



June 21, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Eldridge 4-23

Project Number - [none]

Attached are your analytical results for Eldridge 4-23 received by Origins Laboratory, Inc. June 19, 2017. This project is associated with Origins project number Y706252-01.

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

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-05@8'	Y706252-01	Soil	June 19, 2017 12:55	06/19/2017 15:55
SS-06@8'	Y706252-02	Soil	June 19, 2017 13:00	06/19/2017 15:55
SS-07@8'	Y706252-03	Soil	June 19, 2017 12:45	06/19/2017 15:55
SS-08@8'	Y706252-04	Soil	June 19, 2017 12:50	06/19/2017 15:55
SS-09@8'	Y706252-05	Soil	June 19, 2017 12:35	06/19/2017 15:55
SS-10@8'	Y706252-06	Soil	June 19, 2017 12:40	06/19/2017 15:55
SS-11@8'	Y706252-07	Soil	June 19, 2017 13:05	06/19/2017 15:55
SS-12@8'	Y706252-08	Soil	June 19, 2017 13:10	06/19/2017 15:55

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Y700252

page 1 of 1

Client: EAGLE ENV CONSULTING
Address: 4101 INCA ST
DENVER, CO
Telephone Number: 303 433 0479
Email Address: MCE3@eagle-enviro.com

Project Manager: MARTIN ECKERT III
Project Name: ELDRIDGE 4-23
Project Number: 700252
Samples Collected By: AL

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling Container #	Other	Geo	
SS-05 Q8	6/19/17	1255	2	X					X				1
SS-06 Q8		1300	1										2
SS-07 Q8		1245	1										3
SS-08 Q8		1250	1										4
SS-09 Q8		1235	1										5
SS-10 Q8		1240	1										6
SS-11 Q8		1305	1										7
SS-12 Q8		1310	1										8
													9
													10

Relinquished By:	Date: 6/19/17	Time: 1555	Received By:	Date: 6/17	Time: 1555	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	

Temp Received: 26.2 Date Result Needed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1706252

Client: Eagle Env.

Client Project ID: Eldridge Eldridge 4-23

Checklist Completed by: RL

Shipped Via: ND
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-19-12 1752

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: ☒ 12.6 °C ☐ _____ °C ☐ _____ °C (Describe)

Thermometer ID: 1227

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" 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 checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" 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"/>	
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 checked="" 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 [Signature] (Project Manager)

Date/Time Reviewed 6/20/12

Origins Laboratory, Inc.

Jefe Pellegrini

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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-05@8'

6/19/2017 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	124	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017
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Surrogate: o-Terphenyl	97.2 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	3840	50.0	mg/kg	250	B7F2003	06/20/2017	06/20/2017
Benzene	35.4	0.498	"	"	"	"	"
Toluene	53.4	0.498	"	"	"	"	"
Ethylbenzene	13.2	0.498	"	"	"	"	"
Xylenes, total	81.1	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130			"	"	"
Surrogate: Toluene-d8	77.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-06@8'
6/19/2017 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017	U
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Surrogate: o-Terphenyl	88.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	3440	50.0	mg/kg	250	B7F2003	06/20/2017	06/20/2017	
Benzene	45.1	0.498	"	"	"	"	"	
Toluene	73.9	0.498	"	"	"	"	"	
Ethylbenzene	6.34	0.498	"	"	"	"	"	
Xylenes, total	42.4	0.498	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	84.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-07@8'

6/19/2017 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	241	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017
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Surrogate: o-Terphenyl	99.5 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	4520	50.0	mg/kg	250	B7F2003	06/20/2017	06/20/2017
Benzene	48.0	0.498	"	"	"	"	"
Toluene	39.4	0.498	"	"	"	"	"
Ethylbenzene	12.3	0.498	"	"	"	"	"
Xylenes, total	78.8	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	75.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-08@8'

6/19/2017 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	202	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017
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Surrogate: o-Terphenyl	92.5 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	54.7	5.00	mg/kg	25	B7F2003	06/20/2017	06/20/2017
Benzene	0.058	0.050	"	"	"	"	"
Toluene	0.080	0.050	"	"	"	"	"
Ethylbenzene	ND	0.050	"	"	"	"	" U
Xylenes, total	ND	0.050	"	"	"	"	" U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	06/20/2017
Surrogate: Toluene-d8	96.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-09@8'

6/19/2017 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	211	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017
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Surrogate: o-Terphenyl	91.6 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	1270	50.0	mg/kg	250	B7F2003	06/20/2017	06/20/2017
Benzene	12.3	0.498	"	"	"	"	"
Toluene	4.16	0.498	"	"	"	"	"
Ethylbenzene	7.46	0.498	"	"	"	"	"
Xylenes, total	42.9	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"
Surrogate: Toluene-d8	94.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-10@8'

6/19/2017 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-06 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	84.7	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017
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Surrogate: o-Terphenyl	95.1 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	2190	50.0	mg/kg	250	B7F2003	06/20/2017	06/20/2017
Benzene	31.1	0.498	"	"	"	"	"
Toluene	56.5	0.498	"	"	"	"	"
Ethylbenzene	10.2	0.498	"	"	"	"	"
Xylenes, total	65.7	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130			"	"	"
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-11@8'
6/19/2017 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-07 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	152	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017
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Surrogate: o-Terphenyl	78.8 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	2310	50.0	mg/kg	250	B7F2003	06/20/2017	06/20/2017
Benzene	26.1	0.498	"	"	"	"	"
Toluene	61.6	0.498	"	"	"	"	"
Ethylbenzene	10.9	0.498	"	"	"	"	"
Xylenes, total	72.1	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130			"	"	"
Surrogate: Toluene-d8	95.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.6 %	70-130			"	"	"

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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

SS-12@8'
6/19/2017 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706252-08 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	105	50.0	mg/kg	1	B7F2102	06/20/2017	06/20/2017
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Surrogate: o-Terphenyl	91.2 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	2770	50.0	mg/kg	250	B7F2003	06/20/2017	06/20/2017
Benzene	41.0	0.498	"	"	"	"	"
Toluene	23.2	0.498	"	"	"	"	"
Ethylbenzene	20.5	0.498	"	"	"	"	"
Xylenes, total	101	0.498	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130			"	"	"
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

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 B7F2003 - EPA 5030 (soil)

Blank (B7F2003-BLK1)

Prepared: 06/20/2017 Analyzed: 06/20/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

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
Batch B7F2003 - EPA 5030 (soil)										
Blank (B7F2003-BLK2)					Prepared: 06/20/2017 Analyzed: 06/20/2017					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.2	70-130			

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4101 Inca Street
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Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

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
Batch B7F2003 - EPA 5030 (soil)										
LCS (B7F2003-BS1)					Prepared: 06/20/2017 Analyzed: 06/20/2017					
Benzene	0.101	0.002	mg/kg	0.100		101	77.1-124			
Toluene	0.093	0.002	"	0.100		92.7	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		103	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.2	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

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 B7F2003 - EPA 5030 (soil)

LCS (B7F2003-BS2)

Prepared: 06/20/2017 Analyzed: 06/20/2017

Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.095	0.002	"	0.100		95.0	74.5-128			
Ethylbenzene	0.107	0.002	"	0.100		107	66.4-127			
m,p-Xylene	0.209	0.004	"	0.200		104	76.6-124			
o-Xylene	0.100	0.002	"	0.100		99.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Eldridge 4-23

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 B7F2003 - EPA 5030 (soil)

Matrix Spike (B7F2003-MS1)		Source: Y706239-01			Prepared: 06/20/2017 Analyzed: 06/20/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	96.3	71.8-126			
Toluene	0.087	0.002	"	0.100	ND	87.0	65.1-130			
Ethylbenzene	0.097	0.002	"	0.100	ND	96.5	62.2-130			
m,p-Xylene	0.190	0.004	"	0.200	ND	95.0	46.5-137			
o-Xylene	0.089	0.002	"	0.100	ND	89.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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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 B7F2003 - EPA 5030 (soil)

Matrix Spike (B7F2003-MS2)		Source: Y706239-02			Prepared: 06/20/2017 Analyzed: 06/20/2017					
Benzene	0.086	0.002	mg/kg	0.100	ND	86.2	71.8-126			
Toluene	0.072	0.002	"	0.100	ND	72.3	65.1-130			
Ethylbenzene	0.074	0.002	"	0.100	ND	73.9	62.2-130			
m,p-Xylene	0.146	0.004	"	0.200	ND	73.1	46.5-137			
o-Xylene	0.071	0.002	"	0.100	ND	70.7	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
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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 B7F2003 - EPA 5030 (soil)

Matrix Spike Dup (B7F2003-MSD1)		Source: Y706239-01			Prepared: 06/20/2017 Analyzed: 06/20/2017					
Benzene	0.090	0.002	mg/kg	0.100	ND	90.5	71.8-126	6.27	11.3	
Toluene	0.081	0.002	"	0.100	ND	81.0	65.1-130	7.09	15.4	
Ethylbenzene	0.090	0.002	"	0.100	ND	90.5	62.2-130	6.46	19.6	
m,p-Xylene	0.177	0.004	"	0.200	ND	88.7	46.5-137	6.83	19.2	
o-Xylene	0.085	0.002	"	0.100	ND	85.1	54.2-134	5.04	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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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 B7F2003 - EPA 5030 (soil)

Matrix Spike Dup (B7F2003-MSD2)		Source: Y706239-02			Prepared: 06/20/2017 Analyzed: 06/20/2017					
Benzene	0.085	0.002	mg/kg	0.100	ND	85.3	71.8-126	1.05	11.3	
Toluene	0.073	0.002	"	0.100	ND	72.9	65.1-130	0.827	15.4	
Ethylbenzene	0.075	0.002	"	0.100	ND	74.7	62.2-130	1.08	19.6	
m,p-Xylene	0.146	0.004	"	0.200	ND	73.1	46.5-137	0.00	19.2	
o-Xylene	0.070	0.002	"	0.100	ND	70.4	54.2-134	0.425	17.9	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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Project: Eldridge 4-23

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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Extractable Petroleum Hydrocarbons by 8015C - 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 B7F2102 - EPA 3580

Blank (B7F2102-BLK1)

Prepared: 06/21/2017 Analyzed: 06/21/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

62

"

50.0

124

59-131

Blank (B7F2102-BLK2)

Prepared: 06/21/2017 Analyzed: 06/21/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

52

"

50.0

104

59-131

LCS (B7F2102-BS1)

Prepared: 06/21/2017 Analyzed: 06/21/2017

Diesel (C10-C28)	840	50.0	mg/kg	1000		84.0	64-121			
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Surrogate: o-Terphenyl

46

"

50.0

92.8

59-131

LCS (B7F2102-BS2)

Prepared: 06/21/2017 Analyzed: 06/21/2017

Diesel (C10-C28)	1140	50.0	mg/kg	1000		114	64-121			
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Surrogate: o-Terphenyl

59

"

50.0

118

59-131

Matrix Spike (B7F2102-MS1)

Source: Y706269-01

Prepared: 06/21/2017 Analyzed: 06/21/2017

Diesel (C10-C28)	820	50.0	mg/kg	1000	ND	82.0	53-125			
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Surrogate: o-Terphenyl

43

"

50.0

86.6

59-131

Matrix Spike (B7F2102-MS2)

Source: Y706269-02

Prepared: 06/21/2017 Analyzed: 06/21/2017

Diesel (C10-C28)	888	50.0	mg/kg	1000		88.8	53-125			
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Surrogate: o-Terphenyl

45

"

50.0

90.0

59-131

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Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

Extractable Petroleum Hydrocarbons by 8015C - 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 B7F2102 - EPA 3580

Matrix Spike Dup (B7F2102-MSD1)		Source: Y706269-01			Prepared: 06/21/2017 Analyzed: 06/21/2017					
Diesel (C10-C28)	810	50.0	mg/kg	1000	ND	81.0	53-125	1.11	20	
Surrogate: o-Terphenyl	43		"	50.0		86.3	59-131			

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Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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