



September 26, 2018

Eagle Environmental Consulting, Inc.

Dan Coloccia

4101 Inca Street

Denver

CO 80211

**Project Name - SRC - Nelson East Tank Battery**

**Project Number - [none]**

Attached are your analytical results for SRC - Nelson East Tank Battery received by Origins Laboratory, Inc. September 20, 2018. This project is associated with Origins project number Y809277-01.

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: SRC - Nelson East Tank Battery

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y809277-01	Water	September 20, 2018 15:18	09/20/2018 17:20
MW-02	Y809277-02	Water	September 20, 2018 15:40	09/20/2018 17:20
MW-03	Y809277-03	Water	September 20, 2018 15:33	09/20/2018 17:20
MW-04	Y809277-04	Water	September 20, 2018 15:10	09/20/2018 17:20
MW-05	Y809277-05	Water	September 20, 2018 16:00	09/20/2018 17:20
MW-06	Y809277-06	Water	September 20, 2018 15:52	09/20/2018 17:20
MW-07	Y809277-07	Water	September 20, 2018 15:45	09/20/2018 17:20
MW-08	Y809277-08	Water	September 20, 2018 15:25	09/20/2018 17:20

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Eagle Environmental Consulting, Inc.  
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 Denver CO 80211

Dan Coloccia  
 Project Number: [none]  
 Project: SRC - Nelson East Tank Battery

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1809277

Client: Eagle Env

Client Project ID: SRC-Nelson E. Tank Battery

Checklist Completed by: Dan Coloccia

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

Date/time completed: 9-20-18

Airbill #: NA

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

Cooler Number/Temperature:  13.4 °C  \_\_\_\_\_ °C  \_\_\_\_\_ °C (Describe)

Thermometer ID: 5003

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"/>		<u>sampled same Day</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 <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" 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.

SND  
 Reviewed by (Project Manager)

9/21/18  
 Date/Time Reviewed

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

Dan Coloccia  
 Project Number: [none]  
 Project: SRC - Nelson East Tank Battery

**MW-01**

**9/20/2018 3:18:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B812101	KDK	09/21/2018	09/21/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %	84-114			"	"	"	"	

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**MW-02**

**9/20/2018 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-02 (Water)**

**BTEX by EPA 8260C**

Benzene	2.54	1.00	ug/L	1	B812101	KDK	09/21/2018	09/21/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.04	1.00	"	"	"	KDK	"	"	
Xylenes, total	7.61	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.8 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	95.0 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"	"	

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**MW-03**

**9/20/2018 3:33:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B812101	KDK	09/21/2018	09/21/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.0 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.4 %	84-114			"	"	"	"	

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**MW-04**

**9/20/2018 3:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-04 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B812101	KDK	09/21/2018	09/21/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.6 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	106 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %	84-114			"	"	"	"	

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**MW-05**  
**9/20/2018 4:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-05 (Water)**

**BTEX by EPA 8260C**

Benzene	52.7	4.00	ug/L	4	B812101	KDK	09/21/2018	09/21/2018	
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Ethylbenzene	4.76	4.00	"	"	"	KDK	"	"	
Xylenes, total	131	4.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.6 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.2 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	84-114			"	"	"	"	

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**MW-06**  
**9/20/2018 3:52:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-06 (Water)**

**BTEX by EPA 8260C**

Benzene	187	4.00	ug/L	4	B8I2101	KDK	09/21/2018	09/21/2018	
Toluene	ND	1.00	"	1	"	KDK	"	09/21/2018	U
Ethylbenzene	38.4	1.00	"	"	"	KDK	"	"	
Xylenes, total	137	1.00	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.9 %	84-121			"	"		"	
Surrogate: Toluene-d8	93.0 %	85-115			"	"		"	
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114			"	"		"	

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 Project: SRC - Nelson East Tank Battery

**MW-07**

**9/20/2018 3:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-07 (Water)**

**BTEX by EPA 8260C**

Benzene	1.08	1.00	ug/L	1	B812101	KDK	09/21/2018	09/21/2018	
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	1.32	1.00	"	"	"	KDK	"	"	
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.7 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	104 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.4 %	84-114			"	"	"	"	

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 Project: SRC - Nelson East Tank Battery

**MW-08**  
**9/20/2018 3:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y809277-08 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B812101	KDK	09/21/2018	09/21/2018	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	84-121			"	"	"	"	
Surrogate: Toluene-d8	99.3 %	85-115			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	84-114			"	"	"	"	

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 Project: SRC - Nelson East Tank Battery

**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 B812101 - EPA 5030B (Water)**

**Blank (B812101-BLK1)**

Prepared: 09/21/2018 Analyzed: 09/21/2018

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	61		"	62.5	98.0		84-121			
Surrogate: Toluene-d8	62		"	62.5	99.0		85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.5		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 B812101 - EPA 5030B (Water)**

**LCS (B812101-BS1)**

Prepared: 09/21/2018 Analyzed: 09/21/2018

Benzene	46.5	1.00	ug/L	50.0		93.0	73.3-129			
Toluene	48.0	1.00	"	50.0		96.1	76.2-123			
Ethylbenzene	49.8	1.00	"	50.0		99.7	73.6-130			
m,p-Xylene	101	2.00	"	100		101	76.1-126			
o-Xylene	49.3	1.00	"	50.0		98.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	84-114			

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 Denver CO 80211

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 Project: SRC - Nelson East Tank Battery

**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 B8I2101 - EPA 5030B (Water)**

Matrix Spike (B8I2101-MS1)	Source: Y809275-03			Prepared: 09/21/2018 Analyzed: 09/21/2018						
Benzene	46.2	1.00	ug/L	50.0	ND	92.5	74-130			
Toluene	48.4	1.00	"	50.0	ND	96.7	73-131			
Ethylbenzene	48.3	1.00	"	50.0	0.090	96.5	76-132			
m,p-Xylene	97.7	2.00	"	100	ND	97.7	69-139			
o-Xylene	48.0	1.00	"	50.0	ND	96.0	74-131			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.9	84-121			
Surrogate: Toluene-d8	67		"	62.5		107	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	84-114			

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 Project: SRC - Nelson East Tank Battery

**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 B812101 - EPA 5030B (Water)**

Matrix Spike Dup (B812101-MSD1)	Source: Y809275-03			Prepared: 09/21/2018 Analyzed: 09/21/2018						
Benzene	47.4	1.00	ug/L	50.0	ND	94.8	74-130	2.52	20	
Toluene	47.6	1.00	"	50.0	ND	95.2	73-131	1.54	20	
Ethylbenzene	51.2	1.00	"	50.0	0.090	102	76-132	5.81	20	
m,p-Xylene	102	2.00	"	100	ND	102	69-139	4.30	20	
o-Xylene	50.1	1.00	"	50.0	ND	100	74-131	4.32	20	
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	84-114			

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4101 Inca Street  
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Project Number: [none]  
Project: SRC - Nelson East Tank Battery

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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.

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President