



June 20, 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 Y706245-01.

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

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Martin C Eckert III

Project Number: [none]

Project: Eldridge 4-23

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-02	Y706245-01	Water	June 19, 2017 11:50	06/19/2017 15:55

Origins Laboratory, Inc.



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1706245

Client: DAVE DOY 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: ---

Samples Collected By: ARC

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #			
GJ-02	6/19/17	1150	3	X				X					

Relinquished By: [Signature]

Relinquished By: [Signature]

Date: 6/19/17

Date: 6/19/17

Time: 1555

Time: 1555

Received By: [Signature]

Received By: [Signature]

Date: 6-19-17

Date: 6-19-17

Time: 1555

Time: 1555

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Temp Received: 2.6

Date Results Needed: 2.6

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: Y 706245

Client: Eagle Env.

Client Project ID: Eldridge 4-23

Checklist Completed by: DW

Shipped Via: 4D  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-15-17 1609

Airbill #: NA

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

Cooler Number/Temperature: 1 2.6 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> / ( pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> 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) DW

6-15-17 1609  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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Project Number: [none]

Project: Eldridge 4-23

## GW-02

6/19/2017 11:50:00AM

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

Y706245-01 (Water)

### BTEX by EPA 8260C

Benzene	1130	50.0	ug/L	50	B7F1903	06/19/2017	06/19/2017
Toluene	5170	50.0	"	"	"	"	"
Ethylbenzene	539	50.0	"	"	"	"	"
Xylenes, total	3950	50.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.3 %	84-121			"	"	"
Surrogate: Toluene-d8	100 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	84-114			"	"	"

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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 B7F1903 - EPA 5030B (Water)**

**Blank (B7F1903-BLK1)**

Prepared: 06/19/2017 Analyzed: 06/19/2017

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	64		"	62.5	103		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.7		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.2		84-114			

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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 B7F1903 - EPA 5030B (Water)**

**LCS (B7F1903-BS1)**

Prepared: 06/19/2017 Analyzed: 06/19/2017

Benzene	50.8	1.00	ug/L	50.0		102	73.3-129			
Toluene	51.4	1.00	"	50.0		103	76.2-123			
Ethylbenzene	51.2	1.00	"	50.0		102	73.6-130			
m,p-Xylene	104	2.00	"	100		104	76.1-126			
o-Xylene	50.0	1.00	"	50.0		100	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.2	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	84-114			

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Jen Pellegrini For Noelle Doyle Mathis, President

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B7F1903 - EPA 5030B (Water)**

Matrix Spike (B7F1903-MS1)		Source: Y706229-02			Prepared: 06/19/2017 Analyzed: 06/19/2017					
Benzene	54.4	1.00	ug/L	50.0	0.110	109	74-130			
Toluene	56.3	1.00	"	50.0	ND	113	73-131			
Ethylbenzene	57.6	1.00	"	50.0	ND	115	76-132			
m,p-Xylene	115	2.00	"	100	ND	115	69-139			
o-Xylene	53.8	1.00	"	50.0	ND	108	74-131			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	84-114			

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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 B7F1903 - EPA 5030B (Water)

Matrix Spike Dup (B7F1903-MSD1)		Source: Y706229-02			Prepared: 06/19/2017 Analyzed: 06/19/2017					
Benzene	57.8	1.00	ug/L	50.0	0.110	115	74-130	6.05	20	
Toluene	60.4	1.00	"	50.0	ND	121	73-131	7.11	20	
Ethylbenzene	61.5	1.00	"	50.0	ND	123	76-132	6.40	20	
m,p-Xylene	123	2.00	"	100	ND	123	69-139	6.56	20	
o-Xylene	58.8	1.00	"	50.0	ND	118	74-131	8.94	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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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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