



March 24, 2023

**Verdad Resources**

**Dean Wagoner**

**1125 17th St Suite 550**

**Denver**

**CO 80202**

**Project Name - Edna 1**

**Project Number - [none]**

Attached are your analytical results for Edna 1 received by Origins Laboratory, Inc. March 23, 2023. This project is associated with Origins project number Y303625-01.

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

Verdad Resources

1125 17th St Suite 550

Denver CO 80202

Dean Wagoner

Project Number: [none]

Project: Edna 1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Ground Water 1	Y303625-01	Water	March 23, 2023 13:40	03/23/2023 16:30

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



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Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: 4303025

Client: Verdad

Client Project ID: Edna 1

Checklist Completed by: EHS

Shipped Via: 4D

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

Date/time completed: 3/23/23

Airbill #: NA

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

Cooler Number/Temperature: 1 120.1°C 1°C 1°C (Describe) 1°C

Thermometer ID: T004

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"/>		SD
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.		<input checked="" type="checkbox"/>		
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)	<input checked="" type="checkbox"/>			NC
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.

Sam L. Smith  
Reviewed by (Project Manager)

3/23/23  
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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Jen Pellegrini, Project Manager

Verdad Resources  
1125 17th St Suite 550  
Denver CO 80202

Dean Wagoner  
Project Number: [none]  
Project: Edna 1

## Ground Water 1

3/23/2023 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y303625-01 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3C2347	JSM	03/23/2023	03/24/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	70-130	"	"	"

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Project Number: [none]

Project: Edna 1

## 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 B3C2347 - EPA 5030B (Water)										
Blank (B3C2347-BLK1)					Prepared: 03/23/2023 Analyzed: 03/24/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	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 B3C2347 - EPA 5030B (Water)

#### LCS (B3C2347-BS1)

Prepared: 03/23/2023 Analyzed: 03/24/2023

1,2,4-Trimethylbenzene	57.0	2.00	ug/L	50.0		114	70-130			
1,3,5-Trimethylbenzene	58.6	2.00	"	50.0		117	70-130			
Benzene	57.0	1.00	"	50.0		114	70-130			
Ethylbenzene	55.9	1.00	"	50.0		112	70-130			
m,p-Xylene	111	2.00	"	100		111	70-130			
Naphthalene	43.5	2.00	"	50.0		87.0	70-130			
o-Xylene	53.6	1.00	"	50.0		107	70-130			
Toluene	53.6	1.00	"	50.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		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
<b>Batch B3C2347 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B3C2347-MS1)</b>		<b>Source: Y303551-01</b>			Prepared: 03/23/2023 Analyzed: 03/24/2023					
1,2,4-Trimethylbenzene	44.1	2.00	ug/L	50.0	0.280	87.6	70-130			
1,3,5-Trimethylbenzene	43.9	2.00	"	50.0	0.280	87.2	70-130			
Benzene	42.0	1.00	"	50.0	ND	83.9	70-130			
Ethylbenzene	49.0	1.00	"	50.0	ND	98.0	70-130			
m,p-Xylene	87.8	2.00	"	100	0.250	87.6	70-130			
Naphthalene	27.7	2.00	"	50.0	ND	55.4	70-130			QM-07
o-Xylene	43.2	1.00	"	50.0	ND	86.3	70-130			
Toluene	41.4	1.00	"	50.0	ND	82.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		113	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C2347 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B3C2347-MSD1)</b>			<b>Source: Y303551-01</b>		Prepared: 03/23/2023 Analyzed: 03/24/2023					
1,2,4-Trimethylbenzene	33.3	2.00	ug/L	50.0	0.280	66.0	70-130	28.0	20	QM-07
1,3,5-Trimethylbenzene	33.6	2.00	"	50.0	0.280	66.6	70-130	26.6	20	QM-07
Benzene	50.2	1.00	"	50.0	ND	100	70-130	17.9	20	
Ethylbenzene	47.2	1.00	"	50.0	ND	94.4	70-130	3.76	20	
m,p-Xylene	81.9	2.00	"	100	0.250	81.6	70-130	7.04	20	
Naphthalene	14.2	2.00	"	50.0	ND	28.4	70-130	64.5	20	QM-07
o-Xylene	38.8	1.00	"	50.0	ND	77.5	70-130	10.8	20	
Toluene	43.2	1.00	"	50.0	ND	86.5	70-130	4.27	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.2	70-130			
Surrogate: Toluene-d8	58		"	62.5		93.0	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		113	70-130			

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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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