



June 08, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Dupper 27-3

Project Number - [none]

Attached are your analytical results for Dupper 27-3 received by Origins Laboratory, Inc. June 07, 2017. This project is associated with Origins project number Y706090-01.

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: Dupper 27-3

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@2.0'	Y706090-01	Soil	June 7, 2017 8:45	06/07/2017 15:21
GW-01	Y706090-02	Water	June 7, 2017 12:40	06/07/2017 15:21
GW-02	Y706090-03	Water	June 7, 2017 12:45	06/07/2017 15:21

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

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LABORATORY, INC

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170000

page 1 of 2

Client: Eagle Environmental Consulting, Inc

Project Manager: Martin Ekert III

Address: 4101 Zaca St
Denver, CO 80211



Project Name: Dugger 27-3

Telephone Number: 303 433 0479

Project Number: _____

Email Address: MCE3@ecolc-enviro.com

Samples Collected By: J. Seaburger

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Sample Instructions					
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		Other				
SS-01@20'	6/7/17	8:45	2	X							X	EC, pH, SA	X	TPH-GAO		1
GW-01	↓	12:40	3	X					X				X			2
GW-02	↓	12:45	3	X					X				X			3
																4
																5
																6
																7
																8
																9
																10
Relinquished By: 	Date: 6/7/17	Time: 151	Time: 151	Received By: 	Date: 6-7-17	Time: 151	Time: 151	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>								
Relinquished By: _____	Date: _____	Time: _____	Time: _____	Received By: _____	Date: _____	Time: _____	Time: _____									

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

Temp Received: 48.2

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellgrini

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

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

www.originslaboratory.com page 2 of 2

170099

Client: Eagle Environmental Consulting Inc
Address: 4101 Inca St
Telephone Number: Denver CO 80211
Email Address: MCE3@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Dupper 27-3
Project Number:
Samples Collected By: J. Seaburger

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
SS-02 @ 2.0'	6/7/17	0850	2	X				X			X GTEX X TPH-DRO	1
SS-03 @ 2.0'		0855	1									2
SS-04 @ 2.0'		0900	1									3
SS-18 @ 2.0'		1030	1									4
SS-19 @ 2.0'		1100	1									5
SS-20 @ 2.0'		1145	1									6
SS-22 @ 2.0'		1150	1									7
												8
												9
												10

Relinquished By: [Signature] Date: 6/7/17 Time: 1524
Relinquished By: [Signature] Date: 6/7/17 Time: 1521

Temp Received: 4, 8, 12 Date Results 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: Dupper 27-3

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 174490

Client: Eagle Env.

Client Project ID: Dupper 27-3

Checklist Completed by: De La

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-7-17 1546

Airbill #: NP

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

(Describe)

Cooler Number/Temperature: 1 4.3 °C 1 °C 1 °C 1 °C

Thermometer ID: T003

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"/>	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	pH, sal
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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)

Date/Time Reviewed 6-7-17 1547

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: Dupper 27-3

SS-01@2.0'

6/7/2017 8:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706090-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7F0705	06/07/2017	06/07/2017	U
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Surrogate: o-Terphenyl	60.6 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	141	5.00	mg/kg	25	B7F0701	06/07/2017	06/07/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.244	0.050	"	"	"	"	"	
Xylenes, total	1.70	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	

pH in Soil by EPA 9045D

pH	8.57		pH Units	1	B7F0707	06/07/2017	06/07/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0952		mmhos/cm	"	B7F0708	06/07/2017	06/07/2017	
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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

GW-01
6/7/2017 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706090-02 (Water)

BTEX by EPA 8260C

Benzene	221	4.00	ug/L	4	B7F0702	06/07/2017	06/07/2017
Toluene	5.36	4.00	"	"	"	"	"
Ethylbenzene	188	4.00	"	"	"	"	"
Xylenes, total	4980	50.0	"	50	"	"	06/07/2017
Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	06/07/2017
Surrogate: Toluene-d8	104 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	84-114			"	"	"

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: Dupper 27-3

GW-02
6/7/2017 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y706090-03 (Water)

BTEX by EPA 8260C

Benzene	ND	4.00	ug/L	4	B7F0702	06/07/2017	06/07/2017	U
Toluene	ND	4.00	"	"	"	"	"	U
Ethylbenzene	ND	4.00	"	"	"	"	"	U
Xylenes, total	ND	4.00	"	"	"	"	06/07/2017	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	06/07/2017	
Surrogate: Toluene-d8	99.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114			"	"	"	

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Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

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 B7F0701 - EPA 5030 (soil)										
Blank (B7F0701-BLK1)					Prepared: 06/07/2017 Analyzed: 06/07/2017					
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	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	70-130			

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Project: Dupper 27-3

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 B7F0701 - EPA 5030 (soil)										
Blank (B7F0701-BLK2)					Prepared: 06/07/2017 Analyzed: 06/07/2017					
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	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

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Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

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 B7F0701 - EPA 5030 (soil)										
LCS (B7F0701-BS1)					Prepared: 06/07/2017 Analyzed: 06/07/2017					
Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.098	0.002	"	0.100		97.7	74.5-128			
Ethylbenzene	0.102	0.002	"	0.100		102	66.4-127			
m,p-Xylene	0.202	0.004	"	0.200		101	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	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 B7F0701 - EPA 5030 (soil)

LCS (B7F0701-BS2)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.097	0.002	"	0.100		96.7	74.5-128			
Ethylbenzene	0.094	0.002	"	0.100		94.0	66.4-127			
m,p-Xylene	0.186	0.004	"	0.200		92.9	76.6-124			
o-Xylene	0.096	0.002	"	0.100		95.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.9	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

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 B7F0701 - EPA 5030 (soil)

Matrix Spike (B7F0701-MS1)		Source: Y706023-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Benzene	0.083	0.002	mg/kg	0.100	ND	83.3	71.8-126			
Toluene	0.078	0.002	"	0.100	ND	78.5	65.1-130			
Ethylbenzene	0.075	0.002	"	0.100	ND	75.3	62.2-130			
m,p-Xylene	0.151	0.004	"	0.200	ND	75.4	46.5-137			
o-Xylene	0.076	0.002	"	0.100	ND	76.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.5	70-130			

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Martin C Eckert III

Project Number: [none]

Project: Dupper 27-3

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 B7F0701 - EPA 5030 (soil)

Matrix Spike (B7F0701-MS2)		Source: Y706086-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.3	71.8-126			
Toluene	0.092	0.002	"	0.100	ND	91.7	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.4	62.2-130			
m,p-Xylene	0.165	0.004	"	0.200	ND	82.3	46.5-137			
o-Xylene	0.091	0.002	"	0.100	ND	91.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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Project Number: [none]

Project: Dupper 27-3

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 B7F0701 - EPA 5030 (soil)

Matrix Spike Dup (B7F0701-MSD1)		Source: Y706023-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Benzene	0.086	0.002	mg/kg	0.100	ND	85.9	71.8-126	3.07	11.3	
Toluene	0.083	0.002	"	0.100	ND	82.8	65.1-130	5.36	15.4	
Ethylbenzene	0.079	0.002	"	0.100	ND	79.3	62.2-130	5.25	19.6	
m,p-Xylene	0.156	0.004	"	0.200	ND	78.2	46.5-137	3.70	19.2	
o-Xylene	0.080	0.002	"	0.100	ND	80.2	54.2-134	5.12	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	70-130			

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Martin C Eckert III
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Project: Dupper 27-3

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 B7F0701 - EPA 5030 (soil)										
Matrix Spike Dup (B7F0701-MSD2)		Source: Y706086-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Benzene	0.100	0.002	mg/kg	0.100	ND	100	71.8-126	5.29	11.3	
Toluene	0.096	0.002	"	0.100	ND	95.7	65.1-130	4.23	15.4	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.4	62.2-130	3.29	19.6	
m,p-Xylene	0.133	0.004	"	0.200	ND	66.6	46.5-137	21.1	19.2	QR-02
o-Xylene	0.097	0.002	"	0.100	ND	97.4	54.2-134	6.64	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Dupper 27-3

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 B7F0702 - EPA 5030B (Water)

Blank (B7F0702-BLK1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

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	61		"	62.5	98.4		84-121			
Surrogate: Toluene-d8	64		"	62.5	102		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.3		84-114			

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: Dupper 27-3

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 B7F0702 - EPA 5030B (Water)

LCS (B7F0702-BS1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Benzene	45.4	1.00	ug/L	50.0		90.9	73.3-129
Toluene	45.7	1.00	"	50.0		91.4	76.2-123
Ethylbenzene	41.4	1.00	"	50.0		82.7	73.6-130
m,p-Xylene	90.9	2.00	"	100		90.9	76.1-126
o-Xylene	43.0	1.00	"	50.0		86.1	76.6-124
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.8	84-121
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.5	84-114

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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 B7F0702 - EPA 5030B (Water)

Matrix Spike (B7F0702-MS1)		Source: Y706059-03			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Benzene	40.0	1.00	ug/L	50.0	0.540	79.0	74-130			
Toluene	39.0	1.00	"	50.0	ND	78.1	73-131			
Ethylbenzene	35.9	1.00	"	50.0	ND	71.8	76-132			QM-07
m,p-Xylene	78.8	2.00	"	100	ND	78.8	69-139			
o-Xylene	37.9	1.00	"	50.0	ND	75.7	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		98.0	84-121			
Surrogate: Toluene-d8	62		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	84-114			

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Dupper 27-3

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 B7F0702 - EPA 5030B (Water)

Matrix Spike Dup (B7F0702-MSD1)		Source: Y706059-03			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Benzene	48.9	1.00	ug/L	50.0	0.540	96.6	74-130	19.9	20	
Toluene	50.2	1.00	"	50.0	ND	100	73-131	25.0	20	QR-02
Ethylbenzene	45.8	1.00	"	50.0	ND	91.5	76-132	24.1	20	QR-03
m,p-Xylene	100	2.00	"	100	ND	100	69-139	23.7	20	QR-02
o-Xylene	47.1	1.00	"	50.0	ND	94.3	74-131	21.8	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.3	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	84-114			

Origins Laboratory, Inc.



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Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

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 B7F0705 - EPA 3550B

Blank (B7F0705-BLK1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

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

46	"	50.0	91.7	59-131
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Blank (B7F0705-BLK2)

Prepared: 06/07/2017 Analyzed: 06/07/2017

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

38	"	50.0	76.1	59-131
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LCS (B7F0705-BS1)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Diesel (C10-C28)	893	50.0	mg/kg	1000	89.3	64-121
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Surrogate: o-Terphenyl

45	"	50.0	90.6	59-131
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LCS (B7F0705-BS2)

Prepared: 06/07/2017 Analyzed: 06/07/2017

Diesel (C10-C28)	829	50.0	mg/kg	1000	82.9	64-121
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Surrogate: o-Terphenyl

39	"	50.0	77.5	59-131
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Matrix Spike (B7F0705-MS1)

Source: Y706086-01

Prepared: 06/07/2017 Analyzed: 06/07/2017

Diesel (C10-C28)	800	50.0	mg/kg	1000	ND	80.0	53-125
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Surrogate: o-Terphenyl

39	"	50.0	77.1	59-131
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Matrix Spike (B7F0705-MS2)

Source: Y706090-01

Prepared: 06/07/2017 Analyzed: 06/07/2017

Diesel (C10-C28)	883	50.0	mg/kg	1000	47.2	83.6	53-125
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Surrogate: o-Terphenyl

37	"	50.0	74.7	59-131
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Origins Laboratory, Inc.



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4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Dupper 27-3

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
Batch B7F0705 - EPA 3550B										
Matrix Spike Dup (B7F0705-MSD1)			Source: Y706086-01		Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	961	50.0	mg/kg	1000	ND	96.1	53-125	18.2	20	
Surrogate: o-Terphenyl	47		"	50.0		94.5	59-131			
Matrix Spike Dup (B7F0705-MSD2)			Source: Y706090-01		Prepared: 06/07/2017 Analyzed: 06/07/2017					
Diesel (C10-C28)	822	50.0	mg/kg	1000	47.2	77.5	53-125	7.14	20	
Surrogate: o-Terphenyl	37		"	50.0		74.8	59-131			

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Martin C Eckert III
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Project: Dupper 27-3

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 B7F0707 - NO PREP										
Duplicate (B7F0707-DUP1)		Source: Y706090-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
pH	8.31		pH Units		8.57			3.08	25	
Batch B7F0708 - NO PREP										
Blank (B7F0708-BLK1)		Prepared: 06/07/2017 Analyzed: 06/07/2017								
Specific Conductance (EC)	0.00190		mmhos/cm							
Duplicate (B7F0708-DUP1)		Source: Y706090-01			Prepared: 06/07/2017 Analyzed: 06/07/2017					
Specific Conductance (EC)	0.0833		mmhos/cm		0.0952			13.3	25	

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Dupper 27-3

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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