



# General Services Agency

Date: March 1, 1996

Number of pages including cover sheet: 2

To:

SCOTT SEERY  
HCSA

Phone:

Fax phone: 337-9335

CC:

From:

ROD FREITAG  
GSA

Phone: 208-9522 (2-9522)

Fax phone:

REMARKS:

- Urgent
- For your review
- Reply ASAP
- Please comment

HERE IS THE SAMPLE LOCATION MAP FOR THE 4TH  
MADISON SOIL SAMPLING

THANKS,  
*RF*



Environmental  
Science &  
Engineering, Inc.

RECEIVED  
FEB 9 1996

COUNTY OF ALAMEDA - CA  
Engineering & Environmental  
Management

February 7, 1996

Mr. Rod Freitag, P.E.  
Environmental Project Manager  
Alameda County General Services Agency  
Engineering & Environmental Management  
1401 Lakeside Drive  
Oakland, CA 94612

**SUBJECT: SOIL SAMPLING  
4TH AND MADIGAN SITE  
SANTA RITA CORRECTIONAL FACILITY  
DUBLIN, CALIFORNIA  
ESE PROJECT NO. 6596012**

Dear Mr. Freitag:

Environmental Science & Engineering, Inc. (ESE) is pleased to submit this letter to the Alameda County General Services Agency concerning soil sampling conducted at the 4th and Madigan Site in the Santa Rita Correctional Facility, Dublin, California.

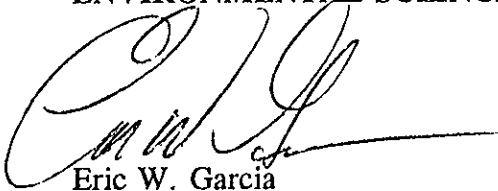
On January 23, 1996 ESE collected five soil samples (PNA-1 through PNA-5) from the above-referenced site (Figure 1). Soil samples were collected by pushing a 2.5- inch brass sleeve into the soil. After a sample of soil was retained both ends of the sleeve were sealed with Teflon™ tape and capped. The soil samples were placed on ice and transported under chain-of-custody documentation to McCampbell Analytical, a State-certified analytical laboratory, of Pacheco, California. Soil samples were analyzed for polynuclear aromatics (PNAs) using EPA Method 8270. Samples PNA-1 through PNA-5 were reported as nondetect for PNAs. Laboratory analytical reports and chain-of-custody documentation are attached.

Mr. Rod Freitag\ACGSA  
February 7, 1996  
Page 2

ESE appreciates the opportunity to be of service to the Alameda County General Services Agency on this project. If you should have any questions, please do not hesitate to contact Eric Garcia at (510) 685-4053.

Sincerely,

**ENVIRONMENTAL SCIENCE & ENGINEERING, INC.**



Eric W. Garcia  
Senior Staff Geologist



George Reid, R.G.  
Manager, Geosciences

Attachments: (1) Site Map With Soil Sample Locations  
(2) Laboratory Analytical Reports and Chain-of-Custody Documentation

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553  
Tele: 510-798-1620 Fax: 510-798-1622

02/02/96

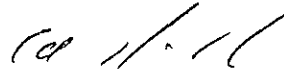
Dear Eric:

Enclosed are:

- 1). the results of 5 samples from your Alameda Co. GSA, 4th & Madigan project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton

# CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1996

Submission #: 9601214

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: E-AC-4/M  
Received: January 24, 1996

Project#: 5670

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.  
Method: EPA 3550/8270

SampleID: PNA-1  
Sample #: 116917  
Sampled: January 23, 1996

Matrix: SOIL  
Run: 10204-M

Extracted: January 25, 1996  
Analyzed: January 25, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	1.0	N.D.	--
2- METHYLNAPHTHALENE	N.D.	1.0	N.D.	--
2- CHLORONAPHTHALENE	N.D.	1.0	N.D.	--
ACENAPHTHYLENE	N.D.	1.0	N.D.	--
ACENAPHTHENE	N.D.	1.0	N.D.	84
FLUORENE	N.D.	1.0	N.D.	--
PHENANTHRENE	N.D.	1.0	N.D.	--
ANTHRACENE	N.D.	1.0	N.D.	--
FLUORANTHRENE	N.D.	1.0	N.D.	--
PYRENE	N.D.	1.0	N.D.	130
BENZO (A) ANTHRACENE	N.D.	1.0	N.D.	--
CHRYSENE	N.D.	1.0	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	2.0	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	2.0	N.D.	--
BENZO (A) PYRENE	N.D.	0.50	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	2.0	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	2.0	N.D.	--
BENZO (GHI) PERYLENE	N.D.	2.0	N.D.	--

*Michael R. Verona*  
Michael Verona  
Chemist

*Alex Tam*  
Alex Tam  
Semivolatiles Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1996

Submission #: 9601214

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton


Project: E-AC-4/M  
Received: January 24, 1996


Project#: 5670

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.  
Method: EPA 3550/8270

SampleID: PNA-3  
Sample #: 116919  
Sampled: January 23, 1996  
Matrix: SOIL  
Run: 10204-M  
Extracted: January 25, 1996  
Analyzed: January 25, 1996

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	0.5	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.5	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.5	N.D.	--
ACENAPHTHYLENE	N.D.	0.5	N.D.	--
ACENAPHTHENE	N.D.	0.5	N.D.	84
FLUORENE	N.D.	0.5	N.D.	--
PHENANTHRENE	N.D.	0.5	N.D.	--
ANTHRACENE	N.D.	0.5	N.D.	--
FLUORANTHRENE	N.D.	0.5	N.D.	--
PYRENE	N.D.	0.5	N.D.	130
BENZO (A) ANTHRACENE	N.D.	0.5	N.D.	--
CHRYSENE	N.D.	0.5	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	1.0	N.D.	--
BENZO (A) PYRENE	N.D.	0.25	N.D.	--
IDENO (1,2,3-CD) PYRENE	N.D.	1.0	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	1.0	N.D.	--
BENZO (GHI) PERYLENE	N.D.	1.0	N.D.	--

  
Michael Verona  
Chemist

  
Alex Tam  
Semivolatiles Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1996

Submission #: 9601214

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: E-AC-4/M  
Received: January 24, 1996

Project#: 5670

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.  
Method: EPA 3550/8270

SampleID: PNA-2  
Sample #: 116918  
Sampled: January 23, 1996  
Matrix: SOIL  
Run: 10204-M  
Extracted: January 25, 1996  
Analyzed: January 25, 1996

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	1.0	N.D.	--
2- METHYLNAPHTHALENE	N.D.	1.0	N.D.	--
2- CHLORONAPHTHALENE	N.D.	1.0	N.D.	--
ACENAPHTHYLENE	N.D.	1.0	N.D.	--
ACENAPHTHENE	N.D.	1.0	N.D.	84
FLUORENE	N.D.	1.0	N.D.	--
PHENANTHRENE	N.D.	1.0	N.D.	--
ANTHRACENE	N.D.	1.0	N.D.	--
FLUORANTHRENE	N.D.	1.0	N.D.	--
PYRENE	N.D.	1.0	N.D.	130
BENZO (A) ANTHRACENE	N.D.	1.0	N.D.	--
CHRYSENE	N.D.	1.0	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	2.0	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	2.0	N.D.	--
BENZO (A) PYRENE	N.D.	0.50	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	2.0	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	2.0	N.D.	--
BENZO (GHI) PERYLENE	N.D.	2.0	N.D.	--

*Michael R. Verona*  
Michael Verona  
Chemist

*Alex Tam*  
Alex Tam  
Semivolatiles Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1996

Submission #: 9601214

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: E-AC-4/M  
Received: January 24, 1996

Project#: 5670

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.  
Method: EPA 3550/8270

SampleID: PNA-4

Sample #: 116920

Matrix: SOIL

Extracted: January 25, 1996

Sampled: January 23, 1996

Run: 10204-M

Analyzed: January 25, 1996

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	0.1	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.1	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.1	N.D.	--
ACENAPHTHYLENE	N.D.	0.1	N.D.	--
ACENAPHTHENE	N.D.	0.1	N.D.	84
FLUORENE	N.D.	0.1	N.D.	--
PHENANTHRENE	N.D.	0.1	N.D.	--
ANTHRACENE	N.D.	0.1	N.D.	--
FLUORANTHRENE	N.D.	0.1	N.D.	--
PYRENE	N.D.	0.1	N.D.	130
BENZO (A) ANTHRACENE	N.D.	0.1	N.D.	--
CHRYSENE	N.D.	0.1	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.2	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.2	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.2	N.D.	--

*Michael R. Verona*  
Michael Verona  
Chemist

*Alex Tam*  
Alex Tam  
Semivolatiles Supervisor



# CHROMALAB, INC.

Environmental Services (SDB)

January 26, 1996

Submission #: 9601214

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton

Project: E-AC-4/M  
Received: January 24, 1996

Project#: 5670

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.  
Method: EPA 3550/8270

SampleID: PNA-5  
Sample #: 116921  
Sampled: January 23, 1996  
Matrix: SOIL  
Run: 10204-M  
Extracted: January 25, 1996  
Analyzed: January 25, 1996

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
NAPHTHALENE	N.D.	0.1	N.D.	--
2- METHYLNAPHTHALENE	N.D.	0.1	N.D.	--
2- CHLORONAPHTHALENE	N.D.	0.1	N.D.	--
ACENAPHTHYLENE	N.D.	0.1	N.D.	--
ACENAPHTHENE	N.D.	0.1	N.D.	84
FLUORENE	N.D.	0.1	N.D.	--
PHENANTHRENE	N.D.	0.1	N.D.	--
ANTHRACENE	N.D.	0.1	N.D.	--
FLUORANTHRENE	N.D.	0.1	N.D.	--
PYRENE	N.D.	0.1	N.D.	130
BENZO (A) ANTHRACENE	N.D.	0.1	N.D.	--
CHRYSENE	N.D.	0.1	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.2	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
IDENO (1, 2, 3-CD) PYRENE	N.D.	0.2	N.D.	--
DIBENZO (A, H) ANTHRACENE	N.D.	0.2	N.D.	--
BENZO (GHI) PERYLENE	N.D.	0.2	N.D.	--

*Michael R. Verona*  
Michael Verona  
Chemist

*Alex Tam*  
Alex Tam  
Semivolatiles Supervisor

Chrome 214 / 116917 - 116921

26112

**McCAMPBELL ANALYTICAL**

110 2nd AVENUE, # D7

(510) 798-1620

PACHECO, CA 94553

FAX (510) 798-1622

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME:

RUSH  24 HOUR  48 HOUR  5 DAY

REPORT TO: Ed Hamilton

BILL TO: MAT

COMPANY: McCampbell Analytical

TELE: above

FAX #: above

PROJECT NUMBER: 5670

PROJECT NAME: E-AC-4/M

PROJECT LOCATION:

SAMPLER SIGNATURE:

ANALYSIS REQUEST

OTHER

SUB#: 9601214 REP: GC  
CLIENT: MCCAM  
DUE: 01/31/96  
REF #: 26112

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED			REMARKS		
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO <sub>3</sub>	OTHER			
PNA-1	Santa Rosa	1/23/96	0900	1	bt	X										
PNA-2	↓		0905	1	bt	X										
PNA-3	↓		0910	1	bt	X										
PNA-4	↓		0915	1	bt	X										
PNA-5	↓		0920	1	bt	X										

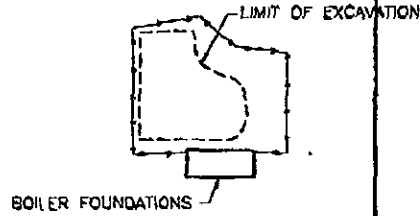
BTX & TPH as Gasoline (602/8020 & 8015)	
THP as Diesel (8015)	
Total Petroleum Oil & Grease (5520 EAF/5520 BAF)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601/8010	
EPA 602/8020	
EPA 608/8080	
EPA 608/8080 - PCBs Only	
EPA 624/8240/8260	
EPA 625/8270	
CAM - 17 Metals	
EPA - Priority Pollutant Metals	
LEAD (7240/7421/239.2/6000)	
ORGANIC LEAD	
RC1	
PNA's	

COMMENTS

RELINQUISHED BY: <i>[Signature]</i>	DATE: 1/23/96	TIME: 1145	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY: <i>[Signature]</i>	DATE: 1/24/96	TIME: 1705	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY: <i>[Signature]</i>	DATE: 1/24/96	TIME: 1705	RECEIVED BY LABORATORY: <i>[Signature]</i>

REMARKS:

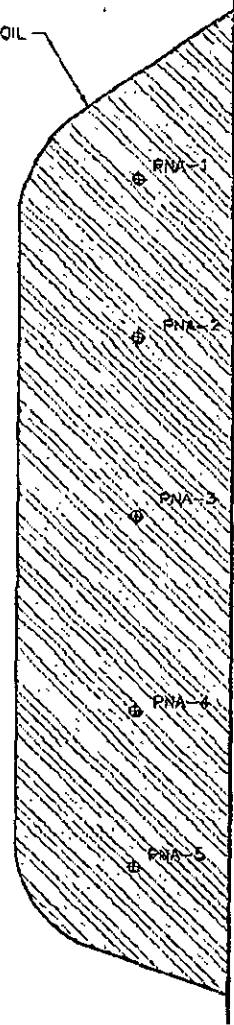




4th STREET

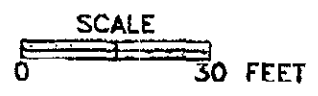
MADIGAN AVENUE


LIMIT OF SPREAD SOIL



**LEGEND**

- PNA-5 ⊕ SOIL SAMPLE LOCATION
- x- PORTABLE FENCING
- [Hatched Box] SPREAD SOIL



 <b>Environmental Science &amp; Engineering, Inc.</b>	DATE 1/30/96	<b>SITE PLAN WITH SOIL SAMPLE LOCATIONS</b>	FIGURE NO. <b>1</b>
	REVISED		ALAMEDA COUNTY GSA SANTA RITA CORRECTIONAL FACILITY DUBLIN, CALIFORNIA
4090 NELSON AVENUE, SUITE J CONCORD, CA 94520	CAD FILE 65601201		