



October 10, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - SRC - Eldridge CNE-23

Project Number - [none]

Attached are your analytical results for SRC - Eldridge CNE-23 received by Origins Laboratory, Inc. October 04, 2017. This project is associated with Origins project number Y710072-01.

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: SRC - Eldridge CNE-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@3'	Y710072-01	Soil	October 4, 2017 14:05	10/04/2017 17:08
SS-05	Y710072-02	Soil	October 4, 2017 14:00	10/04/2017 17:08

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: SRC - Eldridge CNE-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1710072

Client: Eagle Env.

Client Project ID: SRC - Eldridge CNE-23

Checklist Completed by: [Signature]

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

Date/time completed: 10-4-12 1713

Airbill #: 1A

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

Cooler Number/Temperature: / 2.5 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1003

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"/>		<u>sampled some Dry</u>
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"/>			<u>pH</u>
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 (Project Manager) [Signature]

10-4-12 1713
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

SS-01@3'
10/4/2017 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710072-01 (Soil)

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

Diesel (C10-C28)	51.8	50.0	mg/kg	1	B7J0407	10/04/2017	10/04/2017	
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Surrogate: o-Terphenyl	84.3 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	7.41	0.200	mg/kg	1	B7J0406	10/04/2017	10/04/2017	
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Benzene	ND	0.002	"	"	"	"	"	U
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Toluene	ND	0.002	"	"	"	"	"	U
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Ethylbenzene	ND	0.002	"	"	"	"	"	U
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Xylenes, total	ND	0.002	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130			"	"	"	
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Surrogate: Toluene-d8	104 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	142 %	70-130			"	"	"	S-04
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Metals (Saturated Paste Prep)

Calcium	1.09		me/L	1	'[none]'	10/06/2017	10/09/2017	
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Magnesium	0.57		"	"	"	"	"	
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Sodium	8.46		"	"	"	"	"	
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pH in Soil by EPA 9045D

pH	8.02		pH Units	1	B7J0408	10/04/2017	10/04/2017	
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Denver CO 80211

Martin C Eckert III
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Project: SRC - Eldridge CNE-23

SS-01@3'
10/4/2017 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710072-01 (Soil)

SAR by 20B Saturated Paste

SAR	9.29			1	'[none]'	10/06/2017	10/09/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.222		mmhos/cm	1	B7J0409	10/04/2017	10/04/2017	
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SS-05
10/4/2017 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710072-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7J0407	10/04/2017	10/04/2017	U
<i>Surrogate: o-Terphenyl</i>	77.4 %	59-131			"	"	"	

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7J0406	10/04/2017	10/05/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.2 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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
Batch B7J0406 - EPA 5030 (soil)										
Blank (B7J0406-BLK1)										
					Prepared: 10/04/2017 Analyzed: 10/04/2017					
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	57		ug/kg	62.5		90.4	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	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 B7J0406 - EPA 5030 (soil)

LCS (B7J0406-BS1)

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

Benzene	0.090	0.002	mg/kg	0.100		89.7	77.1-124			
Toluene	0.093	0.002	"	0.100		93.2	74.5-128			
Ethylbenzene	0.101	0.002	"	0.100		101	66.4-127			
m,p-Xylene	0.210	0.004	"	0.200		105	76.6-124			
o-Xylene	0.098	0.002	"	0.100		98.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

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 Denver CO 80211

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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 B7J0406 - EPA 5030 (soil)

Matrix Spike (B7J0406-MS1)	Source: Y710072-02			Prepared: 10/04/2017 Analyzed: 10/04/2017						
Benzene	0.085	0.002	mg/kg	0.100	ND	85.3	71.8-126			
Toluene	0.089	0.002	"	0.100	ND	89.1	65.1-130			
Ethylbenzene	0.098	0.002	"	0.100	ND	97.6	62.2-130			
m,p-Xylene	0.199	0.004	"	0.200	ND	99.6	46.5-137			
o-Xylene	0.095	0.002	"	0.100	ND	95.0	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	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 B7J0406 - EPA 5030 (soil)

Matrix Spike Dup (B7J0406-MSD1)	Source: Y710072-02			Prepared: 10/04/2017 Analyzed: 10/04/2017						
Benzene	0.081	0.002	mg/kg	0.100	ND	80.9	71.8-126	5.37	11.3	
Toluene	0.082	0.002	"	0.100	ND	82.4	65.1-130	7.82	15.4	
Ethylbenzene	0.092	0.002	"	0.100	ND	92.1	62.2-130	5.86	19.6	
m,p-Xylene	0.187	0.004	"	0.200	ND	93.6	46.5-137	6.20	19.2	
o-Xylene	0.088	0.002	"	0.100	ND	88.4	54.2-134	7.26	17.9	
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		90.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	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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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 B7J0407 - EPA 3550B

Blank (B7J0407-BLK1)

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

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	48		"	50.0		95.4	59-131			

LCS (B7J0407-BS1)

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

Diesel (C10-C28)	1040	50.0	mg/kg	1000		104	64-121			
Surrogate: o-Terphenyl	47		"	50.0		93.4	59-131			

Matrix Spike (B7J0407-MS1)

Source: Y710072-02

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

Diesel (C10-C28)	1120	50.0	mg/kg	1000	ND	112	53-125			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

Matrix Spike Dup (B7J0407-MSD1)

Source: Y710072-02

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

Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	53-125	22.5	20	QR-02
Surrogate: o-Terphenyl	43		"	50.0		85.9	59-131			

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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7J0408 - NO PREP										
Duplicate (B7J0408-DUP1)		Source: Y710072-01			Prepared: 10/04/2017 Analyzed: 10/04/2017					
pH	7.95		pH Units		8.02			0.877	25	
Batch B7J0409 - NO PREP										
Blank (B7J0409-BLK1)		Prepared: 10/04/2017 Analyzed: 10/04/2017								
Specific Conductance (EC)	0.00200		mmhos/cm							
Duplicate (B7J0409-DUP1)		Source: Y710072-01			Prepared: 10/04/2017 Analyzed: 10/04/2017					
Specific Conductance (EC)	0.264		mmhos/cm		0.222			17.2	25	

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Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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Jen Pellegrini For Noelle Doyle Mathis, President