Granular roadbase similar to that covering the site was placed, compacted, and slightly crowned to enhance drainage away from the area. The adjacent track beds were graded to allow SPTCo to easily replace the railroad tracks. *7 wings - 8 samples contained 8-43 ppm*

Summary and Recommendations

The six soil samples analyzed did not contain BTX and E or PCBs. One of the samples contained 12 ppm of TEPH while the rest showed none detected. Each sample contained from 8 to 43 ppm of TOG. These low level hydrocarbon

Mr. Tim Becker

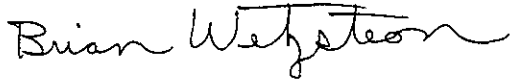
3

April 3, 1989

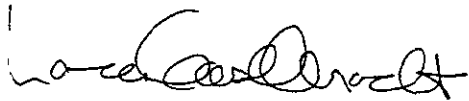
concentrations combined with the presence of a low-permeability bay mud and the absence of ground water indicate no further action is required.

If you have any questions, please call us.

Very truly yours,



Brian L. Wetzsteon
Assistant Project Engineer



Lance D. Geselbracht, P.E.
Project Manager

BLW/LDG/as

Attachment

ATTACHMENT A
CERTIFIED ANALYTICAL RESULTS

Laboratory Report for

Mr. Brian Wetzsteon
Canonie Environmental
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

February 15, 1989

By

Canonie Environmental
212 Frank West Circle, Suite A
Stockton, CA 95206
(209) 983-1340

88-149-07-6129

02-15-1989
88-149-07-6129
Page 1

Table 1
Codes of Samples Received
From SPT. Co. East Oakland
Project: 88-149-07

<u>Sampler ID</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Lab ID#</u>	<u>Sample Type</u>	<u>Container</u>
Analysis: Total Ext. Petroleum Hydrocarbons					
Sample 1-2'	02-13-89	02-14-89	835229	Soil	Brass Tube
Sample 2-2'	02-13-89	02-14-89	835230	Soil	Brass Tube
Sample 3-4'	02-13-89	02-14-89	835231	Soil	Brass Tube
Sample 4-2'	02-13-89	02-14-89	835232	Soil	Brass Tube

Table 2
 Results of Total Ext. Petroleum Hydrocarbons Analysis on Soil
 Samples Received From SPT. Co. East Oakland
 Results in mg/kg

02-15-1989
 88-149-07-6129
 Page 2

Sampler ID:	Sample 1-2'	Sample 2-2'	Sample 3-4'	Sample 4-2'
Lab ID#:	<u>835229</u>	<u>835230</u>	<u>835231</u>	<u>835232</u>
<u>Analyte(s)</u> Total Extractable Petroleum Hydrocarbons	6200.	16000.	8900.	11000.

PAS DT
 Analyst Checked by

Note:
 ND X denotes none detected to a level of X.
 #ND X denotes none detected to a level of X due to an interfering peak.

Project # 88-149-07-6129

Date Completed 2-15-1989

Reference Methods

Total Extractable Hydrocarbons

	<u>Preparation</u>	<u>Analysis</u>
Water	<input type="checkbox"/> EPA 3510 <input type="checkbox"/> EPA 3520	<input checked="" type="checkbox"/> Guidelines for Addressing Fuel Leaks ¹
Soil	<input type="checkbox"/> EPA 3540 <input checked="" type="checkbox"/> EPA 3550	

1) Eisenberg, Don M., et al, "Guidelines for Addressing Fuel Leaks", California Regional Water Quality Control Board, San Francisco Bay Region, Sept. 1985.

ANALYST BTS

PROJ NO		PROJECT NAME		NO. OF CONTAINERS	ANALYSIS TEPH												REMARKS			
LP NO		SAMPLERS (Signature)																		
DATE	SAMPLE ID																			
88-149-07	SPTC - EAST OAKLAND																			
	Brian Wetstone																			
2-13-89	SAMPLE 1-2'			1	X															BRASS TUBE
2-13-89	SAMPLE 2-2'			1	X															BRASS TUBE
2-13-89	SAMPLE 3-4'			1	X															BRASS TUBE
2-13-89	SAMPLE 4-2'			1	X															BRASS TUBE

Relinquished by (Signature) Brian Wetstone	Date/Time 2-13-89 2 PM	Received by: (Signature)
Relinquished by (Signature)	Date/Time	Received by: (Signature)
Relinquished by (Signature)	Date/Time	Received for Laboratory by: (Signature)

Remarks
 24 HR TAT
 REPORT RESULTS TO BRIAN WETSTONE
 IN SAN MATEO ASAP.

Laboratory Report for

Mr. Brian Wetzsteon
Canonie Environmental
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

March 3, 1989

By

Canonie Environmental
212 Frank West Circle, Suite A
Stockton, CA 95206
(209) 983-1340

88-150-07-6194

Table 1
Codes of Samples Received
From SPT. Co. East Oakland
Project: 88-150-07

<u>Sampler ID</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Lab ID#</u>	<u>Sample Type</u>	<u>Container</u>
Analysis: Benzene-Toluene-Et-Benzene-Xylene					
N-12	02-23-89	02-24-89	835684	Soil	Brass Tube
NE-12	02-23-89	02-24-89	835682	Soil	Brass Tube
NW-12	02-23-89	02-24-89	835680	Soil	Brass Tube
S-12	02-23-89	02-24-89	835686	Soil	Brass Tube
SE-12	02-23-89	02-24-89	835688	Soil	Brass Tube
SW-12	02-23-89	02-24-89	835690	Soil	Brass Tube
Analysis: Total Ext. Petroleum Hydrocarbons					
N-12	02-23-89	02-24-89	835684	Soil	Brass Tube
NE-12	02-23-89	02-24-89	835682	Soil	Brass Tube
NW-12	02-23-89	02-24-89	835680	Soil	Brass Tube
S-12	02-23-89	02-24-89	835686	Soil	Brass Tube
SE-12	02-23-89	02-24-89	835688	Soil	Brass Tube
SW-12	02-23-89	02-24-89	835690	Soil	Brass Tube

Table 2
Results of Benzene-Toluene-Et-Benzene-Xylene Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

03-02-1989
88-150-07-6194
Page 2

Sampler ID:	N-12	NE-12	NW-12	S-12	SE-12
Lab ID#:	<u>835684</u>	<u>835682</u>	<u>835680</u>	<u>835686</u>	<u>835688</u>
<u>Analyte(s)</u>					
Benzene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025
Toluene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025
Ethyl Benzene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025
Xylene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025

JA
Analyst

DS
Checked by

Note:

ND X denotes none detected to a level of X

#ND X denotes none detected to a level of X due to an interfering peak

Table 2 (Cont.)
Results of Benzene-Toluene-Et-Benzene-Xylene Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

03-02-1989
88-150-07-6194
Page 3

Sampler ID:	SW-12
Lab ID#:	<u>835690</u>
<u>Analyte(s)</u>	
Benzene	ND 0.025
Toluene	ND 0.025
Ethyl Benzene	ND 0.025
Xylene	ND 0.025

<u>NA</u>	<u>DJ</u>
Analyst	Checked by

Note:

ND X denotes none detected to a level of X.

#ND X denotes none detected to a level of X due to an interfering peak.

Table 3
 Results of Total Ext. Petroleum Hydrocarbons Analysis on Soil
 Samples Received From SPT. Co. East Oakland
 Results in mg/kg

03-02-1989
 88-150-07-6194
 Page 4

Sampler ID:	N-12	NE-12	NW-12	S-12	SE-12
Lab ID#:	<u>835684</u>	<u>835682</u>	<u>835680</u>	<u>835686</u>	<u>835688</u>
<u>Analyte(s)</u>					
Total Extractable Petroleum Hydrocarbons	ND 10.	ND 10.	*ND 10.	ND 10.	ND 10.

BTS/PEG DJ
 Analyst Checked by

*Extractable Hydrocarbons 12.

Note:
 ND X denotes none detected to a level of X
 #ND X denotes none detected to a level of X due to an interfering peak

Table 3 (Cont.)
Results of Total Ext. Petroleum Hydrocarbons Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

03-02-1989
88-150-07-6194
Page 5

Sampler ID:	SW-12
Lab ID#:	<u>835690</u>
<u>Analyte(s)</u>	
Total Extractable Petroleum Hydrocarbons	ND 10.
<u>BTS/REG</u>	<u>DJ</u>
Analyst	Checked by

Note:
ND X denotes none detected to a level of X.
#ND X denotes none detected to a level of X due to an interfering peak.

035600-055677

PROJ NO 88-150-07		PROJECT NAME SPT Co - E. OAKLAND		NO. OF CON- TAINERS	ANALYSIS (BAK) TEPH (3550) BTXE (3020)												REMARKS Walk in		
LP NO 6194	SAMPLERS (Signature) Brian Wetzstein				DATE	SAMPLE ID													
2-23-89	NW-12'	80	1																
	NW-14'	81	1																
	NE-12'	82	1																
	NE-14'	83	1																
	N-12'	84	1																
	N-14'	85	1																
	S-12'	86	1																
	S-14'	87	1																
	SE-12'	88	1																
	SE-14'	89	1																
	SW-12'	90	1																
	SW-14'	91	1																
Report - call on results ASAP to Brian Wetzstein San Mateo office																			

Relinquished by (Signature) Brian Wetzstein	Date/Time 2/23/89 4:15	Received by: (Signature)	Remarks 2 WK T.A.T. 1 week TAT REPORT TO BRIAN WETZSTEON IN SAN MATEO TEST ALL 12' SAMPLES FIRST (6), REPORT TO BRIAN BEFORE TESTING 14' SAMPLES Canonie Environmental, 212 Frank West Circle, Suite A, Stockton, CA 95206
Relinquished by (Signature)	Date/Time	Received by: (Signature)	
Relinquished by (Signature)	Date/Time 2/24/89 9:30 AM	Received for Laboratory by: (Signature) Marie Schmitt	

Project # _____

Date Completed _____

Reference Methods
Volatile Organic Analysis

	<u>Preparation</u>	<u>Analysis</u>
Water		<input type="checkbox"/> EPA 601 <input type="checkbox"/> EPA 602 <input type="checkbox"/> EPA 624 <input type="checkbox"/> Methanol in Water
Soil	<input checked="" type="checkbox"/> EPA 5030	<input type="checkbox"/> EPA 8010 <input type="checkbox"/> EPA 8015 <input checked="" type="checkbox"/> EPA 8020 <input type="checkbox"/> EPA 8240 <input type="checkbox"/> Methanol in Soil <input type="checkbox"/> Guidelines for Addressing Fuel Leaks 1

ANALYST AB

- 1) Eisenberg, Don M., et al, "Guidelines for Addressing Fuel Leaks", California Regional Water Quality Control Board, San Francisco Bay Region, Sept. 1985.

Project # _____

Date Completed _____

Reference Methods

Total Extractable Hydrocarbons

	<u>Preparation</u>	<u>Analysis</u>
Water	<input type="checkbox"/> EPA 3510 <input type="checkbox"/> EPA 3520	<input checked="" type="checkbox"/> Guidelines for Addressing Fuel Leaks ¹
Soil	<input type="checkbox"/> EPA 3540 <input checked="" type="checkbox"/> EPA 3550	

1) Eisenberg, Don M., et al, "Guidelines for Addressing Fuel Leaks", California Regional Water Quality Control Board, San Francisco Bay Region, Sept. 1985.

ANALYST _____

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

RECEIVED

MAR 7 1989

Ans'd.....

March 3, 1989
Lab No. 13125-1

Client: #03-8624
 Canonie
 Mr. Brian Wetzsteon
 1825 S. Grant Street, Suite 260
 San Mateo, CA 94402

Project #88-150-07

Sample Description: N-12

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

<u>Parameter</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>Detection Limit</u>
TPH (418.1)	8	mg/kg	5

ND = Not detected at or above the
concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-2

Client: #03-8624 Project #88-150-07
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Sample Description: S-12

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

<u>Parameter</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>Detection Limit</u>
TPH (418.1)	11	mg/kg	5

ND = Not detected at or above the
concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath

NICKI HEATH
Environmental Chemist

NH/JFQ:cat

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
 Lab No. 13125-3

Client: #03-8624 Project #88-150-07
 Canonie
 Mr. Brian Wetzsteon
 1825 S. Grant Street, Suite 260
 San Mateo, CA 94402

Sample Description: NE-12

Sampled by: Brian Wetzsteon
 Date Sampled: February 23, 1989
 Date Received: February 27, 1989

REPORT OF ANALYSIS

<u>Parameter</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>Detection Limit</u>
TPH (418.1)	12	mg/kg	5

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath

NICKI HEATH
 Environmental Chemist

John F. Quinn
 JOHN F. QUINN, Ph.D.
 Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-4

Client: #03-8624
 Canonie
 Mr. Brian Wetzsteon
 1825 S. Grant Street, Suite 260
 San Mateo, CA 94402

Project #88-150-07

Sample Description: NW-12

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

<u>Parameter</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>Detection Limit</u>
TPH (418.1)	21	mg/kg	5

ND = Not detected at or above the
concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-5

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Sample Description: SE-12

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

<u>Parameter</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>Detection Limit</u>
TPH (418.1)	43	mg/kg	5

ND = Not detected at or above the
concentration of the detection limit.

mg/kg = ppm_f

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-6

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Sample Description: SW-12

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

<u>Parameter</u>	<u>Test Results</u>	<u>Reporting Unit</u>	<u>Detection Limit</u>
TPH (418.1)	12	mg/kg	5

ND = Not detected at or above the
concentration of the detection limit.

mg/kg = ppm_f

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

Laboratory Report for

Mr. Brian Wetzsteon
Canonie Environmental
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

March 20, 1989

By

Canonie Environmental
212 Frank West Circle, Suite A
Stockton, CA 95206
(209) 983-1340

88-150-07-6328

Table 1
Codes of Samples Received
From S.P. Oakland
Project: 88-150-07

<u>Sampler ID</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Lab ID#</u>	<u>Sample Type</u>	<u>Container</u>
Analysis: PCB					
S-12, SE-12, SW-12	02-23-89	02-24-89	835686	Soil	Brass Tube

Table 2
Results of PCB Analysis on Soil
Samples Received From S.P. Oakland
Results in mg/kg

03-20-1989
88-150-07-6328
Page 2

Sampler ID:	S-12,SE-12- ,SW-12
Lab ID#:	<u>835686</u>
<u>Analyte(s)</u>	
Aroclor 1016	ND 0.05
Aroclor 1221	ND 0.05
Aroclor 1232	ND 0.05
Aroclor 1242	ND 0.05
Aroclor 1248	ND 0.05
Aroclor 1254	ND 0.10
Aroclor 1260	ND 0.10

Analyst Checked by

Note:

ND X denotes none detected to a level of X.

#ND X denotes none detected to a level of X due to an interfering peak.

Reference Methods

PCB'S

	<u>Preparation</u>	<u>Analysis</u>
Water	<input type="checkbox"/> EPA 3510 <input type="checkbox"/> EPA 3520	<input type="checkbox"/> EPA 608.3 <input type="checkbox"/> EPA 625 <input type="checkbox"/> EPA 680
Soil	<input type="checkbox"/> EPA 3540 <input type="checkbox"/> EPA 3550 <input type="checkbox"/> EPA 1310	<input checked="" type="checkbox"/> EPA 8080.3 <input type="checkbox"/> EPA 8270
Oil	<input type="checkbox"/> EPA Test Method "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils."	

ANALYST *Jill*

Laboratory Report for

Mr. Brian Wetzsteon
Canonie Environmental
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

March 20, 1989

By

Canonie Environmental
212 Frank West Circle, Suite A
Stockton, CA 95206
(209) 983-1340

88-150-07-6239

03-20-1989
88-150-07-6239
Page 1


Table 1
Codes of Samples Received
From SPT.Co. East Oakland
Project: 88-150-07

<u>Sampler ID</u>	<u>Date Sampled</u>	<u>Date Received</u>	<u>Lab ID#</u>	<u>Sample Type</u>	<u>Container</u>
Analysis: PCB					
NW-12	02-23-89	02-24-89	835680	Soil	Brass Tube
NE-12	02-23-89	02-24-89	835682	Soil	Brass Tube
N-12	02-23-89	02-24-89	835684	Soil	Brass Tube


Table 2
Results of PCB Analysis on Soil
Samples Received From SPT.Co. East Oakland
Results in mg/kg

03-20-1989
88-150-07-6239
Page 2

Sampler ID:	Composite
Lab ID#:	<u>835680</u>
<u>Analyte(s)</u>	
Aroclor 1016	ND 0.05
Aroclor 1221	ND 0.05
Aroclor 1232	ND 0.05
Aroclor 1242	ND 0.05
Aroclor 1248	ND 0.05
Aroclor 1254	ND 0.10
Aroclor 1260	ND 0.10



Analyst



Checked by

Note:

ND X denotes none detected to a level of X.

#ND X denotes none detected to a level of X due to an interfering peak.

ROJ NO PROJECT NAME

83-15087 SPT CO E OAKLAND

L.P. NO SAMPLERS (Signature)

6239

DATE SAMPLE ID

NO. OF CONTAINERS

ANALYSIS DUC

REMARKS

2-23-89 NW-12
1 NE-12
1 N-12

1 X
1 X
1 X

1 SAMPLE Composite

LAP ID #
835680
835682
835684

2XAS TUBE
L

Relinquished by (Signature)	Date/Time	Received by: (Signature)
Relinquished by (Signature)	Date/Time	Received by: (Signature)
Relinquished by (Signature)	Date/Time	Received for Laboratory by: (Signature)

Remarks

1. SAMPLE FROM LAP # 6194
 2. SAMPLES DUE BY 3-10-89 PER SHARON PIERSON

Canonie Environmental, 212 Frank West Circle, Suite A, Stockton, CA 95206

Reference Methods
PCB'S

	<u>Preparation</u>	<u>Analysis</u>
Water	<input type="checkbox"/> EPA 3510 <input type="checkbox"/> EPA 3520	<input type="checkbox"/> EPA 608.3 <input type="checkbox"/> EPA 625 <input type="checkbox"/> EPA 680
Soil	<input type="checkbox"/> EPA 3540 <input type="checkbox"/> EPA 3550 <input type="checkbox"/> EPA 1310	<input checked="" type="checkbox"/> EPA 8080.3 <input type="checkbox"/> EPA 8270
Oil	<input type="checkbox"/> EPA Test Method "The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oils."	

ANALYST JDF