



March 13, 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. March 06, 2018. This project is associated with Origins project number Y803102-01.

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-1	Y803102-01	Water	March 6, 2018 10:00	03/06/2018 15:50
MW-2	Y803102-02	Water	March 6, 2018 10:25	03/06/2018 15:50
MW-3	Y803102-03	Water	March 6, 2018 9:35	03/06/2018 15:50
MW-4	Y803102-04	Water	March 6, 2018 9:50	03/06/2018 15:50
MW-5	Y803102-05	Water	March 6, 2018 10:45	03/06/2018 15:50
MW-6	Y803102-06	Water	March 6, 2018 10:35	03/06/2018 15:50
MW-7	Y803102-07	Water	March 6, 2018 10:10	03/06/2018 15:50
MW-8	Y803102-08	Water	March 6, 2018 10:20	03/06/2018 15:50

Origins Laboratory, Inc.



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

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

www.originslaboratory.com

page 1 of 1

1803102

Client: EAGLE
 Address: 4101 Inca Street
Denver CO, 80211
 Telephone Number: 303-433-0479
 Email Address: dcoloccia@eagleenviro.com

Project Manager: Daniel Coloccia
 Project Name: SRC-NELSON EAST TANK BATTERY
 Project Number: -SRC-
 Samples Collected By: JD

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
MW-1	3-6-2018	10:00	3	X				X						
MW-2		10:25												
MW-3		0935												
MW-4		0950												
MW-5		1045												
MW-6		10:35												
MW-7		1010												
MW-8		1026												
Relinquished By: <u>Sally Gumb</u>	Date: <u>3-6-18</u>	Time: <u>1530</u>	Received By: <u>[Signature]</u>	Date: <u>3-6-18</u>	Time: <u>1530</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard								

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

Temp Received: 6.1 Date Results Needed

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: SRC - Nelson East Tank Battery

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1803102

Client: Eagle

Client Project ID: SRC - Nelson East Tank Battery

Checklist Completed by: JG

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

Date/time completed: 3/16/18

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 6.4 °C _____ °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 ⁽¹⁾ ?		<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 ⁽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 (Project Manager) JG

Date/Time Reviewed 3/17/18

Origins Laboratory, Inc.



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

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

MW-1

3/6/2018 10:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	91.2 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %	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: SRC - Nelson East Tank Battery

MW-2
3/6/2018 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-02 (Water)

BTEX by EPA 8260C

Benzene	1.85	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.1 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	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: SRC - Nelson East Tank Battery

MW-3
3/6/2018 9:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.0 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	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: SRC - Nelson East Tank Battery

MW-4

3/6/2018 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	94.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	112 %	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: SRC - Nelson East Tank Battery

MW-5
3/6/2018 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-05 (Water)

BTEX by EPA 8260C

Benzene	105	4.00	ug/L	4	B8C0804	03/08/2018	03/08/2018	
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	58.5	4.00	"	"	"	"	"	
Xylenes, total	773	4.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	89.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %	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: SRC - Nelson East Tank Battery

MW-6

3/6/2018 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-06 (Water)

BTEX by EPA 8260C

Benzene	15.1	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	1.18	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	92.9 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	111 %	84-114			"	"	"	

Origins Laboratory, Inc.



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Denver CO 80211

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

MW-7

3/6/2018 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-07 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	86.3 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	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: SRC - Nelson East Tank Battery

MW-8
3/6/2018 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y803102-08 (Water)

BTEX by EPA 8260C

Benzene	ND	1.00	ug/L	1	B8C0804	03/08/2018	03/08/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	108 %	84-121			"	"	"	
Surrogate: Toluene-d8	91.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	113 %	84-114			"	"	"	

Origins Laboratory, Inc.



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 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 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 B8C0804 - EPA 5030B (Water)

Blank (B8C0804-BLK1)

Prepared: 03/08/2018 Analyzed: 03/08/2018

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	64		"	62.5	102		84-121			
Surrogate: Toluene-d8	62		"	62.5	98.4		85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105		84-114			

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 Denver CO 80211

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 Project Number: [none]
 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 B8C0804 - EPA 5030B (Water)

LCS (B8C0804-BS1)

Prepared: 03/08/2018 Analyzed: 03/08/2018

Benzene	49.3	1.00	ug/L	50.0		98.6	73.3-129			
Toluene	46.6	1.00	"	50.0		93.1	76.2-123			
Ethylbenzene	47.8	1.00	"	50.0		95.6	73.6-130			
m,p-Xylene	94.6	2.00	"	100		94.6	76.1-126			
o-Xylene	47.4	1.00	"	50.0		94.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.9	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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 Denver CO 80211

Dan Coloccia
 Project Number: [none]
 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 B8C0804 - EPA 5030B (Water)

Matrix Spike (B8C0804-MS1)	Source: Y803093-05			Prepared: 03/08/2018 Analyzed: 03/08/2018						
Benzene	57.4	1.00	ug/L	50.0	ND	115	74-130			
Toluene	55.0	1.00	"	50.0	0.200	110	73-131			
Ethylbenzene	57.7	1.00	"	50.0	0.220	115	76-132			
m,p-Xylene	113	2.00	"	100	0.980	112	69-139			
o-Xylene	54.7	1.00	"	50.0	0.270	109	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		96.9	84-121			
Surrogate: Toluene-d8	62		"	62.5		98.6	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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Dan Coloccia
 Project Number: [none]
 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 B8C0804 - EPA 5030B (Water)

Matrix Spike Dup (B8C0804-MSD1)	Source: Y803093-05			Prepared: 03/08/2018 Analyzed: 03/08/2018						
Benzene	52.6	1.00	ug/L	50.0	ND	105	74-130	8.74	20	
Toluene	49.2	1.00	"	50.0	0.200	98.0	73-131	11.1	20	
Ethylbenzene	50.0	1.00	"	50.0	0.220	99.6	76-132	14.2	20	
m,p-Xylene	99.2	2.00	"	100	0.980	98.2	69-139	13.1	20	
o-Xylene	50.2	1.00	"	50.0	0.270	99.9	74-131	8.56	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.5	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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4101 Inca Street
Denver CO 80211

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

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