



June 09, 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 08, 2020. This project is associated with Origins project number Y006162-01.

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-05@12'	Y006162-01	Soil	June 8, 2020 12:48	06/08/2020 17:46
FS-06@12'	Y006162-02	Soil	June 8, 2020 14:22	06/08/2020 17:46
FS-07@12'	Y006162-03	Soil	June 8, 2020 13:47	06/08/2020 17:46

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

www.originslaboratory.com

4006162 page (of)



Client: Eagle Env. Consulting
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: dcoloccia@eagle-enviro.com

Project Manager: Daniel Coloccia
 Project Name: TOP-Stamp 31-2C
 Project Number: -
 Samples Collected By: KPI/DEC

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	DTG		DTG	
SS-31e11.5'	6/8/20	1448	2	X				X				X	X	DEC	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>
FS-05e12'	6/8/20	1248	2	X				X				X	X		
FS-06e12'		1422													
FS-07e12'		1347													
Relinquished By: <i>KPI</i>	Date: 6/8/20	Time: 1746	Time: 1746	Received By: <i>[Signature]</i>	Date: 6-8-20	Time: 1746	Date: 6-8-20	Time: 1746	Received By: <i>[Signature]</i>	Date: 6-8-20	Time: 1746	Date: 6-8-20	Time: 1746	Date: 6-8-20	Time: 1746
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Date:	Time:	Received By:	Date:	Time:	Date:	Time:	Date:	Time:

Temp Received: 36 Date Results Needed

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

Origins Laboratory

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

Origins Work Order: Y0006162 Sample Receipt Checklist
 Client: Eagle
 Client Project ID: Stamp 31-2C
 Checklist Completed by: SCJ
 Date/time completed: 6/18/20
 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): F Soil/Solid Water Other:
 Cooler Number/Temperature: 1 / 3.6 °C / °C / °C (Describe)
 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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"/>	
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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: DM (Project Manager)

Date/Time Reviewed: 6-9-20

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

FS-05@12'

6/8/2020 12:48:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y006162-01 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0F0805	KDK	06/08/2020	06/08/2020	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	0.00352	0.00200	"	"	"	KDK	"	"	
Xylenes, total	0.00474	0.00200	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	0.366	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
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Surrogate: o-Terphenyl	61.5 %	50-150			"	"	"	"	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

FS-06@12'

6/8/2020 2:22:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y006162-02 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0F0805	KDK	06/08/2020	06/09/2020	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	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
Surrogate: o-Terphenyl	58.0 %	50-150			"	"	"	"	

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

FS-07@12'

6/8/2020 1:47:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y006162-03 (Soil)

BTEX/TVPH by EPA 8260D

Benzene	ND	0.00200	mg/kg	1	B0F0805	KDK	06/08/2020	06/09/2020	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	0.00612	0.00200	"	"	"	KDK	"	"	
Xylenes, total	0.0269	0.00200	"	"	"	KDK	"	"	
Gasoline Range Hydrocarbons	1.27	0.200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B0F0902	KDK	06/09/2020	06/09/2020	U
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Surrogate: o-Terphenyl	62.6 %	50-150			"	"	"	"	
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 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 B0F0805 - EPA 5030 (soil)

Blank (B0F0805-BLK1)

Prepared: 06/08/2020 Analyzed: 06/08/2020

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	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	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 B0F0805 - EPA 5030 (soil)

LCS (B0F0805-BS1)

Prepared: 06/08/2020 Analyzed: 06/08/2020

Benzene	0.0468	0.00200	mg/kg	0.0500		93.6	70-130			
Toluene	0.0485	0.00200	"	0.0500		97.1	70-130			
Ethylbenzene	0.0501	0.00200	"	0.0500		100	70-130			
m,p-Xylene	0.103	0.00400	"	0.100		103	70-130			
o-Xylene	0.0502	0.00200	"	0.0500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 B0F0805 - EPA 5030 (soil)

Matrix Spike (B0F0805-MS1)	Source: Y006148-01			Prepared: 06/08/2020 Analyzed: 06/08/2020						
Benzene	0.0459	0.00200	mg/kg	0.0500	ND	91.8	70-130			
Toluene	0.0474	0.00200	"	0.0500	0.000840	93.1	70-130			
Ethylbenzene	0.0496	0.00200	"	0.0500	ND	99.1	70-130			
m,p-Xylene	0.101	0.00400	"	0.100	ND	101	70-130			
o-Xylene	0.0493	0.00200	"	0.0500	ND	98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 B0F0805 - EPA 5030 (soil)

Matrix Spike Dup (B0F0805-MSD1)	Source: Y006148-01			Prepared: 06/08/2020 Analyzed: 06/08/2020						
Benzene	0.0440	0.00200	mg/kg	0.0500	ND	88.0	70-130	4.23	20	
Toluene	0.0455	0.00200	"	0.0500	0.000840	89.3	70-130	4.09	20	
Ethylbenzene	0.0463	0.00200	"	0.0500	ND	92.7	70-130	6.72	20	
m,p-Xylene	0.0941	0.00400	"	0.100	ND	94.1	70-130	7.25	20	
o-Xylene	0.0465	0.00200	"	0.0500	ND	93.1	70-130	5.80	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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
Batch B0F0902 - EPA 3580										
Blank (B0F0902-BLK1)										
					Prepared: 06/09/2020 Analyzed: 06/09/2020					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Surrogate: o-Terphenyl	15		"	25.0		59.4	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 B0F0902 - EPA 3580

LCS (B0F0902-BS1)

Prepared: 06/09/2020 Analyzed: 06/09/2020

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Surrogate: o-Terphenyl	43		"	50.0		86.1	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 B0F0902 - EPA 3580

Matrix Spike (B0F0902-MS1)	Source: Y006162-01			Prepared: 06/09/2020 Analyzed: 06/09/2020						
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.7	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 B0F0902 - EPA 3580

Matrix Spike Dup (B0F0902-MSD1)	Source: Y006162-01			Prepared: 06/09/2020 Analyzed: 06/09/2020						
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	1.57	35	
Surrogate: o-Terphenyl	42		"	50.0		83.1	50-150			

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Wheat Ridge CO 80033

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

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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