



October 05, 2017

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

Project Name - Crestone - Moser 1

Project Number - [none]

Attached are your analytical results for Crestone - Moser 1 received by Origins Laboratory, Inc. September 28, 2017. This project is associated with Origins project number Y709412-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01R	Y709412-01	Water	September 28, 2017 7:45	09/28/2017 16:58
MW-02R	Y709412-02	Water	September 28, 2017 7:27	09/28/2017 16:58
MW-03R	Y709412-03	Water	September 28, 2017 7:23	09/28/2017 16:58
MW-04R	Y709412-04	Water	September 28, 2017 7:19	09/28/2017 16:58
MW-05R	Y709412-05	Water	September 28, 2017 7:37	09/28/2017 16:58
MW-06R	Y709412-06	Water	September 28, 2017 7:34	09/28/2017 16:58

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

ORIGINS
LABORATORY, INC

1709412

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client: Eagle Environmental Consulting, Inc. Project Manager: Dan Coloccia
Project: Crestone - Moser 1 Project Number: [none]

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MW-01R	Water	9/28/17	7:45	AN/DC	40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
02-001	MW-02R	Water		7:27		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
03-001	MW-03R	Water		7:23		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
04-001	MW-04R	Water		7:19		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
05-001	MW-05R	Water		7:37		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C
06-001	MW-06R	Water		7:34		40mL Amber VOA Vial - HC	3	BTEX by EPA 8260C

Relinquished By: *[Signature]* Date / Time: 9/28/17 1658

Received By: *[Signature]* Date / Time: 9/28/17 1658

Relinquished By: _____ Date / Time: _____

Received By: _____ Date / Time: _____

Temperature on Receipt: 1.0
Turn Around Time: ☐ Same Day ☐ 72-hr ☒ Standard
24-hr 48-hr

Origins Laboratory, Inc.

Jefe Pellegrini

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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1709412

Client: Eagle Env.

Client Project ID: Crestone - Moser 1

Checklist Completed by: Don Lu

Shipped Via: HLI

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9-29-12 1654

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: (Describe)

Cooler Number/Temperature: 1 1.0 °C 1 °C 1 °C 1 °C

Thermometer ID: 1603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MW -01R
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) Don Lu

9-29-12 1654
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

MW-01R

9/28/2017 7:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y709412-01 (Water)

BTEX by EPA 8260C

Benzene	99.8	4.00	ug/L	4	B7J0401	10/04/2017	10/05/2017	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4

93.2 % 84-121

" " "

Surrogate: Toluene-d8

103 % 85-115

" " "

Surrogate: 4-Bromofluorobenzene

95.7 % 84-114

" " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

MW-02R

9/28/2017 7:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y709412-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7J0401	10/04/2017	10/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %	84-121	"	"	"
Surrogate: Toluene-d8	101 %	85-115	"	"	"
Surrogate: 4-Bromofluorobenzene	94.7 %	84-114	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

MW-03R

9/28/2017 7:23:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y709412-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7J0401	10/04/2017	10/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	84-121			"	"	"
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	84-114			"	"	"

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

MW-04R

9/28/2017 7:19:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y709412-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7J0401	10/04/2017	10/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

MW-05R

9/28/2017 7:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y709412-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B7J0401	10/04/2017	10/05/2017	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3 %	84-121			"	"	"	
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

MW-06R

9/28/2017 7:34:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y709412-06 (Water)

BTEX by EPA 8260C

Benzene	955	20.0	ug/L	20	B7J0401	10/04/2017	10/05/2017	
Toluene	ND	1.00	"	1	"	"	10/05/2017	U
Ethylbenzene	6.54	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.9 %	84-121			"	"	"	
Surrogate: Toluene-d8	110 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.2 %	84-114			"	"	"	

Origins Laboratory, Inc.



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4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

Blank (B7J0401-BLK1)

Prepared: 10/04/2017 Analyzed: 10/04/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	101		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.6		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.0		84-114			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

Blank (B7J0401-BLK2)

Prepared: 10/04/2017 Analyzed: 10/04/2017

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.1	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	84-114			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

LCS (B7J0401-BS1)

Prepared: 10/04/2017 Analyzed: 10/04/2017

Benzene	45.7	1.00	ug/L	50.0		91.3	73.3-129
Toluene	46.9	1.00	"	50.0		93.8	76.2-123
Ethylbenzene	48.0	1.00	"	50.0		96.1	73.6-130
m,p-Xylene	94.2	2.00	"	100		94.2	76.1-126
o-Xylene	47.8	1.00	"	50.0		95.6	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	84-121
Surrogate: Toluene-d8	64		"	62.5		102	85-115
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

LCS (B7J0401-BS2)

Prepared: 10/04/2017 Analyzed: 10/04/2017

Benzene	50.3	1.00	ug/L	50.0		101	73.3-129			
Toluene	51.7	1.00	"	50.0		103	76.2-123			
Ethylbenzene	52.2	1.00	"	50.0		104	73.6-130			
m,p-Xylene	106	2.00	"	100		106	76.1-126			
o-Xylene	53.5	1.00	"	50.0		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.4	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	84-114			

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4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

Matrix Spike (B7J0401-MS1)		Source: Y709403-01			Prepared: 10/04/2017 Analyzed: 10/04/2017					
Benzene	56.7	1.00	ug/L	50.0	2.41	109	74-130			
Toluene	55.2	1.00	"	50.0	ND	110	73-131			
Ethylbenzene	56.9	1.00	"	50.0	0.360	113	76-132			
m,p-Xylene	113	2.00	"	100	0.690	113	69-139			
o-Xylene	58.2	1.00	"	50.0	ND	116	74-131			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.4	84-121			
Surrogate: Toluene-d8	65		"	62.5		104	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	84-114			

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4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

Matrix Spike (B7J0401-MS2)		Source: Y709403-03			Prepared: 10/04/2017 Analyzed: 10/04/2017					
Benzene	1000000000	1.00	ug/L	50.0	1000000000	0.00	74-130			QM-02
Toluene	64.6	1.00	"	50.0	2.68	124	73-131			
Ethylbenzene	175	1.00	"	50.0	86.3	177	76-132			QM-02
m,p-Xylene	153	2.00	"	100	21.1	132	69-139			
o-Xylene	66.8	1.00	"	50.0	0.670	132	74-131			QM-02
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.3	84-121			
Surrogate: Toluene-d8	65		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	84-114			

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4101 Inca Street
Denver CO 80211

Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

Matrix Spike Dup (B7J0401-MSD1)		Source: Y709403-01			Prepared: 10/04/2017 Analyzed: 10/04/2017					
Benzene	47.8	1.00	ug/L	50.0	2.41	90.8	74-130	17.0	20	
Toluene	46.9	1.00	"	50.0	ND	93.8	73-131	16.3	20	
Ethylbenzene	47.3	1.00	"	50.0	0.360	93.9	76-132	18.3	20	
m,p-Xylene	95.0	2.00	"	100	0.690	94.3	69-139	17.6	20	
o-Xylene	49.2	1.00	"	50.0	ND	98.5	74-131	16.7	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		88.9	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		96.9	84-114			

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Dan Coloccia
Project Number: [none]
Project: Crestone - Moser 1

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J0401 - EPA 5030B (Water)

Matrix Spike Dup (B7J0401-MSD2)		Source: Y709403-03			Prepared: 10/04/2017 Analyzed: 10/04/2017					
Benzene	1000000000	1.00	ug/L	50.0	1000000000	0.00	74-130	0.00	20	QM-02
Toluene	59.5	1.00	"	50.0	2.68	114	73-131	8.23	20	
Ethylbenzene	152	1.00	"	50.0	86.3	130	76-132	14.3	20	
m,p-Xylene	139	2.00	"	100	21.1	118	69-139	9.79	20	
o-Xylene	62.0	1.00	"	50.0	0.670	123	74-131	7.55	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.1	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	84-114			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Dan Coloccia

Project Number: [none]

Project: Crestone - Moser 1

Notes and Definitions

U Sample is Non-Detect.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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