



April 09, 2021

**Entrada Consulting Group**

**Ben Baugh**

**330 Grand Ave. Unit C**

**Grand Junction CO 81501**

**Project Name - Davis 1-30**

**Project Number - 021-018**

Attached are your analytical results for Davis 1-30 received by Origins Laboratory, Inc. April 07, 2021. This project is associated with Origins project number Y104117-01.

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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: 021-018

Project: Davis 1-30

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS3-1	Y104117-01	Soil	April 7, 2021 11:30	04/07/2021 16:30

Origins Laboratory, Inc.



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Project Number: 021-018

Project: Davis 1-30

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y104117

Client: Entrada

Client Project ID: Davis 1-30

Checklist Completed by: JG

Shipped Via: HS

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

Date/time completed: 4/7/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 22.3 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °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 <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>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? If yes, contact client and note in narrative.				
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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)				
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.

Reviewed by (Project Manager) Jm

4-8-21  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jm*

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330 Grand Ave. Unit C

Grand Junction CO 81501

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Project Number: 021-018

Project: Davis 1-30

## SS3-1

4/7/2021 11:30:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y104117-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1D0819	KDK	04/08/2021	04/09/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: o-Terphenyl 59.9 % 50-150 " " "

### GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B1D0712	KDK	04/07/2021	04/09/2021	U
Benzene	ND	0.002	"	"	"	KDK	"	"	U
Toluene	ND	0.002	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.002	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.002	"	"	"	KDK	"	"	U
Naphthalene	ND	0.008	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "

Surrogate: Toluene-d8 96.9 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 91.7 % 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
<b>Batch B1D0712 - EPA 5030 (soil)</b>										
<b>Blank (B1D0712-BLK1)</b>					Prepared: 04/07/2021 Analyzed: 04/07/2021					
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
Naphthalene	ND	0.008	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		113	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	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 B1D0712 - EPA 5030 (soil)

LCS (B1D0712-BS1)

Prepared: 04/07/2021 Analyzed: 04/07/2021

Benzene	0.041	0.002	mg/kg	0.0500		82.2	70-130			
Toluene	0.051	0.002	"	0.0500		102	70-130			
Ethylbenzene	0.054	0.002	"	0.0500		109	70-130			
m,p-Xylene	0.110	0.004	"	0.100		110	70-130			
o-Xylene	0.056	0.002	"	0.0500		112	70-130			
Naphthalene	0.055	0.008	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.6	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 B1D0712 - EPA 5030 (soil)

Matrix Spike (B1D0712-MS1)		Source: Y104120-01			Prepared: 04/07/2021 Analyzed: 04/08/2021					
Benzene	0.047	0.002	mg/kg	0.0500		94.3	70-130			
Toluene	0.058	0.002	"	0.0500		116	70-130			
Ethylbenzene	0.060	0.002	"	0.0500		120	70-130			
m,p-Xylene	0.119	0.004	"	0.100		119	70-130			
o-Xylene	0.061	0.002	"	0.0500		122	70-130			
Naphthalene	0.058	0.008	"	0.0500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		110	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	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 B1D0712 - EPA 5030 (soil)

Matrix Spike Dup (B1D0712-MSD1)		Source: Y104120-01			Prepared: 04/07/2021 Analyzed: 04/08/2021					
Benzene	0.045	0.002	mg/kg	0.0500	90.3	70-130	4.33	20		
Toluene	0.057	0.002	"	0.0500	113	70-130	2.09	20		
Ethylbenzene	0.060	0.002	"	0.0500	120	70-130	0.400	20		
m,p-Xylene	0.118	0.004	"	0.100	118	70-130	1.23	20		
o-Xylene	0.062	0.002	"	0.0500	124	70-130	1.30	20		
Naphthalene	0.057	0.008	"	0.0500	115	70-130	1.76	20		
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	89.6	70-130				
Surrogate: Toluene-d8	0.14		"	0.125	111	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
<b>Batch B1D0819 - EPA 3550B</b>										
<b>Blank (B1D0819-BLK1)</b>					Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		73.7	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 B1D0819 - EPA 3550B

### LCS (B1D0819-BS1)

Prepared: 04/08/2021 Analyzed: 04/08/2021

Diesel (C10-C28)	891	50.0	mg/kg	1000		89.1	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000		92.3	70-130			
Surrogate: o-Terphenyl	40		"	50.0		79.9	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 B1D0819 - EPA 3550B**

Matrix Spike (B1D0819-MS1)		Source: Y104134-05			Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	1730	50.0	mg/kg	1000	1200	53.1	70-130			QM-07
Residual Range Organics (C28-C40)	1130	200	"	1000	241	88.7	70-130			
Surrogate: o-Terphenyl	37		"	50.0		74.5	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 B1D0819 - EPA 3550B

Matrix Spike Dup (B1D0819-MSD1)		Source: Y104134-05			Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	1850	50.0	mg/kg	1000	1200	65.0	70-130	6.64	35	QM-07
Residual Range Organics (C28-C40)	1160	200	"	1000	241	91.6	70-130	2.51	35	
Surrogate: o-Terphenyl	39		"	50.0		77.2	50-150			

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### Notes and Definitions

U Sample is Non-Detect.

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.

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