AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

LARWQCB
320 W. 4th St.
L.A., CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 6
Date Received 09/02/2009
Date Reported 09/11/2009

Job Number	Ordered	Client
42964	09/02/2009	LARWQB

Project ID: BOEING SSFL
Project Name:
Site: Top Woolsey Cyn Road

Enclosed are the results of analyses on 2 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
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CHAIN OF CUSTODY RECORD

COC# N2 52127 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 42964

Company: LA RWQCB		Report To: PETER RAFTERY	ANALYSIS REQUESTED
Address: 320 W. 4TH ST.	Project Name: ISRA 008 BOEING SSFL	Address: 320 W. 4TH. ST.	LEAD 6010/6020 COPPER 6010/6020
LA CA 90013	Site Address: OUT FALL 008 TOP LOOKSEY CYN RD,	Invoice To: ART LENOX Boeing SSFL	
Telephone: 213 576 6724 Fax: 213 576 6717		Address: /	
Special Instruction:	Project ID:		
E-mail:	Project Manager: PETER RAFTERY	P.O.#:	

ITEM	LAB USE ONLY Lab ID	SAMPLE DESCRIPTION Sample ID	Date	Time	Container(s) #	Type	Matrix	Preservation	LEAD 6010/6020	COPPER 6010/6020	Remarks
	241229	HZET0300 S001-RWQCB	1SEPT.09	11 50		GRAB STAINLESS SLEEVE	Soil	ICE	X	X	
	241230	HZET0301 S001-RWQCB	1SEPT09	11 38		STAINLESS SLEEVE GRAB	Soil	ICE	X	X	

Collected By: [illegible]	Date 9/1/09	Time 1200	Relinquished By: Peter Rafftery	Date 2 Sept.09	Time 9 20 A
Relinquished By: [illegible]	Date 9/1/09	Time 1200	Received For Laboratory Janet Chin	Date 9.2 09	Time 9 20
Received By: Peter Rafftery	Date 1 Sept 09	Time 12 00	Condition of Sample:		

TAT ☑ Normal ☐ Rush

White - Report Yellow - Laboratory Pink - Client

AMERICAN SCIENTIFIC LABORATORIES, LLC
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ANALYTICAL RESULTS

Ordered By

LARWQCB
320 W. 4th St.
L.A., CA 90013-

Telephone: (213)576-6724
Attn: Peter Raftery

Site

Top Woolsey Cyn Road

Page: **2**

Project ID: BOEING SSFL

ASL Job Number	Submitted	Client
42964	09/02/2009	LARWQB

Method: 6010B, Copper (ICP)

QC Batch No: 090809-1

Our Lab I.D.		241229	241230			
Client Sample I.D.		HZET 0300 S001-RWQCB	HZET 0301 S001-RWQCB			
Date Sampled		09/01/2009	09/01/2009			
Date Prepared		09/08/2009	09/08/2009			
Preparation Method						
Date Analyzed		09/09/2009	09/09/2009			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	**PQL**	**Results**	**Results**			
ICP Metals						
Copper	0.500	579	3.58			

QUALITY CONTROL REPORT

QC Batch No: 090809-1

Analytes	LCS % REC	LCS/LCSD % Limit								
ICP Metals										
Copper	97	80-120								

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ANALYTICAL RESULTS

Ordered By

LARWQCB
320 W. 4th St.
L.A., CA 90013-

Telephone: (213)576-6724
Attn: Peter Raftery

Site

Top Woolsey Cyn Road

Page: **3**

Project ID: BOEING SSFL

ASL Job Number	Submitted	Client
42964	09/02/2009	LARWQB

Method: 6010B, Lead (ICP)

QC Batch No: 090809-1

Our Lab I.D.		241229	241230			
Client Sample I.D.		HZET 0300 S001-RWQCB	HZET 0301 S001-RWQCB			
Date Sampled		09/01/2009	09/01/2009			
Date Prepared		09/08/2009	09/08/2009			
Preparation Method						
Date Analyzed		09/09/2009	09/09/2009			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	**PQL**	**Results**	**Results**			
ICP Metals						
Lead	0.250	44.7	3.44			

QUALITY CONTROL REPORT

QC Batch No: 090809-1

Analytes	LCS % REC	LCS/LCSD % Limit								
ICP Metals										
Lead	97	80-120								

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CHAIN OF CUSTODY RECORD

9F02042

Page 1 Of 1

CLIENT NAME: American Scientific Labs.

ADDRESS: 2520 N. San Fernando Road L.A. CA 90065

PROJECT MANAGER: Molky Brar

SAMPLER:

PROJECT: 42964

PHONE #: 323 223 9700

FAX #: 323 223 9500

E MAIL: molky@asllab.com

P.O.#:

ANALYSIS REQUESTED

Cu & Pb by Conc (ICP/MS)

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48 - 72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extraction 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Package

Charges Will Apply For Weekends And Holidays

Method of Shipment _____

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Cu & Pb by Conc (ICP/MS)	COMMENTS
	9-1-09		soil	241229	1 Jar	x x	
	"		"	241230	"	x x	

RELINQUISHED BY:		DATE / TIME	RECEIVED BY:	
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
Alex	Alex	9/2/09 1350	Jaime Gomez	
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME

SAMPLE CONDITION:

Actual Temperature: 6.3°C

Received On Ice (Y) N

Preserved Y / (N)

Evidence Seals Present Y / (N)

Container Attacked Y / (N)

Preserved at Lab Y / (N)

SAMPLE TYPE CODE:

AQ= Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

Certificate of Analysis

Report Date: Wednesday, September 9, 2009
Received Date: Wednesday, September 2, 2009
Received Time: 1:50 pm
Turnaround Time: Normal

Client: American Scientific Laboratories
2520 N. San Fernando Road
Los Angeles, CA 90065-1324

Attn: Molky Brar
Project: 42964

Phones: (323) 223-9700
Fax: (323) 223-9500

P.O. #:

Lab Sample ID: 9I02042-01 **Sample ID:** 241229 **Matrix:** Solid
Sampled by: Client **Sampled:** 09/01/09 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	430	0.061	2.0	mg/kg	1x1	EPA 6020	9/3/09	9/9/09 1:31	W9I0295	
Lead, Total	70	0.11	1.0	mg/kg	1x1	EPA 6020B	9/3/09	9/9/09 1:31	W9I0295	

Lab Sample ID: 9I02042-02 **Sample ID:** 241230 **Matrix:** Solid
Sampled by: Client **Sampled:** 09/01/09 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	4.8	0.061	2.0	mg/kg	1x1	EPA 6020	9/3/09	9/9/09 1:36	W9I0295	
Lead, Total	4.5	0.11	1.0	mg/kg	1x1	EPA 6020B	9/3/09	9/9/09 1:36	W9I0295	

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Certificate of Analysis

Quality Control Section

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

Batch W9I0295 - EPA 6020

Blank (W9I0295-BLK1) — **Prepared: 09/03/09 Analyzed: 09/09/09 01:04**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		ND		mg/kg					
Lead, Total		ND		mg/kg					

LCS (W9I0295-BS1) — **Prepared: 09/03/09 Analyzed: 09/09/09 01:09**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		54.3		mg/kg	50.0	109	87-117		
Lead, Total		51.0		mg/kg	50.0	102	80-127		

LCS Dup (W9I0295-BSD1) — **Prepared: 09/03/09 Analyzed: 09/09/09 01:13**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		54.3		mg/kg	50.0	109	87-117	0.02	20
Lead, Total		50.9		mg/kg	50.0	102	80-127	0.2	20

Matrix Spike (W9I0295-MS1) — **Source: 9H27049-01** — **Prepared: 09/03/09 Analyzed: 09/09/09 01:41**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		77.2		mg/kg	48.5	159	68-127		
Lead, Total		56.7		mg/kg	48.5	117	75-130		

Matrix Spike Dup (W9I0295-MSD1) — **Source: 9H27049-01** — **Prepared: 09/03/09 Analyzed: 09/09/09 01:45**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		77.5		mg/kg	47.1	165	68-127	0.5	20
Lead, Total		54.5		mg/kg	47.1	116	75-130	4	20

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Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as "a x b"
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 4
Date Received 09/16/2009
Date Reported 09/28/2009

Job Number	Ordered	Client
43106	09/16/2009	LARWQB

Project ID: BOEING SSFL ISRA 008
Project Name:
Site: 5800 Woolsey Cyn Dr.

Enclosed are the results of analyses on 2 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

COC# No 52131 GLOBAL ID ____________ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43106

Company: [illegible] Water Quality Control		Report To: Peter Raftery
Address: 320 [illegible]	Project Name: Boeing SSFL 15120008	Address: 320 W. 4th St. L.A. CA 90013
[illegible] 10013	Site Address: 5800 Woolsey Cyn Rd.	Invoice To: Boeing
Telephone: Fax: 213 [illegible]		Address: 5800 Woolsey Cyn Rd.
Special Instruction:	Project ID:	
E-mail: PRAFTERY@[illegible].GOV	Project Manager:	P.O.#:

ANALYSIS REQUESTED: Copper, Lead 6020

ITEM	Lab ID	Sample ID	Date	Time	#	Type	Matrix	Preservation	Copper, Lead 6020	Remarks
	241856	[illegible]0302900/ [illegible]RCB	15Sept09	0900	1	Stainless Soil Sleeve	Soil	ICE	X	
	241857	[illegible]0302900/ [illegible]RCB	15Sept09	0915	1	Stainless Soil Sleeve	Soil	ICE	X	

Collected By: [illegible]	Date 9/15/09 Time 0923	Relinquished By: [illegible]	Date 16 Sept 09 Time 850
Relinquished By: [illegible]	Date [illegible] Time 0923	Received For Laboratory: [signature]	Date 9/16/09 Time 8:50
Received By: [signature]	Date 15Sept09 Time 923	Condition of Sample:	

TAT: ☒ Normal ☐ Rush

White – Report Yellow – Laboratory Pink – Client

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CHAIN OF CUSTODY RECORD

9F16028

Page 1 Of 1

CLIENT NAME: American Scientific labs.

ADDRESS: 2520 N. San Fernando Road L.A. CA 90065

PROJECT MANAGER: Molky Brar

SAMPLER:

PROJECT: 43106

PHONE #: 323 223 9700

FAX #: 323 223 9500

E MAIL: molky@asllab.com

P.O.#:

ANALYSIS REQUESTED: Cu & PB by ICP/MS

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48 - 72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extraction 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Package

Charges Will Apply For Weekends And Holidays

Method of Shipment _____

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	COMMENTS
	9-15-09		soil	241856	1 Jar	X
	9-15-09		"	241857	"	X

RELINQUISHED BY:		DATE / TIME	RECEIVED BY:	
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
[signature]	Alex	9/16/09 13:30	[signature]	9/16/09 13:50
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME

SAMPLE CONDITION:

Actual Temperature: 7.2°C

Received On Ice	(Y)	N
Preserved	Y	(N)
Evidence Seals Present	Y	(N)
Container Attacked	Y	(N)
Preserved at Lab	Y	(N)

SAMPLE TYPE CODE:

AQ = Aqueous
NA = Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

Certificate of Analysis

Report Date: Friday, September 18, 2009
Received Date: Wednesday, September 16, 2009
Received Time: 1:30 pm
Turnaround Time: Normal

Client: American Scientific Laboratories
2520 N. San Fernando Road
Los Angeles, CA 90065-1324

Attn: Molky Brar
Project: 43106

Phones: (323) 223-9700
Fax: (323) 223-9500

P.O. #:

Lab Sample ID: 9I16028-01 **Sample ID:** 241856 **Matrix:** Solid
Sampled by: Client **Sampled:** 09/15/09 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	48	0.061	2.0	mg/kg	1x1	EPA 6020	9/16/09	9/18/09 15:24	W9I0631	
Lead, Total	24	0.11	1.0	mg/kg	1x1	EPA 6020B	9/16/09	9/18/09 15:24	W9I0631	

Lab Sample ID: 9I16028-02 **Sample ID:** 241857 **Matrix:** Solid
Sampled by: Client **Sampled:** 09/15/09 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	16	0.061	2.0	mg/kg	1x1	EPA 6020	9/16/09	9/18/09 15:29	W9I0631	
Lead, Total	9.9	0.11	1.0	mg/kg	1x1	EPA 6020B	9/16/09	9/18/09 15:29	W9I0631	

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Certificate of Analysis

Quality Control Section

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

Batch W9I0631 - EPA 6020

Blank (W9I0631-BLK1) — **Prepared: 09/16/09 Analyzed: 09/18/09 14:07**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		ND		mg/kg					
Lead, Total		ND		mg/kg					

LCS (W9I0631-BS1) — **Prepared: 09/16/09 Analyzed: 09/18/09 14:12**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		55.3		mg/kg	50.0	111	87-117		
Lead, Total		51.1		mg/kg	50.0	102	80-127		

LCS Dup (W9I0631-BSD1) — **Prepared: 09/16/09 Analyzed: 09/18/09 14:16**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		54.8		mg/kg	50.0	110	87-117	1	20
Lead, Total		50.4		mg/kg	50.0	101	80-127	1	20

Matrix Spike (W9I0631-MS1) — **Source: 9I16026-01** — **Prepared: 09/16/09 Analyzed: 09/18/09 15:33**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total	5.66	56.5		mg/kg	49.5	103	68-127		
Lead, Total	2.51	52.1		mg/kg	49.5	100	75-130		

Matrix Spike Dup (W9I0631-MSD1) — **Source: 9I16026-01** — **Prepared: 09/16/09 Analyzed: 09/18/09 15:38**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total	5.66	56.1		mg/kg	47.6	106	68-127	0.7	20
Lead, Total	2.51	51.9		mg/kg	47.6	104	75-130	0.4	20

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Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as “a x b”. (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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Environmental Testing Services
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Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 28
Date Received 09/21/2009
Date Reported 10/23/2009

Job Number	Ordered	Client
43153	09/21/2009	LARWQB

Project ID: BOEING SSFL ISRA008
Project Name: Santa Susana Field Lab
Site: 5800 Woolsey Cyn Road
Canoga Park, CA 91304-1148

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
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

COC# No 52324 GLOBAL ID ______ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43153

CHAIN OF CUSTODY RECORD

Company: L. A. Regional Water Quality Control Board

Report To: PETER RAFTERY

Address: 320 W. 4th. ST.
L. A. 90013

Telephone: 213. 576. 6724
Fax: 213. 576. 6717

Special Instruction:

E-mail: PRAFTERY@WATERBOARDS.CA.GOV

Project Name: Boeing SSFL 1SRA008

Site Address: Santa Susana Field Lab
5800 Woolsey Cyn Rd.
CANOGA PARK, CA 91304-1148

Project ID: Lori Blair / Art Lenox

Project Manager:

Address: 320 W. 4th ST.
L.A. CA. 90013

Invoice To: Art Lenox
818.466.8795

Address: Santa Susana Field Lab
5800 Woolsey Cyn Rd.
CANOGA PARK, CA
91304-1148

P.O.#:

ANALYSIS REQUESTED: LEAD 6020; CADMIUM ZINC 6020; DIOXIN 1613B

ITEM	LAB USE ONLY Lab ID	Sample ID	Date	Time	#	Container Type	Matrix	Preservation	LEAD 6020	CADMIUM ZINC 6020	DIOXIN 1613B	Remarks
	242064	HZET0600S001-RWQCB	21 Sept 09	0900	1	STAINLESS STEEL Sleeve	Soil	ICE	X			
	242065	HZET0602S001-RWQCB	21 Sept 09	0905	1	STAINLESS STEEL Sleeve	soil	ICE	X			
	242066	HZET0100S001-CWQCB	21 Sept 09	0925	1	STAINLESS STEEL Sleeve	soil	ICE	X	X	X	
	242067	HZET0101S001-RWQCB	21 Sept 09	0935	1	STAINLESS STEEL SLEEVE	Soil	ICE	X	X	X	

Collected By: [illegible]	Date 21 Sept 09	Time 0911	Relinquished By: [signature]	Date 21 Sept 09	Time 1105	TAT
Relinquished By: [illegible]	Date 21 Sept 09	Time 0911	Received For Laboratory: Janet Chin	Date 9.21.09	Time 11:05	☒ Normal
Received By: [signature]	Date 21 Sept 09	Time	Condition of Sample:			☐ Rush

White - Report Yellow - Laboratory Pink - Client

Weck Laboratories, Inc.

Analytical Laboratory Services • Since 1964

14859 East Clark Avenue • Industry, CA 91745
Tel 626-336-2139 • Fax 626-336-2634 • www.wecklabs.com

CHAIN OF CUSTODY RECORD

9I21026

CLIENT NAME: American Scientific Labs.

ADDRESS: 2520 N. San Fernando Road
L.A. CA 90065

PROJECT MANAGER: Molky Brau

SAMPLER:

PROJECT: 43153

PHONE #: 323 223 9700

FAX #: 323 223 9500

E MAIL: molky@adlab.com

P.O.#:

ANALYSIS REQUESTED

Cd, Pb & Zn by EPA (ICP/MS)

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48 - 72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extraction 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Package

Charges Will Apply For Weekends And Holidays

Method of Shipment _____

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Cd, Pb & Zn by EPA (ICP/MS)	COMMENTS
	9-21-09	09:00	Soil	242064	1 Jar	X	
	"	09:05	"	242065	"	X	
	"	09:25	"	242066	"	X	
	"	09:35	"	242067	"	X	

RELINQUISHED BY:		DATE / TIME	RECEIVED BY:	
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
Alex	Alex	9/21/09 13:3x		9/21/09 1628
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME

SAMPLE CONDITION:

Actual Temperature: 9.4°C.

Received On Ice	Y	N
Preserved	Y	N
Evidence Seals Present	Y	N
Container Attacked	Y	N
Preserved at Lab	Y	N

SAMPLE TYPE CODE:

AQ= Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

Certificate of Analysis

Report Date: Friday, October 2, 2009
Received Date: Monday, September 21, 2009
Received Time: 1:28 pm
Turnaround Time: Normal

Client: American Scientific Laboratories
2520 N. San Fernando Road
Los Angeles, CA 90065-1324

Attn: Molky Brar
Project: 43153

Phones: (323) 223-9700
Fax: (323) 223-9500

P.O. #:

Lab Sample ID: 9I21026-01 **Sample ID: 242064** **Matrix:** Solid
Sampled by: Client **Sampled: 09/21/09 09:00**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	ND	0.063	0.50	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 21:47	W9I0982	
Zinc, Total	**51**	1.1	10	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 21:47	W9I0982	
Lead, Total	**6.4**	0.11	1.0	mg/kg	1x1	EPA 6020B	9/25/09	9/29/09 21:47	W9I0982	

Lab Sample ID: 9I21026-02 **Sample ID: 242065** **Matrix:** Solid
Sampled by: Client **Sampled: 09/21/09 09:05**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	ND	0.063	0.50	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 21:53	W9I0982	
Zinc, Total	**44**	1.1	10	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 21:53	W9I0982	
Lead, Total	**5.3**	0.11	1.0	mg/kg	1x1	EPA 6020B	9/25/09	9/29/09 21:53	W9I0982	

Lab Sample ID: 9I21026-03 **Sample ID: 242066** **Matrix:** Solid
Sampled by: Client **Sampled: 09/21/09 09:25**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	ND	0.063	0.50	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 21:59	W9I0982	
Zinc, Total	**53**	1.1	10	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 21:59	W9I0982	
Lead, Total	**7.8**	0.11	1.0	mg/kg	1x1	EPA 6020B	9/25/09	9/29/09 21:59	W9I0982	

Lab Sample ID: 9I21026-04 **Sample ID: 242067** **Matrix:** Solid
Sampled by: Client **Sampled: 09/21/09 09:35**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Cadmium, Total	ND	0.063	0.50	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 22:05	W9I0982	
Zinc, Total	**54**	1.1	10	mg/kg	1x1	EPA 6020	9/25/09	9/29/09 22:05	W9I0982	
Lead, Total	**6.2**	0.11	1.0	mg/kg	1x1	EPA 6020B	9/25/09	9/29/09 22:05	W9I0982	

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Quality Control Section

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

Batch W9I0982 - EPA 6020

Blank (W9I0982-BLK1) — **Prepared: 09/25/09 Analyzed: 09/29/09 21:23**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Zinc, Total		ND		mg/kg					
Cadmium, Total		ND		mg/kg					
Lead, Total		ND		mg/kg					

LCS (W9I0982-BS1) — **Prepared: 09/25/09 Analyzed: 09/29/09 21:29**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Zinc, Total		49.7		mg/kg	50.0	99	82-122		
Cadmium, Total		49.2		mg/kg	50.0	98	85-115		
Lead, Total		49.2		mg/kg	50.0	98	80-127		

LCS Dup (W9I0982-BSD1) — **Prepared: 09/25/09 Analyzed: 09/29/09 21:35**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Zinc, Total		49.2		mg/kg	50.0	98	82-122	0.9	20
Cadmium, Total		47.2		mg/kg	50.0	94	85-115	4	20
Lead, Total		47.9		mg/kg	50.0	96	80-127	3	20

Matrix Spike (W9I0982-MS1) — **Source: 9I21026-01** — **Prepared: 09/25/09 Analyzed: 09/29/09 22:10**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Zinc, Total	50.9	97.1		mg/kg	47.6	97	65-131		
Cadmium, Total	ND	48.2		mg/kg	47.6	101	85-121		
Lead, Total	6.42	54.0		mg/kg	47.6	100	75-130		

Matrix Spike Dup (W9I0982-MSD1) — **Source: 9I21026-01** — **Prepared: 09/25/09 Analyzed: 09/29/09 22:16**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Zinc, Total	50.9	97.6		mg/kg	49.0	95	65-131	0.4	20
Cadmium, Total	ND	49.5		mg/kg	49.0	101	85-121	3	20
Lead, Total	6.42	55.8		mg/kg	49.0	101	75-130	3	20

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Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature
Contact: Nicole Van Nas For Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as “a x b”. (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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Environmental Testing Services
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COC# Nº 52324 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43153

Company: L. A. Regional Water Quality Control Board.		Report To: PETER RAFTERY	
Address: 320 W. 4TH. ST.	Project Name: Boeing SSFL ISRA 008	Address: 320 W. 4TH ST. L.A. CA. 90013	
L. A. 90013	Site Address: Santa Susana Field Lab 5800 Woolsey Cyn Rd. Canoga Park, CA 91304-1148	Invoice To: Art Lenox 818.466.8795 ~~5800~~	
Telephone: 213. 576. 6724 Fax: 213. 576. 6717		Address: Santa Susana Field Lab 5800 Woolsey Cyn Rd. Canoga Park, CA 91304-1148	
Special Instruction:	Project ID: Lori Blaine / Art Lenox	P.O.#:	
E-mail: RAFTERY@WATERBOARDS.CA.GOV	Project Manager:		

ANALYSIS REQUESTED: LEAD 6020 | 6020 Cadmium, Zinc | 1613B Dioxin

ITEM	LAB USE ONLY Lab ID	SAMPLE DESCRIPTION Sample ID	Date	Time	Container(s) #	Container(s) Type	Matrix	Preservation	LEAD 6020	6020 Cadmium, Zinc	1613B Dioxin	Remarks
	242064	HZET0600S001-RWQCB	21Sept09	0900	1	STAINLESS STEEL SLEEVE	Soil	ICE	X			
	242065	HZET0602S001-RWQCB	21Sept09	0905	1	STAINLESS STEEL SLEEVE	Soil	ICE	X			
	242066	HZET0100 S001-RWQCB	21 Sept 09	0925	1	STAINLESS STEEL SLEEVE	Soil	ICE	X	X	X	
	242067	HZET0101 S001-RWQCB	21 Sept 09	0935	1	STAINLESS STEEL SLEEVE	Soil	ICE	X	X	X	

Collected By: ADAM GOLDENBERG	Date 21Sept09	Time 0941	Relinquished By:	Date 21Sept09 Time 1105
Relinquished By: ADAM GOLDENBERG	Date 21Sept09	Time 0941	Received For Laboratory: Janet Chin	Date 9-21-09 Time 11:05
Received By:	Date 21Sept09	Time	Condition of Sample:	

TAT: ☒ Normal ☐ Rush

CHAIN OF CUSTODY RECORD

White - Report, Yellow - Laboratory, Pink - Client

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 22, 2009

TestAmerica Project Number: G9I220221
PO/Contract:

Molky Brar
American Scientific Lab
2520 N. San Fernando Rd
Los Angeles, CA 90065

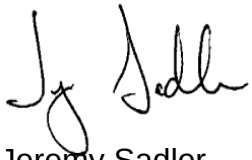
Dear Mr. Brar,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 22, 2009. These samples are associated with your 43153 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4381.

Sincerely,



Jeremy Sadler
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I220221

Case Narrative

TestAmerica West Sacramento Project Number G9I220221

SOLID, 1613B, Dioxins/Furans, HRGC/HRMS
Samples: 1, 2
Analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I220221

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LK86V	1	242066	9/21/2009	9/22/2009 09:15 AM
LK86X	2	242067	9/21/2009	9/22/2009 09:15 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as “ND” were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Molly Brar	Site Contact:	Date:	COC No:
Your Company Name here: American Scientific Labs	Tel/Fax:	Lab Contact:	Carrier:	of COCs
Address: 2520 N. San Fernando Road	Analysis Turnaround Time			Job No.
City/State/Zip: L.A. CA 90065	Calendar (C) or Work Days (W)			
(xxx) xxx-xxxx Phone: 323 223 9700	TAT if different from Below: Normal			SDG No.
(xxx) xxx-xxxx FAX: 323 223 9500	☑ 2 weeks			
Project Name: ASL JOB # 43153	☐ 1 week			
Site:	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	EPA-1613B (Full List)	Sample Specific Notes:
242066	9-21-09			SOIL	1 Jar		X	
242067	"			"	1 Jar		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Janet Chin	ASL	9-21-09 4:00pm			9-22-09 1120
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT American Scientific PM JS LOG # 60841

LOT# (QUANTIMS ID) (GI220221) QUOTE# 35699 LOCATION WID

	Initials	Date
DATE RECEIVED 9-22-09 TIME RECEIVED 915	Le	9-22-09

DELIVERED BY
- ☐ FEDEX ☐ CA OVERNIGHT ☐ CLIENT
- ☐ AIRBORNE ☒ GOLDENSTATE ☐ DHL
- ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS
- ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER
- ☐ OTHER

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☒ N/A

CUSTODY SEAL #(S) _____

SHIPPPING CONTAINER(S) ☐ TAL ☒ CLIENT ☐ N/A

TEMPERTURE RECORD (IN °C) IR 4 ☐ 5 ☒ ☐ OTHER _____

COC #(S) N/A

TEMPERATURE BLANK Observed: ✓ Corrected: _____

SAMPLE TEMPERATURE

Observed: 6 6 Average: 6 Corrected Average: 6

COLLECTOR'S NAME: ☐ Verified from COC ☒ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW _____ ☒ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING
- WETCHEM ☒ N/A
- VOA-ENCORES ☒ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☒ N/A

☒ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A

☐ CLOUSEAU ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☒ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes: _____

*1 Acceptable temperature range for State of Wisconsin samples is<4°C.

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I220221

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ	1	1																		
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

SOLID, 1613B, Dioxins/Furans, HRGC/HRMS

American Scientific Laboratories LLC

Client Sample ID: 242066

Trace Level Organic Compounds

Lot-Sample #...: G9I220221-001 **Work Order #...:** LK86V3AC **Matrix.....:** SOLID
Date Sampled...: 09/21/09 **Date Received..:** 09/22/09
Prep Date.....: 10/14/09 **Analysis Date..:** 10/19/09
Prep Batch #...: 9287351
Dilution Factor: 0.99
% Moisture.....: 1.8

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	**0.061 J**	**1.0**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8-PeCDD	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	**0.37 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDD	**1.2 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**0.70 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**40**	**5.1**	**pg/g**	**EPA-5 1613B**
OCDD	**640**	**10**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	**0.28 J,Q,B**	**1.0**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	ND	5.1	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	**0.47 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	**0.18 J,Q**	**5.1**	**pg/g**	**EPA-5 1613B**
2,3,4,6,7,8-HxCDF	**0.18 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	**4.1 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	**0.34 J**	**5.1**	**pg/g**	**EPA-5 1613B**
OCDF	**9.9 J**	**10**	**pg/g**	**EPA-5 1613B**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(25 - 164)
13C-1,2,3,7,8-PeCDD	97	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	79	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	99	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	85	(23 - 140)
13C-OCDD	82	(17 - 157)
13C-2,3,7,8-TCDF	74	(24 - 169)
13C-1,2,3,7,8-PeCDF	91	(24 - 185)
13C-2,3,4,7,8-PeCDF	89	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	91	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	82	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	78	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	76	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	74	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	81	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	92	(35 - 197)

(Continued on next page)

American Scientific Laboratories LLC

Client Sample ID: 242066

Trace Level Organic Compounds

Lot-Sample #...: G9I220221-001 **Work Order #...:** LK86V3AC **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

American Scientific Laboratories LLC

Client Sample ID: 242067

Trace Level Organic Compounds

Lot-Sample #...: G9I220221-002 **Work Order #...:** LK86X3AC **Matrix.....:** SOLID
Date Sampled...: 09/21/09 **Date Received..:** 09/22/09
Prep Date.....: 10/14/09 **Analysis Date..:** 10/19/09
Prep Batch #...: 9287351
Dilution Factor: 0.95
% Moisture.....: 6.1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	5.1	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	**0.068 J,Q**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**0.23 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**0.76 J,Q**	**5.1**	**pg/g**	**EPA-5 1613B**
OCDD	**11**	**10**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	**0.090 J,Q,B**	**1.0**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	ND	5.1	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	**0.062 J,Q**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	ND	5.1	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	**0.081 J,Q**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDF	**0.22 J**	**5.1**	**pg/g**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	ND	5.1	pg/g	EPA-5 1613B
OCDF	**0.21 J,Q**	**10**	**pg/g**	**EPA-5 1613B**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	79	(25 - 164)
13C-1,2,3,7,8-PeCDD	95	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	78	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	94	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	80	(23 - 140)
13C-OCDD	74	(17 - 157)
13C-2,3,7,8-TCDF	74	(24 - 169)
13C-1,2,3,7,8-PeCDF	87	(24 - 185)
13C-2,3,4,7,8-PeCDF	87	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	87	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	81	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	77	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	73	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	75	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	75	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	202 *	(35 - 197)

(Continued on next page)

American Scientific Laboratories LLC

Client Sample ID: 242067

Trace Level Organic Compounds

Lot-Sample #...: G9I220221-002 **Work Order #...:** LK86X3AC **Matrix.....:** SOLID

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

G9I220221

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	EPA-5 1613B		9287351	
	SOLID	ASTM D 2216-90		9274252	9274138
002	SOLID	EPA-5 1613B		9287351	
	SOLID	ASTM D 2216-90		9274252	9274138

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9I220221 **Work Order #...:** LMJ9V1AA **Matrix.....:** SOLID
MB Lot-Sample #: G9J140000-351

Prep Date.....: 10/14/09
Analysis Date..: 10/19/09 **Prep Batch #...:** 9287351
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	ND	5.0	pg/g	EPA-5 1613B
OCDD	ND	10	pg/g	EPA-5 1613B
2,3,7,8-TCDF	**0.035 J**	**1.0**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	ND	5.0	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	ND	5.0	pg/g	EPA-5 1613B
OCDF	ND	10	pg/g	EPA-5 1613B

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(25 - 164)
13C-1,2,3,7,8-PeCDD	96	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	88	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	89	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	86	(23 - 140)
13C-OCDD	81	(17 - 157)
13C-2,3,7,8-TCDF	73	(24 - 169)
13C-1,2,3,7,8-PeCDF	84	(24 - 185)
13C-2,3,4,7,8-PeCDF	86	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	93	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	84	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	81	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	78	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	79	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	78	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	90	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than the reporting limit.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9I220221 **Work Order #...:** LMJ9V1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: G9J140000-351 LMJ9V1AD-LCSD
Prep Date.....: 10/14/09 **Analysis Date..:** 10/19/09
Prep Batch #...: 9287351
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,3,7,8-TCDD	93	(67 - 158)			EPA-5 1613B
	94	(67 - 158)	0.80	(0-50)	EPA-5 1613B
1,2,3,7,8-PeCDD	98	(70 - 142)			EPA-5 1613B
	103	(70 - 142)	5.5	(0-50)	EPA-5 1613B
1,2,3,4,7,8-HxCDD	100	(70 - 164)			EPA-5 1613B
	96	(70 - 164)	4.6	(0-50)	EPA-5 1613B
1,2,3,6,7,8-HxCDD	101	(76 - 134)			EPA-5 1613B
	104	(76 - 134)	3.8	(0-50)	EPA-5 1613B
1,2,3,7,8,9-HxCDD	102	(64 - 162)			EPA-5 1613B
	99	(64 - 162)	3.2	(0-50)	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	103	(70 - 140)			EPA-5 1613B
	103	(70 - 140)	0.13	(0-50)	EPA-5 1613B
OCDD	100	(78 - 144)			EPA-5 1613B
	96	(78 - 144)	3.6	(0-50)	EPA-5 1613B
2,3,7,8-TCDF	96	(75 - 158)			EPA-5 1613B
	97	(75 - 158)	1.5	(0-50)	EPA-5 1613B
1,2,3,7,8-PeCDF	96	(80 - 134)			EPA-5 1613B
	99	(80 - 134)	3.0	(0-50)	EPA-5 1613B
2,3,4,7,8-PeCDF	95	(68 - 160)			EPA-5 1613B
	99	(68 - 160)	4.5	(0-50)	EPA-5 1613B
1,2,3,4,7,8-HxCDF	94	(72 - 134)			EPA-5 1613B
	96	(72 - 134)	1.6	(0-50)	EPA-5 1613B
1,2,3,6,7,8-HxCDF	97	(84 - 130)			EPA-5 1613B
	100	(84 - 130)	2.8	(0-50)	EPA-5 1613B
2,3,4,6,7,8-HxCDF	95	(70 - 156)			EPA-5 1613B
	100	(70 - 156)	5.1	(0-50)	EPA-5 1613B
1,2,3,7,8,9-HxCDF	98	(78 - 130)			EPA-5 1613B
	101	(78 - 130)	3.0	(0-50)	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	97	(82 - 122)			EPA-5 1613B
	101	(82 - 122)	3.6	(0-50)	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	95	(78 - 138)			EPA-5 1613B
	100	(78 - 138)	4.8	(0-50)	EPA-5 1613B
OCDF	91	(63 - 170)			EPA-5 1613B
	93	(63 - 170)	2.2	(0-50)	EPA-5 1613B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9I220221 **Work Order #...:** LMJ9V1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: G9J140000-351 LMJ9V1AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(25 - 164)
	88	(25 - 164)
13C-1,2,3,7,8-PeCDD	100	(25 - 181)
	95	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	78	(32 - 141)
	92	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	91	(28 - 130)
	102	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	80	(23 - 140)
	93	(23 - 140)
13C-OCDD	77	(17 - 157)
	91	(17 - 157)
13C-2,3,7,8-TCDF	73	(24 - 169)
	77	(24 - 169)
13C-1,2,3,7,8-PeCDF	87	(24 - 185)
	92	(24 - 185)
13C-2,3,4,7,8-PeCDF	90	(21 - 178)
	91	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	85	(26 - 123)
	100	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	79	(28 - 136)
	90	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	78	(29 - 147)
	89	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	76	(28 - 143)
	86	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	75	(26 - 138)
	86	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	77	(26 - 152)
	83	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	118	(35 - 197)
	93	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9I220221 **Work Order #...:** LMJ9V1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: G9J140000-351 LMJ9V1AD-LCSD
Prep Date.....: 10/14/09 **Analysis Date..:** 10/19/09
Prep Batch #...: 9287351
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2,3,7,8-TCDD	20.0	18.6	pg/g	93		EPA-5 1613B
	20.0	18.8	pg/g	94	0.80	EPA-5 1613B
1,2,3,7,8-PeCDD	100	97.5	pg/g	98		EPA-5 1613B
	100	103	pg/g	103	5.5	EPA-5 1613B
1,2,3,4,7,8-HxCDD	100	100	pg/g	100		EPA-5 1613B
	100	95.8	pg/g	96	4.6	EPA-5 1613B
1,2,3,6,7,8-HxCDD	100	101	pg/g	101		EPA-5 1613B
	100	104	pg/g	104	3.8	EPA-5 1613B
1,2,3,7,8,9-HxCDD	100	102	pg/g	102		EPA-5 1613B
	100	98.6	pg/g	99	3.2	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	100	103	pg/g	103		EPA-5 1613B
	100	103	pg/g	103	0.13	EPA-5 1613B
OCDD	200	199	pg/g	100		EPA-5 1613B
	200	192	pg/g	96	3.6	EPA-5 1613B
2,3,7,8-TCDF	20.0	19.2	pg/g	96		EPA-5 1613B
	20.0	19.5	pg/g	97	1.5	EPA-5 1613B
1,2,3,7,8-PeCDF	100	96.2	pg/g	96		EPA-5 1613B
	100	99.1	pg/g	99	3.0	EPA-5 1613B
2,3,4,7,8-PeCDF	100	95.1	pg/g	95		EPA-5 1613B
	100	99.5	pg/g	99	4.5	EPA-5 1613B
1,2,3,4,7,8-HxCDF	100	94.4	pg/g	94		EPA-5 1613B
	100	95.9	pg/g	96	1.6	EPA-5 1613B
1,2,3,6,7,8-HxCDF	100	97.4	pg/g	97		EPA-5 1613B
	100	100	pg/g	100	2.8	EPA-5 1613B
2,3,4,6,7,8-HxCDF	100	95.0	pg/g	95		EPA-5 1613B
	100	100	pg/g	100	5.1	EPA-5 1613B
1,2,3,7,8,9-HxCDF	100	98.0	pg/g	98		EPA-5 1613B
	100	101	pg/g	101	3.0	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	100	97.1	pg/g	97		EPA-5 1613B
	100	101	pg/g	101	3.6	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	100	95.3	pg/g	95		EPA-5 1613B
	100	99.9	pg/g	100	4.8	EPA-5 1613B
OCDF	200	182	pg/g	91		EPA-5 1613B
	200	187	pg/g	93	2.2	EPA-5 1613B

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LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9I220221 **Work Order #...:** LMJ9V1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: G9J140000-351 LMJ9V1AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	84	(25 - 164)
	88	(25 - 164)
13C-1,2,3,7,8-PeCDD	100	(25 - 181)
	95	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	78	(32 - 141)
	92	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	91	(28 - 130)
	102	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	80	(23 - 140)
	93	(23 - 140)
13C-OCDD	77	(17 - 157)
	91	(17 - 157)
13C-2,3,7,8-TCDF	73	(24 - 169)
	77	(24 - 169)
13C-1,2,3,7,8-PeCDF	87	(24 - 185)
	92	(24 - 185)
13C-2,3,4,7,8-PeCDF	90	(21 - 178)
	91	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	85	(26 - 123)
	100	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	79	(28 - 136)
	90	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	78	(29 - 147)
	89	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	76	(28 - 143)
	86	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	75	(26 - 138)
	86	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	77	(26 - 152)
	83	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	118	(35 - 197)
	93	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SOLID, D 2216-90, Percent Moisture

American Scientific Laboratories LLC

Client Sample ID: 242066

General Chemistry

Lot-Sample #...: G9I220221-001 Work Order #...: LK86V Matrix.....: SOLID
Date Sampled...: 09/21/09 Date Received..: 09/22/09
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	1.8	0.10	%	ASTM D 2216-90	10/01-10/02/09	9274252

Dilution Factor: 1

American Scientific Laboratories LLC

Client Sample ID: 242067

General Chemistry

Lot-Sample #...: G9I220221-002 **Work Order #...:** LK86X **Matrix.....:** SOLID
Date Sampled...: 09/21/09 **Date Received..:** 09/22/09
% Moisture.....: 6.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	6.1	0.10	%	ASTM D 2216-90	10/01-10/02/09	9274252

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9I220221

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	ASTM D 2216-90		9274252	9274138
002	SOLID	ASTM D 2216-90		9274252	9274138

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I220221 **Work Order #...:** LKTKF-SMP LKTKF-DUP **Matrix.....:** SOLID

Date Sampled...: 09/10/09 **Date Received..:** 09/15/09

% Moisture.....: 4.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: G9I150194-001		
	4.0	4.0	%	1.7	(0-20)	ASTM D 2216-90	10/01-10/02/09	9274252

Dilution Factor: 1

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 31
Date Received 09/23/2009
Date Reported 10/27/2009

Job Number	Ordered	Client
43179	09/23/2009	LARWQB

Project ID: BOEING SSFL ISRA
Project Name: Santa Susana Field Labs.
Site: 5800 Woolsey Canyon Road
Canoga Park, CA 91304

Enclosed are the results of analyses on 3 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page ____ Of ____

COC# Nº 52323 GLOBAL ID ____________ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43179

CHAIN OF CUSTODY RECORD

Company: L. A. Regional Water Quality Control Board		Report To: Peter Raftery	
Address: 320 West 4th Street	Project Name: Boeing SSFL ISRA	Address: 320 W 4th St. LA CA	
LA CA 90013	Site Address: Santa Susana Field Lab.	Invoice To: Jeff Lenrick 818 466-8790	
Telephone: 213 576-6[illegible] Fax: 213 576-67	5800 Woolsey Canyon Rd Canoga Park, CA 91304	Address: Santa Susana Field Lab 5800 Woolsey Canyon Rd.	
Special Instruction:	Project ID:	Canoga Park, CA 91304	
E-mail:	Project Manager: [illegible] / Jeff Lenrick	P.O.#:	

ANALYSIS REQUESTED: Dioxins; Lead

ITEM	LAB USE ONLY Lab ID	Sample ID	Date	Time	Container(s) #	Container(s) Type	Matrix	Preservation	Dioxins	Lead	Remarks
	240215	HZE1UK02-001 AWRED	9/23/09	9:10	1	[illegible]	Soil		X		
	240216	H12F[illegible]96-2001 AWRED	9/23/09	9:[illegible]	1	[illegible]	Soil		X		
	240217	CNET[illegible]-001 AWRED	9/23/09	[illegible]:33	1	[illegible]	Soil			X	

Collected By: [illegible]	Date 9/23/09	Time 0842	Relinquished By: [illegible]	Date 9/23/09	Time 2:15
Relinquished By: [illegible]	Date 9/23/09	Time 1[illegible]	Received For Laboratory Janet Chin	Date 9.23.09	Time 2:15
Received By: [illegible]	Date 9/23/0[illegible]	Time [illegible]	Condition of Sample:		

TAT: ☑ Normal ☐ Rush

White - Report. Yellow - Laboratory. Pink - Client

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Tel 626-336-2139 • Fax 626-336-2634 • www.wecklabs.com

CHAIN OF CUSTODY RECORD

9E25045

CLIENT NAME: American Scientific Labs.

ADDRESS: 2520 N. San Fernando Road L.A. CA 90065

PROJECT MANAGER: Molly Brar

SAMPLER:

PROJECT: 43179

PHONE #: 323 223 9700

FAX #: 323 223 9500

E MAIL: molly@asllab.com

P.O.#:

ANALYSIS REQUESTED

Lead by 6020B (ICP/MS)

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48 - 72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extraction 50%
- ☑ 10 - 15 Business Days
- ☑ QA/QC Package

Charges Will Apply For Weekends And Holidays

Method of Shipment _____

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Lead by 6020B (ICP/MS)	COMMENTS
	9-23-09		Soil	242217		X	

RELINQUISHED BY:		DATE / TIME	RECEIVED BY:	
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
Alex	Alex	9/25/09 14:35		9/25/09 1432
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME

SAMPLE CONDITION: Actual Temperature: 4.9°C

Received On Ice	(Y)	N
Preserved	(Y)	N
Evidence Seals Present	Y	(N)
Container Attacked	Y	(N)
Preserved at Lab	Y	(N)

SAMPLE TYPE CODE:

AQ= Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

Certificate of Analysis

Report Date: Wednesday, October 7, 2009
Received Date: Friday, September 25, 2009
Received Time: 2:32 pm
Turnaround Time: Normal

Client: American Scientific Laboratories
2520 N. San Fernando Road
Los Angeles, CA 90065-1324

Attn: Molky Brar
Project: 43179

Phones: (323) 223-9700
Fax: (323) 223-9500

P.O. #:

Lab Sample ID: 9I25045-01 **Sample ID:** 242217 **Matrix:** Soil
Sampled by: Molky Barar **Sampled:** 09/23/09 00:00

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Lead, Total	**4.9**	0.11	1.0	mg/kg	1x1	EPA 6020B	10/1/09	10/6/09 13:36	W9J0013	

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www.wecklabs.com

Certificate of Analysis

Quality Control Section

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

Batch W9J0013 - EPA 6020B

Blank (W9J0013-BLK1) — **Prepared: 10/01/09 Analyzed: 10/06/09 12:38**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lead, Total		ND		mg/kg					

LCS (W9J0013-BS1) — **Prepared: 10/01/09 Analyzed: 10/06/09 12:43**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lead, Total		51.4		mg/kg	50.0	103	80-127		

LCS Dup (W9J0013-BSD1) — **Prepared: 10/01/09 Analyzed: 10/06/09 12:47**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lead, Total		52.0		mg/kg	50.0	104	80-127	1	20

Matrix Spike (W9J0013-MS1) — **Source: 9I25044-03** — **Prepared: 10/01/09 Analyzed: 10/06/09 13:41**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lead, Total	6.67	60.2		mg/kg	49.5	108	75-130		

Matrix Spike Dup (W9J0013-MSD1) — **Source: 9I25044-03** — **Prepared: 10/01/09 Analyzed: 10/06/09 13:45**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Lead, Total	6.67	59.5		mg/kg	47.6	111	75-130	1	20

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Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as “a x b”. (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 27, 2009

TestAmerica Project Number: G9I250311
PO/Contract:

Molky Brar
American Scientific Lab
2520 N. San Fernando Rd
Los Angeles, CA 90065

Dear Mr. Brar,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 25, 2009. These samples are associated with your 43179 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4381.

Sincerely,

Jeremy Sadler
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I250311

Case Narrative

TestAmerica West Sacramento Project Number G9I250311

SOLID, 1613B, Dioxins/Furans, HRGC/HRMS
Samples: 1, 2
Several analytes in the MB and in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I250311

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LLJCH	1	242215	9/23/2009	9/29/2009 09:00 AM
LLJCK	2	242216	9/23/2009	9/29/2009 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as “ND” were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

G9I250311

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact: Molly Brau	Project Manager:	Site Contact:	Date:	COC No: ____ of ____ COCs
Your Company Name here: American Scientific Lab	Tel/Fax:	Lab Contact:	Carrier:	Job No.
Address: 2520 N. San Fernando Road	Analysis Turnaround Time			SDG No.
City/State/Zip: L.A. CA 90065	Calendar (C) or Work Days (W) ____			
(xxx) xxx-xxxx Phone: 323 223 9900	TAT if different from Below: Normal			
(xxx) xxx-xxxx FAX: 323 223 9500	☑ 2 weeks			
Project Name: 43179	☐ 1 week			
Site:	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	EPA-5-1613 B (Full List)	Sample Specific Notes:
242215	9-23-09			soil			X	ATTN: Jeremy Sadler Do not analyze the samples you received on Sep. 25.
242216	9-23-09			"			X	
								* Please analyze the Replacement samples *
								Thanks, Janet Chin 9.28.09
								See attached.

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Janet Chin	ASL	9-24-09 4:00p.m.		TAL WEST SAC	29 SEP 09 0910
Janet Chin	ASL	9-28-09 4:00p m			

G9250311

West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact: Molly Brau	Project Manager:	Site Contact:	Date:	COC No:
Your Company Name here: American Scientific Lab	Tel/Fax:	Lab Contact:	Carrier:	of COCs
Address: 2520 N. San Fernando Road	Analysis Turnaround Time			Job No.
City/State/Zip: L.A. CA 90065	Calendar (C) or Work Days (W)			
(xxx) xxx-xxxx Phone: 323 223 9700	TAT if different from Below: Normal			SDG No.
(xxx) xxx-xxxx FAX: 323 223 9500	☑ 2 weeks			
Project Name: 43179	☐ 1 week			
Site:	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	EPA-5-1613 B (Full List)	Sample Specific Notes:
242215	9-23-09			SOIL			X	
242216	9-23-09			"			X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Janet Chin	ASL	9-24-09 4:00 pm	Cheng Ha	TACWS	9/25/09 1130
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT American Scientific lab PM JS LOG # ~~60935~~ 60977

LOT# (QUANTIMS ID) ~~G9I250277~~ 9/29/09 G9I250311 QUOTE# 35699 LOCATION W16C

DATE RECEIVED 9/25/09 (1) 29 sep 09 TIME RECEIVED 0825 (1) 0900 Initials ov Date 9/25/09

DELIVERED BY ☐ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☑ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ MORGAN HILL COURIER ☐ OTHER

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☑ N/A

CUSTODY SEAL #(S) ______

SHIPPPING CONTAINER(S) ☐ TAL ☑ CLIENT ☐ N/A

TEMPERTURE RECORD (IN °C) IR 4 ☐ 5 ☑ ☐ OTHER ______

COC #(S) ND

TEMPERATURE BLANK Observed: ↓ Corrected: ______

SAMPLE TEMPERATURE

Observed: 15, 15 (1) 3, 3, 2 Average: 15 (1) 3 Corrected Average: 15 (1) 3

COLLECTOR'S NAME: ☐ Verified from COC ☑ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A

LABELED BY.........

LABELS CHECKED BY.........

PEER REVIEW ______ ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM ☑ N/A

VOA-ENCORES ☑ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A

☐ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☑ N/A

☑ CLOUSEAU ☑ TEMPERATURE EXCEEDED (2 °C – 6 °C)[*1] ☐ N/A

☐ WET ICE ☑ BLUE ICE x1 ☑ GEL PACK x3 ☐ NO COOLING AGENTS USED ☑ PM NOTIFIED

Notes: (1) ~~[illegible]~~ 29 sep 09 replacement samples 29 sep 09

*1 Acceptable temperature range for State of Wisconsin samples is <4°C.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE.

QA-185 4/09 RKE

TestAmerica West Sacramento

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I250277 and 9/29/09
G9I250311

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ	/	/																		
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 4/09 RKE

LEAVE NO SPACES BLANK. USE "NA" IF NOT APPLICABLE.

SOLID, 1613B, Dioxins/Furans, HRGC/HRMS

American Scientific Laboratories LLC

Client Sample ID: 242215

Trace Level Organic Compounds

Lot-Sample #...: G9I250311-001 **Work Order #...:** LLJCH1AC **Matrix.....:** SOLID
Date Sampled...: 09/23/09 **Date Received..:** 09/29/09
Prep Date.....: 10/19/09 **Analysis Date..:** 10/23/09
Prep Batch #...: 9292410
Dilution Factor: 0.98
% Moisture.....: 5.7

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.2	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	5.2	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	**0.99 J**	**5.2**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**0.85 J**	**5.2**	**pg/g**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**31**	**5.2**	**pg/g**	**EPA-5 1613B**
OCDD	**500 B**	**10**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	**0.45 J,Q**	**1.0**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	ND	5.2	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	**0.25 J**	**5.2**	**pg/g**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDF	**0.33 J,Q,B**	**5.2**	**pg/g**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	ND	5.2	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	5.2	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	5.2	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	**3.9 J**	**5.2**	**pg/g**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	ND	5.2	pg/g	EPA-5 1613B
OCDF	**14 B**	**10**	**pg/g**	**EPA-5 1613B**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	88	(25 - 164)
13C-1,2,3,7,8-PeCDD	80	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	92	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	77	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	114	(23 - 140)
13C-OCDD	105	(17 - 157)
13C-2,3,7,8-TCDF	75	(24 - 169)
13C-1,2,3,7,8-PeCDF	73	(24 - 185)
13C-2,3,4,7,8-PeCDF	75	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	73	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	83	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	90	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	90	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	103	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	82	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	84	(35 - 197)

(Continued on next page)

American Scientific Laboratories LLC

Client Sample ID: 242215

Trace Level Organic Compounds

Lot-Sample #...: G9I250311-001 **Work Order #...:** LLJCH1AC **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Estimated maximum possible concentration (EMPC).

American Scientific Laboratories LLC

Client Sample ID: 242216

Trace Level Organic Compounds

Lot-Sample #...: G9I250311-002 **Work Order #...:** LLJCK1AC **Matrix.....:** SOLID
Date Sampled...: 09/23/09 **Date Received..:** 09/29/09
Prep Date.....: 10/19/09 **Analysis Date..:** 10/23/09
Prep Batch #...: 9292410
Dilution Factor: 0.99
% Moisture.....: 2.3

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	5.1	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	ND	5.1	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDD	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	**3.0 J**	**5.1**	**pg/g**	**EPA-5 1613B**
OCDD	**49 B**	**10**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	**0.25 J,Q**	**1.0**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	ND	5.1	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDF	ND	5.1	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	ND	5.1	pg/g	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	ND	5.1	pg/g	EPA-5 1613B
OCDF	**1.4 J,B**	**10**	**pg/g**	**EPA-5 1613B**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	73	(25 - 164)
13C-1,2,3,7,8-PeCDD	65	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	68	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	69	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	97	(23 - 140)
13C-OCDD	82	(17 - 157)
13C-2,3,7,8-TCDF	66	(24 - 169)
13C-1,2,3,7,8-PeCDF	64	(24 - 185)
13C-2,3,4,7,8-PeCDF	58	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	62	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	71	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	78	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	73	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	87	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	61	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	75	(35 - 197)

(Continued on next page)

American Scientific Laboratories LLC

Client Sample ID: 242216

Trace Level Organic Compounds

Lot-Sample #...: G9I250311-002 **Work Order #...:** LLJCK1AC **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Q Estimated maximum possible concentration (EMPC).

QC DATA ASSOCIATION SUMMARY

G9I250311

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	EPA-5 1613B		9292410	
	SOLID	ASTM D 2216-90		9287425	9295208
002	SOLID	EPA-5 1613B		9292410	
	SOLID	ASTM D 2216-90		9287425	9295208

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9I250311 **Work Order #...:** LMVHX1AA **Matrix.....:** SOLID
MB Lot-Sample #: G9J190000-410

Prep Date.....: 10/19/09
Analysis Date..: 10/23/09 **Prep Batch #...:** 9292410
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	ND	5.0	pg/g	EPA-5 1613B
OCDD	**1.8 J**	**10**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDF	ND	5.0	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	**0.28 J**	**5.0**	**pg/g**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	ND	5.0	pg/g	EPA-5 1613B
OCDF	**0.35 J,Q**	**10**	**pg/g**	**EPA-5 1613B**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	69	(25 - 164)
13C-1,2,3,7,8-PeCDD	74	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	83	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	66	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	77	(23 - 140)
13C-OCDD	73	(17 - 157)
13C-2,3,7,8-TCDF	61	(24 - 169)
13C-1,2,3,7,8-PeCDF	63	(24 - 185)
13C-2,3,4,7,8-PeCDF	66	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	73	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	69	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	70	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	66	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	72	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	77	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	89	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

(Continued on next page)

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9I250311 **Work Order #...:** LMVHX1AA **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9I250311 **Work Order #...:** LMVHX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J190000-410
Prep Date.....: 10/19/09 **Analysis Date..:** 10/23/09
Prep Batch #...: 9292410
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	**97**	**(67 - 158)**	**EPA-5 1613B**
1,2,3,7,8-PeCDD	**101**	**(70 - 142)**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDD	**99**	**(70 - 164)**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDD	**102**	**(76 - 134)**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**98**	**(64 - 162)**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**101**	**(70 - 140)**	**EPA-5 1613B**
OCDD	**101**	**(78 - 144)**	**EPA-5 1613B**
2,3,7,8-TCDF	**100**	**(75 - 158)**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	**98**	**(80 - 134)**	**EPA-5 1613B**
2,3,4,7,8-PeCDF	**96**	**(68 - 160)**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDF	**95**	**(72 - 134)**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	**96**	**(84 - 130)**	**EPA-5 1613B**
2,3,4,6,7,8-HxCDF	**95**	**(70 - 156)**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDF	**100**	**(78 - 130)**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDF	**96**	**(82 - 122)**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	**96**	**(78 - 138)**	**EPA-5 1613B**
OCDF	**92**	**(63 - 170)**	**EPA-5 1613B**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9I250311 **Work Order #...:** LMVHX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J190000-410

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	69	(25 - 164)
13C-1,2,3,7,8-PeCDD	70	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	86	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	74	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	77	(23 - 140)
13C-OCDD	73	(17 - 157)
13C-2,3,7,8-TCDF	61	(24 - 169)
13C-1,2,3,7,8-PeCDF	63	(24 - 185)
13C-2,3,4,7,8-PeCDF	65	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	69	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	71	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	71	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	67	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	70	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	74	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	85	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9I250311 **Work Order #...:** LMVHX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J190000-410
Prep Date.....: 10/19/09 **Analysis Date..:** 10/23/09
Prep Batch #...: 9292410
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	**20.0**	**19.4**	**pg/g**	**97**	**EPA-5 1613B**
1,2,3,7,8-PeCDD	**100**	**101**	**pg/g**	**101**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDD	**100**	**99.4**	**pg/g**	**99**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDD	**100**	**102**	**pg/g**	**102**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**100**	**97.7**	**pg/g**	**98**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**100**	**101**	**pg/g**	**101**	**EPA-5 1613B**
OCDD	**200**	**201**	**pg/g**	**101**	**EPA-5 1613B**
2,3,7,8-TCDF	**20.0**	**20.0**	**pg/g**	**100**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	**100**	**98.3**	**pg/g**	**98**	**EPA-5 1613B**
2,3,4,7,8-PeCDF	**100**	**96.5**	**pg/g**	**96**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDF	**100**	**95.3**	**pg/g**	**95**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	**100**	**95.7**	**pg/g**	**96**	**EPA-5 1613B**
2,3,4,6,7,8-HxCDF	**100**	**94.9**	**pg/g**	**95**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDF	**100**	**99.9**	**pg/g**	**100**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDF	**100**	**96.1**	**pg/g**	**96**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	**100**	**96.4**	**pg/g**	**96**	**EPA-5 1613B**
OCDF	**200**	**184**	**pg/g**	**92**	**EPA-5 1613B**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9I250311 **Work Order #...:** LMVHX1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J190000-410

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	69	(25 - 164)
13C-1,2,3,7,8-PeCDD	70	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	86	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	74	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	77	(23 - 140)
13C-OCDD	73	(17 - 157)
13C-2,3,7,8-TCDF	61	(24 - 169)
13C-1,2,3,7,8-PeCDF	63	(24 - 185)
13C-2,3,4,7,8-PeCDF	65	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	69	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	71	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	71	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	67	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	70	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	74	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	85	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SOLID, D 2216-90, Percent Moisture

American Scientific Laboratories LLC

Client Sample ID: 242215

General Chemistry

Lot-Sample #...: G9I250311-001 **Work Order #...:** LLJCH **Matrix.....:** SOLID
Date Sampled...: 09/23/09 **Date Received..:** 09/29/09
% Moisture.....: 5.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**5.7**	**0.10**	**%**	**ASTM D 2216-90**	**10/14-10/15/09**	**9287425**

Dilution Factor: 1

American Scientific Laboratories LLC

Client Sample ID: 242216

General Chemistry

Lot-Sample #...: G9I250311-002 **Work Order #...:** LLJCK **Matrix.....:** SOLID
Date Sampled...: 09/23/09 **Date Received..:** 09/29/09
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.3**	**0.10**	**%**	**ASTM D 2216-90**	**10/14-10/15/09**	**9287425**

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9I250311

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	EPA-5 1613B		9292410	
	SOLID	ASTM D 2216-90		9287425	9295208
002	SOLID	EPA-5 1613B		9292410	
	SOLID	ASTM D 2216-90		9287425	9295208

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9I250311 **Work Order #...:** LLF35-SMP **Matrix.....:** SOLID
LLF35-DUP
Date Sampled...: 09/21/09 **Date Received..:** 09/25/09
% Moisture.....: 14

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #: G9I240379-001		
	13.5	13.5	%	0.42	(0-20)	ASTM D 2216-90	10/14-10/15/09	9287425

Dilution Factor: 1

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 24
Date Received 09/25/2009
Date Reported 10/30/2009

Job Number	Ordered	Client
43202	09/25/2009	LARWQB

Project ID: BOEING SSFL
Project Name:

Site: 5800 Woolsey Canyon Dr.
Canoga Park, CA 91304

Enclosed are the results of analyses on 2 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page ____ Of ____

COC# № **52322** GLOBAL ID ________ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43202

Company:	Los Angeles Regional Water Quality Control Board
Address:	320 W. 4th St. Suite 200, L.A. CAL. 90013
Telephone:	213.576.6724
Fax:	213.576.6717
Special Instruction:	
E-mail:	PRAFTERY@WATERBOARDS.CA.GOV
Project Name:	Boeing SSFL
Site Address:	5800 Woolsey Cyn Rd. CANOGA PARK, CA. 91304
Project ID:	
Project Manager:	Art Lenox
Report To:	PETER RAFTERY
Address:	320 W. 4th St. Suite 200, L.A. CA. 90013
Invoice To:	Art Lenox, THE BOEING Co.
Address:	5800 Woolsey Cyn Rd. ~~Chatsworth~~ CANOGA PARK, CA 91304
P.O.#:	

ANALYSIS REQUESTED: DIOXINS

ITEM	Lab ID (LAB USE ONLY)	Sample ID	Date	Time	#	Type	Matrix	Preservation	DIOXINS	Remarks
	242270	HZET0710S001	25 Sept.09	7:15	1	Stainless Steel Sleeve	Soil	ICE	X	
	242271	HZET0717S001	25 Sept 09	7:25	1	Stainless Steel Sleeve	Soil	ICE	X	

Collected By: [signature]	Date 25 Sept 09	Time 7:40	Relinquished By: [signature]	Date 25 Sept 09	Time 8:55
Relinquished By: [signature]	Date 25 Sept 09	Time	Received For Laboratory: Janet Chin	Date 9-25-09	Time 8:55
Received By: Peter Raftery	Date 25 Sept 09	Time	Condition of Sample:		

TAT: ☒ Normal ☐ Rush

White - Report, **Yellow** - Laboratory, **Pink** - Client

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

October 30, 2009

TestAmerica Project Number: G9I290217
PO/Contract:

Molky Brar
American Scientific Lab
2520 N. San Fernando Rd
Los Angeles, CA 90065

Dear Mr. Brar,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on September 29, 2009. These samples are associated with your 43202 project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4381.

Sincerely,

Jeremy Sadler
Project Manager

Table of Contents

TestAmerica West Sacramento Project Number G9I290217

Case Narrative

TestAmerica West Sacramento Project Number G9I290217

SOLID, 1613B, Dioxins/Furans, HRGC/HRMS
Sample: 1, 2
Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

There were no other anomalies associated with this project.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ACCREDITED IN ACCORDANCE WITH nelac

TestAmerica Laboratories West Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	New York*	11666
Arizona	AZ0708	Oregon*	CA 200005
Arkansas	88-0691	Pennsylvania	68-1272
California*	01119CA	South Carolina	87014
Colorado	NA	Texas	T104704399-08-TX
Connecticut	PH-0691	Utah*	QUAN1
Florida*	E87570	Virginia	00178
Georgia	960	Washington	C1281
Hawaii	NA	West Virginia	9930C, 334
Illinois	200060	Wisconsin	998204680
Kansas*	E-10375	NFESC	NA
Louisiana*	30612	USACE	NA
Michigan	9947	USDA Foreign Plant	37-82605
Nevada	CA44	USDA Foreign Soil	P330-09-00055
New Jersey*	CA005	US Fish & Wildlife	LE148388-0
New Mexico	NA	Guam	09-014r

*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

TestAmerica West Sacramento Project Number G9I290217

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
LLNNV	1	242270	9/25/2009 07:15 AM	9/29/2009 09:00 AM
LLNNW	2	242271	9/25/2009 09:25 AM	9/29/2009 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as “ND” were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

G9l290217

Client Contact: Molly Ross	Project Manager:	Site Contact:	Date:	COC No:
Your Company Name here: American Scientific Lab	Tel/Fax:	Lab Contact:	Carrier:	of COCs
Address: 2520 N. San Fernando Road	Analysis Turnaround Time			Job No.
City/State/Zip: L.A. CA 90065	Calendar (C) or Work Days (W)			
(xxx) xxx-xxxx Phone: 323 223 9700	TAT if different from Below: Normal			SDG No.
(xxx) xxx-xxxx FAX: 323 223 9500	☑ 2 weeks			
Project Name: 43202	☐ 1 week			
Site:	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	EPA-5-1613B (Full List)	Sample Specific Notes:
242270	9-25-09	7:15		Soil	1 Jar		X	
242271	"	7:05		"	1 Jar		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Janet Chin	ASL	9-28-09 4:00pm		TAL WEST SAC	29 SEP 09 0910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

LOT RECEIPT CHECKLIST
TestAmerica West Sacramento

CLIENT American Scientific Labs PM JT LOG # 00992

LOT# (QUANTIMS ID) G9I290217 QUOTE# 35699 LOCATION W3C

Checked (✓)

DATE RECEIVED 29 Sep 09 TIME RECEIVED 0900 ☑

DELIVERED BY ☒ FEDEX 1129 Sep 09 ☒ ON TRAC 1129 Sep 09 ☐ CLIENT
☑ GOLDENSTATE ☐ UPS ☐ GO-GETTERS
☐ TAL COURIER ☐ VALLEY LOGISTICS ☐ OTHER
☐ TAL SF ☑

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☑ N/A ☑

CUSTODY SEAL #(S) n/a

SHIPPPING CONTAINER(S) ☐ TAL ☑ CLIENT ☐ N/A ☑

TEMPERTURE RECORD (IN °C) IR 4☐ 5☑ ☐ OTHER ☑

COC #(S) n/a ☑

TEMPERATURE BLANK Observed: n/a Corrected: n/a

SAMPLE TEMPERATURE

Observed: 3, 3, 2 Average 3 Corrected Average 3

COLLECTOR'S NAME: ☐ Verified from COC ☑ Not on COC Initials 1 Date 29 Sep 09

==========

pH MEASURED ☐ YES ☐ ANOMALY ☒ N/A ☑
LABELED BY..... ☑
LABELS CHECKED BY..... ☑
PEER REVIEW ☒ NA

SHORT HOLD TEST NOTIFICATION
SAMPLE RECEIVING ☑
WETCHEM ☒ N/A ☑
VOA-ENCORES ☒ N/A ☑

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☒ N/A ☑

☒ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A ☑

☐ CLOUSEA ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☒ N/A
☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Initials AL Date 9-29-09

Notes _____

*1 Acceptable temperature range for State of Wisconsin samples is≤4°C.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Bottle Lot Inventory

Lot ID: G9I290217

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
___AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
___CGJ																				
500CGJ																				
250CGJ																				
125CGJ	1	1																		
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
____"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

LEAVE NO SPACES BLANK - USE "N/A" IF NOT APPLICABLE - INITIAL AND DATE ALL "N/A" ENTRIES

SOLID, 1613B, Dioxins/Furans, HRGC/HRMS

American Scientific Laboratories LLC

Client Sample ID: 242270

Trace Level Organic Compounds

Lot-Sample #...: G9I290217-001 **Work Order #...:** LLNNV1AC **Matrix.....:** SOLID
Date Sampled...: 09/25/09 **Date Received..:** 09/29/09
Prep Date.....: 10/23/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9295515
Dilution Factor: 0.98
% Moisture.....: 7.2

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.1	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.3	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	5.3	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	**1.2 J,Q**	**5.3**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**1.2 J,Q**	**5.3**	**pg/g**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**14**	**5.3**	**pg/g**	**EPA-5 1613B**
OCDD	**160 B**	**11**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	ND	1.1	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDF	ND	5.3	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.3	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	ND	5.3	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDF	**0.68 J,Q**	**5.3**	**pg/g**	**EPA-5 1613B**
2,3,4,6,7,8-HxCDF	ND	5.3	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	5.3	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	**1.8 J**	**5.3**	**pg/g**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	ND	5.3	pg/g	EPA-5 1613B
OCDF	**11**	**11**	**pg/g**	**EPA-5 1613B**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	(25 - 164)
13C-1,2,3,7,8-PeCDD	60	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	60	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	77	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	66	(23 - 140)
13C-OCDD	55	(17 - 157)
13C-2,3,7,8-TCDF	64	(24 - 169)
13C-1,2,3,7,8-PeCDF	62	(24 - 185)
13C-2,3,4,7,8-PeCDF	56	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	73	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	75	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	73	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	68	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	62	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	65	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	84	(35 - 197)

(Continued on next page)

American Scientific Laboratories LLC

Client Sample ID: 242270

Trace Level Organic Compounds

Lot-Sample #...: G9I290217-001 **Work Order #...:** LLNNV1AC **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

American Scientific Laboratories LLC

Client Sample ID: 242271

Trace Level Organic Compounds

Lot-Sample #...: G9I290217-002 **Work Order #...:** LLNNW1AC **Matrix.....:** SOLID
Date Sampled...: 09/25/09 **Date Received..:** 09/29/09
Prep Date.....: 10/23/09 **Analysis Date..:** 10/29/09
Prep Batch #...: 9295515
Dilution Factor: 0.99
% Moisture.....: 7.5

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.1	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.4	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	**0.64 J**	**5.4**	**pg/g**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDD	**2.8 J**	**5.4**	**pg/g**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**1.5 J,Q**	**5.4**	**pg/g**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**120**	**5.4**	**pg/g**	**EPA-5 1613B**
OCDD	**1300 B**	**11**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	ND	1.1	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDF	ND	5.4	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.4	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	ND	5.4	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDF	ND	5.4	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	5.4	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	5.4	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	**18**	**5.4**	**pg/g**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	ND	5.4	pg/g	EPA-5 1613B
OCDF	**100**	**11**	**pg/g**	**EPA-5 1613B**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(25 - 164)
13C-1,2,3,7,8-PeCDD	79	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	82	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	98	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	95	(23 - 140)
13C-OCDD	88	(17 - 157)
13C-2,3,7,8-TCDF	84	(24 - 169)
13C-1,2,3,7,8-PeCDF	80	(24 - 185)
13C-2,3,4,7,8-PeCDF	72	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	93	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	102	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	97	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	98	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	94	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	88	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	83	(35 - 197)

(Continued on next page)

American Scientific Laboratories LLC

Client Sample ID: 242271

Trace Level Organic Compounds

Lot-Sample #...: G9I290217-002 **Work Order #...:** LLNNW1AC **Matrix.....:** SOLID

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

G9I290217

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	EPA-5 1613B		9295515	
	SOLID	ASTM D 2216-90		9281388	9281223
002	SOLID	EPA-5 1613B		9295515	
	SOLID	ASTM D 2216-90		9281388	9281223

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9I290217 **Work Order #...:** LM4MC1AA **Matrix.....:** SOLID
MB Lot-Sample #: G9J220000-515

Prep Date.....: 10/23/09
Analysis Date..: 10/28/09 **Prep Batch #...:** 9295515
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDD	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDD	ND	5.0	pg/g	EPA-5 1613B
OCDD	**1.1 J,Q**	**10**	**pg/g**	**EPA-5 1613B**
2,3,7,8-TCDF	ND	1.0	pg/g	EPA-5 1613B
1,2,3,7,8-PeCDF	ND	5.0	pg/g	EPA-5 1613B
2,3,4,7,8-PeCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,6,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
2,3,4,6,7,8-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,7,8,9-HxCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,6,7,8-HpCDF	ND	5.0	pg/g	EPA-5 1613B
1,2,3,4,7,8,9-HpCDF	ND	5.0	pg/g	EPA-5 1613B
OCDF	ND	10	pg/g	EPA-5 1613B

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	86	(25 - 164)
13C-1,2,3,7,8-PeCDD	79	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	84	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	102	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	90	(23 - 140)
13C-OCDD	80	(17 - 157)
13C-2,3,7,8-TCDF	83	(24 - 169)
13C-1,2,3,7,8-PeCDF	82	(24 - 185)
13C-2,3,4,7,8-PeCDF	77	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	105	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	98	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	94	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	97	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	88	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	94	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	84	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

(Continued on next page)

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9I290217 **Work Order #...:** LM4MC1AA **Matrix.....:** SOLID

NOTE(S):

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9I290217 **Work Order #...:** LM4MC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J220000-515
Prep Date.....: 10/23/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9295515
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2,3,7,8-TCDD	**112**	**(67 - 158)**	**EPA-5 1613B**
1,2,3,7,8-PeCDD	**109**	**(70 - 142)**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDD	**110**	**(70 - 164)**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDD	**110**	**(76 - 134)**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**117**	**(64 - 162)**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**107**	**(70 - 140)**	**EPA-5 1613B**
OCDD	**111**	**(78 - 144)**	**EPA-5 1613B**
2,3,7,8-TCDF	**102**	**(75 - 158)**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	**109**	**(80 - 134)**	**EPA-5 1613B**
2,3,4,7,8-PeCDF	**113**	**(68 - 160)**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDF	**109**	**(72 - 134)**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	**108**	**(84 - 130)**	**EPA-5 1613B**
2,3,4,6,7,8-HxCDF	**109**	**(70 - 156)**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDF	**111**	**(78 - 130)**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDF	**105**	**(82 - 122)**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	**109**	**(78 - 138)**	**EPA-5 1613B**
OCDF	**112**	**(63 - 170)**	**EPA-5 1613B**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9I290217 **Work Order #...:** LM4MC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J220000-515

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(25 - 164)
13C-1,2,3,7,8-PeCDD	86	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	81	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	96	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	90	(23 - 140)
13C-OCDD	75	(17 - 157)
13C-2,3,7,8-TCDF	89	(24 - 169)
13C-1,2,3,7,8-PeCDF	87	(24 - 185)
13C-2,3,4,7,8-PeCDF	78	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	93	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	96	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	93	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	90	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	87	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	85	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	84	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9I290217 **Work Order #...:** LM4MC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J220000-515
Prep Date.....: 10/23/09 **Analysis Date..:** 10/28/09
Prep Batch #...: 9295515
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
2,3,7,8-TCDD	**20.0**	**22.3**	**pg/g**	**112**	**EPA-5 1613B**
1,2,3,7,8-PeCDD	**100**	**109**	**pg/g**	**109**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDD	**100**	**110**	**pg/g**	**110**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDD	**100**	**110**	**pg/g**	**110**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDD	**100**	**117**	**pg/g**	**117**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDD	**100**	**107**	**pg/g**	**107**	**EPA-5 1613B**
OCDD	**200**	**221**	**pg/g**	**111**	**EPA-5 1613B**
2,3,7,8-TCDF	**20.0**	**20.4**	**pg/g**	**102**	**EPA-5 1613B**
1,2,3,7,8-PeCDF	**100**	**109**	**pg/g**	**109**	**EPA-5 1613B**
2,3,4,7,8-PeCDF	**100**	**113**	**pg/g**	**113**	**EPA-5 1613B**
1,2,3,4,7,8-HxCDF	**100**	**109**	**pg/g**	**109**	**EPA-5 1613B**
1,2,3,6,7,8-HxCDF	**100**	**108**	**pg/g**	**108**	**EPA-5 1613B**
2,3,4,6,7,8-HxCDF	**100**	**109**	**pg/g**	**109**	**EPA-5 1613B**
1,2,3,7,8,9-HxCDF	**100**	**111**	**pg/g**	**111**	**EPA-5 1613B**
1,2,3,4,6,7,8-HpCDF	**100**	**105**	**pg/g**	**105**	**EPA-5 1613B**
1,2,3,4,7,8,9-HpCDF	**100**	**109**	**pg/g**	**109**	**EPA-5 1613B**
OCDF	**200**	**225**	**pg/g**	**112**	**EPA-5 1613B**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9I290217 **Work Order #...:** LM4MC1AC **Matrix.....:** SOLID
LCS Lot-Sample#: G9J220000-515

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	87	(25 - 164)
13C-1,2,3,7,8-PeCDD	86	(25 - 181)
13C-1,2,3,4,7,8-HxCDD	81	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	96	(28 - 130)
13C-1,2,3,4,6,7,8-HpCDD	90	(23 - 140)
13C-OCDD	75	(17 - 157)
13C-2,3,7,8-TCDF	89	(24 - 169)
13C-1,2,3,7,8-PeCDF	87	(24 - 185)
13C-2,3,4,7,8-PeCDF	78	(21 - 178)
13C-1,2,3,6,7,8-HxCDF	93	(26 - 123)
13C-2,3,4,6,7,8-HxCDF	96	(28 - 136)
13C-1,2,3,7,8,9-HxCDF	93	(29 - 147)
13C-1,2,3,4,6,7,8-HpCDF	90	(28 - 143)
13C-1,2,3,4,7,8,9-HpCDF	87	(26 - 138)
13C-1,2,3,4,7,8-HxCDF	85	(26 - 152)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
37Cl4-2,3,7,8-TCDD	84	(35 - 197)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SOLID, D 2216-90, Percent Moisture

American Scientific Laboratories LLC

Client Sample ID: 242270

General Chemistry

Lot-Sample #...: G9I290217-001 **Work Order #...:** LLNNV **Matrix.....:** SOLID
Date Sampled...: 09/25/09 **Date Received..:** 09/29/09
% Moisture.....: 7.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**7.2**	**0.10**	**%**	**ASTM D 2216-90**	**10/08-10/09/09**	**9281388**

Dilution Factor: 1

American Scientific Laboratories LLC

Client Sample ID: 242271

General Chemistry

Lot-Sample #...: G9I290217-002 **Work Order #...:** LLNNW **Matrix.....:** SOLID
Date Sampled...: 09/25/09 **Date Received..:** 09/29/09
% Moisture.....: 7.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**7.5**	**0.10**	**%**	**ASTM D 2216-90**	**10/08-10/09/09**	**9281388**

Dilution Factor: 1

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 2
Date Received 10/06/2009
Date Reported 10/13/2009

Job Number	Ordered	Client
43306	10/06/2009	LARWQB

Project ID: BOEING SSFL ISRA 008
Project Name:

Site: 5800 Woolsey Canyon Road
Canoga Park, CA 91304

Enclosed are the results of analyses on 3 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

COC# № 52579 GLOBAL ID ____________ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 93306

CHAIN OF CUSTODY RECORD

Company: LA Regional Water Quality Control Board		Report To: Peter Raftery
Address: 320 W. 4th St. Ste 200	Project Name: Boeing SSFL ISRA 008	Address: 320 W. 4th St. 200 LA CA 90013
LA CA 90013	Site Address: 5800 Woolsey Canyon Rd.	Invoice To: Art Lennox (818) 466-8775
Telephone: (213) 576-6724 Fax: (213) 576-	Canoga Park, CA 91304	Address: SSFL 5800 Woolsey Canyon Rd
Special Instruction:	Project ID: Lori Blakely	Canoga Park CA 91304-1146
E-mail: [illegible]@waterboards.ca.gov	Project Manager: Art Lennox	P.O.#:

ANALYSIS REQUESTED: PCBs, Asbestos

ITEM	LAB USE ONLY Lab ID	Sample ID	Date	Time	Container(s) #	Container(s) Type	Matrix	Preservation	PCBs	Asbestos	Remarks
	242807	HEET [illegible]	10/6/09	10:30 A.M.	1	Stainless steel sleeve	Soil	Ice	X	X	
	242808	[illegible]	10/6/09	10:35	1	Stainless steel sleeve	Soil	Ice	X	✓	
	242809	[illegible] 2	10/6/09	10:38	1	Stainless steel sleeve	Soil	Ice	X	X	

Collected By: [illegible]	Date [illegible]	Time [illegible]	Relinquished By: [illegible]	Date [illegible]	Time [illegible]
Relinquished By: [illegible]	Date [illegible]	Time [illegible]	Received For Laboratory Janet Chin	Date 10/6/09	Time 11:55
Received By: [illegible]	Date 10-6-09	Time 10:46	Condition of Sample:		

TAT: ☑ Normal ☐ Rush

White - Report. Yellow - Laboratory. Pink - Client

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone: (213)576-6724
Attn: Peter Raftery

Site

5800 Woolsey Canyon Road
Canoga Park, CA 91304

Page: **2**

Project ID: BOEING SSFL ISRA 008

ASL Job Number	Submitted	Client
43306	10/06/2009	LARWQB

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

QC Batch No: 100609-1

Our Lab I.D.		242807	242808	242809		
Client Sample I.D.		HZET 1000-5001R WQCB	HZET 1001-5001R WQCB	HZET 1001-5002R WQCB		
Date Sampled		10/06/2009	10/06/2009	10/06/2009		
Date Prepared		10/06/2009	10/06/2009	10/06/2009		
Preparation Method						
Date Analyzed		10/06/2009	10/06/2009	10/06/2009		
Matrix		Soil	Soil	Soil		
Units		ug/kg	ug/kg	ug/kg		
Dilution Factor		1	1	1		
Analytes	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	33.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	67.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	33.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	33.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	33.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	33.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	33.0	ND	ND	ND		

Our Lab I.D.		242807	242808	242809		
Surrogates	**% Rec.Limit**	**% Rec.**	**% Rec.**	**% Rec.**		
Surrogate Percent Recovery						
Decachlorobiphenyl	43-169	95	107	114		

QUALITY CONTROL REPORT

QC Batch No: 100609-1

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1260 (PCB-1260)	114	129	12.3	39-150	<30	121	117	3.4	39-150	<30

SUBMITTAL FORM/*Laboratory Services*

PAGE ___ OF ___

TURNAROUND TIME: STD ✓ 48 HR. ___ 24 HR. ___
<8 HR. ___ WKND ___ OTHER: ___

◗ RELINQUISHED BY Alex
◗ TIME / DATE 13:00 10/6/09

◗ CLIENT American Scientific Labs.
◗ ADDRESS 2500 N. San Fernando Road L.A. CA 90065
◗ TELEPHONE 323 223 9700
◗ CONTACT Molky Brar

◗ DATE OF SHIPMENT ___ ◗ CARRIER ___
◗ CLIENT P.O. NO. ___
◗ CLIENT JOB/PROJECT ID NO(S). 43306
◗ PACKAGE SHIPPED FROM ___

◗ RESULTS REQUESTED VIA VERBAL ☐ FAX ☐ E-MAIL ☐ E-MAIL molky@asllab.com
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal, fax or e-mail results) FAX NO. ___

◗ DATE/TIME OF SAMPLE COLLECTION 10-6.09
◗ SAMPLE PRESERVATIVES ___ HOLDING TIMES ___
◗ NO. OF SAMPLES SENT 3 SAMPLER'S NAME ___ (SIGNATURE / PRINTED)
◗ TYPE: ☐ WATER ☐ WASTE WATER ☑ SOIL ☐ FILTER ☐ SORBENT TUBE ☐ IMPINGER ☐ OTHER ___

(FOR EMS ONLY) EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME-WEIGHT (IF APPLICABLE)
	242807	10-6-09 10:30 Asbestos (NIOSH 9002)	1 Jar
	242808	" 10:35 " "	"
	242809	" 10:38 " "	"

132792

◗ Laboratory No. ___ ◗ Received By ___ ◗ Time 1:05
◗ Date of Package Delivery 10-6-09 ◗ Shipping Bill Retained: YES ☐ NONE ☒
◗ Condition of Package on Receipt OK ◗ Condition of Custody Seal None
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)

FOR EMS ONLY

◗ No. of Samples 3 ◗ Chain-of-Custody Signature ___
◗ Date of Acceptance into Sample Bank 10-6-09 ◗ Misc. Info. ___
◗ Disposition of Samples EMS LABS

PLM Report

Report No: 132792
Date: October 13, 2009
Date Received: October 6, 2009
Date Analyzed: October 12, 2009
Date/Time Collected: 6/9/09
Subject: Polarized Light Microscopy Analysis for Asbestos
Methodology: "Method for Determination of Asbestos in Bulk Building Materials." EPA 600/R-93/116
Accredited: NVLAP Lab Code 101218-0
Certified: California Department of Health Services Environmental Testing Laboratory ELAP 1119
County Sanitation Districts of Los Angeles County, Lab ID No. 10120

Customer: American Scientific Labs.
2520 N. San Fernando Road
Los Angeles, CA 90065
Attention: Molky Brar
Reference: 43306
3 Samples

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

Sample ID	Location / Description	Visual Description	Asbestiform Minerals	Other Fibrous Materials	Non-fibrous Materials
242807	NON-FRIABLE	BROWN GRANULAR	NONE DETECTED	CELLULOSE <1%, CLEAVAGE FRGMT 3%	GRANULAR MINERALS, OPAQUES
242808	NON-FRIABLE	BROWN GRANULAR	NONE DETECTED	CELLULOSE <1%, CLEAVAGE FRGMT 2%	GRANULAR MINERALS, OPAQUES
242809	NON-FRIABLE	BROWN GRANULAR	NONE DETECTED	CELLULOSE <1%, CLEAVAGE FRGMT 3%	GRANULAR MINERALS, OPAQUES

Optical Microscopist

B.M. Kolk, Laboratory Director

BMK/mt

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 3
Date Received 10/07/2009
Date Reported 10/15/2009

Job Number	Ordered	Client
43320	10/07/2009	LARWQB

Project ID: SSFL
Project Name:

Site: 5800 Woolsey Canyon Road
Canoga Park, CA

Enclosed are the results of analyses on 2 samples analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page ____ Of ____

COC# № 52541 GLOBAL ID ________ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43320

Company: L.A. REGIONAL WATER QUALITY CONTROL BOARD	Report To: PETER RAFTERY
Address: 320 W. 4th ST. STE 200, L.A. CA. 90013	Project Name: SSFL
Site Address: 5800 Woolsey Cyn RD. CANOGA PARK, CA.	Address: 320 W. 4th ST. L.A. 90013
Telephone: 213.576.6724	Invoice To: ART LENOX
Fax: 213 576.6717	Address: 5800 Woolsey Cyn Rd. CANOGA PARK, CA.
Special Instruction:	Project ID:
E-mail: PRAFTERY@WATERBOARDS.CA.GOV	Project Manager: Art Lenox / Lori Blair
	P.O.#:

ANALYSIS REQUESTED: LEAD 6010; PCBs (8082)

ITEM	LAB USE ONLY Lab ID	Sample ID	Date	Time	#	Type	Matrix	Preservation	LEAD 6010	PCBs (8082)	Remarks
	242840	HZETO238-SOIL-RIQ0G2	5 Oct 09	1 55 PM	1	Stainless Steel Sample Scoop	Soil	Ice	X	X	
	242841	HZETO238-SOIL-RIQ0G3	5 Oct 09	2 00 PM	1	↓	↓	↓	X	X	

Collected By: Adam Gouchberg	Date 10-5-09 Time 1355	Relinquished By: [signature]	Date 7 Oct. 09 Time 12 15
Relinquished By: [signature]	Date 10-5-09 Time 1355	Received For Laboratory: Janet Chin	Date 10.7.09 Time 12:15
Received By: [signature]	Date 5 Oct 09 Time 13 55	Condition of Sample:	

TAT: ☑ Normal ☐ Rush

White - Report, Yellow - Laboratory, Pink - Client

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone: (213)576-6724
Attn: Peter Raftery

Page: **2**

Project ID: SSFL

Site

5800 Woolsey Canyon Road
Canoga Park, CA

ASL Job Number	Submitted	Client
43320	10/07/2009	LARWQB

Method: 6010B, Lead (ICP)

QC Batch No: 100809-1

Our Lab I.D.		**242840**	**242841**			
Client Sample I.D.		HZET 0237-5001-R WQC	HZET 0238-5001-R WQCB			
Date Sampled		**10/05/2009**	**10/05/2009**			
Date Prepared		**10/08/2009**	**10/08/2009**			
Preparation Method						
Date Analyzed		**10/08/2009**	**10/08/2009**			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	**PQL**	**Results**	**Results**			
ICP Metals						
Lead	**0.250**	**3.08**	**3.62**			

QUALITY CONTROL REPORT

QC Batch No: 100809-1

Analytes	LCS % REC	LCS/LCSD % Limit								
ICP Metals										
Lead	**90**	**80-120**								

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
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ANALYTICAL RESULTS

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone: (213)576-6724
Attn: Peter Raftery

Page: **3**

Project ID: SSFL

Site

5800 Woolsey Canyon Road
Canoga Park, CA

ASL Job Number	Submitted	Client
43320	10/07/2009	LARWQB

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

QC Batch No: 100909-1

Our Lab I.D.		242840	242841			
Client Sample I.D.		HZET 0237-5001-R WQC	HZET 0238-5001-R WQCB			
Date Sampled		10/05/2009	10/05/2009			
Date Prepared		10/09/2009	10/09/2009			
Preparation Method						
Date Analyzed		10/09/2009	10/09/2009			
Matrix		Soil	Soil			
Units		ug/kg	ug/kg			
Dilution Factor		1	1			
Analytes	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	33.0	ND	ND			
Aroclor-1221 (PCB-1221)	67.0	ND	ND			
Aroclor-1232 (PCB-1232)	33.0	ND	ND			
Aroclor-1242 (PCB-1242)	33.0	ND	ND			
Aroclor-1248 (PCB-1248)	33.0	ND	ND			
Aroclor-1254 (PCB-1254)	33.0	ND	ND			
Aroclor-1260 (PCB-1260)	33.0	ND	ND			

Our Lab I.D.		242840	242841			
Surrogates	**% Rec.Limit**	**% Rec.**	**% Rec.**			
Surrogate Percent Recovery						
Decachlorobiphenyl	43-169	96	98			

QUALITY CONTROL REPORT

QC Batch No: 100909-1

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1260 (PCB-1260)	107	113	5.5	39-150	<30	106	103	2.9	39-150	<30

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 2
Date Received 10/19/2009
Date Reported 10/21/2009

Job Number	Ordered	Client
43477	10/19/2009	LARWQB

Project ID: BOEING SSFL
Project Name:

Site: 5800 Woolsey Canyon Road
Canoga Park, CA 91304

Enclosed are the results of analyses on 1 sample analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

Page ____ Of ____

COC# № 52592 GLOBAL ID ____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43477

Company: Los Angeles Regional Water Quality Control Board
Address: 320 W, 6th ST. Suite 200, Los Angeles, CA 90013
Telephone: 213.576.6724
Fax: 213.576.6717
Special Instruction:
E-mail: PRAFTERY@WATERBOARDS.CA.GOV

Project Name: Boeing SSFL
Site Address: 5800 Woolsey Cyn Rd, CANOGA PARK, CA 91304
Project ID:
Project Manager: ART LENOX

Report To: PETER RAFTERY
Address: 320 W. 4th ST. Suite 200, Los Angeles CA. 90013
Invoice To: Art Lenox, Boeing Co.
Address: 5800 Woolsey Cyn Rd., CANOGA PARK, CA 91304
P.O.#:

ANALYSIS REQUESTED: Dioxin; Copper 6020; PCBs; Asbestos; LEAD 6020

ITEM	LAB USE ONLY Lab ID	Sample ID	Date	Time	Container(s) #	Type	Matrix	Preservation	Dioxin	Copper 6020	PCBs	Asbestos	LEAD 6020							Remarks
1	243646	HZET 0726 S001 RWQCB	19 OCT 09	8:55	1	Stainless Steel Sleeve	Soil	ICE	X	X										
2	243647	HZET 0727 S001 RWQCB	19 oct 09	9:05	1	Stainless Steel Sleeve	"	"	X	X										
3	243648	HZET 1002 S001 RWQCB	19 oct 09	10:00	1	Stainless Steel Sleeve	"	"	~~X~~		X	X								
		~~HZET S001~~	~~19 oct 09~~		1	~~Stainless Steel Sleeve~~	~~"~~	~~"~~					~~X~~							
4	243649	HZET 1100 S001 RWQCB	19 oct 09	12:05	1	Stainless Steel Sleeve			X				X							

Collected By: ADAM GOLDENBERG Date 10/19/09 Time ~~10:07~~ 12:04
Relinquished By: [signature] Date 10/19/09 Time ~~10:07~~ 12:04
Received By: [signature] Date 19 Oct 09 Time ~~10:07~~ 12:09

Relinquished By: Date Time
Received For Laboratory Janet Chin Date 10.19.09 Time 1:15
Condition of Sample:

TAT
☐ Normal
☒ Rush 48 hr

Except - Dioxin

White - Report, **Yellow** - Laboratory, **Pink** - Client

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

ANALYTICAL RESULTS

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone: (213)576-6724
Attn: Peter Raftery

Site

5800 Woolsey Canyon Road
Canoga Park, CA 91304

Page: **2**

Project ID: BOEING SSFL

ASL Job Number	Submitted	Client
43477	10/19/2009	LARWQB

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

QC Batch No: 102009-1

Our Lab I.D.		**243648**				
Client Sample I.D.		HZET 1002 5001 RWQCB				
Date Sampled		**10/19/2009**				
Date Prepared		**10/20/2009**				
Preparation Method						
Date Analyzed		**10/20/2009**				
Matrix		Soil				
Units		ug/kg				
Dilution Factor		1				
Analytes	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	**33.0**	**ND**				
Aroclor-1221 (PCB-1221)	**67.0**	**ND**				
Aroclor-1232 (PCB-1232)	**33.0**	**ND**				
Aroclor-1242 (PCB-1242)	**33.0**	**ND**				
Aroclor-1248 (PCB-1248)	**33.0**	**ND**				
Aroclor-1254 (PCB-1254)	**33.0**	**ND**				
Aroclor-1260 (PCB-1260)	**33.0**	**ND**				

Our Lab I.D.		**243648**				
Surrogates	**% Rec.Limit**	**% Rec.**				
Surrogate Percent Recovery						
Decachlorobiphenyl	**43-169**	**102**				

QUALITY CONTROL REPORT

QC Batch No: 102009-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
Aroclor-1260 (PCB-1260)	**108**	**108**	**<1**	**39-150**	**<30**					

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243646	**Units:**	ng/Kg
Lab Code:	E0900926-001	**Basis:**	Dry
		Percent Solids:	97.6

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 1217
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.376g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204642	**Blank File Name:**	P204639
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0395	0.987			1
1,2,3,7,8-PeCDD	ND	U	0.0273	4.94			1
1,2,3,4,7,8-HxCDD	ND	U	0.0840	4.94			1
1,2,3,6,7,8-HxCDD	ND	U	0.106	4.94			1
1,2,3,7,8,9-HxCDD	ND	U	0.0909	4.94			1
1,2,3,4,6,7,8-HpCDD	**0.152**	BJK	0.0572	4.94	1.26	1.000	1
OCDD	**1.76**	BJ	0.252	9.87	0.95	1.000	1
2,3,7,8-TCDF	ND	U	0.0164	0.987			1
1,2,3,7,8-PeCDF	ND	U	0.0136	4.94			1
2,3,4,7,8-PeCDF	ND	U	0.0131	4.94			1
1,2,3,4,7,8-HxCDF	ND	U	0.0193	4.94			1
1,2,3,6,7,8-HxCDF	ND	U	0.0211	4.94			1
1,2,3,7,8,9-HxCDF	ND	U	0.0289	4.94			1
2,3,4,6,7,8-HxCDF	ND	U	0.0189	4.94			1
1,2,3,4,6,7,8-HpCDF	ND	U	0.154	4.94			1
1,2,3,4,7,8,9-HpCDF	ND	U	0.146	4.94			1
OCDF	ND	U	0.111	9.87			1
Total Tetra-Dioxins	ND	U	0.0395	0.987			1
Total Penta-Dioxins	ND	U	0.0273	4.94			1
Total Hexa-Dioxins	ND	U	0.0840	4.94			1
Total Hepta-Dioxins	**0.208**	J	0.0572	4.94	1.08		1
Total Tetra-Furans	ND	U	0.0164	0.987			1
Total Penta-Furans	ND	U	0.0131	4.94			1
Total Hexa-Furans	ND	U	0.0193	4.94			1
Total Hepta-Furans	ND	U	0.154	4.94			1

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243646	**Units:**	Percent
Lab Code:	E0900926-001	**Basis:**	Dry
		Percent Solids:	97.6

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 1217
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.376g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204642	**Blank File Name:**	P204639
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1397.025	70		25-164	0.76	1.009
13C-1,2,3,7,8-PeCDD	2000	1523.956	76		25-181	1.55	1.166
13C-1,2,3,4,7,8-HxCDD	2000	1437.761	72		32-141	1.23	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1553.515	78		28-130	1.22	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1266.242	63		23-140	1.05	1.068
13C-OCDD	4000	1482.291	37		17-157	0.91	1.149
13C-2,3,7,8-TCDF	2000	1350.942	68		24-169	0.78	0.981
13C-1,2,3,7,8-PeCDF	2000	1365.960	68		24-185	1.50	1.129
13C-2,3,4,7,8-PeCDF	2000	1245.262	62		21-178	1.50	1.155
13C-1,2,3,4,7,8-HxCDF	2000	1295.849	65		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1511.186	76		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1464.051	73		29-147	0.51	1.007
13C-2,3,4,6,7,8-HxCDF	2000	1478.880	74		28-136	0.50	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1035.429	52		28-143	0.42	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1585.496	79		26-138	0.42	1.080
37Cl-2,3,7,8-TCDD	800	604.502	76		35-197	NA	1.010

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243646	**Units:**	ng/Kg
Lab Code:	E0900926-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0395	1	1	
1,2,3,7,8-PeCDD	ND	0.0273	1	1	
1,2,3,4,7,8-HxCDD	ND	0.0840	1	0.1	
1,2,3,6,7,8-HxCDD	ND	0.106	1	0.1	
1,2,3,7,8,9-HxCDD	ND	0.0909	1	0.1	
1,2,3,4,6,7,8-HpCDD	**0.152**	0.0572	1	0.01	0.00152
OCDD	**1.76**	0.252	1	0.0003	0.000528
2,3,7,8-TCDF	ND	0.0164	1	0.1	
1,2,3,7,8-PeCDF	ND	0.0136	1	0.03	
2,3,4,7,8-PeCDF	ND	0.0131	1	0.3	
1,2,3,4,7,8-HxCDF	ND	0.0193	1	0.1	
1,2,3,6,7,8-HxCDF	ND	0.0211	1	0.1	
1,2,3,7,8,9-HxCDF	ND	0.0289	1	0.1	
2,3,4,6,7,8-HxCDF	ND	0.0189	1	0.1	
1,2,3,4,6,7,8-HpCDF	ND	0.154	1	0.01	
1,2,3,4,7,8,9-HpCDF	ND	0.146	1	0.01	
OCDF	ND	0.111	1	0.0003	
		Total TEQ			0.00205

2005 WHO TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243647	**Units:**	ng/Kg
Lab Code:	E0900926-002	**Basis:**	Dry
		Percent Solids:	89.2

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 1305
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.434g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204643	**Blank File Name:**	P204639
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0281	1.07			1
1,2,3,7,8-PeCDD	ND	U	0.0359	5.37			1
1,2,3,4,7,8-HxCDD	ND	U	0.0404	5.37			1
1,2,3,6,7,8-HxCDD	ND	U	0.0532	5.37			1
1,2,3,7,8,9-HxCDD	ND	U	0.0449	5.37			1
1,2,3,4,6,7,8-HpCDD	**0.395**	BJ	0.0301	5.37	0.92	1.001	1
OCDD	**3.11**	BJ	0.144	10.7	0.94	1.000	1
2,3,7,8-TCDF	ND	U	0.0179	1.07			1
1,2,3,7,8-PeCDF	ND	U	0.0309	5.37			1
2,3,4,7,8-PeCDF	ND	U	0.0236	5.37			1
1,2,3,4,7,8-HxCDF	ND	U	0.0235	5.37			1
1,2,3,6,7,8-HxCDF	ND	U	0.0233	5.37			1
1,2,3,7,8,9-HxCDF	ND	U	0.0365	5.37			1
2,3,4,6,7,8-HxCDF	ND	U	0.0236	5.37			1
1,2,3,4,6,7,8-HpCDF	ND	U	0.108	5.37			1
1,2,3,4,7,8,9-HpCDF	ND	U	0.128	5.37			1
OCDF	**0.139**	JK	0.116	10.7	0.59	1.004	1
Total Tetra-Dioxins	ND	U	0.0281	1.07			1
Total Penta-Dioxins	ND	U	0.0359	5.37			1
Total Hexa-Dioxins	ND	U	0.0404	5.37			1
Total Hepta-Dioxins	**0.735**	J	0.0301	5.37	1.11		1
Total Tetra-Furans	ND	U	0.0179	1.07			1
Total Penta-Furans	ND	U	0.0236	5.37			1
Total Hexa-Furans	ND	U	0.0235	5.37			1
Total Hepta-Furans	ND	U	0.108	5.37			1

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243647	**Units:**	Percent
Lab Code:	E0900926-002	**Basis:**	Dry
		Percent Solids:	89.2

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 1305
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.434g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204643	**Blank File Name:**	P204639
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1283.207	64		25-164	0.75	1.009
13C-1,2,3,7,8-PeCDD	2000	1575.571	79		25-181	1.50	1.165
13C-1,2,3,4,7,8-HxCDD	2000	1493.139	75		32-141	1.21	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1458.829	73		28-130	1.26	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1231.005	62		23-140	1.03	1.068
13C-OCDD	4000	1454.642	36		17-157	0.89	1.149
13C-2,3,7,8-TCDF	2000	1124.480	56		24-169	0.75	0.981
13C-1,2,3,7,8-PeCDF	2000	1311.672	66		24-185	1.52	1.129
13C-2,3,4,7,8-PeCDF	2000	1442.395	72		21-178	1.49	1.155
13C-1,2,3,4,7,8-HxCDF	2000	1215.482	61		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1521.293	76		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1357.252	68		29-147	0.49	1.007
13C-2,3,4,6,7,8-HxCDF	2000	1368.349	68		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1173.160	59		28-143	0.41	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1532.737	77		26-138	0.41	1.080
37Cl-2,3,7,8-TCDD	800	520.832	65		35-197	NA	1.010

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243647	**Units:**	ng/Kg
Lab Code:	E0900926-002	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0281	1	1	
1,2,3,7,8-PeCDD	ND	0.0359	1	1	
1,2,3,4,7,8-HxCDD	ND	0.0404	1	0.1	
1,2,3,6,7,8-HxCDD	ND	0.0532	1	0.1	
1,2,3,7,8,9-HxCDD	ND	0.0449	1	0.1	
1,2,3,4,6,7,8-HpCDD	**0.395**	0.0301	1	0.01	0.00395
OCDD	**3.11**	0.144	1	0.0003	0.000933
2,3,7,8-TCDF	ND	0.0179	1	0.1	
1,2,3,7,8-PeCDF	ND	0.0309	1	0.03	
2,3,4,7,8-PeCDF	ND	0.0236	1	0.3	
1,2,3,4,7,8-HxCDF	ND	0.0235	1	0.1	
1,2,3,6,7,8-HxCDF	ND	0.0233	1	0.1	
1,2,3,7,8,9-HxCDF	ND	0.0365	1	0.1	
2,3,4,6,7,8-HxCDF	ND	0.0236	1	0.1	
1,2,3,4,6,7,8-HpCDF	ND	0.108	1	0.01	
1,2,3,4,7,8,9-HpCDF	ND	0.128	1	0.01	
OCDF	**0.139**	0.116	1	0.0003	0.0000417
		Total TEQ			0.00492

2005 WHO TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243649	**Units:**	ng/Kg
Lab Code:	E0900926-003	**Basis:**	Dry
		Percent Solids:	93.8

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 1352
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.510g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204644	**Blank File Name:**	P204639
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0159	1.01			1
1,2,3,7,8-PeCDD	ND	U	0.0325	5.07			1
1,2,3,4,7,8-HxCDD	ND	U	0.0373	5.07			1
1,2,3,6,7,8-HxCDD	**1.37**	J	0.0506	5.07	1.23	1.000	1
1,2,3,7,8,9-HxCDD	**1.43**	J	0.0421	5.07	1.38	1.008	1
1,2,3,4,6,7,8-HpCDD	ND	U	0.0403	5.07			1
OCDD	**0.588**	BJ	0.118	10.1	0.96	1.000	1
2,3,7,8-TCDF	ND	U	0.0199	1.01			1
1,2,3,7,8-PeCDF	ND	U	0.0181	5.07			1
2,3,4,7,8-PeCDF	ND	U	0.0130	5.07			1
1,2,3,4,7,8-HxCDF	ND	U	0.0217	5.07			1
1,2,3,6,7,8-HxCDF	**0.890**	J	0.0227	5.07	1.36	1.001	1
1,2,3,7,8,9-HxCDF	ND	U	0.0315	5.07			1
2,3,4,6,7,8-HxCDF	ND	U	0.0200	5.07			1
1,2,3,4,6,7,8-HpCDF	ND	U	0.0807	5.07			1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0937	5.07			1
OCDF	ND	U	0.0890	10.1			1
Total Tetra-Dioxins	ND	U	0.0159	1.01			1
Total Penta-Dioxins	ND	U	0.0325	5.07			1
Total Hexa-Dioxins	**2.80**	J	0.0373	5.07	1.23		1
Total Hepta-Dioxins	ND	U	0.0403	5.07			1
Total Tetra-Furans	ND	U	0.0199	1.01			1
Total Penta-Furans	ND	U	0.0130	5.07			1
Total Hexa-Furans	**0.890**	J	0.0217	5.07	1.36		1
Total Hepta-Furans	ND	U	0.0807	5.07			1

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243649	**Units:**	Percent
Lab Code:	E0900926-003	**Basis:**	Dry
		Percent Solids:	93.8

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 1352
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.510g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204644	**Blank File Name:**	P204639
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1137.677	57		25-164	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	1517.050	76		25-181	1.51	1.166
13C-1,2,3,4,7,8-HxCDD	2000	1384.043	69		32-141	1.22	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1446.369	72		28-130	1.23	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1243.168	62		23-140	1.03	1.068
13C-OCDD	4000	1425.970	36		17-157	0.86	1.149
13C-2,3,7,8-TCDF	2000	998.277	50		24-169	0.74	0.981
13C-1,2,3,7,8-PeCDF	2000	1210.281	61		24-185	1.51	1.130
13C-2,3,4,7,8-PeCDF	2000	1338.341	67		21-178	1.51	1.155
13C-1,2,3,4,7,8-HxCDF	2000	1060.287	53		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1390.217	70		26-123	0.50	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1344.888	67		29-147	0.51	1.007
13C-2,3,4,6,7,8-HxCDF	2000	1335.189	67		28-136	0.50	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1190.585	60		28-143	0.42	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1555.803	78		26-138	0.40	1.080
37Cl-2,3,7,8-TCDD	800	481.145	60		35-197	NA	1.010

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	10/19/09 0000
Sample Matrix:	Soil	**Date Received:**	10/21/09
Sample Name:	243649	**Units:**	ng/Kg
Lab Code:	E0900926-003	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0159	1	1	
1,2,3,7,8-PeCDD	ND	0.0325	1	1	
1,2,3,4,7,8-HxCDD	ND	0.0373	1	0.1	
1,2,3,6,7,8-HxCDD	**1.37**	0.0506	1	0.1	0.137
1,2,3,7,8,9-HxCDD	**1.43**	0.0421	1	0.1	0.143
1,2,3,4,6,7,8-HpCDD	ND	0.0403	1	0.01	
OCDD	**0.588**	0.118	1	0.0003	0.000176
2,3,7,8-TCDF	ND	0.0199	1	0.1	
1,2,3,7,8-PeCDF	ND	0.0181	1	0.03	
2,3,4,7,8-PeCDF	ND	0.0130	1	0.3	
1,2,3,4,7,8-HxCDF	ND	0.0217	1	0.1	
1,2,3,6,7,8-HxCDF	**0.890**	0.0227	1	0.1	0.0890
1,2,3,7,8,9-HxCDF	ND	0.0315	1	0.1	
2,3,4,6,7,8-HxCDF	ND	0.0200	1	0.1	
1,2,3,4,6,7,8-HpCDF	ND	0.0807	1	0.01	
1,2,3,4,7,8,9-HpCDF	ND	0.0937	1	0.01	
OCDF	ND	0.0890	1	0.0003	
		Total TEQ			0.369

2005 WHO TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/Kg
Lab Code:	EQ0900434-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 0955
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204639	**Blank File Name:**	EQ434
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0328	1.00			1
1,2,3,7,8-PeCDD	ND	U	0.0400	5.00			1
1,2,3,4,7,8-HxCDD	ND	U	0.0374	5.00			1
1,2,3,6,7,8-HxCDD	ND	U	0.0516	5.00			1
1,2,3,7,8,9-HxCDD	ND	U	0.0424	5.00			1
1,2,3,4,6,7,8-HpCDD	**0.160**	JK	0.0391	5.00	1.83	1.000	1
OCDD	**0.580**	JK	0.115	10.0	1.09	1.000	1
2,3,7,8-TCDF	ND	U	0.0191	1.00			1
1,2,3,7,8-PeCDF	ND	U	0.0328	5.00			1
2,3,4,7,8-PeCDF	ND	U	0.0294	5.00			1
1,2,3,4,7,8-HxCDF	ND	U	0.0373	5.00			1
1,2,3,6,7,8-HxCDF	ND	U	0.0379	5.00			1
1,2,3,7,8,9-HxCDF	ND	U	0.0521	5.00			1
2,3,4,6,7,8-HxCDF	ND	U	0.0369	5.00			1
1,2,3,4,6,7,8-HpCDF	ND	U	0.0589	5.00			1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0653	5.00			1
OCDF	ND	U	0.0744	10.0			1
Total Tetra-Dioxins	ND	U	0.0328	1.00			1
Total Penta-Dioxins	ND	U	0.0400	5.00			1
Total Hexa-Dioxins	ND	U	0.0374	5.00			1
Total Hepta-Dioxins	ND	U	0.0391	5.00			1
Total Tetra-Furans	ND	U	0.0191	1.00			1
Total Penta-Furans	ND	U	0.0294	5.00			1
Total Hexa-Furans	ND	U	0.0373	5.00			1
Total Hepta-Furans	ND	U	0.0589	5.00			1

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ0900434-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/26/09 0955
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204639	**Blank File Name:**	EQ434
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204638

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1428.970	71		25-164	0.77	1.009
13C-1,2,3,7,8-PeCDD	2000	1812.202	91		25-181	1.54	1.165
13C-1,2,3,4,7,8-HxCDD	2000	2030.244	102		32-141	1.22	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1807.747	90		28-130	1.22	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1543.413	77		23-140	1.05	1.068
13C-OCDD	4000	1809.183	45		17-157	0.87	1.149
13C-2,3,7,8-TCDF	2000	1262.143	63		24-169	0.73	0.981
13C-1,2,3,7,8-PeCDF	2000	1526.802	76		24-185	1.51	1.128
13C-2,3,4,7,8-PeCDF	2000	1618.649	81		21-178	1.51	1.154
13C-1,2,3,4,7,8-HxCDF	2000	1497.123	75		26-152	0.50	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1856.737	93		26-123	0.50	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1742.315	87		29-147	0.52	1.007
13C-2,3,4,6,7,8-HxCDF	2000	1843.440	92		28-136	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1487.197	74		28-143	0.42	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	2021.155	101		26-138	0.42	1.080
37Cl-2,3,7,8-TCDD	800	569.206	71		35-197	NA	1.009

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	ng/Kg
Lab Code:	EQ0900434-02	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/25/09 1909
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P105745	**Blank File Name:**	P204639
ICAL Date:	07/29/09	**Cal Ver. File Name:**	P105732

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	**18.5**		0.0970	1.00	0.76	1.001	1
1,2,3,7,8-PeCDD	**96.2**		0.0820	5.00	1.58	1.000	1
1,2,3,4,7,8-HxCDD	**86.3**		0.104	5.00	1.26	1.000	1
1,2,3,6,7,8-HxCDD	**110**		0.126	5.00	1.26	1.000	1
1,2,3,7,8,9-HxCDD	**86.7**		0.109	5.00	1.27	1.008	1
1,2,3,4,6,7,8-HpCDD	**96.6**		0.164	5.00	1.06	1.000	1
OCDD	**218**		0.243	10.0	0.90	1.000	1
2,3,7,8-TCDF	**17.9**		0.101	1.00	0.76	1.001	1
1,2,3,7,8-PeCDF	**90.4**		0.0562	5.00	1.45	1.000	1
2,3,4,7,8-PeCDF	**93.9**		0.0553	5.00	1.57	1.000	1
1,2,3,4,7,8-HxCDF	**98.9**		0.0916	5.00	1.27	1.000	1
1,2,3,6,7,8-HxCDF	**93.2**		0.0828	5.00	1.26	1.000	1
1,2,3,7,8,9-HxCDF	**86.4**		0.127	5.00	1.29	1.000	1
2,3,4,6,7,8-HxCDF	**93.5**		0.0937	5.00	1.22	1.000	1
1,2,3,4,6,7,8-HpCDF	**87.3**		0.209	5.00	1.03	1.000	1
1,2,3,4,7,8,9-HpCDF	**89.7**		0.247	5.00	0.99	1.000	1
OCDF	**237**		0.273	10.0	0.92	1.004	1
Total Tetra-Dioxins	**18.7**		0.0970	1.00	0.76		1
Total Penta-Dioxins	**96.2**		0.0820	5.00	1.58		1
Total Hexa-Dioxins	**283**		0.104	5.00	1.26		1
Total Hepta-Dioxins	**96.6**		0.164	5.00	1.06		1
Total Tetra-Furans	**17.9**		0.101	1.00	0.76		1
Total Penta-Furans	**185**		0.0553	5.00	1.45		1
Total Hexa-Furans	**372**		0.0916	5.00	1.27		1
Total Hepta-Furans	**177**		0.209	5.00	1.03		1

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900926
Project:	Subcontracted High Res Testing/43477	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ0900434-02	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	10/25/09 1909
Prep Method:	Method	**Date Extracted:**	10/21/09
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-03
		GC Column:	DB-5
Data File Name:	P105745	**Blank File Name:**	P204639
ICAL Date:	07/29/09	**Cal Ver. File Name:**	P105732

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1386.115	69		20-175	0.77	1.009
13C-1,2,3,7,8-PeCDD	2000	1400.281	70		21-227	1.55	1.174
13C-1,2,3,4,7,8-HxCDD	2000	1456.887	73		21-193	1.24	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1538.015	77		25-163	1.26	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1105.617	55		26-166	1.09	1.069
13C-OCDD	4000	1441.236	36		13-199	0.89	1.149
13C-2,3,7,8-TCDF	2000	1364.084	68		22-152	0.79	0.979
13C-1,2,3,7,8-PeCDF	2000	1363.988	68		21-192	1.58	1.135
13C-2,3,4,7,8-PeCDF	2000	1419.712	71		13-328	1.59	1.162
13C-1,2,3,4,7,8-HxCDF	2000	1271.491	64		19-202	0.51	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1696.274	85		21-159	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1384.372	69		17-205	0.51	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1500.638	75		22-176	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1138.117	57		21-158	0.43	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1462.290	73		20-186	0.44	1.079
37Cl-2,3,7,8-TCDD	800	531.876	66		31-191	NA	1.010

Comments:

PLM Report

Report No:	**133046**	**Customer:**	American Scientific Labs. 2520 N. San Fernando Road Los Angeles, CA 90065
Date:	October 21, 2009		
Date Received:	October 19, 2009		
Date Analyzed:	October 20, 2009	**Attention:**	Molky Brar
Date/Time Collected:	10/19/09 at 10:00am	**Reference:**	43477
Subject:	Polarized Light Microscopy Analysis for Asbestos	1	Samples
Methodology:	"Method for Determination of Asbestos in Bulk Building Materials." NIOSH 9002		
Accredited:	NVLAP Lab Code 101218-0		
Certified:	California Department of Health Services Environmental Testing Laboratory ELAP 1119 County Sanitation Districts of Los Angeles County, Lab ID No. 10120		

Quality Control Sample (SRM 1866 Glass Fibers as the blank): None Detected

Sample ID	Location / Description	Visual Description	Asbestiform Minerals	Other Fibrous Materials	Non-fibrous Materials
243648	**NON-FRIABLE**	**BROWN GRANULAR**	**NONE DETECTED**	**CELLULOSE <1%, CLV. FRGMT 3%**	**GRANULAR MINERALS, OPAQUES**

Optical Microscopist

B.M. Kolk, Laboratory Director

BMK/mt

The EPA method is a semi-quantitative procedure. The detection limit is between 0.1 - 1% by area and is dependent upon the size of the asbestos fibers, the means of sampling and the matrix of the sampled material.

The test results reported are for the sample(s) delivered to us and may not represent the entire material from which the samples was taken. The EPA recommends three samples or more be taken from a "homogenous sampling area" before friable material is considered non-asbestos-containing.

** Negative floor tile samples may contain significant amounts (>1%) of very thin asbestos fibers which cannot be detected by PLM. Confirmation by XRD or TEM is recommended by the EPA (Federal Register Vol. 59, No. 146).

SUBMITTAL FORM/*Laboratory Services* 133046

PAGE ___ OF ___

TURNAROUND TIME: STD ☐ 48 HR. ☑ 24 HR. ☐
<8 HR. ☐ WKND ☐ OTHER:

RELINQUISHED BY Brad
TIME / DATE 3:20 - 10-19-09

CLIENT American Scientific Labs.
ADDRESS 2520 N. San Fernando Road
L.A. CA 90065
TELEPHONE 323 223 9700
CONTACT Molly Brar

DATE OF SHIPMENT ___ CARRIER ___
CLIENT P.O. NO. ___
CLIENT JOB/PROJECT ID NO(S). 43477
PACKAGE SHIPPED FROM ___

RESULTS REQUESTED VIA VERBAL ☐ FAX ☐ E-MAIL ☑
(NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal, fax or e-mail results)
E-MAIL ___
FAX NO. ___

DATE/TIME OF SAMPLE COLLECTION 10-19-09 10:00 a.m.
SAMPLE PRESERVATIVES ___ HOLDING TIMES ___
NO. OF SAMPLES SENT 1 SAMPLER'S NAME ___ / ___
SIGNATURE PRINTED

TYPE: ☐ WATER ☐ WASTE WATER ☑ SOIL ☐ FILTER ☐ SORBENT TUBE ☐ IMPINGER ☐ OTHER ___

(FOR EMS ONLY) EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION LOCATION	ANALYSIS	VOLUME TIME WEIGHT (IF APPLICABLE)
133046-48	243648		Asbestos (NIOSH 9002)	50 gm
		"48 hr Rush"		

133046

FOR EMS ONLY

Laboratory No. ___
Received By Meghan Ng
Time 3:25
Date of Package Delivery 10/19/09
Shipping Bill Retained: YES ☐ NONE ☒
Condition of Package on Receipt ok
Condition of Custody Seal None
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)
No. of Samples 1
Chain-of-Custody Signature ___
Date of Acceptance into Sample Bank 10/19/09
Misc. Info. ___
Disposition of Samples EMS Labs

(SF 6/07)

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9J20039

CHAIN OF CUSTODY RECORD

CLIENT NAME: American Scientific labs.

ADDRESS: 2520 N. San Fernando Road L.A. CA 90065

PROJECT MANAGER: Molky Brar

SAMPLER:

PROJECT: 43477

PHONE #: 323 223 9700

FAX #: 323 223 9500

E MAIL: molky@asllab.com

P.O.#:

ANALYSIS REQUESTED

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Copper by 6020B	Lead by 6020B	COMMENTS
	10.19.09		Soil	243646	1 Jar	X		48 hr Rush
	"		"	243647	"	X		PDF Results to Molky
	"		"	243649	"		X	by 10.22.09

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☑ (48) - 72 Hour Rush 75%
- ☐ 4 - 5 Day Rush 30%
- ☐ Rush Extraction 50%
- ☐ 10 - 15 Business Days
- ☑ QA/QC Package

Charges Will Apply For Weekends And Holidays

Method of Shipment _____

RELINQUISHED BY:		DATE / TIME	RECEIVED BY:	
SIGNATURE: Alex	PRINT NAME: Alex	10/20/09 1305	SIGNATURE: James Gmel	PRINT NAME:
SIGNATURE:	PRINT NAME:		SIGNATURE:	PRINT NAME:
SIGNATURE:	PRINT NAME:		SIGNATURE:	PRINT NAME:

SAMPLE CONDITION:

Actual Temperature: 2.0°C

Received On Ice	(Y) / N
Preserved	Y / (N)
Evidence Seals Present	Y / (N)
Container Attacked	Y / (N)
Preserved at Lab	Y / (N)

SAMPLE TYPE CODE:

AQ= Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

Certificate of Analysis

Report Date: Thursday, October 22, 2009
Received Date: Tuesday, October 20, 2009
Received Time: 1:05 pm
Turnaround Time: 2 workdays

Client: American Scientific Laboratories
2520 N. San Fernando Road
Los Angeles, CA 90065-1324

Attn: Molky Brar
Project: 43477

Phones: (323) 223-9700
Fax: (323) 223-9500

P.O. #:

Lab Sample ID: 9J20039-01 **Sample ID: 243646** **Matrix:** Solid
Sampled by: Client **Sampled: 10/19/09 00:00**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	**8.8**	0.061	2.0	mg/kg	1x1	EPA 6020	10/20/09	10/21/09 20:58	W9J0716	
Lead, Total	**5.9**	0.11	1.0	mg/kg	1x1	EPA 6020B	10/20/09	10/21/09 20:58	W9J0716	

Lab Sample ID: 9J20039-02 **Sample ID: 243647** **Matrix:** Solid
Sampled by: Client **Sampled: 10/19/09 00:00**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	**7.3**	0.061	2.0	mg/kg	1x1	EPA 6020	10/20/09	10/21/09 21:02	W9J0716	
Lead, Total	**4.2**	0.11	1.0	mg/kg	1x1	EPA 6020B	10/20/09	10/21/09 21:02	W9J0716	

Lab Sample ID: 9J20039-03 **Sample ID: 243649** **Matrix:** Solid
Sampled by: Client **Sampled: 10/19/09 00:00**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Copper, Total	**9.9**	0.061	2.0	mg/kg	1x1	EPA 6020	10/20/09	10/21/09 21:25	W9J0716	
Lead, Total	**6.1**	0.11	1.0	mg/kg	1x1	EPA 6020B	10/20/09	10/21/09 21:25	W9J0716	

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www.wecklabs.com

Certificate of Analysis

Quality Control Section

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods - Quality Control

Batch W9J0716 - EPA 6020

Blank (W9J0716-BLK1) — **Prepared: 10/20/09 Analyzed: 10/21/09 20:31**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		ND		mg/kg					
Lead, Total		ND		mg/kg					

LCS (W9J0716-BS1) — **Prepared: 10/20/09 Analyzed: 10/21/09 20:35**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		45.5		mg/kg	50.0	91	87-117		
Lead, Total		49.2		mg/kg	50.0	98	80-127		

LCS Dup (W9J0716-BSD1) — **Prepared: 10/20/09 Analyzed: 10/21/09 20:40**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total		51.7		mg/kg	50.0	103	87-117	13	20
Lead, Total		52.5		mg/kg	50.0	105	80-127	6	20

Matrix Spike (W9J0716-MS1) — **Source: 9J19044-01** — **Prepared: 10/20/09 Analyzed: 10/21/09 21:29**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total	20.4	68.7		mg/kg	48.1	100	68-127		
Lead, Total	36.4	89.1		mg/kg	48.1	110	75-130		

Matrix Spike Dup (W9J0716-MSD1) — **Source: 9J19044-01** — **Prepared: 10/20/09 Analyzed: 10/21/09 21:34**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Copper, Total	20.4	67.7		mg/kg	47.6	99	68-127	2	20
Lead, Total	36.4	85.8		mg/kg	47.6	104	75-130	4	20

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www.wecklabs.com

Certificate of Analysis

Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as “a x b”. (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634
www.wecklabs.com

AMERICAN SCIENTIFIC LABORATORIES, LLC
Environmental Testing Services
2520 N. San Fernando Rd., Los Angeles, CA 90065 Tel: (323) 223-9700 Fax: (323) 223-9500

Ordered By

LARWQCB
320 W. 4th St.
Los Angeles, CA 90013-

Telephone (213)576-6724
Attn Peter Raftery

Number of Pages 7
Date Received 10/30/2009
Date Reported 11/03/2009

Job Number	Ordered	Client
43586	10/30/2009	LARWQB

Project ID: SSFL ISRA OUTFL.008
Project Name: SSFL ISRA Outfall 008
Site: 5800 Woolsey Canyon Road
Canoga Park, CA

Enclosed are the results of analyses on 1 sample analyzed as specified on attached chain of custody.

Amolk MOLKY Brar
Laboratory Manager

Rojert G. Araghi
Laboratory Director

AMERICAN SCIENTIFIC LABORATORIES, LLC
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COC# Nº 52593 GLOBAL ID _____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# 43586

Company: LA REGIONAL WATER QUALITY CONTROL BOARD		Report To: PETER RAFTERY	
Address: 320 W 4th. St. Ste 200	Project Name: SSEL ISRA OUTFALL 008	Address: 320 W. 4th. St. Ste 200	
	Site Address: 5800 Woolsey Cyn Rd.	Invoice To: ARF Lenox (Boeing)	
Telephone: 213.576.6724	CANOGA PARK, CA.	Address: 5800 Woolsey Cyn Rd.	
Fax: 213.576.6717		CANOGA PARK CA.	
Special Instruction:	Project ID:		
E-mail:	Project Manager:	P.O.#:	

ANALYSIS REQUESTED

ITEM	LAB USE ONLY Lab ID	SAMPLE DESCRIPTION Sample ID	Date	Time	Container(s) #	Type	Matrix	Preservation	PAHs 8270 sim	metals 6010/7000	pH 9045	Perchlorate 314.0	Energetics 8330	Dioxins 1613 B	PCBs 8082	Gamma-emitters 901.1	Tritium 906.0	Strontium 90 905.0	Remarks
	244129	HZET 0730-S001	29 Oct 09	PJR 14:25	2	STAINLESS STEEL SLEEVE	Soil/Rock	ICE	x	x	x	x	x	x	x	x	x	x	

Collected By:	Date 10/29/09	Time 1200	Relinquished By: Peter Rafter	Date 30 Oct 09	Time 1030
Relinquished By:	Date 10/29/09	Time 1200	Received For Laboratory Janet Chin	Date 10.30.09	Time 10:40
Received By: Peter Rafter	Date 29 Oct 09	Time 12	Condition of Sample:		

TAT ☐ Normal ☒ Rush 48 hr

White - Report, Yellow - Laboratory, Pink - Client

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ANALYTICAL RESULTS

Ordered By

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Los Angeles, CA 90013-

Telephone: (213)576-6724
Attn: Peter Raftery

Site

5800 Woolsey Canyon Road
Canoga Park, CA

Page: **2**

Project ID: SSFL ISRA OUTFL.008
Project Name: SSFL ISRA Outfall 008

ASL Job Number	Submitted	Client
43586	10/30/2009	LARWQB

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

QC Batch No: 103009-2

Our Lab I.D.		**244129**				
Client Sample I.D.		HZET 0730-5001				
Date Sampled		**10/29/2009**				
Date Prepared		**10/30/2009**				
Preparation Method						
Date Analyzed		**10/30/2009**				
Matrix		Soil				
Units		mg/Kg				
Dilution Factor		1				
Analytes	**PQL**	**Results**				
AA Metals						
Mercury	**0.0500**	**ND**				
ICP Metals						
Antimony	**0.500**	**0.865**				
Arsenic	**0.250**	**1.59**				
Barium	**0.500**	**49.4**				
Beryllium	**0.500**	**ND**				
Cadmium	**0.500**	**0.797**				
Chromium	**0.500**	**11.3**				
Cobalt	**0.500**	**3.97**				
Copper	**0.500**	**4.52**				
Lead	**0.250**	**2.77**				
Molybdenum	**0.500**	**ND**				
Nickel	**0.500**	**6.41**				
Selenium	**0.500**	**ND**				
Silver	**0.500**	**ND**				
Thallium	**0.500**	**ND**				
Vanadium	**0.500**	**21.7**				
Zinc	**0.500**	**45.7**				

QUALITY CONTROL REPORT

QC Batch No: 103009-2

Analytes	LCS % REC	LCS/LCSD % Limit								
AA Metals										
Mercury	**118**	**80-120**								
ICP Metals										
Antimony	**93**	**80-120**								

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ANALYTICAL RESULTS

Project ID: SSFL ISRA OUTFL.008
Project Name: SSFL ISRA Outfall 008

ASL Job Number	Submitted	Client
43586	10/30/2009	LARWQB

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

QUALITY CONTROL REPORT

QC Batch No: 103009-2

Analytes	LCS % REC	LCS/LCSD % Limit								
ICP Metals										
Arsenic	**93**	**80-120**								
Barium	**106**	**80-120**								
Beryllium	**100**	**80-120**								
Cadmium	**93**	**80-120**								
Chromium	**94**	**80-120**								
Cobalt	**96**	**80-120**								
Copper	**97**	**80-120**								
Lead	**95**	**80-120**								
Molybdenum	**94**	**80-120**								
Nickel	**97**	**80-120**								
Selenium	**95**	**80-120**								
Silver	**97**	**80-120**								
Thallium	**97**	**80-120**								
Vanadium	**94**	**80-120**								
Zinc	**100**	**80-120**								

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ANALYTICAL RESULTS

Ordered By

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Site

5800 Woolsey Canyon Road
Canoga Park, CA

Page: **4**

Project ID: SSFL ISRA OUTFL.008
Project Name: SSFL ISRA Outfall 008

ASL Job Number	Submitted	Client
43586	10/30/2009	LARWQB

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

QC Batch No: 102909-1

Our Lab I.D.		**244129**				
Client Sample I.D.		HZET 0730-5001				
Date Sampled		**10/29/2009**				
Date Prepared		**10/29/2009**				
Preparation Method						
Date Analyzed		**10/29/2009**				
Matrix		Soil				
Units		ug/kg				
Dilution Factor		1				
Analytes	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	**33.0**	**ND**				
Aroclor-1221 (PCB-1221)	**67.0**	**ND**				
Aroclor-1232 (PCB-1232)	**33.0**	**ND**				
Aroclor-1242 (PCB-1242)	**33.0**	**ND**				
Aroclor-1248 (PCB-1248)	**33.0**	**ND**				
Aroclor-1254 (PCB-1254)	**33.0**	**ND**				
Aroclor-1260 (PCB-1260)	**33.0**	**ND**				

Our Lab I.D.		**244129**				
Surrogates	**% Rec.Limit**	**% Rec.**				
Surrogate Percent Recovery						
Decachlorobiphenyl	**43-169**	**103**				

QUALITY CONTROL REPORT

QC Batch No: 102909-1

Analytes	MS % REC	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Aroclor-1260 (PCB-1260)	**116**	**115**	**<1**	**39-150**	**<30**	**111**	**102**	**8.5**	**39-150**	**<30**

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ANALYTICAL RESULTS

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Site

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Canoga Park, CA

Page: **5**

Project ID: SSFL ISRA OUTFL.008
Project Name: SSFL ISRA Outfall 008

ASL Job Number	Submitted	Client
43586	10/30/2009	LARWQB

Method: 8270C, Polynuclear Aromatic Hydrocarbons

QC Batch No: 110209-1

Our Lab I.D.		**244129**				
Client Sample I.D.		HZET 0730-5001				
Date Sampled		**10/29/2009**				
Date Prepared		**11/02/2009**				
Preparation Method						
Date Analyzed		**11/02/2009**				
Matrix		Soil				
Units		ug/kg				
Dilution Factor		1				
Analytes	**PQL**	**Results**				
Acenaphthene	**50.0**	**ND**				
Acenaphthylene	**50.0**	**ND**				
Anthracene	**50.0**	**ND**				
Benz(a)anthracene (Benzo(a)anthracene)	**50.0**	**ND**				
Benzo(a)pyrene	**50.0**	**ND**				
Benzo(b)fluoranthene	**50.0**	**ND**				
Benzo(ghi)perylene	**50.0**	**ND**				
Benzo(k)fluoranthene	**50.0**	**ND**				
Chrysene	**50.0**	**ND**				
Dibenz(a,h)anthracene	**50.0**	**ND**				
Fluoranthene	**50.0**	**ND**				
Fluorene	**50.0**	**ND**				
Indeno(1,2,3-cd)pyrene	**50.0**	**ND**				
Naphthalene	**50.0**	**ND**				
Phenanthrene	**50.0**	**ND**				
Pyrene	**50.0**	**ND**				

Our Lab I.D.		**244129**				
Surrogates	**% Rec.Limit**	**% Rec.**				
Surrogate Percent Recovery						
2-Fluorophenol	**21-105**	**25**				
Phenol-d6	**10-107**	**28**				
2,4,6-Tribromophenol	**10-123**	**57**				
Nitrobenzene-d5	**35-114**	**47**				
2-Fluorobiphenyl	**18-116**	**22**				
Terphenyl-d14	**33-141**	**77**				

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ANALYTICAL RESULTS

Project ID: SSFL ISRA OUTFL.008
Project Name: SSFL ISRA Outfall 008

ASL Job Number	Submitted	Client
43586	10/30/2009	LARWQB

Method: 8270C, Polynuclear Aromatic Hydrocarbons

QUALITY CONTROL REPORT

QC Batch No: 110209-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
Acenaphthene	**96**	**111**	**14.5**	**43-118**	**<30**					
Pyrene	**92**	**81**	**12.7**	**26-127**	**<30**					

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ANALYTICAL RESULTS

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Canoga Park, CA

Page: **7**

Project ID: SSFL ISRA OUTFL.008
Project Name: SSFL ISRA Outfall 008

ASL Job Number	Submitted	Client
43586	10/30/2009	LARWQB

Method: 9045C, Soil and Waste pH

QC Batch No: 103009-1

Our Lab I.D.		**244129**				
Client Sample I.D.		HZET 0730-5001				
Date Sampled		**10/29/2009**				
Date Prepared		**10/30/2009**				
Preparation Method						
Date Analyzed		**10/30/2009**				
Matrix		Soil				
Units		pH Units				
Dilution Factor		1				
Analytes	**PQL**	**Results**				
Conventionals						
pH	**1.00**	**7.81**				

QUALITY CONTROL REPORT

QC Batch No: 103009-1

Analytes	LCS % REC	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit					
Conventionals										
pH	**100**	**100**	**<1**	**80-120**						

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900966
Project:	Subcontracted High Res Testing/43586	**Date Collected:**	10/29/09 0000
Sample Matrix:	Soil	**Date Received:**	10/31/09
Sample Name:	244129	**Units:**	ng/Kg
Lab Code:	E0900966-001	**Basis:**	Dry
		Percent Solids:	94.4

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	11/5/09 2122
Prep Method:	Method	**Date Extracted:**	11/2/09
Sample Amount:	10.420g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204845	**Blank File Name:**	P204842
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204840

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0171	1.02			1
1,2,3,7,8-PeCDD	ND	U	0.0309	5.08			1
1,2,3,4,7,8-HxCDD	ND	U	0.0351	5.08			1
1,2,3,6,7,8-HxCDD	ND	U	0.0453	5.08			1
1,2,3,7,8,9-HxCDD	ND	U	0.0390	5.08			1
1,2,3,4,6,7,8-HpCDD	**0.414**	BJ	0.0356	5.08	1.07	1.000	1
OCDD	**5.71**	BJ	0.0856	10.2	0.93	1.000	1
2,3,7,8-TCDF	ND	U		1.02			1
1,2,3,7,8-PeCDF	ND	U	0.0277	5.08			1
2,3,4,7,8-PeCDF	ND	U	0.0242	5.08			1
1,2,3,4,7,8-HxCDF	**0.0421**	JK	0.0155	5.08	0.85	1.000	1
1,2,3,6,7,8-HxCDF	ND	U	0.0143	5.08			1
1,2,3,7,8,9-HxCDF	ND	U	0.0195	5.08			1
2,3,4,6,7,8-HxCDF	**0.0268**	JK	0.0164	5.08	1.03	1.000	1
1,2,3,4,6,7,8-HpCDF	**0.0909**	JK	0.0615	5.08	1.47	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0714	5.08			1
OCDF	**0.376**	J	0.119	10.2	0.94	1.004	1
Total Tetra-Dioxins	ND	U	0.0171	1.02			1
Total Penta-Dioxins	ND	U	0.0309	5.08			1
Total Hexa-Dioxins	ND	U	0.0351	5.08			1
Total Hepta-Dioxins	**0.414**	J	0.0356	5.08	1.07		1
Total Tetra-Furans	ND	U	0.0282	1.02			1
Total Penta-Furans	ND	U	0.0242	5.08			1
Total Hexa-Furans	**0.0647**	J	0.0155	5.08	1.32		1
Total Hepta-Furans	ND	U	0.0615	5.08			1

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900966
Project:	Subcontracted High Res Testing/43586	**Date Collected:**	10/29/09 0000
Sample Matrix:	Soil	**Date Received:**	10/31/09
Sample Name:	244129	**Units:**	Percent
Lab Code:	E0900966-001	**Basis:**	Dry
		Percent Solids:	94.4

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	11/5/09 2122
Prep Method:	Method	**Date Extracted:**	11/2/09
Sample Amount:	10.420g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204845	**Blank File Name:**	P204842
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204840

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1584.858	79		25-164	0.79	1.008
13C-1,2,3,7,8-PeCDD	2000	1611.635	81		25-181	1.54	1.174
13C-1,2,3,4,7,8-HxCDD	2000	1674.257	84		32-141	1.23	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1562.258	78		28-130	1.21	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1371.639	69		23-140	1.02	1.068
13C-OCDD	4000	1599.466	40		17-157	0.87	1.148
13C-2,3,7,8-TCDF	2000	1486.392	74		24-169	0.75	0.978
13C-1,2,3,7,8-PeCDF	2000	1480.890	74		24-185	1.52	1.135
13C-2,3,4,7,8-PeCDF	2000	1539.139	77		21-178	1.51	1.161
13C-1,2,3,4,7,8-HxCDF	2000	1605.848	80		26-152	0.51	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1714.449	86		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1490.875	75		29-147	0.51	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1626.461	81		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1402.746	70		28-143	0.42	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1693.542	85		26-138	0.42	1.079
37Cl-2,3,7,8-TCDD	800	650.529	81		35-197	NA	1.009

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900966
Project:	Subcontracted High Res Testing/43586	**Date Collected:**	10/29/09 0000
Sample Matrix:	Soil	**Date Received:**	10/31/09
Sample Name:	244129	**Units:**	ng/Kg
Lab Code:	E0900966-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 1613B
Prep Method: Method

Analyte Name	Result	DL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.0171	1	1	
1,2,3,7,8-PeCDD	ND	0.0309	1	1	
1,2,3,4,7,8-HxCDD	ND	0.0351	1	0.1	
1,2,3,6,7,8-HxCDD	ND	0.0453	1	0.1	
1,2,3,7,8,9-HxCDD	ND	0.0390	1	0.1	
1,2,3,4,6,7,8-HpCDD	**0.414**	0.0356	1	0.01	0.00414
OCDD	**5.71**	0.0856	1	0.0003	0.00171
2,3,7,8-TCDF	ND		1	0.1	
1,2,3,7,8-PeCDF	ND	0.0277	1	0.03	
2,3,4,7,8-PeCDF	ND	0.0242	1	0.3	
1,2,3,4,7,8-HxCDF	**0.0421**	0.0155	1	0.1	0.00421
1,2,3,6,7,8-HxCDF	ND	0.0143	1	0.1	
1,2,3,7,8,9-HxCDF	ND	0.0195	1	0.1	
2,3,4,6,7,8-HxCDF	**0.0268**	0.0164	1	0.1	0.00268
1,2,3,4,6,7,8-HpCDF	**0.0909**	0.0615	1	0.01	0.000909
1,2,3,4,7,8,9-HpCDF	ND	0.0714	1	0.01	
OCDF	**0.376**	0.119	1	0.0003	0.000113
		Total TEQ			0.0138

2005 WHO TEFs, ND = 0

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900966
Project:	Subcontracted High Res Testing/43586	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/Kg
Lab Code:	EQ0900453-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	11/5/09 1859
Prep Method:	Method	**Date Extracted:**	11/2/09
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204842	**Blank File Name:**	P204842
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204840

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.0325	1.00			1
1,2,3,7,8-PeCDD	ND	U	0.0198	5.00			1
1,2,3,4,7,8-HxCDD	ND	U	0.0289	5.00			1
1,2,3,6,7,8-HxCDD	ND	U	0.0369	5.00			1
1,2,3,7,8,9-HxCDD	ND	U	0.0318	5.00			1
1,2,3,4,6,7,8-HpCDD	**0.102**	JK	0.0196	5.00	1.70	1.000	1
OCDD	**0.302**	JK	0.0728	10.0	0.71	1.000	1
2,3,7,8-TCDF	ND	U		1.00			1
1,2,3,7,8-PeCDF	ND	U	0.0360	5.00			1
2,3,4,7,8-PeCDF	ND	U	0.0304	5.00			1
1,2,3,4,7,8-HxCDF	ND	U	0.0138	5.00			1
1,2,3,6,7,8-HxCDF	ND	U	0.0128	5.00			1
1,2,3,7,8,9-HxCDF	ND	U	0.0168	5.00			1
2,3,4,6,7,8-HxCDF	ND	U	0.0139	5.00			1
1,2,3,4,6,7,8-HpCDF	ND	U	0.0415	5.00			1
1,2,3,4,7,8,9-HpCDF	ND	U	0.0474	5.00			1
OCDF	ND	U	0.0688	10.0			1
Total Tetra-Dioxins	ND	U	0.0325	1.00			1
Total Penta-Dioxins	ND	U	0.0198	5.00			1
Total Hexa-Dioxins	ND	U	0.0289	5.00			1
Total Hepta-Dioxins	**0.189**	J	0.0196	5.00	0.96		1
Total Tetra-Furans	ND	U	0.0259	1.00			1
Total Penta-Furans	ND	U	0.0304	5.00			1
Total Hexa-Furans	ND	U	0.0138	5.00			1
Total Hepta-Furans	ND	U	0.0415	5.00			1

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	American Scientific Laboratories	**Service Request:**	E0900966
Project:	Subcontracted High Res Testing/43586	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ0900453-01	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method:	1613B	**Date Analyzed:**	11/5/09 1859
Prep Method:	Method	**Date Extracted:**	11/2/09
Sample Amount:	10.000g	**Instrument Name:**	E-HRMS-04
		GC Column:	DB-5
Data File Name:	P204842	**Blank File Name:**	P204842
ICAL Date:	08/20/08	**Cal Ver. File Name:**	P204840

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1472.678	74		25-164	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	1539.108	77		25-181	1.54	1.174
13C-1,2,3,4,7,8-HxCDD	2000	1779.925	89		32-141	1.21	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1585.011	79		28-130	1.23	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1476.161	74		23-140	1.05	1.068
13C-OCDD	4000	1734.192	43		17-157	0.88	1.147
13C-2,3,7,8-TCDF	2000	1370.547	69		24-169	0.75	0.978
13C-1,2,3,7,8-PeCDF	2000	1365.394	68		24-185	1.52	1.135
13C-2,3,4,7,8-PeCDF	2000	1469.458	73		21-178	1.51	1.161
13C-1,2,3,4,7,8-HxCDF	2000	1606.839	80		26-152	0.51	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1793.977	90		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1587.817	79		29-147	0.50	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1726.265	86		28-136	0.50	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1518.129	76		28-143	0.44	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1823.290	91		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	704.292	88		35-197	NA	1.009

Comments:

EBERLINE SERVICES

EBERLINE ANALYTICAL CORPORATION
2030 Wright Avenue
Richmond, California 94804-3849
Phone (510) 235-2633 Fax (510) 235-0438
Toll Free (800) 841-5487
www.eberlineservices.com

November 9, 2009

Mr. Molky Brar
American Scientific Laboratories, LLC
2520 N. San Fernando Road
Los Angeles, CA 90065

Ref: ASL Chain of Custody No: 53033
Project ID: 43586
Eberline Analytical Report: R911002-8389

Dear Mr. Brar:

Enclosed is a report from the analysis of one soil sample received at Eberline Analytical on November 2, 2009. The sample was analyzed according to the accompanying chain of custody document; the requested analyses were tritium (H-3), strontium-90, and gamma scan. Results are reported on a dry weight basis. The parenthetical G after a nuclide indicates that the result was obtained by gamma spectroscopy; a "U" in the results column indicates that the nuclide was not detected greater than the indicated minimum detectable activity (MDA). No problems were encountered during the analyses; all QC sample results were within the control limits described in Eberline Analytical Quality Control Procedures Manual.

Please call me if you have any questions concerning the enclosed report.

Regards,

N. Joseph Verville
Client Services Manager

NJV/ljb
Enclosures: Report/CoC

Eberline Analytical

ANALYSIS RESULTS

SDG 8389 | Client ASL LLC ENV
Work Order R911002-01 | Contract
Received Date 11/02/09 | Matrix SOIL

Client Sample ID	Lab Sample ID	Collected	Analyzed	Nuclide	Results ± 2σ	Units	MDA
244129	8389-001	10/29/09	11/02/09	Be-7 (G)	U	pCi/g	0.292
			11/02/09	Na-22 (G)	U	pCi/g	0.0513
			11/02/09	K-40 (G)	25.60 ± 1.0	pCi/g	0.602
			11/02/09	Sc-46 (G)	U	pCi/g	0.0456
			11/02/09	Mn-54 (G)	U	pCi/g	0.0439
			11/02/09	Co-58 (G)	U	pCi/g	0.0402
			11/02/09	Co-60 (G)	U	pCi/g	0.0480
			11/02/09	Zn-65 (G)	U	pCi/g	0.108
			11/02/09	Kr-85 (G)	U	pCi/g	11.2
			11/02/09	Nb-94 (G)	U	pCi/g	0.0464
			11/02/09	Ru-103 (G)	U	pCi/g	0.0371
			11/02/09	Ru-106 (G)	U	pCi/g	0.368
			11/02/09	Ag-108m (G)	U	pCi/g	0.0325
			11/02/09	Sn-113 (G)	U	pCi/g	0.0434
			11/02/09	Sb-125 (G)	U	pCi/g	0.0955
			11/02/09	Ba-133 (G)	U	pCi/g	0.0454
			11/02/09	Cs-134 (G)	U	pCi/g	0.0655
			11/02/09	Cs-137 (G)	U	pCi/g	0.0443
			11/02/09	Ce-144 (G)	U	pCi/g	0.181
			11/02/09	Pr-144 (G)	U	pCi/g	0.181
			11/02/09	Eu-152 (G)	U	pCi/g	0.101
			11/02/09	Eu-154 (G)	U	pCi/g	0.152
			11/02/09	Eu-155 (G)	U	pCi/g	0.148
			11/02/09	Ra-226 (G)	0.8350 ± 0.10	pCi/g	0.0923
			11/02/09	Th-228 (G)	1.497 ± 0.069	pCi/g	0.0489
			11/02/09	Th-232 (G)	1.689 ± 0.24	pCi/g	0.227
			11/02/09	U-235 (G)	U	pCi/g	0.191
			11/02/09	U-238 (G)	U	pCi/g	5.80
			11/02/09	Am-241 (G)	U	pCi/g	0.0512
			11/05/09	H-3	1.783 ± 2.0	pCi/g	3.28
			11/04/09	Sr-90	-0.1318 ± 0.13	pCi/g	0.286

Certified by
Report Date 11/09/09

Eberline Analytical

QC RESULTS

SDG 8389 Client ASL LLC ENV
Work Order R911002-01 Contract
Received Date 11/02/09 Matrix SOIL

Lab Sample ID	Nuclide	Results	Units	Amount Added	MDA	Evaluation
LCS						
8389-002	Co-60 (G)	182.7 ± 7.4	pCi/Smpl	179	4.82	102% recovery
	Cs-137 (G)	243.8 ± 7.4	pCi/Smpl	227	5.64	107% recovery
	H-3	192.6 ± 4.4	pCi/Smpl	227	1.56	85% recovery
	Sr-90	10.32 ± 0.60	pCi/Smpl	9.01	0.266	115% recovery
BLANK						
8389-003	Be-7 (G)	U	pCi/Smpl	NA	34.5	<MDA
	Na-22 (G)	U	pCi/Smpl	NA	5.64	<MDA
	K-40 (G)	U	pCi/Smpl	NA	150	<MDA
	Sc-46 (G)	U	pCi/Smpl	NA	4.90	<MDA
	Mn-54 (G)	U	pCi/Smpl	NA	4.73	<MDA
	Co-58 (G)	U	pCi/Smpl	NA	4.60	<MDA
	Co-60 (G)	U	pCi/Smpl	NA	5.37	<MDA
	Zn-65 (G)	U	pCi/Smpl	NA	12.7	<MDA
	Kr-85 (G)	U	pCi/Smpl	NA	1310	<MDA
	Nb-94 (G)	U	pCi/Smpl	NA	4.90	<MDA
	Ru-103 (G)	U	pCi/Smpl	NA	4.36	<MDA
	Ru-106 (G)	U	pCi/Smpl	NA	43.7	<MDA
	Ag-108m(G)	U	pCi/Smpl	NA	4.20	<MDA
	Sn-113 (G)	U	pCi/Smpl	NA	5.39	<MDA
	Sb-125 (G)	U	pCi/Smpl	NA	12.3	<MDA
	Ba-133 (G)	U	pCi/Smpl	NA	5.72	<MDA
	Cs-134 (G)	U	pCi/Smpl	NA	6.44	<MDA
	Cs-137 (G)	U	pCi/Smpl	NA	5.38	<MDA
	Ce-144 (G)	U	pCi/Smpl	NA	22.0	<MDA
	Pr-144 (G)	U	pCi/Smpl	NA	22.0	<MDA
	Eu-152 (G)	U	pCi/Smpl	NA	13.9	<MDA
	Eu-154 (G)	U	pCi/Smpl	NA	16.8	<MDA
	Eu-155 (G)	U	pCi/Smpl	NA	9.96	<MDA
	Ra-226 (G)	U	pCi/Smpl	NA	11.5	<MDA
	Th-228 (G)	U	pCi/Smpl	NA	8.03	<MDA
	Th-232 (G)	U	pCi/Smpl	NA	24.9	<MDA
	U-235 (G)	U	pCi/Smpl	NA	25.4	<MDA
	U-238 (G)	U	pCi/Smpl	NA	630	<MDA
	Am-241 (G)	U	pCi/Smpl	NA	4.26	<MDA
	H-3	0.7917 ± 0.89	pCi/Smpl	NA	1.46	<MDA
	Sr-90	-0.0563 ± 0.14	pCi/Smpl	NA	0.282	<MDA

Certified by
Report Date 11/09/09

Eberline Analytical

SDG 8389 Client ASL LLC ENV
Work Order R911002-01 Contract
Received Date 11/02/09 Matrix SOIL

8389-004	Be-7	(G)	U	0.405	8389-001	U	0.292	-	0	satis.
	Na-22	(G)	U	0.0663		U	0.0513	-	0	satis.
	K-40	(G)	22.04 ± 4.2	0.557		25.60 ± 1.0	0.602	15	31	satis.
	Sc-46	(G)	U	0.0589		U	0.0456	-	0	satis.
	Mn-54	(G)	U	0.0564		U	0.0439	-	0	satis.
	Co-58	(G)	U	0.0543		U	0.0402	-	0	satis.
	Co-60	(G)	U	0.0609		U	0.0480	-	0	satis.
	Zn-65	(G)	U	0.162		U	0.108	-	0	satis.
	Kr-85	(G)	U	14.3		U	11.2	-	0	satis.
	Nb-94	(G)	U	0.0529		U	0.0464	-	0	satis.
	Ru-103	(G)	U	0.0472		U	0.0371	-	0	satis.
	Ru-106	(G)	U	0.467		U	0.368	-	0	satis.
	Ag-108m	(G)	U	0.0406		U	0.0325	-	0	satis.
	Sn-113	(G)	U	0.0591		U	0.0434	-	0	satis.
	Sb-125	(G)	U	0.114		U	0.0955	-	0	satis.
	Ba-133	(G)	U	0.0605		U	0.0454	-	0	satis.
	Cs-134	(G)	U	0.152		U	0.0655	-	0	satis.
	Cs-137	(G)	U	0.0560		U	0.0443	-	0	satis.
	Ce-144	(G)	U	0.222		U	0.181	-	0	satis.
	Pr-144	(G)	U	0.222		U	0.181	-	0	satis.
	Eu-152	(G)	U	0.144		U	0.101	-	0	satis.
	Eu-154	(G)	U	0.197		U	0.152	-	0	satis.
	Eu-155	(G)	U	0.110		U	0.148	-	0	satis.
	Ra-226	(G)	0.7329 ± 0.22	0.107		0.8350 ± 0.10	0.0923	13	49	satis.
	Th-228	(G)	1.528 ± 0.14	0.0696		1.497 ± 0.069	0.0489	2	22	satis.
	Th-232	(G)	1.529 ± 0.33	0.267		1.689 ± 0.24	0.227	10	41	satis.
	U-235	(G)	U	0.254		U	0.191	-	0	satis.
	U-238	(G)	U	7.28		U	5.80	-	0	satis.
	Am-241	(G)	U	0.132		U	0.0512	-	0	satis.
	H-3		0.9247 ± 2.0	3.30		1.783 ± 2.0	3.28	-	0	satis.
	Sr-90		-0.0517 ± 0.13	0.270		-0.1318 ± 0.13	0.286	-	0	satis.

Certified by
Report Date 11/09/09

AMERICAN SCIENTIFIC LABORATORIES, LLC Subout To Eberline Services Richmond Lab.

Environmental Testing Services

2520 N. San Fernando Road, LA, CA 90065 Tel: (323) 223-9700 • Fax: (323) 223-9500

COC# Nº 53033 GLOBAL ID ____ E REPORT: ☐ PDF ☐ EDF ☐ EDD ASL JOB# ____

CHAIN OF CUSTODY RECORD

Company: American Scientific Labs.		Report To: Molky Bras	
Address: 2520 N. San Fernando Road L.A. CA 90065	Project Name:	Address:	
	Site Address:	Invoice To:	
Telephone: 323 223 9700 Fax: 323 223 9500		Address:	
Special Instruction: 5 Days TAT	Project ID: 43586		
E-mail: molky@asllab.com	Project Manager:	P.O.#:	

ANALYSIS REQUESTED: Gamma Scan 901.1; Tritium 906.0; Strontium 905.0

ITEM	LAB USE ONLY Lab ID	SAMPLE DESCRIPTION Sample ID	Date	Time	Container(s) #	Type	Matrix	Preservation	Gamma Scan 901.1	Tritium 906.0	Strontium 905.0	Remarks
		244129	10-29-09		1	40s. Jar	Soil		X	X	X	5 Days TAT
												PDF Results to Molky.

Collected By:		Date	Time	Relinquished By:	Date Time
Relinquished By: Janet Chin		Date 10.30.09	Time 4:00pm	Received For Laboratory	Date Time
Received By:		Date 11/02/09	Time 0815	Condition of Sample:	

TAT ☐ Normal ☐ Rush

White - Report Yellow - Laboratory Pink - Client

EBERLINE SERVICES

RICHMOND, CA LABORATORY

SAMPLE RECEIPT CHECKLIST

Client: AMERICAN SCIENTIFIC LAB City L.A. State CA

Date/Time received 11/02/09 0815 CoC No. 43586

Container I.D. No. IGE CHEST Requested TAT (Days) 5 P.O. Received Yes [ ] No [ ]

INSPECTION

1. Custody seals on shipping container intact? Yes [ ] No [ ] N/A [X]
2. Custody seals on shipping container dated & signed? Yes [ ] No [ ] N/A [X]
3. Custody seals on sample containers intact? Yes [ ] No [ ] N/A [X]
4. Custody seals on sample containers dated & signed? Yes [ ] No [ ] N/A [X]
5. Packing material is: Wet [ ] Dry [X]
6. Number of samples in shipping container: 1 Sample Matrix S
7. Number of containers per sample: 1 (Or see CoC _____)
8. Samples are in correct container Yes [X] No [ ]
9. Paperwork agrees with samples? Yes [X] No [ ]
10. Samples have: Tape [ ] Hazard labels [ ] Rad labels [ ] Appropriate sample labels [X]
11. Samples are: In good condition [X] Leaking [ ] Broken Container [ ] Missing [ ]
12. Samples are: Preserved [ ] Not preserved [ ] pH _____ Preservative _____
13. Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [ ] No [ ] Date _____
15. Inspected by _____ Date: 11/02/09 Time: 0830

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	wipe
294129	260						

Ion Chamber Ser. No. _____ Calibration date _____

Alpha Meter Ser. No. _____ Calibration date _____

Beta/Gamma Meter Ser. No. 100482 Calibration date 05AUG 09

Weck Laboratories, Inc.

Analytical Laboratory Services • Since 1964

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CHAIN OF CUSTODY RECORD

9J30028

Page _____ Of _____

CLIENT NAME: American Scientific Labs.	PROJECT: 43586
ADDRESS: 2520 N. San Fernando Road L.A. CA 90065	PHONE #: 323 223 9700
	FAX #: 323 223 9506
PROJECT MANAGER: Molky Brar	SAMPLER:
	E MAIL: molky@asllab.com
	P.O.#:

SPECIAL HANDLING

- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48 - 72 Hour Rush 75%
- ☑ 4 - 5 Day Rush 30%
- ☐ Rush Extraction 50%
- ☐ 10 - 15 Business Days
- ☐ QA/QC Package

Charges Will Apply For Weekends And Holidays

Method of Shipment _____

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Perchlorate 314.0	Energetics 8330	COMMENTS
	10.29.09		Soil	244129	1 Jar	X	X	PDF Results to molky
								5 Days Rush

RELINQUISHED BY:		DATE / TIME	RECEIVED BY:	
SIGNATURE: Alex	PRINT NAME: ALEX	10/30/09 12:50	SIGNATURE: James Smith	PRINT NAME
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME
SIGNATURE	PRINT NAME		SIGNATURE	PRINT NAME

SAMPLE CONDITION:

Actual Temperature: 4.9°C

Received On Ice (Y) / N

Preserved Y / (N)

Evidence Seals Present Y / (N)

Container Attacked Y / (N)

Preserved at Lab Y / (N)

SAMPLE TYPE CODE:

AQ = Aqueous
NA = Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS. CLIENT AGREES TO TERMS AND CONDITIONS (SEE BACK OF THIS FORM).

SPECIAL REQUIREMENTS / BILLING INFORMATION

DISTRIBUTION: WHITE & CANARY - For Laboratory PINK - For Client

Certificate of Analysis

Report Date: Monday, November 9, 2009
Received Date: Friday, October 30, 2009
Received Time: 12:50 pm
Turnaround Time: 5 workdays

Client: American Scientific Laboratories
2520 N. San Fernando Road
Los Angeles, CA 90065-1324

Attn: Molky Brar
Project: 43586

Phones: (323) 223-9700
Fax: (323) 223-9500

P.O. #:

Lab Sample ID: 9J30028-01 **Sample ID: 244129** **Matrix:** Soil
Sampled by: Client **Sampled: 10/29/09 00:00**

Analyte	Result	DL	RL	Units	Dil	Method	Prepared	Analyzed	Batch	Qualifier
Perchlorate	ND	13	30	mg/Kg (dry wt basis)	1x1	EPA 314M	11/3/09	11/4/09 10:23	W9K0138	
1,3,5-Trinitrobenzene	ND	2.05	2.50	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
1,3-Dinitrobenzene	ND	0.490	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
2,4,6-Trinitrotoluene	ND	0.470	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
2,4-Dinitrotoluene	ND	0.310	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
2,6-Dinitrotoluene	ND	0.280	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
2-Amino-4,6-Dinitrotoluene	ND	0.660	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
2-Nitrotoluene	ND	0.310	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
3-Nitrotoluene	ND	0.230	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
4-Amino-2,6-Dinitrotoluene	ND	0.470	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
4-Nitrotoluene	ND	0.380	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
HMX	ND	0.620	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
Nitrobenzene	ND	0.250	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
RDX	ND	0.720	1.00	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	
Tetryl	ND	1.68	2.50	mg/kg	1x1	EPA 8330A	11/2/09	11/6/09 20:47	W9K0019	

Certificate of Analysis

Quality Control Section

Explosives by EPA Method 8330 - Quality Control

Batch W9K0019 - EPA 8330A

Blank (W9K0019-BLK1) — **Prepared: 11/02/09 Analyzed: 11/06/09 20:47**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
HMX		ND		mg/kg					
RDX		ND		mg/kg					
1,3,5-Trinitrobenzene		ND		mg/kg					
1,3-Dinitrobenzene		ND		mg/kg					
Nitrobenzene		ND		mg/kg					
Tetryl		ND		mg/kg					
2,4,6-Trinitrotoluene		ND		mg/kg					
4-Amino-2,6-Dinitrotoluene		ND		mg/kg					
2-Amino-4,6-Dinitrotoluene		ND		mg/kg					
2,6-Dinitrotoluene		ND		mg/kg					
2,4-Dinitrotoluene		ND		mg/kg					
2-Nitrotoluene		ND		mg/kg					
4-Nitrotoluene		ND		mg/kg					
3-Nitrotoluene		ND		mg/kg					

LCS (W9K0019-BS1) — **Prepared: 11/02/09 Analyzed: 11/06/09 20:47**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
HMX		5.20		mg/kg	5.00	104	68-147		
RDX		5.01		mg/kg	5.00	100	43-154		
1,3,5-Trinitrobenzene		5.27		mg/kg	5.00	105	56-135		
1,3-Dinitrobenzene		4.88		mg/kg	5.00	98	44-152		
Nitrobenzene		5.05		mg/kg	5.00	101	47-158		
Tetryl		4.87		mg/kg	5.00	97	46-152		
2,4,6-Trinitrotoluene		4.94		mg/kg	5.00	99	53-142		
4-Amino-2,6-Dinitrotoluene		5.05		mg/kg	5.00	101	70-130		
2-Amino-4,6-Dinitrotoluene		4.80		mg/kg	5.00	96	66-139		
2,6-Dinitrotoluene		4.89		mg/kg	5.00	98	34-164		
2,4-Dinitrotoluene		4.74		mg/kg	5.00	95	37-133		
2-Nitrotoluene		4.91		mg/kg	5.00	98	56-156		
4-Nitrotoluene		4.84		mg/kg	5.00	97	56-174		
3-Nitrotoluene		5.10		mg/kg	5.00	102	73-125		

Matrix Spike (W9K0019-MS1) — **Source: 9J30028-01** — **Prepared: 11/02/09 Analyzed: 11/06/09 20:47**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
HMX	ND	5.56		mg/kg	5.00	111	68-147		
RDX	ND	5.11		mg/kg	5.00	102	43-154		
1,3,5-Trinitrobenzene	ND	5.52		mg/kg	5.00	110	56-135		
1,3-Dinitrobenzene	ND	5.02		mg/kg	5.00	100	53-159		
Nitrobenzene	ND	5.09		mg/kg	5.00	102	47-158		
Tetryl	ND	5.31		mg/kg	5.00	106	46-152		

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Explosives by EPA Method 8330 - Quality Control

Batch W9K0019 - EPA 8330A

Matrix Spike (W9K0019-MS1) **Source: 9J30028-01** **Prepared: 11/02/09** **Analyzed: 11/06/09 20:47**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
2,4,6-Trinitrotoluene	ND	5.04		mg/kg	5.00	101	53-142		
4-Amino-2,6-Dinitrotoluene	ND	5.13		mg/kg	5.00	103	69-140		
2-Amino-4,6-Dinitrotoluene	ND	4.85		mg/kg	5.00	97	80-130		
2,6-Dinitrotoluene	ND	5.03		mg/kg	5.00	101	34-164		
2,4-Dinitrotoluene	ND	4.84		mg/kg	5.00	97	37-133		
2-Nitrotoluene	ND	4.91		mg/kg	5.00	98	56-156		
4-Nitrotoluene	ND	4.96		mg/kg	5.00	99	56-174		
3-Nitrotoluene	ND	5.22		mg/kg	5.00	104	73-125		

Matrix Spike Dup (W9K0019-MSD1) **Source: 9J30028-01** **Prepared: 11/02/09** **Analyzed: 11/06/09 20:47**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
HMX	ND	5.51		mg/kg	5.00	110	68-147	0.9	20
RDX	ND	5.13		mg/kg	5.00	103	43-154	0.3	20
1,3,5-Trinitrobenzene	ND	5.42		mg/kg	5.00	108	56-135	2	20
1,3-Dinitrobenzene	ND	4.98		mg/kg	5.00	100	53-159	0.9	20
Nitrobenzene	ND	4.98		mg/kg	5.00	100	47-158	2	20
Tetryl	ND	5.31		mg/kg	5.00	106	46-152	0.06	20
2,4,6-Trinitrotoluene	ND	4.96		mg/kg	5.00	99	53-142	2	20
4-Amino-2,6-Dinitrotoluene	ND	5.16		mg/kg	5.00	103	69-140	0.6	20
2-Amino-4,6-Dinitrotoluene	ND	4.96		mg/kg	5.00	99	80-130	2	20
2,6-Dinitrotoluene	ND	4.86		mg/kg	5.00	97	34-164	3	20
2,4-Dinitrotoluene	ND	4.85		mg/kg	5.00	97	37-133	0.2	20
2-Nitrotoluene	ND	5.08		mg/kg	5.00	102	56-156	3	20
4-Nitrotoluene	ND	5.19		mg/kg	5.00	104	56-174	5	20
3-Nitrotoluene	ND	5.19		mg/kg	5.00	104	73-125	0.6	20

Perchlorate in solid by EPA 314M - Quality Control

Batch W9K0138 - EPA 314M

Blank (W9K0138-BLK1) **Prepared: 11/03/09** **Analyzed: 11/04/09 05:35**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Perchlorate		ND		mg/Kg (dry wt basis)					

LCS (W9K0138-BS1) **Prepared: 11/03/09** **Analyzed: 11/04/09 09:13**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Perchlorate		103		mg/Kg (dry wt basis)	100	103	85-115		

Matrix Spike (W9K0138-MS1) **Source: 9J30028-01** **Prepared: 11/03/09** **Analyzed: 11/04/09 06:45**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	ND	145	MS-01	mg/Kg (dry wt basis)	100	145	69-137		

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Perchlorate in solid by EPA 314M - Quality Control

Batch W9K0138 - EPA 314M

Matrix Spike Dup (W9K0138-MSD1) **Source: 9J30028-01** **Prepared: 11/03/09** **Analyzed: 11/04/09 07:02**

Analyte	Sample Result	QC Result	Qualifier	Units	Spike Level	%REC	%REC Limits	RPD	RPD Limit
Perchlorate	ND	133		mg/Kg (dry wt basis)	100	133	69-137	8	20

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Notes:
The Chain of Custody document is part of the analytical report.
Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
All results are expressed on wet weight basis unless otherwise specified.

An Absence of Total Coliform meets the drinking water standards as established by the State of California Department of Health Services.
The Reporting Limit (RL) is referenced as laboratory's Practical Quantitation Limit (PQL).
For Potable water analysis, the Reporting Limit (RL) is referenced as Detection Limit for reporting purposes (DLRs) defined by EPA.

If sample collected by Weck Laboratories, sampled in accordance to lab SOP MIS002

Authorized Signature

Contact: Kim G Tu (Project Manager)

ELAP # 1132
LACSD # 10143
NELAC # 04229CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted in the Case Narrative. This analytical report must be reproduced in its entirety.

Flags for Data Qualifiers:

MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL).
Sub	Subcontracted analysis, original report enclosed.
Dil	The total dilution factor is expressed as a multiplication between the preparation dilution factor (a) and the analysis dilution factor (b) as “a x b”. (a) and (b) are indicated as whole numbers with rounding up for ≥ 0.5 and off for < 0.5
DL	Method Detection Limit
RL	Method Reporting Limit
MDA	Minimum Detectable Activity

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