

August 25, 2021

Verdad Resources

Dean Wagoner

1125 17th St Suite 550

Denver CO 80202

Project Name - Johnson 8N

Project Number - [none]

Attached are your analytical results for Johnson 8N received by Origins Laboratory, Inc. August 20, 2021. This project is associated with Origins project number Y108437-01.

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



Verdad Resources
1125 17th St Suite 550
Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Johnson 8N

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Johnson #1	Y108437-01	Soil	August 20, 2021 10:40	08/20/2021 14:45
Johnson #2	Y108437-02	Soil	August 20, 2021 10:50	08/20/2021 14:45
Johnson #3	Y108437-03	Soil	August 20, 2021 11:00	08/20/2021 14:45
Johnson #4	Y108437-04	Soil	August 20, 2021 11:10	08/20/2021 14:45
Johnson #5	Y108437-05	Soil	August 20, 2021 11:20	08/20/2021 14:45
Johnson #6	Y108437-06	Soil	August 20, 2021 11:30	08/20/2021 14:45
Johnson #7	Y108437-07	Soil	August 20, 2021 11:40	08/20/2021 14:45

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N



www.originslaboratory.com

1104157

page of

Client: Verdad Resources
 Address: 1125 17th Street Suite 550
Denver CO 80202
 Telephone Number: 720-845-6900
 Email Address: Mcguire@verdadresources.com

Project Manager: Dean Wagoner
 Project Name: Johnson 8N
 Project Number: _____
 Samples Collected By: Dean Wagoner
970-571-5479 dwagoner@verdadresources.com

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	Other	
Johnson #1	8-20-21	10:40	4					X			X	X	1
Johnson #2	8-20-21	10:50	4					X			X	X	2
Johnson #3	8-20-21	11:00	4					X			X	X	3
Johnson #4	8-20-21	11:10	4					X			X	X	4
Johnson #5	8-20-21	11:20	4					X			X	X	5
Johnson #6	8-20-21	11:30	4					X			X	X	6
Johnson #7	8-20-21	11:40	4					X			X	X	7
													8
													9
													10
Relinquished By: <u>Dean Wagoner</u>	Date: <u>8-20-2021</u>	Time: _____	Time: _____	Received By: <u>[Signature]</u>	Date: <u>8/20/21</u>	Time: <u>14:45</u>	Date: _____	Time: _____	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard				
Relinquished By: _____	Date: _____	Time: _____	Time: _____	Received By: _____	Date: _____	Time: _____	Date: _____	Time: _____					

Temp received - 17.8 Date Results Needed

Origins Laboratory, Inc.

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Verdad Resources
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4108437

Client: Verdad Resources

Client Project ID: Johnson 8N

Checklist Completed by: KH

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

Date/time completed: 8/20/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 17.8 °C / _____ °C / _____ °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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>hand delivered</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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽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"/>		
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: JM
 (Project Manager)

8-23-12
 Date/Time Reviewed

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #1
8/20/2021 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.438	0.199	mg/L	1	B1H2301	JMA	08/23/2021	08/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl	102 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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Verdad Resources
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 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #1
8/20/2021 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-01 (Soil)

Metals by Saturated Paste

Calcium	3.35	0.0499	meq/L	1	[CALC]	CJM	08/24/2021	08/24/2021	
Magnesium	1.27	0.0823	"	"	"	CJM	"	"	
Sodium	3.88	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	8.01		pH Units	1	B1H2402	DTP	08/24/2021	08/24/2021	
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SAR by 20B Saturated Paste

SAR	2.55		SAR	1	B1H2408	CJM	08/24/2021	08/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.857	0.00500	mmhos/cm	1	B1H2405	DTP	08/24/2021	08/24/2021	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #2
8/20/2021 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.786	0.202	mg/L	1	B1H2301	JMA	08/23/2021	08/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	90.2 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #2
8/20/2021 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-02 (Soil)

Metals by Saturated Paste

Calcium	2.37	0.0499	meq/L	1	[CALC]	CJM	08/24/2021	08/24/2021	
Magnesium	1.21	0.0823	"	"	"	CJM	"	"	
Sodium	3.63	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	8.17		pH Units	1	B1H2402	DTP	08/24/2021	08/24/2021	
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SAR by 20B Saturated Paste

SAR	2.71		SAR	1	B1H2408	CJM	08/24/2021	08/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.729	0.00500	mmhos/cm	1	B1H2405	DTP	08/24/2021	08/24/2021	
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Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #3
8/20/2021 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.12	0.199	mg/L	1	B1H2301	JMA	08/23/2021	08/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl	89.8 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"	"	

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Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #3
8/20/2021 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-03 (Soil)

Metals by Saturated Paste

Calcium	15.7	0.0499	meq/L	1	[CALC]	CJM	08/24/2021	08/24/2021	
Magnesium	8.86	0.0823	"	"	"	CJM	"	"	
Sodium	14.0	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	7.81		pH Units	1	B1H2402	DTP	08/24/2021	08/24/2021	
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SAR by 20B Saturated Paste

SAR	3.99		SAR	1	B1H2408	CJM	08/24/2021	08/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.37	0.00500	mmhos/cm	1	B1H2405	DTP	08/24/2021	08/24/2021	
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 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #4
8/20/2021 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.03	0.201	mg/L	1	B1H2301	JMA	08/23/2021	08/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl	97.3 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	"	

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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #4
8/20/2021 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-04 (Soil)

Metals by Saturated Paste

Calcium	15.2	0.0499	meq/L	1	[CALC]	CJM	08/24/2021	08/24/2021	
Magnesium	8.27	0.0823	"	"	"	CJM	"	"	
Sodium	15.9	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	7.81		pH Units	1	B1H2402	DTP	08/24/2021	08/24/2021	
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SAR by 20B Saturated Paste

SAR	4.64		SAR	1	B1H2408	CJM	08/24/2021	08/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.47	0.00500	mmhos/cm	1	B1H2405	DTP	08/24/2021	08/24/2021	
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Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #5
8/20/2021 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.362	0.201	mg/L	1	B1H2301	JMA	08/23/2021	08/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	80.2 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #5
8/20/2021 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-05 (Soil)

Metals by Saturated Paste

Calcium	1.64	0.0499	meq/L	1	[CALC]	CJM	08/24/2021	08/24/2021	
Magnesium	0.685	0.0823	"	"	"	CJM	"	"	
Sodium	2.82	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	8.17		pH Units	1	B1H2402	DTP	08/24/2021	08/24/2021	
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SAR by 20B Saturated Paste

SAR	2.61		SAR	1	B1H2408	CJM	08/24/2021	08/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.487	0.00500	mmhos/cm	1	B1H2405	DTP	08/24/2021	08/24/2021	
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Verdad Resources
 1125 17th St Suite 550
 Denver CO 80202

Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #6
8/20/2021 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.621	0.200	mg/L	1	B1H2301	JMA	08/23/2021	08/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: o-Terphenyl	77.9 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	"	

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Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #6

8/20/2021 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-06 (Soil)

Metals by Saturated Paste

Calcium	2.59	0.0499	meq/L	1	[CALC]	CJM	08/24/2021	08/24/2021	
Magnesium	1.23	0.0823	"	"	"	CJM	"	"	
Sodium	4.94	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	8.11		pH Units	1	B1H2402	DTP	08/24/2021	08/24/2021	
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SAR by 20B Saturated Paste

SAR	3.57		SAR	1	B1H2408	CJM	08/24/2021	08/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.878	0.00500	mmhos/cm	1	B1H2405	DTP	08/24/2021	08/24/2021	
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Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #7

8/20/2021 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.804	0.201	mg/L	1	B1H2301	JMA	08/23/2021	08/23/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H2016	DJL	08/20/2021	08/20/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	DJL	"	"	U

Surrogate: <i>o</i> -Terphenyl	83.7 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2015	KDK	08/20/2021	08/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	93.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130			"	"	"	"	

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Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

Johnson #7
8/20/2021 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108437-07 (Soil)

Metals by Saturated Paste

Calcium	4.01	0.0499	meq/L	1	[CALC]	CJM	08/24/2021	08/24/2021	
Magnesium	1.92	0.0823	"	"	"	CJM	"	"	
Sodium	0.646	0.0435	"	"	"	CJM	"	"	

pH in Soil by 9045D

pH	7.98		pH Units	1	B1H2402	DTP	08/24/2021	08/24/2021	
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SAR by 20B Saturated Paste

SAR	0.375		SAR	1	B1H2408	CJM	08/24/2021	08/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.717	0.00500	mmhos/cm	1	B1H2405	DTP	08/24/2021	08/24/2021	
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 Project Number: [none]
 Project: Johnson 8N

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 B1H2015 - EPA 5030 (soil)

Blank (B1H2015-BLK1)

Prepared: 08/20/2021 Analyzed: 08/20/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.2		70-130			

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 Project Number: [none]
 Project: Johnson 8N

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 B1H2015 - EPA 5030 (soil)

LCS (B1H2015-BS1)

Prepared: 08/20/2021 Analyzed: 08/20/2021

1,2,4-Trimethylbenzene	0.0530	0.00200	mg/kg	0.0500		106	70-130			
Naphthalene	0.0499	0.0100	"	0.0500		99.8	70-130			
1,3,5-Trimethylbenzene	0.0508	0.00200	"	0.0500		102	70-130			
Benzene	0.0530	0.00200	"	0.0500		106	70-130			
Ethylbenzene	0.0504	0.00200	"	0.0500		101	70-130			
m,p-Xylene	0.104	0.00400	"	0.100		104	70-130			
o-Xylene	0.0505	0.00200	"	0.0500		101	70-130			
Toluene	0.0507	0.00200	"	0.0500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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 Project Number: [none]
 Project: Johnson 8N

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 B1H2015 - EPA 5030 (soil)

Matrix Spike (B1H2015-MS1)	Source: Y108431-01			Prepared: 08/20/2021 Analyzed: 08/20/2021						
1,2,4-Trimethylbenzene	0.0485	0.00200	mg/kg	0.0500	ND	97.1	70-130			
Naphthalene	0.0449	0.0100	"	0.0500	ND	89.8	70-130			
1,3,5-Trimethylbenzene	0.0489	0.00200	"	0.0500	ND	97.7	70-130			
Benzene	0.0542	0.00200	"	0.0500	ND	108	70-130			
Ethylbenzene	0.0487	0.00200	"	0.0500	ND	97.4	70-130			
m,p-Xylene	0.101	0.00400	"	0.100	ND	101	70-130			
o-Xylene	0.0498	0.00200	"	0.0500	ND	99.5	70-130			
Toluene	0.0499	0.00200	"	0.0500	ND	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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 Project Number: [none]
 Project: Johnson 8N

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 B1H2015 - EPA 5030 (soil)

Matrix Spike Dup (B1H2015-MSD1)	Source: Y108431-01	Prepared: 08/20/2021	Analyzed: 08/20/2021						
1,2,4-Trimethylbenzene	0.0583	0.00200	mg/kg	0.0500	ND	117	70-130	18.2	20
Naphthalene	0.0542	0.0100	"	0.0500	ND	108	70-130	18.7	20
1,3,5-Trimethylbenzene	0.0594	0.00200	"	0.0500	ND	119	70-130	19.4	20
Benzene	0.0646	0.00200	"	0.0500	ND	129	70-130	17.5	20
Ethylbenzene	0.0590	0.00200	"	0.0500	ND	118	70-130	19.2	20
m,p-Xylene	0.121	0.00400	"	0.100	ND	121	70-130	18.4	20
o-Xylene	0.0594	0.00200	"	0.0500	ND	119	70-130	17.6	20
Toluene	0.0598	0.00200	"	0.0500	ND	120	70-130	18.0	20
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130		
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130		
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130		

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 Project Number: [none]
 Project: Johnson 8N

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 B1H2016 - EPA 3550B										
Blank (B1H2016-BLK1)					Prepared: 08/20/2021 Analyzed: 08/20/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	25.0		86.8	50-150			

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 Project Number: [none]
 Project: Johnson 8N

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 B1H2016 - EPA 3550B

LCS (B1H2016-BS1)

Prepared: 08/20/2021 Analyzed: 08/20/2021

Diesel (C10-C28)	884	50.0	mg/kg	1000		88.4	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000		109	70-130			
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

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 Project Number: [none]
 Project: Johnson 8N

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 B1H2016 - EPA 3550B

Matrix Spike (B1H2016-MS1)	Source: Y108431-01			Prepared: 08/20/2021 Analyzed: 08/20/2021						
Diesel (C10-C28)	856	50.0	mg/kg	1000	ND	85.6	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	47		"	50.0		93.6	50-150			

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Dean Wagoner
 Project Number: [none]
 Project: Johnson 8N

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
Batch B1H2016 - EPA 3550B										
Matrix Spike Dup (B1H2016-MSD1)		Source: Y108431-01			Prepared: 08/20/2021 Analyzed: 08/20/2021					
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130	1.31	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	1.77	35	
Surrogate: o-Terphenyl	48		"	50.0		96.4	50-150			

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Denver CO 80202

Dean Wagoner
Project Number: [none]
Project: Johnson 8N

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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