BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/19/2014

Brad Silverbush

Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Client Project: [redacted]
BCL Project: 8081
BCL Work Order: 1413266
Invoice ID: B176092

Enclosed are the results of analyses for samples received by the laboratory on 6/13/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Green

Contact Person: Tina Green
Client Services Manager

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; AK UST101

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FRONTIER ANALYTICAL LABORATORY
Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY
Laboratory Project No.: _____
Temperature: _____ °C

Chain of Custody

www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION
Company Name: Frontier Analytical Laboratory
Contact Name: Brad Silverbush
Address: 5172 Hillsdale Circle, El Dorado Hills, CA 95762
Phone: 916-934-0900 Fax: 916-934-0999
Email: brads@frontieranalytical.com

INVOICE INFORMATION (if different from client info)
Company Name: Same
Contact Name:
Address:
Phone: Fax:
Email:

PROJECT INFORMATION
FAL Quote #:
P.O. #:
Project #: [redacted]
Project Name:
TAT (business days): ☐ 15 ☐ 10 ☑ 5* ☐ 3* (√ one)
* FAL must agree with price and RUSH TAT in writing.

REPORT INFORMATION
Report Level: ☐ I/II ☐ III ☐ IV
☐ EDD: ☐ FAL Basic ☐ Geotracker ☐ Other: ____ ☐ Custom: Contact FAL
☐ California State Drinking Water Form
System #: Source #:
Sampler: Employer:

REPORT DISTRIBUTION (email only is preferred)
☐ Hardcopy
☐ CD (.pdf including EDDs if requested)
☐ Email (.pdf including EDDs if requested)

ADDITIONAL INSTRUCTIONS
Sub to: BC Laboratory
Attn: Stuart Buttram
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911
*RESULTS DUE: 6-19-14

**CONGENERS: ☐ 2,3,7,8-TCDD only ☐ 2,3,7,8-TCDD/F only ☐ PCDD/F (Cl_4-Cl_8)
**TEQ: ☐ 1998 WHO ☐ 2005 WHO ☐ Other

14-13266

	Sample ID	Date Collected	Time Collected	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	Remarks
1	8489-001-SA LL1	05-10-2014	07:50	Solid											✓	EPA Method 8082 Aroclor/PCB
2	8489-002-SA LL2	05-10-2014	07:50	Solid											✓	EPA Method 8082 Aroclor/PCB
3	8489-005-SA LL5	05-10-2014	08:17	Solid											✓	EPA Method 8082 Aroclor/PCB
4	8489-006-SA JJ1	05-10-2014	08:45	Solid											✓	EPA Method 8082 Aroclor/PCB
5	8489-011-SA BB5	05-10-2014	09:38	Solid											✓	EPA Method 8082 Aroclor/PCB & EPA Method 8081 Pesticides
6	8489-012-SA KK1	05-10-2014	09:54	Solid											✓	EPA Method 8082 Aroclor/PCB & EPA Method 8081 Pesticides
7	8489-013-SA JJC1	05-10-2014	10:20	Solid											✓	EPA Method 8082 Aroclor/PCB
8	8489-015-SA JJC3	05-10-2014	10:35	Solid											✓	EPA Method 8082 Aroclor/PCB
9	8490-003-SA SS1	05-10-2014	11:25	Solid											✓	EPA Method 8082 Aroclor/PCB
10	8490-004-SA ART	05-10-2014	11:30	Solid											✓	EPA Method 8082 Aroclor/PCB
11	8490-006-SA WW2	05-10-2014	11:45	Solid											✓	EPA Method 8082 Aroclor/PCB
12	8490-009-SA AJ1	05-12-2014	07:45	Solid											✓	EPA Method 8082 Aroclor/PCB & EPA Method 8081 Pesticides
13																
14																
15																

CHK IN DISTRIBUTION
SUB-OUT

Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Kathy Zipp — Kathy Zipp - Frontier Analytical	6/12/14	14:09	Crystal Roberts	6/13/14	1020

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy – Report Yellow Copy – Laboratory Pink Copy - Originator

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Chain of Custody and Cooler Receipt Form for 1413266 Page 2 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-13266

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☑ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☐ Blue Ice ☑ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: amb glass Thermometer ID: 207 Date/Time 6/13/14 10:20
Temperature: (A) 7.4 °C / (C) 7.5 °C Analyst Init MEM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8OZ. JAR	A	A	A	A	A	A	A	A	A	A
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: Date/Time: 6/13/14 1280 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
A = Actual / C = Corrected

Chain of Custody and Cooler Receipt Form for 1413266 Page 3 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-13266

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☐ Blue Ice ☒ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: amb glass Thermometer ID: 207 Date/Time 6/13/14 10:30

Temperature: (A) 7.4 °C / (C) 7.5 °C Analyst Init MEM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR	A	A								
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: Date/Time: 6/13/14 12:00 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
A = Actual / C = Corrected

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14-13266

Tina Green

From: **STUART BUTTRAM <stuart@bclabs.com>**
Organization: **BC Laboratories**
To: **Brad Silverbush <brads@frontieranalytical.com>**
Date sent: **Thu, 12 Jun 2014 10:11:42 -0800**
Subject: **RE: (Fwd) RE: Analysis**
Send reply to: **<stuart@bclabs.com>**
Copies to: **<tina@bclabs.com>**

Brad:
Yes, yes, yes, yes, etc Send them for Friday delivery. The soil samples will need
8081 and 8082. For the soil samples requiring 8081, 8082 we will need 60 grams for normal
reporting limits our solids reporting limits are 0.01mg/Kg for PCBs using 30 grams so you can
do the math at how much we need to achieve 50. I would like to use at least 5 grams though.
Tina can provide you a quote for the testing below. Tina Brad will need the 8081s full with
our normal list plus alpha and gamma chlordane.

Thanks
Stuart

On 12 Jun 2014 at 9:53, Brad Silverbush wrote:

> Hi Stuart,
>
> Just got off a very long conversation with my client.
>
> In short here is what they are looking for:
>
> A PCB method to test caulk and/or soil. They are referencing TSCA so
> they need well below 50ppm. At this point they don't care about the
> individual congeners (although I think they will want to go back and
> look at the 12 WHO dioxin-like eventually but that is neither here nor

Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1413266-01	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 07:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-001-SA LL1	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-02	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 07:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-002-SA LL2	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-03	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 08:17
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-005-SA LL5	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-04	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 08:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-006-SA JJ1	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-05	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 09:38
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-011-SA BB5	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-06	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 09:54
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-012-SA KK1	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-07	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-013-SA JJC1	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1413266-08	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 10:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8489-015-SA JJC3	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-09	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 11:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8490-003-SA SS1	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-10	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8490-004-SA ART	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-11	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/10/2014 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8490-006-SA WW2	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil
1413266-12	**COC Number:**	---	**Receive Date:**	06/13/2014 10:20
	Project Number:	---	**Sampling Date:**	05/12/2014 07:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	8490-009-SA AJ1	**Lab Matrix:**	Solids
	Sampled By:	---	**Sample Type:**	Soil

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-01 | **Client Sample Name:** 8489-001-SA LL1, 5/10/2014 7:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	1.8	0.48	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	1.8	0.67	EPA-8082A	ND		1
PCB-1232	ND	mg/kg	1.8	0.42	EPA-8082A	ND		1
PCB-1242	ND	mg/kg	1.8	0.71	EPA-8082A	ND		1
PCB-1248	ND	mg/kg	1.8	0.46	EPA-8082A	ND		1
PCB-1254	**12**	**mg/kg**	**1.8**	**0.56**	**EPA-8082A**	ND		1
PCB-1260	ND	mg/kg	1.8	0.28	EPA-8082A	ND		1
Total PCB's (Summation)	**12**	**mg/kg**	**1.8**	**0.88**	**EPA-8082A**	ND		1
Decachlorobiphenyl (Surrogate)	100	%	50 - 140 (LCL - UCL)		EPA-8082A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 09:05	VH1	GC-15	176.47	BXF1322

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5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-02 | **Client Sample Name:** 8489-002-SA LL2, 5/10/2014 7:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	20	5.4	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	20	7.6	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	20	4.8	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	20	8.0	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	20	5.2	EPA-8082A	ND	A01	1
PCB-1254	**190**	**mg/kg**	**20**	**6.4**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	20	3.2	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**190**	**mg/kg**	**20**	**10**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	0	%	50 - 140 (LCL - UCL)		EPA-8082A		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 11:49	VH1	GC-15	2000	BXF1322

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-03 | **Client Sample Name:** 8489-005-SA LL5, 5/10/2014 8:17:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	0.20	0.054	EPA-8082A	ND		1
PCB-1221	ND	mg/kg	0.20	0.076	EPA-8082A	ND		1
PCB-1232	ND	mg/kg	0.20	0.048	EPA-8082A	ND		1
PCB-1242	ND	mg/kg	0.20	0.080	EPA-8082A	ND		1
PCB-1248	ND	mg/kg	0.20	0.052	EPA-8082A	ND		1
PCB-1254	**1.8**	**mg/kg**	**0.20**	**0.064**	**EPA-8082A**	ND		1
PCB-1260	ND	mg/kg	0.20	0.032	EPA-8082A	ND		1
Total PCB's (Summation)	**1.8**	**mg/kg**	**0.20**	**0.10**	**EPA-8082A**	ND		1
Decachlorobiphenyl (Surrogate)	95.0	%	50 - 140 (LCL - UCL)		EPA-8082A			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 09:27	VH1	GC-15	20	BXF1322

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-04 | **Client Sample Name:** 8489-006-SA JJ1, 5/10/2014 8:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	1.6	0.43	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	1.6	0.60	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	1.6	0.38	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	1.6	0.63	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	1.6	0.41	EPA-8082A	ND	A01	1
PCB-1254	**9.7**	**mg/kg**	**1.6**	**0.51**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	1.6	0.25	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**9.7**	**mg/kg**	**1.6**	**0.79**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	100	%	50 - 140 (LCL - UCL)		EPA-8082A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 09:38	VH1	GC-15	157.89	BXF1322

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

BCL Sample ID: 1413266-05 | **Client Sample Name:** 8489-011-SA BB5, 5/10/2014 9:38:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0029	0.00015	EPA-8081B	ND	A11,A26	1
alpha-BHC	ND	mg/kg	0.0029	0.00081	EPA-8081B	ND	A11,A26	1
beta-BHC	ND	mg/kg	0.0029	0.0022	EPA-8081B	ND	A11,A26	1
delta-BHC	ND	mg/kg	0.0029	0.00044	EPA-8081B	ND	A11,A26	1
gamma-BHC (Lindane)	ND	mg/kg	0.0029	0.0014	EPA-8081B	ND	A11,A26	1
alpha-Chlordane	ND	mg/kg	0.0029	0.00050	EPA-8081B	ND	A11,A26	1
gamma-Chlordane	ND	mg/kg	0.0029	0.00036	EPA-8081B	ND	A11,A26	1
Chlordane (Technical)	ND	mg/kg	0.29	0.087	EPA-8081B	ND	A11,A26	1
4,4'-DDD	ND	mg/kg	0.0029	0.00036	EPA-8081B	ND	A11,A26	1
4,4'-DDE	ND	mg/kg	0.0029	0.00026	EPA-8081B	ND	A11,A26	1
4,4'-DDT	ND	mg/kg	0.0029	0.00018	EPA-8081B	ND	A11,A26	1
Dieldrin	ND	mg/kg	0.0029	0.00018	EPA-8081B	ND	A11,A26	1
Endosulfan I	ND	mg/kg	0.0029	0.00050	EPA-8081B	ND	A11,A26	1
Endosulfan II	ND	mg/kg	0.0029	0.00038	EPA-8081B	ND	A11,A26	1
Endosulfan sulfate	ND	mg/kg	0.0029	0.00075	EPA-8081B	ND	A11,A26	1
Endrin	ND	mg/kg	0.0029	0.00020	EPA-8081B	ND	A11,A26	1
Endrin aldehyde	ND	mg/kg	0.0029	0.00035	EPA-8081B	ND	A11,A26	1
Heptachlor	ND	mg/kg	0.0029	0.0015	EPA-8081B	ND	A11,A26	1
Heptachlor epoxide	ND	mg/kg	0.0029	0.00087	EPA-8081B	ND	A11,A26	1
Methoxychlor	ND	mg/kg	0.0029	0.00075	EPA-8081B	ND	A11,A26	1
Toxaphene	ND	mg/kg	0.29	0.043	EPA-8081B	ND	A11,A26	1
TCMX (Surrogate)	93.1	%	20 - 140 (LCL - UCL)		EPA-8081B		A11,A26	1
Decachlorobiphenyl (Surrogate)	102	%	20 - 140 (LCL - UCL)		EPA-8081B		A11,A26	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081B	06/13/14	06/16/14 14:09	VH1	GC-14	5.769	BXF1329

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-05 | **Client Sample Name:** 8489-011-SA BB5, 5/10/2014 9:38:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	0.29	0.079	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	0.29	0.11	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	0.29	0.071	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	0.29	0.12	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	0.29	0.076	EPA-8082A	ND	A01	1
PCB-1254	**2.7**	**mg/kg**	**0.29**	**0.094**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	0.29	0.047	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**2.7**	**mg/kg**	**0.29**	**0.15**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	125	%	50 - 140 (LCL - UCL)		EPA-8082A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 09:49	VH1	GC-15	29.412	BXF1322

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

BCL Sample ID: 1413266-06 | **Client Sample Name:** 8489-012-SA KK1, 5/10/2014 9:54:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0027	0.00014	EPA-8081B	ND	A11,A26	1
alpha-BHC	ND	mg/kg	0.0027	0.00076	EPA-8081B	ND	A11,A26	1
beta-BHC	ND	mg/kg	0.0027	0.0021	EPA-8081B	ND	A11,A26	1
delta-BHC	ND	mg/kg	0.0027	0.00041	EPA-8081B	ND	A11,A26	1
gamma-BHC (Lindane)	ND	mg/kg	0.0027	0.0014	EPA-8081B	ND	A11,A26	1
alpha-Chlordane	ND	mg/kg	0.0027	0.00047	EPA-8081B	ND	A11,A26	1
gamma-Chlordane	ND	mg/kg	0.0027	0.00034	EPA-8081B	ND	A11,A26	1
Chlordane (Technical)	ND	mg/kg	0.27	0.082	EPA-8081B	ND	A11,A26	1
4,4'-DDD	ND	mg/kg	0.0027	0.00034	EPA-8081B	ND	A11,A26	1
4,4'-DDE	ND	mg/kg	0.0027	0.00025	EPA-8081B	ND	A11,A26	1
4,4'-DDT	ND	mg/kg	0.0027	0.00017	EPA-8081B	ND	A11,A26	1
Dieldrin	ND	mg/kg	0.0027	0.00017	EPA-8081B	ND	A11,A26	1
Endosulfan I	ND	mg/kg	0.0027	0.00047	EPA-8081B	ND	A11,A26	1
Endosulfan II	ND	mg/kg	0.0027	0.00036	EPA-8081B	ND	A11,A26	1
Endosulfan sulfate	ND	mg/kg	0.0027	0.00071	EPA-8081B	ND	A11,A26	1
Endrin	ND	mg/kg	0.0027	0.00019	EPA-8081B	ND	A11,A26	1
Endrin aldehyde	ND	mg/kg	0.0027	0.00033	EPA-8081B	ND	A11,A26	1
Heptachlor	ND	mg/kg	0.0027	0.0014	EPA-8081B	ND	A11,A26	1
Heptachlor epoxide	ND	mg/kg	0.0027	0.00082	EPA-8081B	ND	A11,A26	1
Methoxychlor	ND	mg/kg	0.0027	0.00071	EPA-8081B	ND	A11,A26	1
Toxaphene	ND	mg/kg	0.27	0.040	EPA-8081B	ND	A11,A26	1
TCMX (Surrogate)	98.0	%	20 - 140 (LCL - UCL)		EPA-8081B		A11,A26	1
Decachlorobiphenyl (Surrogate)	87.9	%	20 - 140 (LCL - UCL)		EPA-8081B		A11,A26	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081B	06/13/14	06/16/14 14:23	VH1	GC-14	5.455	BXF1329

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-06 | **Client Sample Name:** 8489-012-SA KK1, 5/10/2014 9:54:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	0.28	0.075	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	0.28	0.11	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	0.28	0.067	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	0.28	0.11	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	0.28	0.072	EPA-8082A	ND	A01	1
PCB-1254	**2.0**	**mg/kg**	**0.28**	**0.089**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	0.28	0.044	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**2.0**	**mg/kg**	**0.28**	**0.14**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	100	%	50 - 140 (LCL - UCL)		EPA-8082A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 10:00	VH1	GC-15	27.778	BXF1322

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-07 | **Client Sample Name:** 8489-013-SA JJC1, 5/10/2014 10:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	25000	6800	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	25000	9500	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	25000	6000	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	25000	10000	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	25000	6500	EPA-8082A	ND	A01	1
PCB-1254	**340000**	**mg/kg**	**25000**	**8000**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	25000	4000	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**340000**	**mg/kg**	**25000**	**12000**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	0	%	50 - 140 (LCL - UCL)		EPA-8082A		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 13:28	VH1	GC-15	2500000	BXF1322

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-08 | **Client Sample Name:** 8489-015-SA JJC3, 5/10/2014 10:35:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	1.0	0.27	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	1.0	0.38	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	1.0	0.24	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	1.0	0.40	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	1.0	0.26	EPA-8082A	ND	A01	1
PCB-1254	**1.6**	**mg/kg**	**1.0**	**0.32**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	1.0	0.16	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**1.6**	**mg/kg**	**1.0**	**0.50**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	125	%	50 - 140 (LCL - UCL)		EPA-8082A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 13:39	VH1	GC-15	100	BXF1322

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-09 | **Client Sample Name:** 8490-003-SA SS1, 5/10/2014 11:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	1.7	0.45	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	1.7	0.63	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	1.7	0.40	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	1.7	0.67	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	1.7	0.43	EPA-8082A	ND	A01	1
PCB-1254	**5.3**	**mg/kg**	**1.7**	**0.53**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	1.7	0.27	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**5.3**	**mg/kg**	**1.7**	**0.83**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	100	%	50 - 140 (LCL - UCL)		EPA-8082A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 10:55	VH1	GC-15	166.67	BXF1322

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5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-10 | **Client Sample Name:** 8490-004-SA ART, 5/10/2014 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	1.6	0.43	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	1.6	0.60	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	1.6	0.38	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	1.6	0.63	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	1.6	0.41	EPA-8082A	ND	A01	1
PCB-1254	**4.3**	**mg/kg**	**1.6**	**0.51**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	1.6	0.25	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**4.3**	**mg/kg**	**1.6**	**0.79**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	100	%	50 - 140 (LCL - UCL)		EPA-8082A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 11:06	VH1	GC-15	157.89	BXF1322

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-11 | **Client Sample Name:** 8490-006-SA WW2, 5/10/2014 11:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	27000	7400	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	27000	10000	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	27000	6500	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	27000	11000	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	27000	7100	EPA-8082A	ND	A01	1
PCB-1254	**370000**	**mg/kg**	**27000**	**8700**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	27000	4400	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**370000**	**mg/kg**	**27000**	**14000**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	0	%	50 - 140 (LCL - UCL)		EPA-8082A		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 13:50	VH1	GC-15	2727300	BXF1322

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

BCL Sample ID: 1413266-12 | **Client Sample Name:** 8490-009-SA AJ1, 5/12/2014 7:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Aldrin	ND	mg/kg	0.0029	0.00015	EPA-8081B	ND	A11,A26	1
alpha-BHC	ND	mg/kg	0.0029	0.00082	EPA-8081B	ND	A11,A26	1
beta-BHC	ND	mg/kg	0.0029	0.0022	EPA-8081B	ND	A11,A26	1
delta-BHC	ND	mg/kg	0.0029	0.00045	EPA-8081B	ND	A11,A26	1
gamma-BHC (Lindane)	ND	mg/kg	0.0029	0.0015	EPA-8081B	ND	A11,A26	1
alpha-Chlordane	ND	mg/kg	0.0029	0.00051	EPA-8081B	ND	A11,A26	1
gamma-Chlordane	ND	mg/kg	0.0029	0.00037	EPA-8081B	ND	A11,A26	1
Chlordane (Technical)	ND	mg/kg	0.29	0.088	EPA-8081B	ND	A11,A26	1
4,4'-DDD	ND	mg/kg	0.0029	0.00037	EPA-8081B	ND	A11,A26	1
4,4'-DDE	ND	mg/kg	0.0029	0.00026	EPA-8081B	ND	A11,A26	1
4,4'-DDT	ND	mg/kg	0.0029	0.00018	EPA-8081B	ND	A11,A26	1
Dieldrin	ND	mg/kg	0.0029	0.00019	EPA-8081B	ND	A11,A26	1
Endosulfan I	ND	mg/kg	0.0029	0.00051	EPA-8081B	ND	A11,A26	1
Endosulfan II	ND	mg/kg	0.0029	0.00039	EPA-8081B	ND	A11,A26	1
Endosulfan sulfate	ND	mg/kg	0.0029	0.00076	EPA-8081B	ND	A11,A26	1
Endrin	ND	mg/kg	0.0029	0.00021	EPA-8081B	ND	A11,A26	1
Endrin aldehyde	ND	mg/kg	0.0029	0.00036	EPA-8081B	ND	A11,A26	1
Heptachlor	ND	mg/kg	0.0029	0.0015	EPA-8081B	ND	A11,A26	1
Heptachlor epoxide	ND	mg/kg	0.0029	0.00088	EPA-8081B	ND	A11,A26	1
Methoxychlor	ND	mg/kg	0.0029	0.00076	EPA-8081B	ND	A11,A26	1
Toxaphene	ND	mg/kg	0.29	0.044	EPA-8081B	ND	A11,A26	1
TCMX (Surrogate)	84.7	%	20 - 140 (LCL - UCL)		EPA-8081B		A11,A26	1
Decachlorobiphenyl (Surrogate)	84.0	%	20 - 140 (LCL - UCL)		EPA-8081B		A11,A26	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8081B	06/13/14	06/16/14 14:37	VH1	GC-14	5.882	BXF1329

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

BCL Sample ID: 1413266-12 | **Client Sample Name:** 8490-009-SA AJ1, 5/12/2014 7:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
PCB-1016	ND	mg/kg	0.53	0.14	EPA-8082A	ND	A01	1
PCB-1221	ND	mg/kg	0.53	0.20	EPA-8082A	ND	A01	1
PCB-1232	ND	mg/kg	0.53	0.13	EPA-8082A	ND	A01	1
PCB-1242	ND	mg/kg	0.53	0.21	EPA-8082A	ND	A01	1
PCB-1248	ND	mg/kg	0.53	0.14	EPA-8082A	ND	A01	1
PCB-1254	**1.6**	**mg/kg**	**0.53**	**0.17**	**EPA-8082A**	ND	**A01**	1
PCB-1260	ND	mg/kg	0.53	0.084	EPA-8082A	ND	A01	1
Total PCB's (Summation)	**1.6**	**mg/kg**	**0.53**	**0.26**	**EPA-8082A**	ND	**A01**	1
Decachlorobiphenyl (Surrogate)	100	%	50 - 140 (LCL - UCL)		EPA-8082A		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8082A	06/13/14	06/19/14 12:55	VH1	GC-15	52.632	BXF1322

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXF1329						
Aldrin	BXF1329-BLK1	ND	mg/kg	0.00050	0.000026	
alpha-BHC	BXF1329-BLK1	ND	mg/kg	0.00050	0.00014	
beta-BHC	BXF1329-BLK1	ND	mg/kg	0.00050	0.00038	
delta-BHC	BXF1329-BLK1	ND	mg/kg	0.00050	0.000076	
gamma-BHC (Lindane)	BXF1329-BLK1	ND	mg/kg	0.00050	0.00025	
alpha-Chlordane	BXF1329-BLK1	ND	mg/kg	0.00050	0.000086	
gamma-Chlordane	BXF1329-BLK1	ND	mg/kg	0.00050	0.000063	
Chlordane (Technical)	BXF1329-BLK1	ND	mg/kg	0.050	0.015	
4,4'-DDD	BXF1329-BLK1	ND	mg/kg	0.00050	0.000063	
4,4'-DDE	BXF1329-BLK1	ND	mg/kg	0.00050	0.000045	
4,4'-DDT	BXF1329-BLK1	ND	mg/kg	0.00050	0.000031	
Dieldrin	BXF1329-BLK1	ND	mg/kg	0.00050	0.000032	
Endosulfan I	BXF1329-BLK1	ND	mg/kg	0.00050	0.000086	
Endosulfan II	BXF1329-BLK1	ND	mg/kg	0.00050	0.000066	
Endosulfan sulfate	BXF1329-BLK1	ND	mg/kg	0.00050	0.00013	
Endrin	BXF1329-BLK1	ND	mg/kg	0.00050	0.000035	
Endrin aldehyde	BXF1329-BLK1	ND	mg/kg	0.00050	0.000061	
Heptachlor	BXF1329-BLK1	ND	mg/kg	0.00050	0.00026	
Heptachlor epoxide	BXF1329-BLK1	ND	mg/kg	0.00050	0.00015	
Methoxychlor	BXF1329-BLK1	ND	mg/kg	0.00050	0.00013	
Toxaphene	BXF1329-BLK1	ND	mg/kg	0.050	0.0074	
TCMX (Surrogate)	**BXF1329-BLK1**	**86.3**	%	**20 - 140 (LCL - UCL)**		
Decachlorobiphenyl (Surrogate)	**BXF1329-BLK1**	**90.4**	%	**20 - 140 (LCL - UCL)**		

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXF1329										
Aldrin	BXF1329-BS1	LCS	0.0041677	0.0050000	mg/kg	83.4		70 - 130		
gamma-BHC (Lindane)	BXF1329-BS1	LCS	0.0046233	0.0050000	mg/kg	92.5		60 - 140		
4,4'-DDT	BXF1329-BS1	LCS	0.0045333	0.0050000	mg/kg	90.7		60 - 140		
Dieldrin	BXF1329-BS1	LCS	0.0041303	0.0050000	mg/kg	82.6		70 - 130		
Endrin	BXF1329-BS1	LCS	0.0042733	0.0050000	mg/kg	85.5		60 - 140		
Heptachlor	BXF1329-BS1	LCS	0.0043107	0.0050000	mg/kg	86.2		40 - 140		
TCMX (Surrogate)	BXF1329-BS1	LCS	0.0085373	0.010000	mg/kg	85.4		20 - 140		
Decachlorobiphenyl (Surrogate)	BXF1329-BS1	LCS	0.021506	0.025000	mg/kg	86.0		20 - 140		

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

Organochlorine Pesticides (EPA Method 8081B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXF1329	Used client sample: N										
Aldrin	MS	1408395-27	ND	0.0037121	0.0050505	mg/kg		73.5		30 - 140	
	MSD	1408395-27	ND	0.0043990	0.0049180	mg/kg	16.9	89.4	30	30 - 140	
gamma-BHC (Lindane)	MS	1408395-27	ND	0.0037667	0.0050505	mg/kg		74.6		30 - 140	
	MSD	1408395-27	ND	0.0050570	0.0049180	mg/kg	29.2	103	30	30 - 140	
4,4'-DDT	MS	1408395-27	ND	0.0039700	0.0050505	mg/kg		78.6		30 - 140	
	MSD	1408395-27	ND	0.0050184	0.0049180	mg/kg	23.3	102	30	30 - 140	
Dieldrin	MS	1408395-27	ND	0.0036808	0.0050505	mg/kg		72.9		40 - 140	
	MSD	1408395-27	ND	0.0044134	0.0049180	mg/kg	18.1	89.7	30	40 - 140	
Endrin	MS	1408395-27	ND	0.0038158	0.0050505	mg/kg		75.6		30 - 150	
	MSD	1408395-27	ND	0.0046551	0.0049180	mg/kg	19.8	94.7	30	30 - 150	
Heptachlor	MS	1408395-27	ND	0.0037764	0.0050505	mg/kg		74.8		70 - 130	
	MSD	1408395-27	ND	0.0045708	0.0049180	mg/kg	19.0	92.9	30	70 - 130	
TCMX (Surrogate)	MS	1408395-27	ND	0.0074226	0.010101	mg/kg		73.5		20 - 140	
	MSD	1408395-27	ND	0.0096656	0.0098361	mg/kg	26.3	98.3		20 - 140	
Decachlorobiphenyl (Surrogate)	MS	1408395-27	ND	0.019358	0.025253	mg/kg		76.7		20 - 140	
	MSD	1408395-27	ND	0.023297	0.024590	mg/kg	18.5	94.7		20 - 140	

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXF1322						
PCB-1016	BXF1322-BLK1	ND	mg/kg	0.010	0.0027	
PCB-1221	BXF1322-BLK1	ND	mg/kg	0.010	0.0038	
PCB-1232	BXF1322-BLK1	ND	mg/kg	0.010	0.0024	
PCB-1242	BXF1322-BLK1	ND	mg/kg	0.010	0.0040	
PCB-1248	BXF1322-BLK1	ND	mg/kg	0.010	0.0026	
PCB-1254	BXF1322-BLK1	ND	mg/kg	0.010	0.0032	
PCB-1260	BXF1322-BLK1	ND	mg/kg	0.010	0.0016	
Total PCB's (Summation)	BXF1322-BLK1	ND	mg/kg	0.010	0.0050	
Decachlorobiphenyl (Surrogate)	**BXF1322-BLK1**	**110**	%	**50 - 140 (LCL - UCL)**		

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Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762

Reported: 06/19/2014 16:13
Project: 8081
Project Number: [redacted]
Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXF1322										
PCB-1016	BXF1322-BS1	LCS	0.076174	0.083893	mg/kg	90.8		60 - 130		
PCB-1260	BXF1322-BS1	LCS	0.070805	0.083893	mg/kg	84.4		70 - 130		
Decachlorobiphenyl (Surrogate)	BXF1322-BS1	LCS	0.0067114	0.0067114	mg/kg	100		50 - 140		

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

PCB Analysis (EPA Method 8082A)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXF1322	Used client sample: N										
PCB-1016	MS	1404104-92	ND	0.084106	0.082781	mg/kg		102		40 - 130	
	MSD	1404104-92	ND	0.079868	0.082508	mg/kg	5.2	96.8	30	40 - 130	
PCB-1260	MS	1404104-92	ND	0.082781	0.082781	mg/kg		100		40 - 130	
	MSD	1404104-92	ND	0.090759	0.082508	mg/kg	9.2	110	30	40 - 130	
Decachlorobiphenyl (Surrogate)	MS	1404104-92	ND	0.0076159	0.0066225	mg/kg		115		50 - 140	
	MSD	1404104-92	ND	0.0072607	0.0066007	mg/kg	4.8	110		50 - 140	

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Frontier Analytical Laboratory 5172 Hillsdale Circle El Dorado Hills, CA 95762	**Reported:** 06/19/2014 16:13 Project: 8081 Project Number: [redacted] Project Manager: Brad Silverbush

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A11	PQL's and/or MDL's were raised due to inadequate sample size received.
A17	Surrogate not reportable due to sample dilution.
A26	Sample received past holding time.

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