

APPLIED ENVIRONMENTAL TECHNOLOGIES INC.

4561 Market St., Suite B • Ventura, CA 93003 • Phone: (805) 650-1400 Fax: (805) 650-1576

January 20, 2010
Ref. No. 0545-12A

Design and Construction Services
University of California
Santa Barbara, California 93106

Attention: Mr. Erich Brown

Re: Spoil Pile Screening, University of California Property, Goleta, California

Applied Environmental Technologies, Inc. (AET) conducted soil sampling in spoil piles at the University of California property at the intersection of Pacific Oaks Road and Marymount Way in Goleta, California. We were informed that approximately 1,600 cubic yards of soil had been dumped onto the property.

AET collected four (4) composite samples from the spoil piles. Each composite sample included 5 locations in the spoil piles. At 5 locations soil collected was composited into a single sample. The composite soil samples were analyzed for total recoverable petroleum hydrocarbons (TRPH), volatile organics (VOCs), semi-volatile organics, pesticides and PCBs, and total California priority metals.

No PCBs, VOCs or semi-volatile organics were detected in the soil samples. Total recoverable petroleum hydrocarbon concentrations ranged from 200 to 372 milligrams per kilogram (mg/kg). Various metals were identified in the soil samples. No concentrations of beryllium, selenium, silver or thallium were detected. Expected background concentrations of mercury, antimony, arsenic, barium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, vanadium and zinc were encountered. In one of the composite soil samples, the pesticide chlordane was identified with a total concentration of 4.54 micro grams per kilogram (parts per billion). A copy of the chemical analyses results is attached to this letter.

The concentrations of the various elements and compounds measured are either considered background or below actionable levels and are not expected to impact the surrounding area. We were informed that the soil will be mixed with a larger volume of soil for land filling purposes which will effectively further reduce concentrations.

In performing our professional services, AET has applied present engineering and scientific judgment and used a level of effort consistent with the standard of practice measured on the date of this report and in the locale of the project site for similar type studies. Applied Environmental Technologies, Inc., makes no warranty, expressed or implied, in fact or by law, whether of merchantability, fitness for any particular purpose, or otherwise, concerning any of the materials or "services" furnished by Applied Environmental Technologies, Inc., to the client.

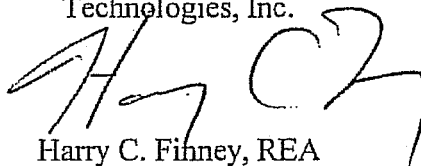
The analyses and interpretations in this report have been developed based on the review of existing information pertaining to the project site and limited subsurface testing. It should be recognized that subsurface contamination can vary laterally and with depth below a given site.

University of California Santa Barbara
Mr. Erich Brown

January 20, 2010
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Should you have any questions concerning this report, or if you require additional information, please do not hesitate to contact the undersigned at your earliest convenience.

Very truly yours,
Applied Environmental
Technologies, Inc.

A handwritten signature in black ink, appearing to read 'H. C. Finney', written over the typed name below.

Harry C. Finney, REA
Vice President

Attachment: Certified Laboratory Results



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2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

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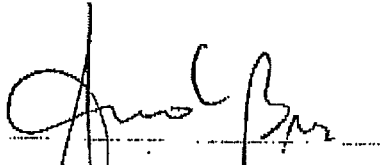
Number of Pages 16
 Date Received 01/15/2010
 Date Reported 01/19/2010

Telephone (805) 650-1400
 Attn Harry Finney

Job Number	Ordered	Client
44424	01/15/2010	AET

Project ID: 0545-12A
 Project Name: UCSB

Enclosed are the results of analyses on 4 samples analyzed as specified on attached chain of custody.


 Amolk MOLKY Brar
 Laboratory Manager

 Rojert G. Araghi
 Laboratory Director

American Scientific Laboratories, LLC (ASL) accepts sample materials from clients for analysis with the assumption that all of the information provided to ASL, verbally or in writing by our clients (and/or their agents), regarding samples being submitted to ASL, is complete and accurate. ASL accepts all samples subject to the following conditions:

- 1) ASL is not responsible for verifying any client-provided information regarding any samples submitted to the laboratory.
- 2) ASL is not responsible for any consequences resulting from any inaccuracies, omissions, or misrepresentations contained in client-provided information regarding samples submitted to the laboratory.



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ANALYTICAL RESULTS

Ordered By

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 Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

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Project ID: 0545-12A

Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 418.1, TRPH

QC Batch No: 011810-1

Our Lab I.D.	247514	247515	247516	247517
Client Sample I.D.	C-1	C-2	C-3	C-4
Date Sampled	01/15/2010	01/15/2010	01/15/2010	01/15/2010
Date Prepared	01/15/2010	01/15/2010	01/15/2010	01/15/2010
Preparation Method				
Date Analyzed	01/18/2010	01/18/2010	01/18/2010	01/18/2010
Matrix	Soil	Soil	Soil	Soil
Units	mg/kg	mg/kg	mg/kg	mg/kg
Dilution Factor	1	1	1	1
Analytes	PQL	Results	Results	Results
Total Recoverable Petroleum Hydrocarbons	10.0	296	372	224

QUALITY CONTROL REPORT

QC Batch No: 011810-1

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Total Recoverable Petroleum Hydrocarbons	102	102	<1	70-130	15



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ANALYTICAL RESULTS

Ordered By

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Telephone: (805)650-1400

Attn: Harry Finney

Page: 3

Project ID: 0545-12A

Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 6010B/7471A, CCR Title 22 Metals (TTLIC)

QC Batch No: 011510-4

Our Lab I.D.		247514	247515	247516	247517
Client Sample I.D.		C-1	C-2	C-3	C-4
Date Sampled		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Date Prepared		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Preparation Method					
Date Analyzed		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Matrix		Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
AA Metals					
Mercury	0.0500	0.171	0.384	0.355	0.126
ICP Metals					
Antimony	0.500	1.62	1.63	1.02	0.836
Arsenic	0.250	4.17	3.56	4.70	4.00
Barium	0.500	110	123	112	97.3
Beryllium	0.500	ND	ND	ND	ND
Cadmium	0.500	1.14	1.10	1.24	0.950
Chromium	0.500	24.8	26.8	24.5	20.8
Cobalt	0.500	5.90	5.98	6.66	6.43
Copper	0.500	13.0	11.9	14.3	11.4
Lead	0.250	6.69	6.33	6.92	6.75
Molybdenum	0.500	1.23	1.37	1.46	0.908
Nickel	0.500	28.6	33.6	32.7	26.5
Selenium	0.500	ND	ND	ND	ND
Silver	0.500	ND	ND	ND	ND
Thallium	0.500	ND	ND	ND	ND
Vanadium	0.500	30.7	28.1	32.3	26.7
Zinc	0.500	51.0	43.5	48.0	38.0

QUALITY CONTROL REPORT

QC Batch No: 011610-4

Analytes	LCS % REC	LCS/LCSD % Limit						
AA Metals								
Mercury	109	80-120						
ICP Metals								
Antimony	90	80-120						
Arsenic	91	80-120						



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ANALYTICAL RESULTS

Page: 4
 Project ID: 0545-12A
 Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 6010B/7471A, CCR Title 22 Metals (TTLIC)

QUALITY CONTROL REPORT

QC Batch No: 011510-4

Analytes	LOS % REC	LCS/LCSD % Limit							
ICP Metals									
Barium	100	80-120							
Beryllium	96	80-120							
Cadmium	91	80-120							
Chromium	91	80-120							
Cobalt	93	80-120							
Copper	94	80-120							
Lead	93	80-120							
Molybdenum	91	80-120							
Nickel	94	80-120							
Selenium	91	80-120							
Silver	90	80-120							
Thallium	94	80-120							
Vanadium	90	80-120							
Zinc	97	80-120							



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ANALYTICAL RESULTS

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Attn: Harry Finney

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Project ID: 0545-12A

Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8081A, Organochlorine Pesticides

QC Batch No: 011510-1

Our Lab I.D.					
Client Sample I.D.	247514	247515	247516	247517	
Date Sampled	C-1	C-2	C-3	C-4	
Date Prepared	01/15/2010	01/15/2010	01/15/2010	01/15/2010	
Preparation Method	01/15/2010	01/15/2010	01/15/2010	01/15/2010	
Date Analyzed	01/15/2010	01/15/2010	01/15/2010	01/15/2010	
Matrix	Soil	Soil	Soil	Soil	
Units	ug/kg	ug/kg	ug/kg	ug/kg	
Dilution Factor	1	1	1	1	
Analytes	PQL	Results	Results	Results	Results
Aldrin	2.00	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.00	ND	ND	ND	ND
Beta-Hexachlorocyclohexane (Beta-BHC)	2.00	ND	ND	ND	ND
Gamma-Chlordane	2.00	ND	ND	2.52	ND
alpha-Chlordane	2.00	ND	ND	2.02	ND
4,4'-DDD (DDD)	4.00	ND	ND	ND	ND
4,4'-DDE (DDE)	4.00	ND	ND	ND	ND
4,4'-DDT (DDT)	4.00	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	2.00	ND	ND	ND	ND
Dieldrin	4.00	ND	ND	ND	ND
Endosulfan I	2.00	ND	ND	ND	ND
Endosulfan II	4.00	ND	ND	ND	ND
Endosulfan sulfate	4.00	ND	ND	ND	ND
Endrin	4.00	ND	ND	ND	ND
Endrin aldehyde	4.00	ND	ND	ND	ND
Endrin ketone	4.00	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.00	ND	ND	ND	ND
Heptachlor	2.00	ND	ND	ND	ND
Heptachlor epoxide	2.00	ND	ND	ND	ND
Methoxychlor	17.0	ND	ND	ND	ND
Toxaphene	170	ND	ND	ND	ND

Our Lab I.D.					
Surrogates	% Rec. Limit	247514	247515	247516	247517
Surrogate Percent Recovery		% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	43-169	101	85	87	93



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ANALYTICAL RESULTS

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 Project ID: 0545-12A
 Project Name: UCSB

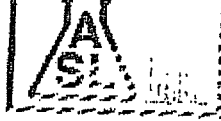
ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8081A, Organochlorine Pesticides

QUALITY CONTROL REPORT

QC Batch No: 011510-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit				
Aldrin	101	104	2.9	42-122	<30				
4,4'-DDT (DDT)	117	119	1.7	25-160	<30				
Dieldrin	120	124	3.3	36-146	<30				
Endrin	115	123	6.7	30-147	<30				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	118	126	6.6	32-127	<30				
Heptachlor	119	120	<1	34-111	<30				



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ANALYTICAL RESULTS

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Project ID: 0545-12A

Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8082, Polychlorinated Biphenyls(PCBs) by Gas Chromatography

QC Batch No: 011510-1

Our Lab I.D.	Client Sample I.D.	247514	247515	247516	247517
		C-1	C-2	C-3	C-4
Date Sampled		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Date Prepared		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Preparation Method					
Date Analyzed		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Matrix		Soil	Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg	ug/kg
Dilution Factor		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	33.0	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	67.0	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	33.0	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	33.0	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	33.0	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	33.0	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	33.0	ND	ND	ND	ND

Our Lab I.D.		247514	247515	247516	247517
Surrogates	% Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.
Surrogate Percent Recovery					
Decachlorobiphenyl	43-169	101	85	87	93

QUALITY CONTROL REPORT

QC Batch No: 011510-1

Analytes	MS	MS DUP	RPD	MS/MSD	MS RPD	LCS	LCS DUP	LOS RPD	LCS/LOSD	LCS RPD
	% REC	% REC	%	% Limit	% Limit	% REC	% REC	% REC	% Limit	% Limit
Aroclor-1260 (PCB-1260)	99	90	9.5	39-150	<30	98	99	1.0	39-150	<30



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ANALYTICAL RESULTS

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Attn: Harry Finney

Page: 8

Project ID: 0545-12A

Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8260B, Volatile Organic Compounds

QC Batch No: 011510-1C

Our Lab I.D.		247514	247515	247516	247517
Client Sample I.D.		C-1	C-2	C-3	C-4
Date Sampled		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Date Prepared		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Preparation Method					
Date Analyzed		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Matrix		Soil	Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg	ug/kg
Dilution Factor		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Acetone	50.0	ND	ND	ND	ND
Benzene	2.00	ND	ND	ND	ND
Bromobenzene (Phenyl bromide)	10.0	ND	ND	ND	ND
Bromochloromethane (Chlorobromomethane)	10.0	ND	ND	ND	ND
Bromodichloromethane (Dichlorobromomethane)	10.0	ND	ND	ND	ND
Bromoform (Tribromomethane)	50.0	ND	ND	ND	ND
Bromomethane (Methyl bromide)	30.0	ND	ND	ND	ND
2-Butanone (MEK, Methyl ethyl ketone)	50.0	ND	ND	ND	ND
n-Butylbenzene	10.0	ND	ND	ND	ND
sec-Butylbenzene	10.0	ND	ND	ND	ND
tert-Butylbenzene	10.0	ND	ND	ND	ND
Carbon disulfide	10.0	ND	ND	ND	ND
Carbon tetrachloride (Tetrachloromethane)	10.0	ND	ND	ND	ND
Chlorobenzene	10.0	ND	ND	ND	ND
Chloroethane	30.0	ND	ND	ND	ND
2-Chloroethyl vinyl ether	50.0	ND	ND	ND	ND
Chloroform (Trichloromethane)	10.0	ND	ND	ND	ND
Chloromethane (Methyl chloride)	30.0	ND	ND	ND	ND
4-Chlorotoluene (p-Chlorotoluene)	10.0	ND	ND	ND	ND
2-Chlorotoluene (o-Chlorotoluene)	10.0	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane (DBCP)	50.0	ND	ND	ND	ND
Dibromochloromethane	10.0	ND	ND	ND	ND
1,2-Dibromoethane (EDB, Ethylene dibromide)	10.0	ND	ND	ND	ND
Dibromomethane	10.0	ND	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	10.0	ND	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	10.0	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	10.0	ND	ND	ND	ND
Dichlorodifluoromethane	30.0	ND	ND	ND	ND
1,1-Dichloroethane	10.0	ND	ND	ND	ND



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ANALYTICAL RESULTS

Page: 9
 Project ID: 0545-12A
 Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8260B, Volatile Organic Compounds

QC Batch No: 011510-1C

Our Lab I.D.	Client Sample I.D.	247514	247515	247516	247517
		C-1	C-2	C-3	C-4
Date Sampled		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Date Prepared		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Preparation Method					
Date Analyzed		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Matrix		Soil	Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg	ug/kg
Dilution Factor		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
1,2-Dichloroethane	10.0	ND	ND	ND	ND
1,1-Dichloroethene (1,1-Dichloroethylene)	10.0	ND	ND	ND	ND
cis-1,2-Dichloroethene	10.0	ND	ND	ND	ND
trans-1,2-Dichloroethene	10.0	ND	ND	ND	ND
1,2-Dichloropropane	10.0	ND	ND	ND	ND
1,3-Dichloropropane	10.0	ND	ND	ND	ND
2,2-Dichloropropane	10.0	ND	ND	ND	ND
1,1-Dichloropropane	10.0	ND	ND	ND	ND
cis-1,3-Dichloropropene	10.0	ND	ND	ND	ND
trans-1,3-Dichloropropene	10.0	ND	ND	ND	ND
Ethylbenzene	2.00	ND	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	30.0	ND	ND	ND	ND
2-Hexanone	50.0	ND	ND	ND	ND
Isopropylbenzene	10.0	ND	ND	ND	ND
p-Isopropyltoluene (4-Isopropyltoluene)	10.0	ND	ND	ND	ND
MTBE	5.00	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK, Methyl isobutyl ketone)	50.0	ND	ND	ND	ND
Methylene chloride (Dichloromethane, DCM)	50.0	ND	ND	ND	ND
Naphthalene	10.0	ND	ND	ND	ND
n-Propylbenzene	10.0	ND	ND	ND	ND
Styrene	10.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	10.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	10.0	ND	ND	ND	ND
Tetrachloroethene (Tetrachloroethylene)	10.0	ND	ND	ND	ND
Toluene (Methyl benzene)	2.00	ND	ND	ND	ND
1,2,3-Trichlorobenzene	10.0	ND	ND	ND	ND
1,2,4-Trichlorobenzene	10.0	ND	ND	ND	ND
1,1,1-Trichloroethane	10.0	ND	ND	ND	ND
1,1,2-Trichloroethane	10.0	ND	ND	ND	ND
Trichloroethene (TCE)	10.0	ND	ND	ND	ND
Trichlorofluoromethane	10.0	ND	ND	ND	ND
1,2,3-Trichloropropane	10.0	ND	ND	ND	ND
1,2,4-Trimethylbenzene	10.0	ND	ND	ND	ND
1,3,5-Trimethylbenzene	10.0	ND	ND	ND	ND
Vinyl acetate	50.0	ND	ND	ND	ND



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ANALYTICAL RESULTS

Page: 10
 Project ID: 0545-12A
 Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8260B, Volatile Organic Compounds

QC Batch No: 011510-1C

Our Lab I.D.		247514	247515	247516	247517
Client Sample I.D.		C-1	C-2	C-3	C-4
Date Sampled		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Date Prepared		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Preparation Method					
Date Analyzed		01/15/2010	01/15/2010	01/15/2010	01/15/2010
Matrix		Soil	Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg	ug/kg
Dilution Factor		1	1	1	1
Analytes	PQL	Results	Results	Results	Results
Vinyl chloride (Chloroethene)	30.0	ND	ND	ND	ND
o-Xylene	2.00	ND	ND	ND	ND
m- & p-Xylenes	4.00	ND	ND	ND	ND

Our Lab I.D.		247514	247515	247516	247517
Surrogates	% Rec. Limit	% Rec.	% Rec.	% Rec.	% Rec.
Surrogate Percent Recovery					
Bromofluorobenzene	70-120	111	112	108	108
Dibromofluoromethane	70-120	102	102	104	102
Toluene-d8	70-120	91	89	86	72

QUALITY CONTROL REPORT

QC Batch No: 011510-1C

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	114	104	9.2	75-120	15
Chlorobenzene	100	102	2.0	75-120	15
1,1-Dichloroethene (1,1-Dichloroethylene)	118	118	<1	75-120	15
MTBE	114	116	1.7	75-120	15
Toluene (Methyl benzene)	80	77	3.8	75-120	15
Trichloroethene (TCE)	90	82	9.3	75-120	15



AMERICAN SCIENTIFIC LABORATORIES, LLC

Environmental Testing Services

2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (823) 223-9700 Fax: (823) 223-9500

ANALYTICAL RESULTS

Ordered By

Applied Enviro. Technologies, Inc.
4561 Market St., Suite B
Ventura, CA 93003

Telephone: (805)650-1400

Attn: Harry Finney

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Project ID: 0545-12A

Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8270C, Semivolatile Organics

QC Batch No: 011510-1

Our Lab I.D.	Client Sample I.D.	Date Sampled	Date Prepared	Preparation Method	Date Analyzed	Matrix	Units	Dilution Factor
	247517		01/15/2010		01/15/2010	Soil	ug/kg	1
	C-4							
Analytes	PQL	Results						
Accnaphthene	330	ND						
Accnaphthylene	330	ND						
Anthracene	330	ND						
Benz(a)anthracene (Benzo(a)anthracene)	330	ND						
Benzo(a)pyrene	330	ND						
Benzo(b)fluoranthene	330	ND						
Benzo(ghi)perylene	330	ND						
Benzo(k)fluoranthene	330	ND						
Benzoic acid	1700	ND						
Benzyl alcohol	660	ND						
Bis(2-chloroethoxy)methane	330	ND						
Bis(2-chloroethyl)ether	330	ND						
Bis(2-chloroisopropyl) ether	330	ND						
Bis(2-ethylhexyl) phthalate	330	ND						
4-Bromophenyl phenyl ether	330	ND						
Butyl benzyl phthalate (Benzyl butyl phthalate)	330	ND						
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	660	ND						
4-Chloroaniline	660	ND						
2-Chloronaphthalene	330	ND						
2-Chlorophenol (o-Chlorophenol)	330	ND						
4-Chlorophenyl phenyl ether	330	ND						
Chrysene	330	ND						
Di-n-butyl phthalate	330	ND						
Di-n-octyl phthalate (Diocetyl ester)	330	ND						
Dibenz(a,h)anthracene	330	ND						
Dibenzofuran	330	ND						
1,3-Dichlorobenzene (m-Dichlorobenzene)	330	ND						
1,2-Dichlorobenzene (o-Dichlorobenzene)	330	ND						
1,4-Dichlorobenzene	330	ND						



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Environmental Testing Services

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ANALYTICAL RESULTS

Page: 12
Project ID: 0545-12A
Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8270C, Semivolatile Organics

QC Batch No: 011510-1

Our Lab I.D.		247517
Client Sample I.D.		C-4
Date Sampled		01/15/2010
Date Prepared		01/15/2010
Preparation Method		
Date Analyzed		01/15/2010
Matrix		Soil
Units		ug/kg
Dilution Factor		1
Analytes	PQL	Results
3,3'-Dichlorobenzidine	660	ND
2,4-Dichlorophenol	1700	ND
Diethyl phthalate (Diethyl ester)	330	ND
2,4-Dimethylphenol	330	ND
Dimethyl phthalate (Dimethyl ester)	330	ND
2,4-Dinitrophenol	1700	ND
2,4-Dinitrotoluene	330	ND
2,6-Dinitrotoluene (2,6-DNT)	330	ND
Fluoranthene	330	ND
Fluorene	330	ND
Hexachlorobenzene	330	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	330	ND
Hexachlorocyclopentadiene	660	ND
Hexachloroethane	330	ND
Indeno(1,2,3-cd)pyrene	330	ND
Isophorone	330	ND
2-methyl-4,6-Dinitrophenol	1700	ND
2-Methylnaphthalene	330	ND
2-Methylphenol (o-Cresol, 2-Cresol)	330	ND
4-Methylphenol (p-Cresol, 4-Cresol)	330	ND
N-Nitroso-Di-n-propylamine	330	ND
N-Nitrosodiphenylamine	330	ND
Naphthalene	330	ND
2-Nitroaniline	1700	ND
3-Nitroaniline	1700	ND
4-Nitroaniline	1700	ND
Nitrobenzene (NB)	330	ND
2-Nitrophenol (o-Nitrophenol)	330	ND
4-Nitrophenol	1700	ND
Pentachlorophenol	1700	ND
Phenanthrene	330	ND
Phenol	330	ND
Pyrene	330	ND
1,2,4-Trichlorobenzene	330	ND
2,4,5-Trichlorophenol	330	ND



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Environmental Testing Services

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ANALYTICAL RESULTS

Page: 13
 Project ID: 0545-12A
 Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8270C, Semivolatile Organics

QC Batch No: 011510-1

Our Lab I.D.	247517	
Client Sample I.D.	C-4	
Date Sampled	01/15/2010	
Date Prepared	01/15/2010	
Preparation Method		
Date Analyzed	01/15/2010	
Matrix	Soil	
Units	ug/kg	
Dilution Factor	1	
Analytes	PQL	Results
2,4,6-Trichlorophenol	330	ND

Our Lab I.D.	247517	
Surrogates	% Rec.Limit	% Rec.
Surrogate Percent Recovery		
2-Fluorophenol	21-105	63
Phenol-d6	10-107	65
2,4,6-Tribromophenol	10-123	82
Nitrobenzene-d5	35-114	69
2-Fluorobiphenyl	18-116	76
Terphenyl-d14	33-141	100

QUALITY CONTROL REPORT

QC Batch No: 011510-1

Analytes	LCS	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD
	% REC	% REC	% REC	% Limit	% Limit
Acenaphthene	86	100	15.1	43-118	<30
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	96	107	10.8	23-117	<30
2-Chlorophenol (o-Chlorophenol)	90	109	19.1	27-123	<30
1,4-Dichlorobenzene	68	86	23.4	36-105	<30
2,4-Dinitrotoluene	114	99	14.1	24-120	<30
N-Nitroso-Di-n-propylamine	81	107	27.7	41-116	<30
4-Nitrophenol	76	65	11.2	10-133	<30
Pentachlorophenol	86	82	4.8	9-118	<30
Phenol	69	83	18.4	12-110	<30
Pyrene	81	74	9.0	26-127	<30
1,2,4-Trichlorobenzene	63	74	16.1	39-98	<30



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ANALYTICAL RESULTS

Ordered By

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Telephone: (805)650-1400

Attn: Harry Finney

Page: 14

Project ID: 0545-12A

Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8270C, Semivolatile Organics

QC Batch No: 011510-1

Our Lab I.D.		247514	247515	247516
Client Sample I.D.		C-1	C-2	C-3
Date Sampled		01/15/2010	01/15/2010	01/15/2010
Date Prepared		01/15/2010	01/15/2010	01/15/2010
Preparation Method				
Date Analyzed		01/15/2010	01/15/2010	01/15/2010
Matrix		Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg
Dilution Factor		2	2	2
Analytes	PQL	Results	Results	Results
Acenaphthene	660	ND	ND	ND
Acenaphthylene	660	ND	ND	ND
Anthracene	660	ND	ND	ND
Benz(a)anthracene (Benzo(a)anthracene)	660	ND	ND	ND
Benzo(a)pyrene	660	ND	ND	ND
Benzo(b)fluoranthene	660	ND	ND	ND
Benzo(ghi)perylene	660	ND	ND	ND
Benzo(k)fluoranthene	660	ND	ND	ND
Benzoic acid	3400	ND	ND	ND
Benzyl alcohol	1320	ND	ND	ND
Bis(2-chloroethoxy)methane	660	ND	ND	ND
Bis(2-chloroethyl)ether	660	ND	ND	ND
Bis(2-chloroisopropyl) ether	660	ND	ND	ND
Bis(2-ethylhexyl) phthalate	660	ND	ND	ND
4-Bromophenyl phenyl ether	660	ND	ND	ND
Butyl benzyl phthalate (Benzyl butyl phthalate)	660	ND	ND	ND
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1320	ND	ND	ND
4-Chloroaniline	1320	ND	ND	ND
2-Chloronaphthalene	660	ND	ND	ND
2-Chlorophenol (o-Chlorophenol)	660	ND	ND	ND
4-Chlorophenyl phenyl ether	660	ND	ND	ND
Chrysene	660	ND	ND	ND
Di-n-butyl phthalate	660	ND	ND	ND
Di-n-octyl phthalate (Diocetyl ester)	660	ND	ND	ND
Dibenz(a,h)anthracene	660	ND	ND	ND
Dibenzofuran	660	ND	ND	ND
1,3-Dichlorobenzene (m-Dichlorobenzene)	660	ND	ND	ND
1,2-Dichlorobenzene (o-Dichlorobenzene)	660	ND	ND	ND
1,4-Dichlorobenzene	660	ND	ND	ND



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ANALYTICAL RESULTS

Page: 15
 Project ID: 0545-12A
 Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8270C, Semivolatile Organics

QC Batch No: 011510-1

Our Lab I.D.		247514	247515	247516
Client Sample I.D.		C-1	C-2	C-3
Date Sampled		01/15/2010	01/15/2010	01/15/2010
Date Prepared		01/15/2010	01/15/2010	01/15/2010
Preparation Method				
Date Analyzed		01/15/2010	01/15/2010	01/15/2010
Matrix		Soil	Soil	Soil
Units		ug/kg	ug/kg	ug/kg
Dilution Factor		2	2	2
Analytes	PQL	Results	Results	Results
3,3'-Dichlorobenzidine	1320	ND	ND	ND
2,4-Dichlorophenol	3400	ND	ND	ND
Diethyl phthalate (Diethyl ester)	660	ND	ND	ND
2,4-Dimethylphenol	660	ND	ND	ND
Dimethyl phthalate (Dimethyl ester)	660	ND	ND	ND
2,4-Dinitrophenol	3400	ND	ND	ND
2,4-Dinitrotoluene	660	ND	ND	ND
2,6-Dinitrotoluene (2,6-DNT)	660	ND	ND	ND
Fluoranthene	660	ND	ND	ND
Fluorene	660	ND	ND	ND
Hexachlorobenzene	660	ND	ND	ND
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	660	ND	ND	ND
Hexachlorocyclopentadiene	1320	ND	ND	ND
Hexachloroethane	660	ND	ND	ND
Indeno(1,2,3-cd)pyrene	660	ND	ND	ND
Isophorone	660	ND	ND	ND
2-methyl-4,6-Dinitrophenol	3400	ND	ND	ND
2-Methylnaphthalene	660	ND	ND	ND
2-Methylphenol (o-Cresol, 2-Cresol)	660	ND	ND	ND
4-Methylphenol (p-Cresol, 4-Cresol)	660	ND	ND	ND
N-Nitroso-Di-n-propylamine	660	ND	ND	ND
N-Nitrosodiphenylamine	660	ND	ND	ND
Naphthalene	660	ND	ND	ND
2-Nitroaniline	3400	ND	ND	ND
3-Nitroaniline	3400	ND	ND	ND
4-Nitroaniline	3400	ND	ND	ND
Nitrobenzene (NB)	660	ND	ND	ND
2-Nitrophenol (o-Nitrophenol)	660	ND	ND	ND
4-Nitrophenol	3400	ND	ND	ND
Pentachlorophenol	3400	ND	ND	ND
Phenanthrene	660	ND	ND	ND
Phenol	660	ND	ND	ND
Pyrene	660	ND	ND	ND
1,2,4-Trichlorobenzene	660	ND	ND	ND
2,4,5-Trichlorophenol	660	ND	ND	ND



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Environmental Testing Services

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ANALYTICAL RESULTS

Page: 16
 Project ID: 0545-12A
 Project Name: UCSB

ASL Job Number	Submitted	Client
44424	01/15/2010	AET

Method: 8270C, Semivolatile Organics

QC Batch No: 011510-1

Our Lab I.D.		247514	247515	247516	
Client Sample I.D.		C-1	C-2	C-3	
Date Sampled		01/15/2010	01/15/2010	01/15/2010	
Date Prepared		01/15/2010	01/15/2010	01/15/2010	
Preparation Method					
Date Analyzed		01/15/2010	01/15/2010	01/15/2010	
Matrix		Soil	Soil	Soil	
Units		ug/kg	ug/kg	ug/kg	
Dilution Factor		2	2	2	
Analytes	PQL	Results	Results	Results	
2,4,6-Trichlorophenol	660	ND	ND	ND	

Comment(s):

Elevated PQLs due to matrix.

Our Lab I.D.		247514	247515	247516	
Surrogates	% Rec.Limit	% Rec.	% Rec.	% Rec.	
Surrogate Percent Recovery					
2-Fluorophenol	21-105	64	70	62	
Phenol-d6	10-107	58	56	64	
2,4,6-Tribromophenol	10-123	79	89	83	
Nitrobenzene-d5	35-114	72	80	71	
2-Fluorobiphenyl	18-116	89	90	80	
Terphenyl-d14	33-141	100	107	101	

QUALITY CONTROL REPORT

QC Batch No: 011510-1

Analytes	LCS	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD				
	% REC	% REC	% REC	% Limit	% Limit				
Acenaphthene	86	100	15.1	43-118	<30				
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	96	107	10.8	23-117	<30				
2-Chlorophenol (o-Chlorophenol)	90	109	19.1	27-123	<30				
1,4-Dichlorobenzene	68	86	23.4	36-105	<30				
2,4-Dinitrotoluene	114	99	14.1	24-120	<30				
N-Nitroso-Di-n-propylamine	81	107	27.7	41-116	<30				
4-Nitrophenol	76	85	11.2	10-133	<30				
Pentachlorophenol	86	82	4.8	9-118	<30				
Phenol	69	83	18.4	12-110	<30				
Pyrene	81	74	9.0	26-127	<30				
1,2,4-Trichlorobenzene	63	74	16.1	39-98	<30				