BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 04/19/2012

Mark Taylor

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Project:	Hawthorne Investigation
BC Work Order:	1205143
Invoice ID:	B119499

Enclosed are the results of analyses for samples received by the laboratory on 3/22/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Table of Contents

1205143 Serial Number 50363

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BC LABS
Bakersfield, CA

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Cabot Hawthorne GW Sampling		FL
TAL (LAB) PROJECT MANAGER: BC Tina Green	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Mark Taylor	CLIENT PHONE: 904 661 3085	CLIENT FAX
CLIENT NAME: Cabot / Weston	CLIENT E-MAIL	
CLIENT ADDRESS: 9472 Summer Breeze Dr. Fernandina Beach FL		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...))

REQUIRED ANALYSIS: 8270 Target Analytes

PRESERVATIVE: None

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/21/12	1015	SA-30 -1	2	
3/21/12	1415	SA-31 -2	2	
3/21/12	1545	SA-32 -3	2	

CHK BY: KJQ
DISTRIBUTION: SUB-OUT ☐

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3/21/12	1715						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	3/22/12	10:55						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TAL 8240-680 (1008)

Chain of Custody and Cooler Receipt Form for 1205143 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 1205143

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

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

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: 0.98 Container: Amber Thermometer ID: 177

Temperature: A 1.6 °C / C 2.0 °C

Date/Time 3/22/12 10:55

Analyst Init MAM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER 8270	AB	AB	AB							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: Matched samples to COC by time. Descriptions for 1,2,3 are SA-31, SA-32, SA-33

Sample Numbering Completed By: JDW Date/Time: 3/22/12 1750

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1205143-01	**COC Number:**	---	**Receive Date:**	03/22/2012 10:55
	Project Number:	---	**Sampling Date:**	03/21/2012 10:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SA-31	**Lab Matrix:**	Water
	Sampled By:	Mark Taylor	**Sample Type:**	Liquid
1205143-02	**COC Number:**	---	**Receive Date:**	03/22/2012 10:55
	Project Number:	---	**Sampling Date:**	03/21/2012 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SA-32	**Lab Matrix:**	Water
	Sampled By:	Mark Taylor	**Sample Type:**	Liquid
1205143-03	**COC Number:**	---	**Receive Date:**	03/22/2012 10:55
	Project Number:	---	**Sampling Date:**	03/21/2012 15:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SA-33	**Lab Matrix:**	Water
	Sampled By:	Mark Taylor	**Sample Type:**	Liquid

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205143-01 | **Client Sample Name:** SA-31, 3/21/2012 10:15:00AM, Mark Taylor

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	2.0	0.52	EPA-8270C	ND		1
Borneol	ND	ug/L	2.0	0.45	EPA-8270C	ND		1
Camphene	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
Camphor	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
Cineole	ND	ug/L	2.0	0.57	EPA-8270C	ND		1
Dipentene	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
Isoborneol	ND	ug/L	2.0	0.53	EPA-8270C	ND		1
Limonene	ND	ug/L	2.0	0.89	EPA-8270C	ND		1
alpha-Pinene	ND	ug/L	2.0	0.81	EPA-8270C	ND		1
beta-Pinene	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
alpha-Terpineol	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	32.4	%	20 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	22.0	%	10 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	64.3	%	55 - 150 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	48.6	%	51 - 130 (LCL - UCL)		EPA-8270C		S09	1
2,4,6-Tribromophenol (Surrogate)	56.4	%	44 - 160 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	103	%	30 - 160 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/26/12	04/04/12 19:18	SKC	MS-B2	1.087	BVC2231

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205143-02 | **Client Sample Name:** SA-32, 3/21/2012 2:15:00PM, Mark Taylor

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	2.0	0.52	EPA-8270C	ND		1
Borneol	ND	ug/L	2.0	0.45	EPA-8270C	ND		1
Camphene	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
Camphor	**15**	**ug/L**	**2.0**	**0.47**	**EPA-8270C**	ND		1
Cineole	ND	ug/L	2.0	0.57	EPA-8270C	ND		1
Dipentene	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
Isoborneol	ND	ug/L	2.0	0.53	EPA-8270C	ND		1
Limonene	ND	ug/L	2.0	0.89	EPA-8270C	ND		1
alpha-Pinene	ND	ug/L	2.0	0.81	EPA-8270C	ND		1
beta-Pinene	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
alpha-Terpineol	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	46.8	%	20 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	33.5	%	10 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	91.3	%	55 - 150 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	71.3	%	51 - 130 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	86.6	%	44 - 160 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	152	%	30 - 160 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/26/12	04/04/12 19:44	SKC	MS-B2	1.054	BVC2231

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205143-03 | **Client Sample Name:** SA-33, 3/21/2012 3:45:00PM, Mark Taylor

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	20	5.2	EPA-8270C	ND	A10	1
Borneol	ND	ug/L	20	4.5	EPA-8270C	ND	A10	1
Camphene	ND	ug/L	20	4.7	EPA-8270C	ND	A10	1
Camphor	**400**	**ug/L**	**20**	**4.7**	**EPA-8270C**	ND	**A10**	1
Cineole	**130**	**ug/L**	**20**	**5.7**	**EPA-8270C**	ND	**A10**	1
Dipentene	ND	ug/L	20	4.7	EPA-8270C	ND	A10	1
Isoborneol	ND	ug/L	20	5.3	EPA-8270C	ND	A10	1
Limonene	ND	ug/L	20	8.9	EPA-8270C	ND	A10	1
alpha-Pinene	ND	ug/L	20	8.1	EPA-8270C	ND	A10	1
beta-Pinene	ND	ug/L	20	4.8	EPA-8270C	ND	A10	1
alpha-Terpineol	ND	ug/L	20	4.7	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	0	%	20 - 120 (LCL - UCL)		EPA-8270C		A10,A17	1
Phenol-d5 (Surrogate)	0	%	10 - 110 (LCL - UCL)		EPA-8270C		A10,A17	1
Nitrobenzene-d5 (Surrogate)	0	%	55 - 150 (LCL - UCL)		EPA-8270C		A10,A17	1
2-Fluorobiphenyl (Surrogate)	0	%	51 - 130 (LCL - UCL)		EPA-8270C		A10,A17	1
2,4,6-Tribromophenol (Surrogate)	0	%	44 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1
p-Terphenyl-d14 (Surrogate)	0	%	30 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	03/26/12	04/04/12 20:11	SKC	MS-B2	10	BVC2231

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVC2231						
trans-Anethol	BVC2231-BLK1	ND	ug/L	2.0	0.52	
Borneol	BVC2231-BLK1	ND	ug/L	2.0	0.45	
Camphene	BVC2231-BLK1	ND	ug/L	2.0	0.47	
Camphor	BVC2231-BLK1	ND	ug/L	2.0	0.47	
Cineole	BVC2231-BLK1	ND	ug/L	2.0	0.57	
Dipentene	BVC2231-BLK1	ND	ug/L	2.0	0.47	
Isoborneol	BVC2231-BLK1	ND	ug/L	2.0	0.53	
Limonene	BVC2231-BLK1	ND	ug/L	2.0	0.89	
alpha-Pinene	BVC2231-BLK1	ND	ug/L	2.0	0.81	
beta-Pinene	BVC2231-BLK1	ND	ug/L	2.0	0.48	
alpha-Terpineol	BVC2231-BLK1	ND	ug/L	2.0	0.47	
2-Fluorophenol (Surrogate)	BVC2231-BLK1	50.7	%	20 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BVC2231-BLK1	34.3	%	10 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BVC2231-BLK1	94.2	%	55 - 150 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BVC2231-BLK1	74.2	%	51 - 130 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BVC2231-BLK1	83.5	%	44 - 160 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BVC2231-BLK1	156	%	30 - 160 (LCL - UCL)		

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

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: BVC2231										
trans-Anethol	BVC2231-BS1	LCS	86.721	80.000	ug/L	108		50 - 150		
Borneol	BVC2231-BS1	LCS	54.736	80.000	ug/L	68.4		50 - 150		
Camphene	BVC2231-BS1	LCS	42.408	80.000	ug/L	53.0		50 - 150		
Camphor	BVC2231-BS1	LCS	66.510	80.000	ug/L	83.1		50 - 150		
Cineole	BVC2231-BS1	LCS	59.426	80.000	ug/L	74.3		50 - 150		
Dipentene	BVC2231-BS1	LCS	43.298	80.000	ug/L	54.1		50 - 150		
Isoborneol	BVC2231-BS1	LCS	54.615	80.000	ug/L	68.3		50 - 150		
Limonene	BVC2231-BS1	LCS	55.999	80.000	ug/L	70.0		50 - 150		
alpha-Pinene	BVC2231-BS1	LCS	44.333	80.000	ug/L	55.4		50 - 150		
beta-Pinene	BVC2231-BS1	LCS	57.681	80.000	ug/L	72.1		50 - 150		
alpha-Terpineol	BVC2231-BS1	LCS	99.635	80.000	ug/L	125		50 - 150		
2-Fluorophenol (Surrogate)	BVC2231-BS1	LCS	33.210	80.000	ug/L	41.5		20 - 120		
Phenol-d5 (Surrogate)	BVC2231-BS1	LCS	24.430	80.000	ug/L	30.5		10 - 110		
Nitrobenzene-d5 (Surrogate)	BVC2231-BS1	LCS	66.030	80.000	ug/L	82.5		55 - 150		
2-Fluorobiphenyl (Surrogate)	BVC2231-BS1	LCS	51.550	80.000	ug/L	64.4		51 - 130		
2,4,6-Tribromophenol (Surrogate)	BVC2231-BS1	LCS	54.120	80.000	ug/L	67.6		44 - 160		
p-Terphenyl-d14 (Surrogate)	BVC2231-BS1	LCS	50.820	40.000	ug/L	127		30 - 160		

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

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: BVC2231	Used client sample: N										
trans-Anethol	MS	1204254-46	ND	93.216	80.000	ug/L		117		50 - 150	
	MSD	1204254-46	ND	96.426	80.000	ug/L	3.4	121	30	50 - 150	
Borneol	MS	1204254-46	ND	60.006	80.000	ug/L		75.0		50 - 150	
	MSD	1204254-46	ND	58.316	80.000	ug/L	2.9	72.9	30	50 - 150	
Camphene	MS	1204254-46	ND	47.528	80.000	ug/L		59.4		50 - 150	
	MSD	1204254-46	ND	44.192	80.000	ug/L	7.3	55.2	30	50 - 150	
Camphor	MS	1204254-46	ND	70.015	80.000	ug/L		87.5		50 - 150	
	MSD	1204254-46	ND	70.684	80.000	ug/L	1.0	88.4	30	50 - 150	
Cineole	MS	1204254-46	ND	69.611	80.000	ug/L		87.0		50 - 150	
	MSD	1204254-46	ND	68.721	80.000	ug/L	1.3	85.9	30	50 - 150	
Dipentene	MS	1204254-46	ND	47.390	80.000	ug/L		59.2		50 - 150	
	MSD	1204254-46	ND	46.822	80.000	ug/L	1.2	58.5	30	50 - 150	
Isoborneol	MS	1204254-46	ND	60.485	80.000	ug/L		75.6		50 - 150	
	MSD	1204254-46	ND	61.591	80.000	ug/L	1.8	77.0	30	50 - 150	
Limonene	MS	1204254-46	ND	62.584	80.000	ug/L		78.2		50 - 150	
	MSD	1204254-46	ND	64.885	80.000	ug/L	3.6	81.1	30	50 - 150	
alpha-Pinene	MS	1204254-46	ND	48.531	80.000	ug/L		60.7		50 - 150	
	MSD	1204254-46	ND	46.990	80.000	ug/L	3.2	58.7	30	50 - 150	
beta-Pinene	MS	1204254-46	ND	61.694	80.000	ug/L		77.1		50 - 150	
	MSD	1204254-46	ND	63.258	80.000	ug/L	2.5	79.1	30	50 - 150	
alpha-Terpineol	MS	1204254-46	ND	107.99	80.000	ug/L		135		50 - 150	
	MSD	1204254-46	ND	106.42	80.000	ug/L	1.5	133	30	50 - 150	
2-Fluorophenol (Surrogate)	MS	1204254-46	ND	38.100	80.000	ug/L		47.6		20 - 120	
	MSD	1204254-46	ND	39.820	80.000	ug/L	4.4	49.8		20 - 120	
Phenol-d5 (Surrogate)	MS	1204254-46	ND	27.570	80.000	ug/L		34.5		10 - 110	
	MSD	1204254-46	ND	28.510	80.000	ug/L	3.4	35.6		10 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1204254-46	ND	72.270	80.000	ug/L		90.3		55 - 150	
	MSD	1204254-46	ND	76.020	80.000	ug/L	5.1	95.0		55 - 150	
2-Fluorobiphenyl (Surrogate)	MS	1204254-46	ND	58.740	80.000	ug/L		73.4		51 - 130	
	MSD	1204254-46	ND	56.290	80.000	ug/L	4.3	70.4		51 - 130	
2,4,6-Tribromophenol (Surrogate)	MS	1204254-46	ND	60.250	80.000	ug/L		75.3		44 - 160	
	MSD	1204254-46	ND	57.940	80.000	ug/L	3.9	72.4		44 - 160	
p-Terphenyl-d14 (Surrogate)	MS	1204254-46	ND	59.360	40.000	ug/L		148		30 - 160	
	MSD	1204254-46	ND	57.210	40.000	ug/L	3.7	143		30 - 160	

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/19/2012 9:39
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

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
A10	PQL's and MDL's were raised due to matrix interference.
A17	Surrogate not reportable due to sample dilution.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 04/09/2012

Mark Taylor

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Project:	Hawthorne Investigation
BC Work Order:	1205880
Invoice ID:	B119734

Enclosed are the results of analyses for samples received by the laboratory on 3/30/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Table of Contents

Serial Number 50661

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

BC LABS
12-05880

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
BC LABS
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Hawthorn Gw Sampling		FL
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Tina Green		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Mark Taylor	904 261 3085	
CLIENT NAME	CLIENT E-MAIL	
Cabot	MarkTaylor@Westonsolutions.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ✓
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: Ferrous Iron	PRESERVATIVE: None	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3/28/12	10:15	HG-29D -1		✓						2	
3/29/12	11:30	HG-30S -2		✓						2	
3/29/12	11:30	Duplicate -3		✓						2	
3/29/12	6:30	HG-28S. -4		✓						2	
3/28/12	4:53	HG-30D. -5		✓						2	
3/28/12	~~0:00~~	HG									
~~3/29~~											
3/29/12	1430	HG-29S -6		✓						2	

CHK BY DISTRIBUTION
SUB-OUT

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	3/29/12	1750						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	3/30/12	10:20						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS

TA1.8240-680 (1008)

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 120588 0 Page 1 of 3

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 2

Submission #: 12-05880

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

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

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: 0.98 Container: Amber Thermometer ID: 177
Temperature: A 0.6 °C / C 1.0 °C

Date/Time 3/30/12 Analyst Init MAM 10:20

SAMPLE CONTAINERS	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	A B			A B						
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: CAm Date/Time: 4/4/12 0815
A = Actual / C = Corrected [H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

-5 sample said HG-28A on 3/28/12 @ ...

Chain of Custody and Cooler Receipt Form for 1205880 Page 3 of 3

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 2 of 2

Submission #: 12-05880

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

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

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: 0.98 Container: Amber Thermometer ID: 177
Temperature: A 0.9 °C / C 1.3 °C
Date/Time 3/30/12
Analyst Init MAN 10:20

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	2	3	5	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	A,B	A,B	AB							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: CMM Date/Time: 4/4/12 0915
A = Actual / C = Corrected
[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1205880-01	**COC Number:**	---	**Receive Date:**	03/30/2012 10:20
	Project Number:	---	**Sampling Date:**	03/28/2012 10:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HG-29D	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1205880-02	**COC Number:**	---	**Receive Date:**	03/30/2012 10:20
	Project Number:	---	**Sampling Date:**	03/29/2012 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HG-30S	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1205880-03	**COC Number:**	---	**Receive Date:**	03/30/2012 10:20
	Project Number:	---	**Sampling Date:**	03/29/2012 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Duplicate	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1205880-04	**COC Number:**	---	**Receive Date:**	03/30/2012 10:20
	Project Number:	---	**Sampling Date:**	03/29/2012 16:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HG-28S	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1205880-05	**COC Number:**	---	**Receive Date:**	03/30/2012 10:20
	Project Number:	---	**Sampling Date:**	03/28/2012 15:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HG-28D	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water
1205880-06	**COC Number:**	---	**Receive Date:**	03/30/2012 10:20
	Project Number:	---	**Sampling Date:**	03/29/2012 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HG-29S	**Lab Matrix:**	Water
	Sampled By:	---	**Sample Type:**	Water

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205880-01 | **Client Sample Name:** HG-29D, 3/28/2012 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	20	5.2	EPA-8270C	ND	A10	1
Borneol	ND	ug/L	20	4.5	EPA-8270C	ND	A10	1
Camphene	ND	ug/L	20	4.7	EPA-8270C	ND	A10	1
Camphor	ND	ug/L	20	4.7	EPA-8270C	ND	A10	1
Cineole	ND	ug/L	20	5.7	EPA-8270C	ND	A10	1
Dipentene	ND	ug/L	20	4.7	EPA-8270C	ND	A10	1
Isoborneol	**440**	**ug/L**	**20**	**5.3**	**EPA-8270C**	ND	**A10**	1
Limonene	ND	ug/L	20	8.9	EPA-8270C	ND	A10	1
alpha-Pinene	ND	ug/L	20	8.1	EPA-8270C	ND	A10	1
beta-Pinene	ND	ug/L	20	4.8	EPA-8270C	ND	A10	1
alpha-Terpineol	ND	ug/L	20	4.7	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	41.8	%	20 - 120 (LCL - UCL)		EPA-8270C		A10	1
Phenol-d5 (Surrogate)	32.7	%	10 - 110 (LCL - UCL)		EPA-8270C		A10	1
Nitrobenzene-d5 (Surrogate)	0	%	55 - 150 (LCL - UCL)		EPA-8270C		A10,S09	1
2-Fluorobiphenyl (Surrogate)	47.9	%	51 - 130 (LCL - UCL)		EPA-8270C		A10,S09	1
2,4,6-Tribromophenol (Surrogate)	65.4	%	44 - 160 (LCL - UCL)		EPA-8270C		A10	1
p-Terphenyl-d14 (Surrogate)	101	%	30 - 160 (LCL - UCL)		EPA-8270C		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/04/12	04/06/12 17:12	SKC	MS-B2	10	BVD0312

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205880-02 | **Client Sample Name:** HG-30S, 3/29/2012 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	200	52	EPA-8270C	ND	A10	1
Borneol	**2700**	**ug/L**	**200**	**45**	**EPA-8270C**	ND	**A10**	1
Camphene	ND	ug/L	200	47	EPA-8270C	ND	A10	1
Camphor	**1500**	**ug/L**	**200**	**47**	**EPA-8270C**	ND	**A10**	1
Cineole	ND	ug/L	200	57	EPA-8270C	ND	A10	1
Dipentene	ND	ug/L	200	47	EPA-8270C	ND	A10	1
Isoborneol	ND	ug/L	200	53	EPA-8270C	ND	A10	1
Limonene	ND	ug/L	200	89	EPA-8270C	ND	A10	1
alpha-Pinene	ND	ug/L	200	81	EPA-8270C	ND	A10	1
beta-Pinene	ND	ug/L	200	48	EPA-8270C	ND	A10	1
alpha-Terpineol	ND	ug/L	200	47	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	0	%	20 - 120 (LCL - UCL)		EPA-8270C		A10,A17	1
Phenol-d5 (Surrogate)	0	%	10 - 110 (LCL - UCL)		EPA-8270C		A10,A17	1
Nitrobenzene-d5 (Surrogate)	0	%	55 - 150 (LCL - UCL)		EPA-8270C		A10,A17	1
2-Fluorobiphenyl (Surrogate)	0	%	51 - 130 (LCL - UCL)		EPA-8270C		A10,A17	1
2,4,6-Tribromophenol (Surrogate)	0	%	44 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1
p-Terphenyl-d14 (Surrogate)	0	%	30 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/04/12	04/06/12 19:51	SKC	MS-B2	100	BVD0312

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205880-03 | **Client Sample Name:** Duplicate, 3/29/2012 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	200	52	EPA-8270C	ND	A10	1
Borneol	**2600**	**ug/L**	**200**	**45**	**EPA-8270C**	ND	**A10**	1
Camphene	ND	ug/L	200	47	EPA-8270C	ND	A10	1
Camphor	**1600**	**ug/L**	**200**	**47**	**EPA-8270C**	ND	**A10**	1
Cineole	ND	ug/L	200	57	EPA-8270C	ND	A10	1
Dipentene	ND	ug/L	200	47	EPA-8270C	ND	A10	1
Isoborneol	ND	ug/L	200	53	EPA-8270C	ND	A10	1
Limonene	ND	ug/L	200	89	EPA-8270C	ND	A10	1
alpha-Pinene	ND	ug/L	200	81	EPA-8270C	ND	A10	1
beta-Pinene	ND	ug/L	200	48	EPA-8270C	ND	A10	1
alpha-Terpineol	ND	ug/L	200	47	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	0	%	20 - 120 (LCL - UCL)		EPA-8270C		A10,A17	1
Phenol-d5 (Surrogate)	0	%	10 - 110 (LCL - UCL)		EPA-8270C		A10,A17	1
Nitrobenzene-d5 (Surrogate)	0	%	55 - 150 (LCL - UCL)		EPA-8270C		A10,A17	1
2-Fluorobiphenyl (Surrogate)	0	%	51 - 130 (LCL - UCL)		EPA-8270C		A10,A17	1
2,4,6-Tribromophenol (Surrogate)	0	%	44 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1
p-Terphenyl-d14 (Surrogate)	0	%	30 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/04/12	04/06/12 20:17	SKC	MS-B2	100	BVD0312

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205880-04 | **Client Sample Name:** HG-28S, 3/29/2012 4:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	91	24	EPA-8270C	ND	A10	1
Borneol	ND	ug/L	91	20	EPA-8270C	ND	A10	1
Camphene	ND	ug/L	91	21	EPA-8270C	ND	A10	1
Camphor	ND	ug/L	91	21	EPA-8270C	ND	A10	1
Cineole	ND	ug/L	91	26	EPA-8270C	ND	A10	1
Dipentene	ND	ug/L	91	21	EPA-8270C	ND	A10	1
Isoborneol	**1500**	**ug/L**	**91**	**24**	**EPA-8270C**	ND	**A10**	1
Limonene	ND	ug/L	91	40	EPA-8270C	ND	A10	1
alpha-Pinene	ND	ug/L	91	37	EPA-8270C	ND	A10	1
beta-Pinene	ND	ug/L	91	22	EPA-8270C	ND	A10	1
alpha-Terpineol	ND	ug/L	91	21	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	0	%	20 - 120 (LCL - UCL)		EPA-8270C		A10,A17	1
Phenol-d5 (Surrogate)	0	%	10 - 110 (LCL - UCL)		EPA-8270C		A10,A17	1
Nitrobenzene-d5 (Surrogate)	0	%	55 - 150 (LCL - UCL)		EPA-8270C		A10,A17	1
2-Fluorobiphenyl (Surrogate)	0	%	51 - 130 (LCL - UCL)		EPA-8270C		A10,A17	1
2,4,6-Tribromophenol (Surrogate)	0	%	44 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1
p-Terphenyl-d14 (Surrogate)	0	%	30 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/04/12	04/06/12 20:44	SKC	MS-B2	45.455	BVD0312

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205880-05 | **Client Sample Name:** HG-28D, 3/28/2012 3:40:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	2.0	0.52	EPA-8270C	ND		1
Borneol	**66**	**ug/L**	**2.0**	**0.45**	**EPA-8270C**	ND		1
Camphene	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
Camphor	**65**	**ug/L**	**2.0**	**0.47**	**EPA-8270C**	ND		1
Cineole	**50**	**ug/L**	**2.0**	**0.57**	**EPA-8270C**	ND		1
Dipentene	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
Isoborneol	ND	ug/L	2.0	0.53	EPA-8270C	ND		1
Limonene	**2.0**	**ug/L**	**2.0**	**0.89**	**EPA-8270C**	ND		1
alpha-Pinene	ND	ug/L	2.0	0.81	EPA-8270C	ND		1
beta-Pinene	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
alpha-Terpineol	**18**	**ug/L**	**2.0**	**0.47**	**EPA-8270C**	ND		1
2-Fluorophenol (Surrogate)	0.7	%	20 - 120 (LCL - UCL)		EPA-8270C		S09	1
Phenol-d5 (Surrogate)	0.2	%	10 - 110 (LCL - UCL)		EPA-8270C		S09	1
Nitrobenzene-d5 (Surrogate)	81.3	%	55 - 150 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	59.6	%	51 - 130 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	0.2	%	44 - 160 (LCL - UCL)		EPA-8270C		S09	1
p-Terphenyl-d14 (Surrogate)	111	%	30 - 160 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/04/12	04/06/12 18:31	SKC	MS-B2	1.099	BVD0312

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1205880-06 | **Client Sample Name:** HG-29S, 3/29/2012 2:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	200	52	EPA-8270C	ND	A10	1
Borneol	**3900**	**ug/L**	**200**	**45**	**EPA-8270C**	ND	**A10**	1
Camphene	ND	ug/L	200	47	EPA-8270C	ND	A10	1
Camphor	**1700**	**ug/L**	**200**	**47**	**EPA-8270C**	ND	**A10**	1
Cineole	ND	ug/L	200	57	EPA-8270C	ND	A10	1
Dipentene	ND	ug/L	200	47	EPA-8270C	ND	A10	1
Isoborneol	ND	ug/L	200	53	EPA-8270C	ND	A10	1
Limonene	ND	ug/L	200	89	EPA-8270C	ND	A10	1
alpha-Pinene	ND	ug/L	200	81	EPA-8270C	ND	A10	1
beta-Pinene	ND	ug/L	200	48	EPA-8270C	ND	A10	1
alpha-Terpineol	ND	ug/L	200	47	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	0	%	20 - 120 (LCL - UCL)		EPA-8270C		A10,A17	1
Phenol-d5 (Surrogate)	0	%	10 - 110 (LCL - UCL)		EPA-8270C		A10,A17	1
Nitrobenzene-d5 (Surrogate)	0	%	55 - 150 (LCL - UCL)		EPA-8270C		A10,A17	1
2-Fluorobiphenyl (Surrogate)	0	%	51 - 130 (LCL - UCL)		EPA-8270C		A10,A17	1
2,4,6-Tribromophenol (Surrogate)	0	%	44 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1
p-Terphenyl-d14 (Surrogate)	0	%	30 - 160 (LCL - UCL)		EPA-8270C		A10,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/04/12	04/06/12 21:10	SKC	MS-B2	100	BVD0312

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVD0312						
trans-Anethol	BVD0312-BLK1	ND	ug/L	2.0	0.52	
Borneol	BVD0312-BLK1	ND	ug/L	2.0	0.45	
Camphene	BVD0312-BLK1	ND	ug/L	2.0	0.47	
Camphor	BVD0312-BLK1	ND	ug/L	2.0	0.47	
Cineole	BVD0312-BLK1	ND	ug/L	2.0	0.57	
Dipentene	BVD0312-BLK1	ND	ug/L	2.0	0.47	
Isoborneol	BVD0312-BLK1	ND	ug/L	2.0	0.53	
Limonene	BVD0312-BLK1	ND	ug/L	2.0	0.89	
alpha-Pinene	BVD0312-BLK1	ND	ug/L	2.0	0.81	
beta-Pinene	BVD0312-BLK1	ND	ug/L	2.0	0.48	
alpha-Terpineol	BVD0312-BLK1	ND	ug/L	2.0	0.47	
2-Fluorophenol (Surrogate)	BVD0312-BLK1	50.3	%	20 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BVD0312-BLK1	34.0	%	10 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BVD0312-BLK1	86.0	%	55 - 150 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BVD0312-BLK1	65.3	%	51 - 130 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BVD0312-BLK1	84.0	%	44 - 160 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BVD0312-BLK1	155	%	30 - 160 (LCL - UCL)		

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

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: BVD0312										
trans-Anethol	BVD0312-BS1	LCS	56.590	80.000	ug/L	70.7		50 - 150		
Borneol	BVD0312-BS1	LCS	55.957	80.000	ug/L	69.9		50 - 150		
Camphene	BVD0312-BS1	LCS	32.885	80.000	ug/L	41.1		50 - 150		L01
Camphor	BVD0312-BS1	LCS	57.485	80.000	ug/L	71.9		50 - 150		
Cineole	BVD0312-BS1	LCS	58.480	80.000	ug/L	73.1		50 - 150		
Dipentene	BVD0312-BS1	LCS	42.395	80.000	ug/L	53.0		50 - 150		
Isoborneol	BVD0312-BS1	LCS	58.024	80.000	ug/L	72.5		50 - 150		
Limonene	BVD0312-BS1	LCS	59.932	80.000	ug/L	74.9		50 - 150		
alpha-Pinene	BVD0312-BS1	LCS	26.274	80.000	ug/L	32.8		50 - 150		L01
beta-Pinene	BVD0312-BS1	LCS	37.643	80.000	ug/L	47.1		50 - 150		L01
alpha-Terpineol	BVD0312-BS1	LCS	69.464	80.000	ug/L	86.8		50 - 150		
2-Fluorophenol (Surrogate)	BVD0312-BS1	LCS	40.490	80.000	ug/L	50.6		20 - 120		
Phenol-d5 (Surrogate)	BVD0312-BS1	LCS	28.650	80.000	ug/L	35.8		10 - 110		
Nitrobenzene-d5 (Surrogate)	BVD0312-BS1	LCS	66.460	80.000	ug/L	83.1		55 - 150		
2-Fluorobiphenyl (Surrogate)	BVD0312-BS1	LCS	51.240	80.000	ug/L	64.0		51 - 130		
2,4,6-Tribromophenol (Surrogate)	BVD0312-BS1	LCS	63.300	80.000	ug/L	79.1		44 - 160		
p-Terphenyl-d14 (Surrogate)	BVD0312-BS1	LCS	60.060	40.000	ug/L	150		30 - 160		

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Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

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: BVD0312	Used client sample: N										
trans-Anethol	MS	1204254-53	ND	56.545	80.000	ug/L		70.7		50 - 150	
	MSD	1204254-53	ND	58.193	80.000	ug/L	2.9	72.7	30	50 - 150	
Borneol	MS	1204254-53	ND	58.476	80.000	ug/L		73.1		50 - 150	
	MSD	1204254-53	ND	57.490	80.000	ug/L	1.7	71.9	30	50 - 150	
Camphene	MS	1204254-53	ND	35.909	80.000	ug/L		44.9		50 - 150	Q03
	MSD	1204254-53	ND	38.679	80.000	ug/L	7.4	48.3	30	50 - 150	Q03
Camphor	MS	1204254-53	ND	58.666	80.000	ug/L		73.3		50 - 150	
	MSD	1204254-53	ND	60.770	80.000	ug/L	3.5	76.0	30	50 - 150	
Cineole	MS	1204254-53	ND	59.911	80.000	ug/L		74.9		50 - 150	
	MSD	1204254-53	ND	62.609	80.000	ug/L	4.4	78.3	30	50 - 150	
Dipentene	MS	1204254-53	ND	43.026	80.000	ug/L		53.8		50 - 150	
	MSD	1204254-53	ND	46.590	80.000	ug/L	8.0	58.2	30	50 - 150	
Isoborneol	MS	1204254-53	ND	57.662	80.000	ug/L		72.1		50 - 150	
	MSD	1204254-53	ND	59.043	80.000	ug/L	2.4	73.8	30	50 - 150	
Limonene	MS	1204254-53	ND	62.608	80.000	ug/L		78.3		50 - 150	
	MSD	1204254-53	ND	67.118	80.000	ug/L	7.0	83.9	30	50 - 150	
alpha-Pinene	MS	1204254-53	ND	27.158	80.000	ug/L		33.9		50 - 150	Q03
	MSD	1204254-53	ND	27.929	80.000	ug/L	2.8	34.9	30	50 - 150	Q03
beta-Pinene	MS	1204254-53	ND	38.920	80.000	ug/L		48.6		50 - 150	Q03
	MSD	1204254-53	ND	42.059	80.000	ug/L	7.8	52.6	30	50 - 150	
alpha-Terpineol	MS	1204254-53	ND	70.554	80.000	ug/L		88.2		50 - 150	
	MSD	1204254-53	ND	73.315	80.000	ug/L	3.8	91.6	30	50 - 150	
2-Fluorophenol (Surrogate)	MS	1204254-53	ND	42.200	80.000	ug/L		52.8		20 - 120	
	MSD	1204254-53	ND	43.950	80.000	ug/L	4.1	54.9		20 - 120	
Phenol-d5 (Surrogate)	MS	1204254-53	ND	28.820	80.000	ug/L		36.0		10 - 110	
	MSD	1204254-53	ND	30.010	80.000	ug/L	4.0	37.5		10 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1204254-53	ND	67.700	80.000	ug/L		84.6		55 - 150	
	MSD	1204254-53	ND	73.230	80.000	ug/L	7.8	91.5		55 - 150	
2-Fluorobiphenyl (Surrogate)	MS	1204254-53	ND	53.570	80.000	ug/L		67.0		51 - 130	
	MSD	1204254-53	ND	52.350	80.000	ug/L	2.3	65.4		51 - 130	
2,4,6-Tribromophenol (Surrogate)	MS	1204254-53	ND	63.020	80.000	ug/L		78.8		44 - 160	
	MSD	1204254-53	ND	69.700	80.000	ug/L	10.1	87.1		44 - 160	
p-Terphenyl-d14 (Surrogate)	MS	1204254-53	ND	55.070	40.000	ug/L		138		30 - 160	
	MSD	1204254-53	ND	66.360	40.000	ug/L	18.6	166		30 - 160	S09

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/09/2012 13:31
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

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
A10	PQL's and MDL's were raised due to matrix interference.
A17	Surrogate not reportable due to sample dilution.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 04/24/2012

Mark Taylor

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Project:	Hawthorne Investigation
BC Work Order:	1206690
Invoice ID:	B120702

Enclosed are the results of analyses for samples received by the laboratory on 4/13/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Authorized Signature

Table of Contents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

~~TestAmerica~~ BC Labs Bakersfield CA

THE LEADER IN ENVIRONMENTAL TESTING

~~TestAmerica Savannah~~
~~5102 LaRoche Avenue~~
~~Savannah, GA 31404~~
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

#12-06690

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION
Hawthorne Groundwater Sampling	05791.004.008.0001	FLORIDA

TESTAMERICA (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Tina ~~Bell-Daughtry~~ Green		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
MARK TAYLOR	904-261-3085	

CLIENT NAME	CLIENT EMAIL
WESTON	mark.taylor@westonsolutions.come

CLIENT ADDRESS: 94072 Summer Breeze Drive Fernandina Beach, FL 32034

COMPANY CONTRACTING THIS WORK (if applicable):

PAGE 1 OF 1

STANDARD REPORT DELIVERY: O

DATE DUE:

EXPEDITED REPORT DELIVERY (SURCHARGE): ✓

DATE DUE:

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX: AQUEOUS (WATER)	MATRIX: SOLID OR SEMISOLID	MATRIX: AIR	MATRIX: NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	REQUIRED ANALYSES: Nov 8270 PAHs SIM only	REMARKS
4/12/12	1230	HG-30D >-1		✓				2	

PRESERVATIVE

NUMBER OF CONTAINERS SUBMITTED

CHK BY: DW

DISTRIBUTION: SUB-OUT ☐

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	4/12/12	1600						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	4/13/12	10:27						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS:
			YES ○ NO ○			

FCU052:01.02.08:2

Chain of Custody and Cooler Receipt Form for 1206690 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 12-06690

SHIPPING INFORMATION
Federal Express [X] UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest [V] None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice [X] Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest [X] Intact? Yes [V] No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☐ Comments:

All samples received? Yes [X] No ☐ All samples containers intact? Yes [X] No ☐ Description(s) match COC? Yes [X] No ☐

COC Received [X] YES ☐ NO

Emissivity: 0.98 Container: Amber Thermometer ID: 177
Temperature: A 1.6 °C / C 2.0 °C
Date/Time 4/13/12
Analyst Init MAM 10:27

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA ~~8015M~~ 8270	A,B									
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: BLT Date/Time: 4-13-12@ 1255
A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/24/2012 16:50
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1206690-01	**COC Number:**	---	**Receive Date:**	04/13/2012 10:27
	Project Number:	---	**Sampling Date:**	04/12/2012 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HG-30D	**Lab Matrix:**	Water
	Sampled By:	Mark Taylor	**Sample Type:**	Water

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/24/2012 16:50
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

BCL Sample ID: 1206690-01 | **Client Sample Name:** HG-30D, 4/12/2012 12:30:00PM, Mark Taylor

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Anethol	ND	ug/L	10	2.6	EPA-8270C	ND	A10	1
Borneol	ND	ug/L	10	2.2	EPA-8270C	ND	A10	1
Camphene	ND	ug/L	10	2.4	EPA-8270C	ND	A10	1
Camphor	**63**	**ug/L**	**10**	**2.4**	**EPA-8270C**	ND	**A10**	1
Cineole	ND	ug/L	10	2.8	EPA-8270C	ND	A10	1
Dipentene	ND	ug/L	10	2.4	EPA-8270C	ND	A10	1
Isoborneol	ND	ug/L	10	2.6	EPA-8270C	ND	A10	1
Limonene	ND	ug/L	10	4.4	EPA-8270C	ND	A10	1
alpha-Pinene	ND	ug/L	10	4.0	EPA-8270C	ND	A10	1
beta-Pinene	ND	ug/L	10	2.4	EPA-8270C	ND	A10	1
alpha-Terpineol	ND	ug/L	10	2.4	EPA-8270C	ND	A10	1
2-Fluorophenol (Surrogate)	43.0	%	30 - 120 (LCL - UCL)		EPA-8270C		A10	1
Phenol-d5 (Surrogate)	31.4	%	12 - 110 (LCL - UCL)		EPA-8270C		A10	1
Nitrobenzene-d5 (Surrogate)	78.4	%	60 - 130 (LCL - UCL)		EPA-8270C		A10	1
2-Fluorobiphenyl (Surrogate)	57.4	%	55 - 125 (LCL - UCL)		EPA-8270C		A10	1
2,4,6-Tribromophenol (Surrogate)	72.6	%	40 - 150 (LCL - UCL)		EPA-8270C		A10	1
p-Terphenyl-d14 (Surrogate)	112	%	40 - 150 (LCL - UCL)		EPA-8270C		A10	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/16/12	04/21/12 00:50	SKC	MS-B1	5	BVD1053

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/24/2012 16:50
Project: Hawthorne Investigation
Project Number: 05791004006
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Terpenes (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVD1053						
trans-Anethol	BVD1053-BLK1	ND	ug/L	2.0	0.52	
Borneol	BVD1053-BLK1	ND	ug/L	2.0	0.45	
Camphene	BVD1053-BLK1	ND	ug/L	2.0	0.47	
Camphor	BVD1053-BLK1	ND	ug/L	2.0	0.47	
Cineole	BVD1053-BLK1	ND	ug/L	2.0	0.57	
Dipentene	BVD1053-BLK1	ND	ug/L	2.0	0.47	
Isoborneol	BVD1053-BLK1	ND	ug/L	2.0	0.53	
Limonene	BVD1053-BLK1	ND	ug/L	2.0	0.89	
alpha-Pinene	BVD1053-BLK1	ND	ug/L	2.0	0.81	
beta-Pinene	BVD1053-BLK1	ND	ug/L	2.0	0.48	
alpha-Terpineol	BVD1053-BLK1	ND	ug/L	2.0	0.47	
2-Fluorophenol (Surrogate)	BVD1053-BLK1	52.7	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BVD1053-BLK1	33.9	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BVD1053-BLK1	94.5	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BVD1053-BLK1	74.5	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BVD1053-BLK1	85.7	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BVD1053-BLK1	147	%	40 - 150 (LCL - UCL)		

Weston Solutions
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Fernandina Beach, FL 32034

Reported: 04/24/2012 16:50
Project: Hawthorne Investigation
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Terpenes (EPA Method 8270C)

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: BVD1053										
trans-Anethol	BVD1053-BS1	LCS	63.480	80.000	ug/L	79.4		50 - 150		
Borneol	BVD1053-BS1	LCS	69.270	80.000	ug/L	86.6		50 - 150		
Camphene	BVD1053-BS1	LCS	41.550	80.000	ug/L	51.9		50 - 150		
Camphor	BVD1053-BS1	LCS	68.600	80.000	ug/L	85.8		50 - 150		
Cineole	BVD1053-BS1	LCS	64.740	80.000	ug/L	80.9		50 - 150		
Dipentene	BVD1053-BS1	LCS	54.740	80.000	ug/L	68.4		50 - 150		
Isoborneol	BVD1053-BS1	LCS	70.840	80.000	ug/L	88.6		50 - 150		
Limonene	BVD1053-BS1	LCS	85.230	80.000	ug/L	107		50 - 150		
alpha-Pinene	BVD1053-BS1	LCS	32.630	80.000	ug/L	40.8		50 - 150		L01
beta-Pinene	BVD1053-BS1	LCS	54.730	80.000	ug/L	68.4		50 - 150		
alpha-Terpineol	BVD1053-BS1	LCS	72.210	80.000	ug/L	90.3		50 - 150		
2-Fluorophenol (Surrogate)	BVD1053-BS1	LCS	42.500	80.000	ug/L	53.1		30 - 120		
Phenol-d5 (Surrogate)	BVD1053-BS1	LCS	29.170	80.000	ug/L	36.5		12 - 110		
Nitrobenzene-d5 (Surrogate)	BVD1053-BS1	LCS	74.940	80.000	ug/L	93.7		60 - 130		
2-Fluorobiphenyl (Surrogate)	BVD1053-BS1	LCS	61.340	80.000	ug/L	76.7		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BVD1053-BS1	LCS	65.840	80.000	ug/L	82.3		40 - 150		
p-Terphenyl-d14 (Surrogate)	BVD1053-BS1	LCS	59.910	40.000	ug/L	150		40 - 150		

Weston Solutions
94072 Summer Breeze Drive
Fernandina Beach, FL 32034

Reported: 04/24/2012 16:50
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

Terpenes (EPA Method 8270C)

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: BVD1053	Used client sample: N										
trans-Anethol	MS	1204254-67	ND	61.300	80.000	ug/L		76.6		50 - 150	
	MSD	1204254-67	ND	60.210	80.000	ug/L	1.8	75.3	30	50 - 150	
Borneol	MS	1204254-67	ND	66.670	80.000	ug/L		83.3		50 - 150	
	MSD	1204254-67	ND	63.320	80.000	ug/L	5.2	79.2	30	50 - 150	
Camphene	MS	1204254-67	ND	37.950	80.000	ug/L		47.4		50 - 150	Q03
	MSD	1204254-67	ND	39.970	80.000	ug/L	5.2	50.0	30	50 - 150	
Camphor	MS	1204254-67	ND	65.590	80.000	ug/L		82.0		50 - 150	
	MSD	1204254-67	ND	62.010	80.000	ug/L	5.6	77.5	30	50 - 150	
Cineole	MS	1204254-67	ND	59.380	80.000	ug/L		74.2		50 - 150	
	MSD	1204254-67	ND	57.740	80.000	ug/L	2.8	72.2	30	50 - 150	
Dipentene	MS	1204254-67	ND	48.790	80.000	ug/L		61.0		50 - 150	
	MSD	1204254-67	ND	51.110	80.000	ug/L	4.6	63.9	30	50 - 150	
Isoborneol	MS	1204254-67	ND	67.030	80.000	ug/L		83.8		50 - 150	
	MSD	1204254-67	ND	63.830	80.000	ug/L	4.9	79.8	30	50 - 150	
Limonene	MS	1204254-67	ND	74.800	80.000	ug/L		93.5		50 - 150	
	MSD	1204254-67	ND	79.210	80.000	ug/L	5.7	99.0	30	50 - 150	
alpha-Pinene	MS	1204254-67	ND	29.390	80.000	ug/L		36.7		50 - 150	Q03
	MSD	1204254-67	ND	31.670	80.000	ug/L	7.5	39.6	30	50 - 150	Q03
beta-Pinene	MS	1204254-67	ND	48.450	80.000	ug/L		60.6		50 - 150	
	MSD	1204254-67	ND	54.930	80.000	ug/L	12.5	68.7	30	50 - 150	
alpha-Terpineol	MS	1204254-67	ND	68.280	80.000	ug/L		85.4		50 - 150	
	MSD	1204254-67	ND	64.610	80.000	ug/L	5.5	80.8	30	50 - 150	
2-Fluorophenol (Surrogate)	MS	1204254-67	ND	39.710	80.000	ug/L		49.6		30 - 120	
	MSD	1204254-67	ND	39.920	80.000	ug/L	0.5	49.9		30 - 120	
Phenol-d5 (Surrogate)	MS	1204254-67	ND	27.650	80.000	ug/L		34.6		12 - 110	
	MSD	1204254-67	ND	28.230	80.000	ug/L	2.1	35.3		12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1204254-67	ND	72.250	80.000	ug/L		90.3		60 - 130	
	MSD	1204254-67	ND	73.170	80.000	ug/L	1.3	91.5		60 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1204254-67	ND	55.620	80.000	ug/L		69.5		55 - 125	
	MSD	1204254-67	ND	60.120	80.000	ug/L	7.8	75.2		55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	1204254-67	ND	62.320	80.000	ug/L		77.9		40 - 150	
	MSD	1204254-67	ND	60.610	80.000	ug/L	2.8	75.8		40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1204254-67	ND	56.450	40.000	ug/L		141		40 - 150	
	MSD	1204254-67	ND	57.350	40.000	ug/L	1.6	143		40 - 150	

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Reported: 04/24/2012 16:50
Project: Hawthorne Investigation
Project Number: 05791004006
Project Manager: Mark Taylor

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
A10	PQL's and MDL's were raised due to matrix interference.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.