

October 16, 2023

Schneider Energy Services

Steve Robison

PO Box 297 14400 Hwy. 34

Fort Morgan CO 80701

Project Name - Schenk #1

Project Number - [none]

Attached are your analytical results for Schenk #1 received by Origins Laboratory, Inc. September 19, 2023. This project is associated with Origins project number Y309397-01.

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



Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-E@3'	Y309397-01	Soil	September 18, 2023 11:17	09/19/2023 14:10
WH-SS-N@3'	Y309397-02	Soil	September 18, 2023 11:27	09/19/2023 14:10
WH-SS-S@3'	Y309397-03	Soil	September 18, 2023 11:40	09/19/2023 14:10
WH-SS-W@3'	Y309397-04	Soil	September 18, 2023 12:07	09/19/2023 14:10
WH-SS-N@8'	Y309397-05	Soil	September 18, 2023 12:15	09/19/2023 14:10
WH-SS-S@8'	Y309397-06	Soil	September 18, 2023 12:35	09/19/2023 14:10
WH-SS-E@8'	Y309397-07	Soil	September 18, 2023 12:48	09/19/2023 14:10
WH-SS-W@8'	Y309397-08	Soil	September 18, 2023 1:00	09/19/2023 14:10

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

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page of

4309397

**ORIGINS**  
LABORATORY, INC

Client: Rival Services/Schneider Energy  
 Address: 14400 15 Hwy 34  
FT Morgan CO 80701  
 Telephone Number: 970-778-1252  
 Email Address: Steve.Robison@originslab.com

Project Manager: Steve Robison  
 Project Name: Schenk #1  
 Project Number: ---  
 Samples Collected By: Steve Robison

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 <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other			
WH-55-E031	9-18-23	1117	2											Full panel 915-1 TOL 1
WH-55-N031	9-18-23	1127	2											Full panel 915-1 TOL 2
WH-55-S031	9-18-23	1140	2											Full panel 915-1 TOL 3
WH-55-W031	9-18-23	1257	2											Full panel 915-1 TOL 4
WH-55-N081	9-18-23	1219	2											Full panel 915-1 TOL 5
WH-55-S081	9-18-23	1235	2											Full panel 915-1 TOL 6
WH-55-E081	9-18-23	1248	2											Full panel 915-1 TOL 7
WH-55-W081	9-18-23	0100												Full panel 915-1 TOL 8
														9
														10
Relinquished By: <u>Steve Robison</u>	Date: <u>9-19-23</u>	Time: <u>0810</u>	Received By: <u>WST</u>	Date: <u>9/19/23</u>	Time: <u>1410</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>								

Temp Received: 5 Date Results Needed

Origins Laboratory, Inc.



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 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4309397

Client: Schneider

Client Project ID: Schenk #1

Checklist Completed by: EHS

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

Date/time completed: 9/19/23

Airbill #: N/A

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

Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 115 °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe) \_\_\_\_\_ °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"/>			
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? <b>If yes, contact client and note in narrative.</b>			<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"/>	
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) [Signature]

Date/Time Reviewed 9/20/23

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-E@3'**  
**9/18/2023 11:17:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.435		0.101	mg/L	1	B3I2114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2001	09/20/2023	09/22/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.6 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2031	09/20/2023	09/21/2023	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	95.6 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Steve Robison  
 Project Number: [none]  
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**WH-SS-E@3'**

**9/18/2023 11:17:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.5 %		70-130			B3I203 1	09/20/2023	09/21/2023	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.71	0.499	meq/L	10	[CALC]		09/22/2023	09/28/2023	
Magnesium	1.97	0.823	"	"	"		"	"	
Sodium	11.6	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I2041		09/20/2023	09/28/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (g,h,i) perylene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U

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Steve Robison  
 Project Number: [none]  
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**WH-SS-E@3'**

**9/18/2023 11:17:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3I2041	09/20/2023	09/28/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	86.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.5 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.25			pH Units	1	B3I2218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	6.86		0.0100	SAR	1	B3I2212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.31		0.00500	mmhos/cm	1	B3I2218	09/22/2023	09/23/2023	
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 Project Number: [none]  
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**WH-SS-E@3'**

**9/18/2023 11:17:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.46		0.0987	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	306		9.87	"	"	"	"	"	
Cadmium	0.260		0.0987	"	"	"	"	"	
Copper	11.5		9.87	"	"	"	"	"	
Lead	11.3		9.87	"	"	"	"	"	
Nickel	13.2		9.87	"	"	"	"	"	
Selenium	0.232		0.0987	"	"	"	"	"	
Silver	ND		0.0987	"	"	"	"	"	U
Zinc	ND		98.7	"	"	"	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710717	09/18/2023	10/13/2023	
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Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@3'**  
**9/18/2023 11:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.851		0.0984	mg/L	1	B3I2114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2001	09/20/2023	09/22/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2058	09/20/2023	09/21/2023	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	99.4 %		70-130			"	"	"	
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 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@3'**

**9/18/2023 11:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.6 %		70-130			B31205 8	09/20/2023	09/21/2023	
Surrogate: 4-Bromofluorobenzene	96.5 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>2.23</b>		0.499	meq/L	10	[CALC]	09/22/2023	09/28/2023	
Magnesium	<b>0.949</b>		0.823	"	"	"	"	"	
Sodium	<b>21.2</b>		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312041	09/20/2023	09/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@3'**

**9/18/2023 11:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-02 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3I2041	09/20/2023	09/28/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.37			pH Units	1	B3I2218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	16.8		0.0100	SAR	1	B3I2212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.30		0.00500	mmhos/cm	1	B3I2218	09/22/2023	09/23/2023	
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 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@3'**  
**9/18/2023 11:27:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-02 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.57		0.0982	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	250		9.82	"	"	"	"	"	
Cadmium	0.254		0.0982	"	"	"	"	"	
Copper	11.2		9.82	"	"	"	"	"	
Lead	21.3		9.82	"	"	"	"	"	
Nickel	12.6		9.82	"	"	"	"	"	
Selenium	0.193		0.0982	"	"	"	"	"	
Silver	ND		0.0982	"	"	"	"	"	U
Zinc	ND		98.2	"	"	"	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710717	09/18/2023	10/13/2023	
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 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@3'**

**9/18/2023 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.894		0.0993	mg/L	1	B312114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	67.1		25.0	mg/kg	1	B312001	09/20/2023	09/22/2023	
Residual Range Organics (C28-C40)	313		100	"	"	"	"	"	

Surrogate: o-Terphenyl	92.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312058	09/20/2023	09/21/2023	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	97.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@3'**

**9/18/2023 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene 104 % 70-130 B31205 8 09/20/2023 09/21/2023

**Metals by Saturated Paste by EPA 6010**

Calcium	4.54	0.499	meq/L	10	[CALC]	09/22/2023	09/28/2023	
Magnesium	1.72	0.823	"	"	"	"	"	
Sodium	26.0	0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B312041	09/20/2023	09/29/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.010	"	2	"	"	09/29/2023	R-01, U
Benzo (a) pyrene	ND	0.040	"	"	"	"	"	R-01, U
Benzo (b) fluoranthene	ND	0.040	"	"	"	"	"	R-01, U
Benzo (g,h,i) perylene	0.058	0.040	"	"	"	"	"	R-01
Benzo (k) fluoranthene	ND	0.040	"	"	"	"	"	R-01, U
Chrysene	ND	0.040	"	"	"	"	"	R-01, U
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	"	R-01, U
Fluoranthene	ND	0.020	"	1	"	"	09/29/2023	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@3'**

**9/18/2023 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-03 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B3I2041	09/20/2023	09/29/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.040	"	2	"	"	09/29/2023	R-01, U
Naphthalene	ND		0.002	"	1	"	"	09/29/2023	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.040	"	2	"	"	09/29/2023	R-01, U

Surrogate: Fluorene-d10	93.7 %		60-130			"	"	09/29/2023	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	120 %		60-130			"	"	09/29/2023	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.14			pH Units	1	B3I2218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	14.7		0.0100	SAR	1	B3I2212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	4.29		0.00500	mmhos/cm	1	B3I2218	09/22/2023	09/23/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@3'**

**9/18/2023 11:40:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-03 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.18		0.0941	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	212		9.41	"	"	"	"	"	
Cadmium	0.325		0.0941	"	"	"	"	"	
Copper	10.8		9.41	"	"	"	"	"	
Lead	18.7		9.41	"	"	"	"	"	
Nickel	12.8		9.41	"	"	"	"	"	
Selenium	0.301		0.0941	"	"	"	"	"	
Silver	ND		0.0941	"	"	"	"	"	U
Zinc	ND		94.1	"	"	"	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710717	09/18/2023	10/13/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@3'**  
**9/18/2023 12:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.252		0.100	mg/L	1	B3I2114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2001	09/20/2023	09/22/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2058	09/20/2023	09/21/2023	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	96.3 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@3'**

**9/18/2023 12:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	93.7 %		70-130			B31205 8	09/20/2023	09/21/2023	
Surrogate: 4-Bromofluorobenzene	96.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.08		0.499	meq/L	10	[CALC]	09/22/2023	09/28/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.50		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312041	09/20/2023	09/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@3'**

**9/18/2023 12:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-04 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3I2041	09/20/2023	09/28/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	90.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.5 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.38			pH Units	1	B3I2218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	3.79		0.0100	SAR	1	B3I2212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.805		0.00500	mmhos/cm	1	B3I2218	09/22/2023	09/23/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@3'**

**9/18/2023 12:07:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-04 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.54	0.0901	9.01	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	265	9.01	9.01	"	"	"	"	"	
Cadmium	0.222	0.0901	9.01	"	"	"	"	"	
Copper	11.0	9.01	9.01	"	"	"	"	"	
Lead	9.85	9.01	9.01	"	"	"	"	"	
Nickel	12.3	9.01	9.01	"	"	"	"	"	
Selenium	0.265	0.0901	9.01	"	"	"	"	"	
Silver	ND	0.0901	9.01	"	"	"	"	"	U
Zinc	ND	90.1	9.01	"	"	"	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710717	09/18/2023	10/13/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@8'**  
**9/18/2023 12:19:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.210		0.0998	mg/L	1	B3I2114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2001	09/20/2023	09/25/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2058	09/20/2023	09/21/2023	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	97.4 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@8'**

**9/18/2023 12:19:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.6 %		70-130			B31205 8	09/20/2023	09/21/2023	
Surrogate: 4-Bromofluorobenzene	95.7 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>2.20</b>		0.499	meq/L	10	[CALC]	09/22/2023	09/28/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>2.24</b>		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312041	09/20/2023	09/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@8'**

**9/18/2023 12:19:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-05 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3I2041	09/20/2023	09/28/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	91.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.28			pH Units	1	B3I2218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	1.83		0.0100	SAR	1	B3I2212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.747		0.00500	mmhos/cm	1	B3I2218	09/22/2023	09/23/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-N@8'**

**9/18/2023 12:19:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-05 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.65		0.0954	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	221		9.54	"	"	"	"	"	
Cadmium	0.241		0.0954	"	"	"	"	"	
Copper	11.8		9.54	"	"	"	"	"	
Lead	10.9		9.54	"	"	"	"	"	
Nickel	13.7		9.54	"	"	"	"	"	
Selenium	0.196		0.0954	"	"	"	"	"	
Silver	ND		0.0954	"	"	"	"	"	U
Zinc	ND		95.4	"	"	"	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710717	09/18/2023	10/13/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@8'**  
**9/18/2023 12:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.313		0.101	mg/L	1	B3I2114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2001	09/20/2023	09/25/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	91.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2058	09/20/2023	09/21/2023	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	100 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@8'**

**9/18/2023 12:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-06 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.9 %		70-130			B3I205 8	09/20/2023	09/21/2023	
Surrogate: 4-Bromofluorobenzene	94.1 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	5.92	0.499	meq/L	10	[CALC]		09/22/2023	09/28/2023	
Magnesium	2.24	0.823	"	"	"		"	"	
Sodium	10.3	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.026	0.002	mg/kg	1	B3I2041		09/20/2023	09/29/2023	
2-Methylnaphthalene	0.011	0.002	"	"	"		"	"	
Acenaphthene	0.055	0.020	"	"	"		"	"	
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	0.006	0.005	"	"	"		"	"	
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (g,h,i) perylene	0.085	0.020	"	"	"		"	"	
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	0.033	0.020	"	"	"		"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U
Fluoranthene	ND	0.020	"	"	"		"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@8'**

**9/18/2023 12:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-06 (Soil)**

**PAH by EPA 8270E**

Fluorene	0.039		0.020	mg/kg	1	B312041	09/20/2023	09/29/2023	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Phenanthrene	0.071		0.020	"	"	"	"	"	
Pyrene	0.023		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	97.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	
Surrogate: Pyrene-d10	65.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.4 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.18			pH Units	1	B312218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	5.10		0.0100	SAR	1	B312212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.51		0.00500	mmhos/cm	1	B312218	09/22/2023	09/23/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-S@8'**

**9/18/2023 12:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-06 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.25		0.0969	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	269		9.69	"	"	"	"	"	
Cadmium	0.252		0.0969	"	"	"	"	"	
Copper	11.0		9.69	"	"	"	"	"	
Lead	17.6		9.69	"	"	"	"	"	
Nickel	12.8		9.69	"	"	"	"	"	
Selenium	0.165		0.0969	"	"	"	"	"	
Silver	ND		0.0969	"	"	"	"	"	U
Zinc	ND		96.9	"	"	"	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710717	09/18/2023	10/13/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-E@8'**

**9/18/2023 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.676		0.101	mg/L	1	B312114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	33.4		25.0	mg/kg	1	B312001	09/20/2023	09/25/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	94.8 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B312058	09/20/2023	09/22/2023	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	99.9 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-E@8'**

**9/18/2023 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-07 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	95.1 %		70-130			B3I205 8	09/20/2023	09/22/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.12	0.499	meq/L	10	[CALC]		09/22/2023	09/28/2023	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	8.92	0.435	"	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.010	0.002	mg/kg	1	B3I2041		09/20/2023	09/29/2023	
2-Methylnaphthalene	0.009	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.010	"	2	"	"	"	09/29/2023	R-01, U
Benzo (a) pyrene	ND	0.040	"	"	"	"	"	"	R-01, U
Benzo (b) fluoranthene	ND	0.040	"	"	"	"	"	"	R-01, U
Benzo (g,h,i) perylene	ND	0.040	"	"	"	"	"	"	R-01, U
Benzo (k) fluoranthene	ND	0.040	"	"	"	"	"	"	R-01, U
Chrysene	ND	0.040	"	"	"	"	"	"	R-01, U
Dibenz (a,h) anthracene	ND	0.040	"	"	"	"	"	"	R-01, U
Fluoranthene	ND	0.020	"	1	"	"	"	09/29/2023	U

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-E@8'**  
**9/18/2023 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-07 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B312041	09/20/2023	09/29/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.040	"	2	"	"	09/29/2023	R-01, U
Naphthalene	ND		0.002	"	1	"	"	09/29/2023	U
Phenanthrene	<b>0.035</b>		0.020	"	"	"	"	"	
Pyrene	ND		0.040	"	2	"	"	09/29/2023	R-01, U

Surrogate: Fluorene-d10	96.6 %		60-130			"	"	09/29/2023	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	09/29/2023	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.26</b>			pH Units	1	B312218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>7.36</b>		0.0100	SAR	1	B312212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>1.69</b>		0.00500	mmhos/cm	1	B312218	09/22/2023	09/23/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-E@8'**

**9/18/2023 12:48:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-07 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.36		0.0932	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	240		9.32	"	"	"	"	"	
Cadmium	0.314		0.0932	"	"	"	"	"	
Copper	13.3		9.32	"	"	"	"	"	
Lead	15.2		9.32	"	"	"	"	"	
Nickel	12.7		9.32	"	"	"	"	"	
Selenium	0.208		0.0932	"	"	"	"	"	
Silver	ND		0.0932	"	"	"	"	"	U
Zinc	ND		93.2	"	"	"	"	"	U

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710717	09/18/2023	10/13/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@8'**

**9/18/2023 1:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.370		0.100	mg/L	1	B3I2114	09/21/2023	09/22/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2001	09/20/2023	09/25/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2058	09/20/2023	09/22/2023	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	97.2 %		70-130			"	"	"	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@8'**

**9/18/2023 1:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-08 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.2 %		70-130			B31205 8	09/20/2023	09/22/2023	
Surrogate: 4-Bromofluorobenzene	93.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.837</b>		0.499	meq/L	10	[CALC]	09/22/2023	09/28/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>9.07</b>		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B312041	09/20/2023	09/28/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (g,h,i) perylene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@8'**

**9/18/2023 1:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-08 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3I2041	09/20/2023	09/28/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Phenanthrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	92.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.4 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.48			pH Units	1	B3I2218	09/22/2023	09/23/2023	
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**SAR by 20B Saturated Paste**

SAR	11.9		0.0100	SAR	1	B3I2212	09/22/2023	09/28/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.31		0.00500	mmhos/cm	1	B3I2218	09/22/2023	09/23/2023	
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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**WH-SS-W@8'**

**9/18/2023 1:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y309397-08 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	5.41		0.0864	mg/kg	10	B312030	09/20/2023	09/21/2023	
Barium	243		8.64	"	"	"	"	"	
Cadmium	0.240		0.0864	"	"	"	"	"	
Copper	11.2		8.64	"	"	"	"	"	
Lead	10.5		8.64	"	"	"	"	"	
Nickel	12.9		8.64	"	"	"	"	"	
Selenium	0.175		0.0864	"	"	"	"	"	
Silver	ND		0.0864	"	"	"	"	"	U
Zinc	ND		86.4	"	"	"	"	"	U

**Total Metals by 7196 A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710716	09/18/2023	10/13/2023	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**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
<b>Batch B3I2001 - EPA 3550B</b>										
<b>Blank (B3I2001-BLK1)</b>										
					Prepared: 09/20/2023 Analyzed: 09/22/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**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 B3I2001 - EPA 3550B**

**LCS (B3I2001-BS1)**

Prepared: 09/20/2023 Analyzed: 09/22/2023

Diesel (C10-C28)	961	50.0	mg/kg	1000		96.1	70-130			
Residual Range Organics (C28-C40)	886	200	"	1000		88.6	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**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 B3I2001 - EPA 3550B**

<b>Matrix Spike (B3I2001-MS1)</b>	<b>Source: Y309391-02</b>			Prepared: 09/20/2023 Analyzed: 09/22/2023						
Diesel (C10-C28)	925	50.0	mg/kg	1000	ND	92.5	70-130			
Residual Range Organics (C28-C40)	872	200	"	1000	ND	87.2	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**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 B3I2001 - EPA 3550B**

<b>Matrix Spike Dup (B3I2001-MSD1)</b>	<b>Source: Y309391-02</b>			<b>Prepared: 09/20/2023 Analyzed: 09/22/2023</b>						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	8.72	35	
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	70-130	8.09	35	
Surrogate: o-Terphenyl	46		"	49.8		92.3	50-150			

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Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**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 B3I2031 - EPA 5030 (soil)**

**Blank (B3I2031-BLK1)**

Prepared: 09/20/2023 Analyzed: 09/20/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	98.3		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.5		70-130			

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 Project: Schenk #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
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**Batch B3I2031 - EPA 5030 (soil)**

**LCS (B3I2031-BS1)**

Prepared: 09/20/2023 Analyzed: 09/20/2023

1,2,4-Trimethylbenzene	0.0900	0.00200	mg/kg	0.100		90.0	70-130			
1,3,5-Trimethylbenzene	0.0882	0.00200	"	0.100		88.2	70-130			
Benzene	0.0810	0.00200	"	0.100		81.0	70-130			
Ethylbenzene	0.0815	0.00200	"	0.100		81.5	70-130			
Naphthalene	0.0865	0.00380	"	0.100		86.5	70-130			
Toluene	0.0835	0.00200	"	0.100		83.5	70-130			
o-Xylene	0.0820	0.00200	"	0.100		82.0	70-130			
m,p-Xylene	0.169	0.00400	"	0.200		84.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

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 Project Number: [none]  
 Project: Schenk #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
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**Batch B3I2031 - EPA 5030 (soil)**

<b>Matrix Spike (B3I2031-MS1)</b>	<b>Source: Y309356-01</b>			<b>Prepared: 09/20/2023 Analyzed: 09/20/2023</b>						
1,2,4-Trimethylbenzene	0.0862	0.00200	mg/kg	0.100	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
Benzene	0.0791	0.00200	"	0.100	ND	79.1	70-130			
Ethylbenzene	0.0795	0.00200	"	0.100	ND	79.5	70-130			
Naphthalene	0.0834	0.00380	"	0.100	ND	83.4	70-130			
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130			
o-Xylene	0.0791	0.00200	"	0.100	ND	79.1	70-130			
m,p-Xylene	0.164	0.00400	"	0.200	ND	81.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.7	70-130			

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 Project Number: [none]  
 Project: Schenk #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
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Batch B3I2031 - EPA 5030 (soil)

Matrix Spike Dup (B3I2031-MSD1)	Source: Y309356-01			Prepared: 09/20/2023 Analyzed: 09/20/2023						
1,2,4-Trimethylbenzene	0.0853	0.00200	mg/kg	0.100	ND	85.3	70-130	0.980	20	
1,3,5-Trimethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130	1.32	20	
Benzene	0.0793	0.00200	"	0.100	ND	79.3	70-130	0.177	20	
Ethylbenzene	0.0778	0.00200	"	0.100	ND	77.8	70-130	2.11	20	
Naphthalene	0.0844	0.00380	"	0.100	ND	84.4	70-130	1.17	20	
Toluene	0.0802	0.00200	"	0.100	ND	80.2	70-130	1.12	20	
o-Xylene	0.0780	0.00200	"	0.100	ND	78.0	70-130	1.48	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.7	70-130	1.48	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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 Project: Schenk #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
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**Batch B312058 - EPA 5030 (soil)**

**Blank (B312058-BLK1)**

Prepared: 09/20/2023 Analyzed: 09/21/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	97.2		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.7		70-130			

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 Project Number: [none]  
 Project: Schenk #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
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Batch B312058 - EPA 5030 (soil)

**LCS (B312058-BS1)**

Prepared: 09/20/2023 Analyzed: 09/21/2023

1,2,4-Trimethylbenzene	0.0877	0.00200	mg/kg	0.100		87.7	70-130			
1,3,5-Trimethylbenzene	0.0880	0.00200	"	0.100		88.0	70-130			
Benzene	0.0800	0.00200	"	0.100		80.0	70-130			
Ethylbenzene	0.0814	0.00200	"	0.100		81.4	70-130			
Naphthalene	0.0822	0.00380	"	0.100		82.2	70-130			
Toluene	0.0841	0.00200	"	0.100		84.1	70-130			
o-Xylene	0.0813	0.00200	"	0.100		81.3	70-130			
m,p-Xylene	0.166	0.00400	"	0.200		83.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.9	70-130			

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 Project Number: [none]  
 Project: Schenk #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
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Batch B3I2058 - EPA 5030 (soil)

Matrix Spike (B3I2058-MS1)	Source: Y309397-02			Prepared: 09/20/2023 Analyzed: 09/21/2023						
1,2,4-Trimethylbenzene	0.0859	0.00200	mg/kg	0.100	ND	85.9	70-130			
1,3,5-Trimethylbenzene	0.0857	0.00200	"	0.100	ND	85.7	70-130			
Benzene	0.0816	0.00200	"	0.100	ND	81.6	70-130			
Ethylbenzene	0.0844	0.00200	"	0.100	ND	84.4	70-130			
Naphthalene	0.0834	0.00380	"	0.100	ND	83.4	70-130			
Toluene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
o-Xylene	0.0857	0.00200	"	0.100	ND	85.7	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	ND	86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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Steve Robison  
 Project Number: [none]  
 Project: Schenk #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
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Batch B3I2058 - EPA 5030 (soil)

Matrix Spike Dup (B3I2058-MSD1)	Source: Y309397-02			Prepared: 09/20/2023 Analyzed: 09/21/2023						
1,2,4-Trimethylbenzene	0.0828	0.00200	mg/kg	0.100	ND	82.8	70-130	3.65	20	
1,3,5-Trimethylbenzene	0.0822	0.00200	"	0.100	ND	82.2	70-130	4.19	20	
Benzene	0.0818	0.00200	"	0.100	ND	81.8	70-130	0.171	20	
Ethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	3.99	20	
Naphthalene	0.0854	0.00380	"	0.100	ND	85.4	70-130	2.42	20	
Toluene	0.0833	0.00200	"	0.100	ND	83.3	70-130	0.908	20	
o-Xylene	0.0817	0.00200	"	0.100	ND	81.7	70-130	4.78	20	
m,p-Xylene	0.165	0.00400	"	0.200	ND	82.6	70-130	4.67	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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Steve Robison  
 Project Number: [none]  
 Project: Schenk #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
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**Metals by EPA 6000/7000 Series Methods - 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 B3I2030 - EPA 3050B**

**Blank (B3I2030-BLK1)**

Prepared: 09/20/2023 Analyzed: 09/21/2023

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0100	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.0100	"							U
Nickel	ND	0.0100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.000100	"							U
Zinc	ND	0.100	"							U

**LCS (B3I2030-BS1)**

Prepared: 09/20/2023 Analyzed: 09/21/2023

Arsenic	0.0529	0.000100	mg/kg	0.0500		106	80-120			
Barium	5.09	0.0100	"	5.00		102	80-120			
Cadmium	0.0527	0.000100	"	0.0500		105	80-120			
Copper	0.517	0.0100	"	0.500		103	80-120			
Lead	0.0528	0.0100	"	0.0500		106	80-120			
Nickel	0.0487	0.0100	"	0.0500		97.4	80-120			
Selenium	0.0520	0.000100	"	0.0500		104	80-120			
Silver	0.0543	0.000100	"	0.0500		109	80-120			
Zinc	0.499	0.100	"	0.500		99.7	80-120			

**Matrix Spike (B3I2030-MS1)**

Source: Y309397-01

Prepared: 09/20/2023 Analyzed: 09/21/2023

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Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**Metals by EPA 6000/7000 Series Methods - 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 B3I2030 - EPA 3050B**

<b>Matrix Spike (B3I2030-MS1)</b>		<b>Source: Y309397-01</b>			Prepared: 09/20/2023 Analyzed: 09/21/2023					
Arsenic	8.61	0.0926	mg/kg	4.63	5.46	68.1	75-125			QM-07
Barium	605	9.26	"	463	306	64.5	75-125			QM-07
Cadmium	3.58	0.0926	"	4.63	0.260	71.7	75-125			QM-07
Copper	43.6	9.26	"	46.3	11.5	69.4	75-125			QM-07
Lead	14.6	9.26	"	4.63	11.3	72.1	75-125			QM-07
Nickel	16.0	9.26	"	4.63	13.2	58.7	75-125			QM-07
Selenium	3.35	0.0926	"	4.63	0.232	67.4	75-125			QM-07
Silver	3.47	0.0926	"	4.63	0.0424	74.0	75-125			QM-07
Zinc	79.1	92.6	"	46.3	47.1	69.2	75-125			QM-07, U

<b>Matrix Spike Dup (B3I2030-MSD1)</b>		<b>Source: Y309397-01</b>			Prepared: 09/20/2023 Analyzed: 09/21/2023					
Arsenic	10.2	0.0969	mg/kg	4.84	5.46	97.5	75-125	16.7	20	
Barium	747	9.69	"	484	306	91.1	75-125	21.1	20	QM-07
Cadmium	5.16	0.0969	"	4.84	0.260	101	75-125	36.1	20	QM-07
Copper	58.2	9.69	"	48.4	11.5	96.3	75-125	28.5	20	QM-07
Lead	16.6	9.69	"	4.84	11.3	110	75-125	12.9	20	
Nickel	17.3	9.69	"	4.84	13.2	83.9	75-125	8.07	20	
Selenium	5.10	0.0969	"	4.84	0.232	101	75-125	41.4	20	QM-07
Silver	5.01	0.0969	"	4.84	0.0424	103	75-125	36.4	20	QM-07
Zinc	93.1	96.9	"	48.4	47.1	95.0	75-125	16.2	20	U

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2041 - EPA 3580**

**Blank (B3I2041-BLK1)**

Prepared: 09/20/2023 Analyzed: 09/28/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		91.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**LCS (B3I2041-BS1)**

Prepared: 09/20/2023 Analyzed: 09/28/2023

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		105	70-130			
2-Methylnaphthalene	0.204	0.002	"	0.200		102	70-130			
Acenaphthene	0.180	0.020	"	0.200		90.1	70-130			
Anthracene	0.177	0.020	"	0.200		88.6	70-130			
Benzo (a) anthracene	0.163	0.005	"	0.200		81.3	70-130			
Benzo (a) pyrene	0.162	0.020	"	0.200		81.2	70-130			

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2041 - EPA 3580**

**LCS (B3I2041-BS1)**

Prepared: 09/20/2023 Analyzed: 09/28/2023

Benzo (b) fluoranthene	0.164	0.020	mg/kg	0.200		82.2	70-130			
Benzo (k) fluoranthene	0.161	0.020	"	0.200		80.6	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.172	0.020	"	0.200		86.1	70-130			
Fluoranthene	0.174	0.020	"	0.200		87.2	70-130			
Fluorene	0.182	0.020	"	0.200		91.2	70-130			
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		85.1	70-130			
Naphthalene	0.203	0.002	"	0.200		102	70-130			
Pyrene	0.157	0.020	"	0.200		78.6	70-130			
Surrogate: Fluorene-d10	180		ug/kg	200		89.1	60-130			
Surrogate: Anthracene-d10	180		"	200		89.9	60-130			
Surrogate: Pyrene-d10	150		"	200		75.8	60-130			
Surrogate: Benzo (a) pyrene-d12	160		"	200		81.2	60-130			

**Matrix Spike (B3I2041-MS1)**

Source: Y309391-02

Prepared: 09/20/2023 Analyzed: 09/28/2023

1-Methylnaphthalene	0.213	0.008	mg/kg	0.200	ND	107	70-130			
2-Methylnaphthalene	0.212	0.008	"	0.200	ND	106	70-130			
Acenaphthene	0.202	0.080	"	0.200	ND	101	70-130			
Anthracene	0.209	0.080	"	0.200	0.003	103	70-130			
Benzo (a) anthracene	0.185	0.020	"	0.200	0.005	90.0	70-130			
Benzo (a) pyrene	0.209	0.080	"	0.200	0.014	97.7	70-130			
Benzo (b) fluoranthene	0.200	0.080	"	0.200	0.013	93.2	70-130			
Benzo (k) fluoranthene	0.208	0.080	"	0.200	0.007	101	70-130			
Chrysene	0.218	0.080	"	0.200	0.011	104	70-130			
Dibenz (a,h) anthracene	0.206	0.080	"	0.200	ND	103	70-130			
Fluoranthene	0.199	0.080	"	0.200	0.006	96.2	70-130			
Fluorene	0.206	0.080	"	0.200	ND	103	70-130			

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Jen Pellegrini, Project Manager

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Schneider Energy Services  
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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3I2041 - EPA 3580**

<b>Matrix Spike (B3I2041-MS1)</b>		<b>Source: Y309391-02</b>			Prepared: 09/20/2023 Analyzed: 09/28/2023					
Indeno (1,2,3-cd) pyrene	0.195	0.080	mg/kg	0.200	0.012	91.8	70-130			
Naphthalene	0.212	0.008	"	0.200	ND	106	70-130			
Pyrene	0.207	0.080	"	0.200	0.010	98.6	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.8	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	180		"	200		90.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

<b>Matrix Spike Dup (B3I2041-MSD1)</b>		<b>Source: Y309391-02</b>			Prepared: 09/20/2023 Analyzed: 09/28/2023					
1-Methylnaphthalene	0.210	0.008	mg/kg	0.200	ND	105	70-130	1.40	20	
2-Methylnaphthalene	0.204	0.008	"	0.200	ND	102	70-130	4.10	20	
Acenaphthene	0.195	0.080	"	0.200	ND	97.3	70-130	3.60	20	
Anthracene	0.217	0.080	"	0.200	0.003	107	70-130	3.79	20	
Benzo (a) anthracene	0.183	0.020	"	0.200	0.005	88.7	70-130	1.49	20	
Benzo (a) pyrene	0.199	0.080	"	0.200	0.014	92.6	70-130	5.06	20	
Benzo (b) fluoranthene	0.207	0.080	"	0.200	0.013	96.8	70-130	3.56	20	
Benzo (k) fluoranthene	0.194	0.080	"	0.200	0.007	93.4	70-130	7.26	20	
Chrysene	0.209	0.080	"	0.200	0.011	99.2	70-130	4.35	20	
Dibenz (a,h) anthracene	0.201	0.080	"	0.200	ND	100	70-130	2.68	20	
Fluoranthene	0.195	0.080	"	0.200	0.006	94.5	70-130	1.68	20	
Fluorene	0.198	0.080	"	0.200	ND	99.1	70-130	3.78	20	
Indeno (1,2,3-cd) pyrene	0.222	0.080	"	0.200	0.012	105	70-130	12.7	20	
Naphthalene	0.210	0.008	"	0.200	ND	105	70-130	1.14	20	
Pyrene	0.204	0.080	"	0.200	0.010	97.0	70-130	1.54	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Pyrene-d10	180		"	200		91.5	60-130			

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Jen Pellegrini, Project Manager

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B312041 - EPA 3580

**Matrix Spike Dup (B312041-MSD1)**

**Source: Y309391-02**

Prepared: 09/20/2023 Analyzed: 09/28/2023

Surrogate: Benzo (a) pyrene-d12	190		ug/kg	200		97.2	60-130			
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Jen Pellegrini, Project Manager

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 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3I2114 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3I2114-BLK1)</b>					Prepared: 09/21/2023 Analyzed: 09/22/2023					
Boron	ND	0.100	mg/L							U
<b>Duplicate (B3I2114-DUP1)</b>		<b>Source: Y309373-01</b>			Prepared: 09/21/2023 Analyzed: 09/22/2023					
Boron	1.06	0.101	mg/L		1.02			3.09	50	
<b>Batch B3I2212 - Saturated Paste Metals</b>										
<b>Blank (B3I2212-BLK1)</b>					Prepared: 09/22/2023 Analyzed: 09/28/2023					
Calcium PPM	ND	10.0	mg/L							U
SAR	ND	0.0100	SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U
<b>Duplicate (B3I2212-DUP1)</b>		<b>Source: Y309373-01</b>			Prepared: 09/22/2023 Analyzed: 09/28/2023					
Calcium PPM	40.7	10.0	mg/L		43.2			5.92	50	
SAR	ND	0.0100	SAR		5.75				200	U
Magnesium PPM	21.1	10.0	mg/L		22.4			5.98	50	
Sodium PPM	180	10.0	"		187			3.75	50	

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3I2218 - Saturated Paste pH/EC</b>										
<b>Blank (B3I2218-BLK1)</b>					Prepared: 09/22/2023 Analyzed: 09/23/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B3I2218-DUP1)</b>		<b>Source: Y309373-01</b>			Prepared: 09/22/2023 Analyzed: 09/23/2023					
pH	8.32		pH Units		8.34			0.240	25	
Specific Conductance (EC)	1.40	0.00500	mmhos/cm		1.35			3.60	25	

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Jen Pellegrini, Project Manager

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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**Total Metals by 7196 A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L710716 -

**DUP (L 98245-DUP)**

**Source: 98245**

Prepared: Analyzed: 10/13/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
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**MS (L 98245-MS)**

**Source: 98245**

Prepared: Analyzed: 10/13/2023

Chromium, Hexavalent	34	2.5	mg/Kg	39.9	<1.22	85	75-125			
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Schneider Energy Services  
 PO Box 297 14400 Hwy. 34  
 Fort Morgan CO 80701

Steve Robison  
 Project Number: [none]  
 Project: Schenk #1

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L710717 -

<b>DUP (L 97414-DUP)</b>		<b>Source: 97414</b>			Prepared: Analyzed: 10/13/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
<b>MS (L 97414-MS)</b>		<b>Source: 97414</b>			Prepared: Analyzed: 10/13/2023					
Chromium, Hexavalent	33.4	2.5	mg/Kg	40	<1.22	84	75-125			

Origins Laboratory, Inc.



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Schneider Energy Services  
PO Box 297 14400 Hwy. 34  
Fort Morgan CO 80701

Steve Robison  
Project Number: [none]  
Project: Schenk #1

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**Notes and Definitions**

U Sample is Non-Detect.

R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.

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 on a wet weight basis.

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Jen Pellegrini, Project Manager

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