



June 22, 2020

Eagle Environmental Consulting, Inc.

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Top Operating - Stamp 31-2C

Project Number - [none]

Attached are your analytical results for Top Operating - Stamp 31-2C received by Origins Laboratory, Inc. June 18, 2020. This project is associated with Origins project number Y006326-01.

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.

8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Top Operating - Stamp 31-2C

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-13@12'	Y006326-01	Soil	June 18, 2020 13:27	06/18/2020 15:17

Origins Laboratory, Inc.



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Dan Coloccia
Project Number: [none]
Project: Top Operating - Stamp 31-2C

ORIGINS
LABORATORY, INC.

Client: EA66 ENV CONSULTING

Address: 800 W 417th AVE
WHEAT RIDGE, CO

Telephone Number: 303-433-0179

Email Address: WHEELER@EA66-ENV.CO

www.originslaboratory.com

page 1 of 1





Y006326

Project Manager: DAVID COLLELA

Project Name: TDP-STAMP 31-2L

Project Number: _____

Samples Collected By: KJ

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summng Canister #	Other				
FS-13 & 12	6-18-20	1327	2	X					X				X	X	1
													X	X	2
															3
															4
															5
															6
															7
															8
															9
															10
Relinquished By: 	Date: 6-18-20	Time: 1517		Received By: 				Date: 6-18-20				Time: 1517	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		
Relinquished By: 	Date: 6-18-20	Time: 1517		Received By: 				Date: 6-18-20				Time: 1517	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>		

Date Results Needed

Temp Received- 4.8

Origins Laboratory, Inc.

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Top Operating - Stamp 31-2C

Origins Laboratory

Origins Work Order: Y006326

Checklist Completed by: SGT KDK

Date/Time Completed: 06/18/20

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

Cooler Number/Temperature: 1, 4.8 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

Sample Receipt Checklist

Client: Eagle

Client Project ID: TOP-Stamp 31-2C

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

Airbill #: N/A

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

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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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) DM

6-19-20
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Top Operating - Stamp 31-2C

FS-13@12'

6/18/2020 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y006326-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0F1807	KDK	06/18/2020	06/18/2020	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130	"	"	"
Surrogate: Toluene-d8	92.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0F1808	TEM	06/18/2020	06/19/2020	U
Surrogate: o-Terphenyl	64.6 %	50-150			"		"	"	

Origins Laboratory, Inc.



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8000 W 44th Ave

Wheat Ridge CO 80033

Dan Coloccia

Project Number: [none]

Project: Top Operating - Stamp 31-2C

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F1807 - EPA 5030 (soil)

Blank (B0F1807-BLK1)

Prepared: 06/18/2020 Analyzed: 06/18/2020

Benzene	ND	0.00200	mg/kg							U
Toluene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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Project Number: [none]

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F1807 - EPA 5030 (soil)

LCS (B0F1807-BS1)

Prepared: 06/18/2020 Analyzed: 06/18/2020

Benzene	0.108	0.00200	mg/kg	0.100		108	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.208	0.00400	"	0.200		104	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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Project: Top Operating - Stamp 31-2C

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F1807 - EPA 5030 (soil)

Matrix Spike (B0F1807-MS1)		Source: Y006322-01			Prepared: 06/18/2020 Analyzed: 06/18/2020					
Benzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130			
Toluene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F1807 - EPA 5030 (soil)

Matrix Spike Dup (B0F1807-MSD1)		Source: Y006322-01			Prepared: 06/18/2020 Analyzed: 06/18/2020					
Benzene	0.113	0.00200	mg/kg	0.100	ND	113	70-130	3.48	20	
Toluene	0.119	0.00200	"	0.100	ND	119	70-130	2.02	20	
Ethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130	1.08	20	
m,p-Xylene	0.224	0.00400	"	0.200	ND	112	70-130	2.56	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	1.45	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		84.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B0F1808 - EPA 3550B

Blank (B0F1808-BLK1)

Prepared: 06/18/2020 Analyzed: 06/18/2020

Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	16		"	25.0		64.8	50-150			

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Project Number: [none]

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Extractable Petroleum Hydrocarbons by 8015D - 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 B0F1808 - EPA 3550B

LCS (B0F1808-BS1)

Prepared: 06/18/2020 Analyzed: 06/18/2020

Diesel (C10-C28)	872	50.0	mg/kg	1000		87.2	70-130			
Surrogate: o-Terphenyl	38		"	50.0		75.4	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B0F1808 - EPA 3550B

Matrix Spike (B0F1808-MS1)		Source: Y006323-01			Prepared: 06/18/2020 Analyzed: 06/18/2020					
Diesel (C10-C28)	889	50.0	mg/kg	1000	ND	88.9	70-130			
Surrogate: o-Terphenyl	35		"	50.0		69.8	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - 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 B0F1808 - EPA 3550B

Matrix Spike Dup (B0F1808-MSD1)		Source: Y006323-01			Prepared: 06/18/2020 Analyzed: 06/18/2020					
Diesel (C10-C28)	908	50.0	mg/kg	1000	ND	90.8	70-130	2.14	35	
Surrogate: o-Terphenyl	35		"	50.0		70.9	50-150			

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Project Number: [none]

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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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