



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 29, 2010

Ron Hicks
Riverside Associates
1123 Pomona Road
Yakima, WA 98901

Re: Analytical Data for Project 809
Laboratory Reference No. 1004-208

Dear Ron:

Enclosed are the analytical results and associated quality control data for samples submitted on April 14, 2010.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', followed by a horizontal line.

David Baumeister
Project Manager

Enclosures



Pacific Agricultural Laboratory

12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052

Report Number: P100254
Report Date: April 28, 2010
Client Project ID: Double H 809

Analytical Report

Client Sample ID: 809A323

Matrix: water

PAL Sample ID: P100254-01

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: EPA 547 (HPLC-FLD)					
4/19/10	4/20/10	AMPA	Not Detected	10 ug/L	
4/19/10	4/20/10	Glyphosate	Not Detected	10 ug/L	
Method: Modified EPA 8141B (GC-FPD)					
4/15/10	4/21/10	Dimethoate	Not Detected	0.30 ug/L	
Method: Modified EPA 8321B (HPLC-MS)					
4/15/10	4/21/10	Carbaryl	0.065 ug/L	0.045 ug/L	

Client Sample ID: 809A324

Matrix: soil

PAL Sample ID: P100254-02

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8141B (GC-FPD)					
4/19/10	4/22/10	Dimethoate	Not Detected	0.017 mg/kg	
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	
Method: Monsanto Method (HPLC-FLD)					
4/21/10	4/26/10	AMPA	0.49 mg/kg	0.017 mg/kg	
4/21/10	4/26/10	Glyphosate	0.56 mg/kg	0.017 mg/kg	

Steve Thun, Laboratory Director



Pacific Agricultural Laboratory

12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052

Report Number: P100254
Report Date: April 28, 2010
Client Project ID: Double H 809

Analytical Report

Client Sample ID: 809A325

Matrix: soil

PAL Sample ID: P100254-03

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8141B (GC-FPD)					
4/19/10	4/22/10	Dimethoate	Not Detected	0.017 mg/kg	
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	
Method: Monsanto Method (HPLC-FLD)					
4/21/10	4/26/10	AMPA	0.20 mg/kg	0.017 mg/kg	
4/21/10	4/26/10	Glyphosate	0.64 mg/kg	0.017 mg/kg	

Client Sample ID: 809A326

Matrix: soil

PAL Sample ID: P100254-04

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8141B (GC-FPD)					
4/19/10	4/22/10	Dimethoate	Not Detected	0.017 mg/kg	
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	
Method: Monsanto Method (HPLC-FLD)					
4/21/10	4/26/10	AMPA	0.48 mg/kg	0.017 mg/kg	
4/21/10	4/26/10	Glyphosate	1.3 mg/kg	0.017 mg/kg	

Steve Thun, Laboratory Director



Pacific Agricultural Laboratory

12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052

Report Number: P100254
Report Date: April 28, 2010
Client Project ID: Double H 809

Analytical Report

Client Sample ID: 809A327

Matrix: soil

PAL Sample ID: P100254-05

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8141B (GC-FPD)					
4/19/10	4/22/10	Dimethoate	Not Detected	0.017 mg/kg	
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	
Method: Monsanto Method (HPLC-FLD)					
4/21/10	4/26/10	AMPA	0.18 mg/kg	0.017 mg/kg	
4/21/10	4/26/10	Glyphosate	0.65 mg/kg	0.017 mg/kg	

Client Sample ID: 809A328

Matrix: wipe

PAL Sample ID: P100254-06

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/14/10	4/22/10	Carbaryl	27000 ug/Wipe	1000 ug/Wipe	

Client Sample ID: 809A329

Matrix: wipe

PAL Sample ID: P100254-07

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/14/10	4/22/10	Carbaryl	180 ug/Wipe	10 ug/Wipe	

Client Sample ID: 809A330

Matrix: wipe

PAL Sample ID: P100254-08

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/14/10	4/22/10	Carbaryl	34000 ug/Wipe	1000 ug/Wipe	

Steve Thun, Laboratory Director



Pacific Agricultural Laboratory

12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.
14648 NE 95th Street
Redmond, WA 98052

Report Number: P100254
Report Date: April 28, 2010
Client Project ID: Double H 809

Analytical Report

Client Sample ID: 809B312

Matrix: soil

PAL Sample ID: P100254-09

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	

Client Sample ID: 809B313

Matrix: soil

PAL Sample ID: P100254-10

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	

Client Sample ID: 809B314

Matrix: soil

PAL Sample ID: P100254-11

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	

Client Sample ID: 809B315

Matrix: soil

PAL Sample ID: P100254-12

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	

Client Sample ID: 809B316

Matrix: soil

PAL Sample ID: P100254-13

Sample Date: 4/12/10

Extraction Date	Analysis Date	Analyte	Amount Detected	Method Reporting Limit	Notes
Method: Modified EPA 8321B (HPLC-MS)					
4/19/10	4/22/10	Carbaryl	Not Detected	0.0017 mg/kg	

Steve Thun, Laboratory Director



Pacific Agricultural Laboratory

12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.

14648 NE 95th Street

Redmond, WA 98052

Report Number: P100254

Report Date: April 28, 2010

Client Project ID: Double H 809

Quality Assurance

Method Blank Data **Matrix:** wipe

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/14/10	4/22/10	0041201-BLK1	Carbaryl	Not Detected	< 0.010 ug/Wipe	

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/14/10	4/16/10	0041403-BLK1	AMPA	Not Detected	< 0.017 mg/kg	
4/14/10	4/16/10	0041403-BLK1	Glyphosate	Not Detected	< 0.017 mg/kg	

Method Blank Data **Matrix:** water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/15/10	4/21/10	0041501-BLK1	Carbaryl	Not Detected	< 0.045 ug/L	
4/15/10	4/21/10	0041501-BLK1	Dimethoate	Not Detected	< 0.30 ug/L	

Method Blank Data **Matrix:** soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/19/10	4/22/10	0041905-BLK1	Carbaryl	Not Detected	< 0.0017 mg/kg	
4/19/10	4/21/10	0041905-BLK1	Dimethoate	Not Detected	< 0.017 mg/kg	

Method Blank Data **Matrix:** water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/19/10	4/20/10	0042001-BLK1	AMPA	Not Detected	< 10 ug/L	
4/19/10	4/20/10	0042001-BLK1	Glyphosate	Not Detected	< 10 ug/L	

Steve Thun, Laboratory Director



Pacific Agricultural Laboratory

12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.

14648 NE 95th Street

Redmond, WA 98052

Report Number: P100254

Report Date: April 28, 2010

Client Project ID: Double H 809

Blank Spike Data

Matrix: wipe

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/14/10	4/22/10	0041201-BS1	Carbaryl	89	40-120	
4/14/10	4/22/10	0041201-BSD1	Carbaryl	78	40-120	

Blank Spike Data

Matrix: soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/14/10	4/16/10	0041403-BS1	AMPA	93	38-128	
4/14/10	4/16/10	0041403-BS1	Glyphosate	73	52-125	

Blank Spike Data

Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/15/10	4/21/10	0041501-BS1	Carbaryl	81	46-126	
4/15/10	4/21/10	0041501-BSD1	Carbaryl	82	46-126	
4/15/10	4/21/10	0041501-BS1	Dimethoate	125	40-120	
4/15/10	4/21/10	0041501-BSD1	Dimethoate	119	40-120	R2

Blank Spike Data

Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/19/10	4/20/10	0042001-BS1	AMPA	80	40-120	
4/19/10	4/20/10	0042001-BSD1	AMPA	78	40-120	
4/19/10	4/20/10	0042001-BS1	Glyphosate	79	74-121	
4/19/10	4/20/10	0042001-BSD1	Glyphosate	78	74-121	

Steve Thun, Laboratory Director



Pacific Agricultural Laboratory

12505 N.W. Cornell Rd. • Portland, OR 97229-5651 • Ph 503.626.7943 • Fx 503.641.0644

OnSite Environmental, Inc.

14648 NE 95th Street

Redmond, WA 98052

Report Number: P100254

Report Date: April 28, 2010

Client Project ID: Double H 809

Matrix Spike Data

Matrix: soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/14/10	4/16/10	0041403-MS1	AMPA	142	0-142	
4/21/10	4/26/10	0041403-MS2	AMPA	76	0-142	
4/14/10	4/16/10	0041403-MS1	Glyphosate	49	0-151	
4/21/10	4/26/10	0041403-MS2	Glyphosate	108	0-151	

Matrix Spike Data

Matrix: soil

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
4/19/10	4/22/10	0041905-MS1	Carbaryl	49	20-123	
4/19/10	4/22/10	0041905-MSD1	Carbaryl	45	20-123	
4/19/10	4/22/10	0041905-MS1	Dimethoate	135	40-120	R2
4/19/10	4/22/10	0041905-MSD1	Dimethoate	140	40-120	R2

Analyte Information

Method: EPA 547 (HPLC-FLD)

AMPA is the primary metabolite of Glyphosate. Glyphosate is quantitated as the free acid.

Method: Monsanto Method (HPLC-FLD)

AMPA is the primary metabolite of Glyphosate.

Project Notes

Notes	Definition
R2	Spike recovery is outside of provisional control limits. Permanent control limits have not been established.

Steve Thun, Laboratory Director

Chain of Custody

Pacific As.



Phone: (425) 883-3881 • Fax: (425) 885-4603

Company: Riverside Associates

Project Number: 809

Project Name: Double H

Project Manager: Ron Hicks

Sampled by: CESI

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☒ Standard (7 working days)
(TPH analysis 5 working days)

(other)	
---------	--

Laboratory Number:

Requested Analysis

NWTFPH-HClD	
NWTFPH-Gx/BTEX	
NWTFPH-Dx	
Volatiles by 8260B	
Halogenated Volatiles by 8260B	
Semi-volatiles by 8270D	
PAHs by 8270D / SIM	
PCBs by 8082	
Pesticides by 8081A	
Herbicides by 8151A	
Total RCRA Metals (8)	
TCLP Metals	HEM by 1664
	Carbaryl
	Dimethoate
	Glyphosate
	% Moisture

[illegible]

Comments/Special Instructions:

Please email copy of results
to cesiasa@pocketnetf.com
invoice to Onsite Env.
SW = SWab

Chromatograms with final report ☐

Chain of Custody

[illegible]



**MA Onsite
Environmental Inc.**

Phone: (425) 886-3881 • Fax: (425) 886-4602

Pacific As.

Chain of Custody

Turnaround Request
(in working days)

Laboratory Number:

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☒ Standard (7 working days)
(TPH analysis 5 working days)

Sampled by: **CESI**

(other)

Requested Analysis

04-208

Page 1 of 2

100254

100254-01

Company:	Riverside Associates		
Project Number:	809		
Project Name:	Dangle H		
Project Manager:	Ron Hicks		
Sampled by:	CESI		
Date			
Sampled	Time	Sampled	Matrix
4/12/10	1022	W	1
4/12/10	1046	S	1
4/12/10	1050	S	1
4/12/10	1055	S	1
4/12/10	1105	S	1
4/12/10	1148	SW	1
4/12/10	1152	SW	1
4/12/10	1200	SW	1
4/12/10	1300	S	1
4/12/10	1305	S	1
Signature			
Relinquished by	Elizabeth Slippy		
Received by	Jana Malonville		
Relinquished by	PAL		
Received by			
Relinquished by			
Received by			
Reviewed by/Date	Reviewed by/Date		
Comments/Instructions			
Please email copy of results to cesi@pocketint.com			
invoice to OnSite Env.			
SW = SWAB			
Chromatograms with final report <input type="checkbox"/>			



Onsite Environmental Inc.
Phone: (425) 885-3881 • Fax: (425) 885-4603

Pacific AS

Chain of Custody

Page 2 of 2

Turnaround Request
(in working days)

Laboratory Number:

04-208

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Day ☐ 3 Day

☒ Standard (7 working days)
(TPH analysis 5 working days)

☐ (other)

Requested Analysis

Company: Riverside Associates
Project Number: 809
Project Name: Double H
Project Manager: Rox Hicks
Sampled by: CESI

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270D	PAHs by 8270D / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	Carbaryl	% Moisture
809B314		4/12/10	1310	S	1															
809B315		4/12/10	1315	S	1															
809B316		4/12/10	1320	S	1															

Relinquished by	Signature	Company	Date	Time	Comments/Initials/Inspection
Relinquished by	<u>Yvette King</u>	<u>CESI</u>	<u>4/13/10</u>	<u>1445</u>	
Received by	<u>Joan McDowell</u>	<u>PAL</u>	<u>4-14-10</u>	<u>0952</u>	
Relinquished by					
Received by					
Relinquished by					
Received by					
Reviewed by/Date					Chromatograms with final report <input type="checkbox"/>

DISTRIBUTION LEGEND: White - Onsite Copy Yellow - Report Copy Pink - Client Copy