



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 Y309398-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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
FL-WH-SS@2'	Y309398-01	Soil	September 18, 2023 1:15	09/19/2023 14:10
FL-WH-SS@4'	Y309398-02	Soil	September 18, 2023 1:24	09/19/2023 14:10
Background@2'	Y309398-03	Soil	September 18, 2023 2:43	09/19/2023 14:10
Background@4'	Y309398-04	Soil	September 18, 2023 2:55	09/19/2023 14:10
FL-PV-SS@2'	Y309398-05	Soil	September 18, 2023 4:31	09/19/2023 14:10
FL-PV-SS@4'	Y309398-06	Soil	September 18, 2023 4:45	09/19/2023 14:10

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

ORIGINS

LABORATORY, INC

www.originslaboratory.com

4309398

page of

Client: Rival Services / Schneider Energy Project Manager: Steve Robison
Address: 14400 15th Hwy 34 Project Name: Schenk #1
Fort Morgan CO 80701 Project Number: 1
Telephone Number: 970-778-1252 Samples Collected By: Steve Robison
Email Address: Steve.Robison@rsmmail.com

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 Sampling Container #	Other		
FL-041-55 @ 2'	9-18-23	0115											Full Panel 915-1 TOL 1
FL-041-55 @ 4'	9-18-23	0124											Full Panel 915-1 TOL 2
Background @ 2'	9-18-23	0243											Full Panel 915-1 TOL 3
Background @ 4'	9-18-23	0255											Full Panel 915-1 TOL 4
FL-041-55 @ 2'	9-18-23	0431											Full Panel 915-1 TOL 5
FL-041-55 @ 4'	9-18-23	0445											Full Panel 915-1 TOL 6
													7
													8
													9
													10
Relinquished By: <u>Steve Robison</u>	Date: <u>9-19-23</u>	Time: <u>0810</u>	Received By: <u>[Signature]</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 checked="" type="checkbox"/> Standard							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Date Results Needed

Temp Received- S

Origins Laboratory, Inc.

Jen Pellegrini

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

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: u3 09398

Client: Schneider

Client Project ID: Schenk #1

Checklist Completed by: EHS

Shipped Via: HO
(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 1 °C 1 °C (Describe)

Thermometer ID: 7004

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"/>			
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 (Project Manager)

Date/Time Reviewed 9/20/23

Origins Laboratory, Inc.

Jen Pellegrini

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

FL-WH-SS@2'
9/18/2023 1:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.106	0.0994	mg/L	1	B312206	09/22/2023	09/26/2023	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	90.8 %	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	98.6 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

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

FL-WH-SS@2'
9/18/2023 1:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.5 %	70-130	B3I205 8	09/20/2023	09/22/2023
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.590	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.19	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
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

FL-WH-SS@2'
9/18/2023 1:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-01 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	99.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	90.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.9 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.52	pH Units	1	B3I2514	09/25/2023	09/26/2023
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SAR by 20B Saturated Paste

SAR	5.04	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.423	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

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

FL-WH-SS@2'

9/18/2023 1:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.17	0.0886	mg/kg	10	B3I1941	09/19/2023	09/22/2023	
Barium	315	8.86	"	"	"	"	"	
Cadmium	0.224	0.0886	"	"	"	"	"	
Copper	9.96	8.86	"	"	"	"	"	
Lead	9.77	8.86	"	"	"	"	"	
Nickel	11.9	8.86	"	"	"	"	"	
Selenium	0.190	0.0886	"	"	"	"	"	
Silver	ND	0.0886	"	"	"	"	"	U
Zinc	ND	88.6	"	"	"	"	"	U

Total Metals by 7196A

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

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

FL-WH-SS@4'
9/18/2023 1:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.251	0.100	mg/L	1	B312206	09/22/2023	09/26/2023	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	84.5 %	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	99.6 %	70-130	"	"	"	"	"	
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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

FL-WH-SS@4'
9/18/2023 1:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.7 %	70-130	B3I205 8	09/20/2023	09/22/2023
Surrogate: 4-Bromofluorobenzene	94.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.904	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	8.73	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I2041	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 (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

FL-WH-SS@4'
9/18/2023 1:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-02 (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
Pyrene	ND	0.040	"	2	"	"	09/29/2023	R-01, U

Surrogate: Fluorene-d10	96.0 %	60-130	"	"	09/29/2023
Surrogate: Anthracene-d10	98.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	09/29/2023
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.70	pH Units	1	B3I2514	09/25/2023	09/26/2023
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SAR by 20B Saturated Paste

SAR	9.53	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.34	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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Table 915 metals by EPA 6020B

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

FL-WH-SS@4'

9/18/2023 1:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.58	0.0996	mg/kg	10	B311941	09/19/2023	09/22/2023	
Barium	221	9.96	"	"	"	"	"	
Cadmium	0.239	0.0996	"	"	"	"	"	
Copper	10.9	9.96	"	"	"	"	"	
Lead	10.7	9.96	"	"	"	"	"	
Nickel	11.6	9.96	"	"	"	"	"	
Selenium	0.165	0.0996	"	"	"	"	"	
Silver	ND	0.0996	"	"	"	"	"	U
Zinc	ND	99.6	"	"	"	"	"	U

Total Metals by 7196 A

Chromium, Hexavalent	64.6	0.244	0.5	mg/Kg	1	L710897	09/18/2023	10/15/2023
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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

Background@2'

9/18/2023 2:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.385	0.101	mg/L	1	B312206	09/22/2023	09/26/2023	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	90.2 %	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	102 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

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

Background@2'

9/18/2023 2:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.1 %	70-130	B3I205 8	09/20/2023	09/22/2023
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.64	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
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

Background@2'

9/18/2023 2:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-03 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	97.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	114 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.7 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.01	pH Units	1	B3I2514	09/25/2023	09/26/2023
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SAR by 20B Saturated Paste

SAR	0.0587	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.279	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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Table 915 metals by EPA 6020B

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

Background@2'

9/18/2023 2:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.62	0.0957	mg/kg	10	B3I1941	09/19/2023	09/22/2023	
Barium	213	9.57	"	"	"	"	"	
Cadmium	0.281	0.0957	"	"	"	"	"	
Copper	12.4	9.57	"	"	"	"	"	
Lead	11.4	9.57	"	"	"	"	"	
Nickel	13.4	9.57	"	"	"	"	"	
Selenium	0.215	0.0957	"	"	"	"	"	
Silver	ND	0.0957	"	"	"	"	"	U
Zinc	ND	95.7	"	"	"	"	"	U

Total Metals by 7196A

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



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Jen Pellegrini, Project Manager

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

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

Background@4'

9/18/2023 2:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.232	0.0991	mg/L	1	B312206	09/22/2023	09/26/2023	
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DRO/ORO by EPA 8015D

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

Surrogate: o-Terphenyl	95.8 %	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	101 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

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

Background@4'

9/18/2023 2:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %	70-130	B3I205 8	09/20/2023	09/22/2023
Surrogate: 4-Bromofluorobenzene	93.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.845	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.24	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 (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
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

Background@4'

9/18/2023 2:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-04 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	98.8 %	60-130	"	"	"
Surrogate: Anthracene-d10	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	93.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.26	pH Units	1	B3I2514	09/25/2023	09/26/2023
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SAR by 20B Saturated Paste

SAR	1.52	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.306	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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Table 915 metals by EPA 6020B

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

Background@4'

9/18/2023 2:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.61	0.0955	mg/kg	10	B311941	09/19/2023	09/22/2023	
Barium	301	9.55	"	"	"	"	"	
Cadmium	0.257	0.0955	"	"	"	"	"	
Copper	12.1	9.55	"	"	"	"	"	
Lead	10.9	9.55	"	"	"	"	"	
Nickel	13.6	9.55	"	"	"	"	"	
Selenium	0.179	0.0955	"	"	"	"	"	
Silver	ND	0.0955	"	"	"	"	"	U
Zinc	ND	95.5	"	"	"	"	"	U

Total Metals by 7196A

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

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

FL-PV-SS@2'

9/18/2023 4:31:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.606	0.101	mg/L	1	B3I2206	09/22/2023	09/26/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	59.0	25.0	mg/kg	1	B3I2001	09/20/2023	09/25/2023
Residual Range Organics (C28-C40)	108	100	"	"	"	"	"

Surrogate: o-Terphenyl	87.6 %	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	0.241	0.200	"	"	"	"	"	

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

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

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

FL-PV-SS@2'

9/18/2023 4:31:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	B3I205 8	09/20/2023	09/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	7.30	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	2.13	0.823	"	"	"	"	"
Sodium	19.8	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3I2041	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 (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
Fluorene	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

FL-PV-SS@2'

9/18/2023 4:31:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y309398-05 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	96.4 %	60-130	"	"	09/29/2023
Surrogate: Anthracene-d10	99.0 %	60-130	"	"	"
Surrogate: Pyrene-d10	117 %	60-130	"	"	09/29/2023
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.91	pH Units	1	B3I2514	09/25/2023	09/26/2023
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SAR by 20B Saturated Paste

SAR	9.13	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.56	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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Table 915 metals by EPA 6020B

Arsenic	3.90	0.0877	mg/kg	10	B3I1941	09/19/2023	09/22/2023
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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

FL-PV-SS@2'

9/18/2023 4:31:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-05 (Soil)

Table 915 metals by EPA 6020B

Barium	153	8.77	mg/kg	10	B3I1941	09/19/2023	09/22/2023	
Cadmium	0.217	0.0877	"	"	"	"	"	
Copper	10.1	8.77	"	"	"	"	"	
Lead	9.16	8.77	"	"	"	"	"	
Nickel	10.2	8.77	"	"	"	"	"	
Selenium	0.169	0.0877	"	"	"	"	"	
Silver	ND	0.0877	"	"	"	"	"	U
Zinc	ND	87.7	"	"	"	"	"	U

Total Metals by 7196A

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



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Jen Pellegrini, Project Manager

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

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

FL-PV-SS@4'

9/18/2023 4:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-06 (Soil)

Boron (DTPA Sorbitol)

Boron	1.42	0.100	mg/L	1	B3I2206	09/22/2023	09/26/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	79.3	25.0	mg/kg	1	B3I2001	09/20/2023	09/25/2023
Residual Range Organics (C28-C40)	113	100	"	"	"	"	"

Surrogate: o-Terphenyl	92.2 %	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	0.303	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	95.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

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

FL-PV-SS@4'

9/18/2023 4:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	93.9 %	70-130	B3I205 8	09/20/2023	09/22/2023
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Metals by Saturated Paste by EPA 6010

Calcium	6.60	0.499	meq/L	10	[CALC]	09/25/2023	09/27/2023
Magnesium	1.43	0.823	"	"	"	"	"
Sodium	22.2	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B3I2041	09/20/2023	09/28/2023	
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

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

FL-PV-SS@4'

9/18/2023 4:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-06 (Soil)

PAH by EPA 8270E

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

Surrogate: Fluorene-d10	99.6 %	60-130	"	"	"
Surrogate: Anthracene-d10	95.2 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	106 %	60-130	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B3I2514	09/25/2023	09/26/2023
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SAR by 20B Saturated Paste

SAR	11.1	0.0100	SAR	1	B3I2508	09/25/2023	09/27/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.63	0.00500	mmhos/cm	1	B3I2514	09/25/2023	09/26/2023
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Table 915 metals by EPA 6020B

Arsenic	4.71	0.0951	mg/kg	10	B3I1941	09/19/2023	09/22/2023
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Jen Pellegrini, Project Manager

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

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

FL-PV-SS@4'

9/18/2023 4:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y309398-06 (Soil)

Table 915 metals by EPA 6020B

Barium	190	9.51	mg/kg	10	B311941	09/19/2023	09/22/2023	
Cadmium	0.247	0.0951	"	"	"	"	"	
Copper	12.1	9.51	"	"	"	"	"	
Lead	11.4	9.51	"	"	"	"	"	
Nickel	12.7	9.51	"	"	"	"	"	
Selenium	0.168	0.0951	"	"	"	"	"	
Silver	ND	0.0951	"	"	"	"	"	U
Zinc	ND	95.1	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L710716	09/18/2023	10/13/2023
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Jen Pellegrini, Project Manager

Schneider Energy Services

PO Box 297 14400 Hwy. 34

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
Batch B3I2001 - EPA 3550B										
Blank (B3I2001-BLK1)					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			

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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

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			

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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

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

Matrix Spike (B3I2001-MS1)		Source: Y309391-02			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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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

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 B3I2001 - EPA 3550B										
Matrix Spike Dup (B3I2001-MSD1)			Source: Y309391-02		Prepared: 09/20/2023 Analyzed: 09/22/2023					
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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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
Batch B3I2058 - EPA 5030 (soil)										
Blank (B3I2058-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			

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

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 B3I2058 - EPA 5030 (soil)										
LCS (B3I2058-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			

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

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 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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Fort Morgan CO 80701

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
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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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

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 B3I1941 - EPA 3050B

Blank (B3I1941-BLK1)

Prepared: 09/19/2023 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 (B3I1941-BS1)

Prepared: 09/19/2023 Analyzed: 09/21/2023

Arsenic	0.0538	0.000100	mg/kg	0.0500		108	80-120
Barium	5.04	0.0100	"	5.00		101	80-120
Cadmium	0.0519	0.000100	"	0.0500		104	80-120
Copper	0.516	0.0100	"	0.500		103	80-120
Lead	0.0525	0.0100	"	0.0500		105	80-120
Nickel	0.0484	0.0100	"	0.0500		96.9	80-120
Selenium	0.0547	0.000100	"	0.0500		109	80-120
Silver	0.0539	0.000100	"	0.0500		108	80-120
Zinc	0.506	0.100	"	0.500		101	80-120

Matrix Spike (B3I1941-MS1)

Source: Y309387-01

Prepared: 09/19/2023 Analyzed: 09/21/2023

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

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
Batch B3I1941 - EPA 3050B										
Matrix Spike (B3I1941-MS1)		Source: Y309387-01			Prepared: 09/19/2023 Analyzed: 09/21/2023					
Arsenic	8.74	0.0947	mg/kg	4.74	4.10	98.0	75-125			
Barium	587	9.47	"	474	117	99.2	75-125			
Cadmium	5.10	0.0947	"	4.74	0.229	103	75-125			
Copper	53.2	9.47	"	47.4	7.59	96.3	75-125			
Lead	12.8	9.47	"	4.74	8.70	86.6	75-125			
Nickel	14.2	9.47	"	4.74	10.2	82.6	75-125			
Selenium	5.09	0.0947	"	4.74	0.155	104	75-125			
Silver	4.96	0.0947	"	4.74	0.0115	104	75-125			
Zinc	80.7	94.7	"	47.4	35.3	95.7	75-125			U
Matrix Spike Dup (B3I1941-MSD1)		Source: Y309387-01			Prepared: 09/19/2023 Analyzed: 09/21/2023					
Arsenic	8.46	0.0947	mg/kg	4.74	4.10	92.2	75-125	3.19	20	
Barium	585	9.47	"	474	117	98.9	75-125	0.245	20	
Cadmium	5.03	0.0947	"	4.74	0.229	101	75-125	1.40	20	
Copper	52.4	9.47	"	47.4	7.59	94.6	75-125	1.47	20	
Lead	12.6	9.47	"	4.74	8.70	81.8	75-125	1.79	20	
Nickel	13.9	9.47	"	4.74	10.2	77.0	75-125	1.90	20	
Selenium	4.94	0.0947	"	4.74	0.155	101	75-125	3.00	20	
Silver	5.00	0.0947	"	4.74	0.0115	105	75-125	0.761	20	
Zinc	80.1	94.7	"	47.4	35.3	94.6	75-125	0.675	20	U

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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

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

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

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

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

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
Batch B3I2041 - EPA 3580										
Matrix Spike (B3I2041-MS1)		Source: Y309391-02			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			
Matrix Spike Dup (B3I2041-MSD1)		Source: Y309391-02			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			

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

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

Matrix Spike Dup (B3I2041-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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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

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3I2206 - DTPA Sorbitol Preparation										
Blank (B3I2206-BLK1)					Prepared: 09/22/2023 Analyzed: 09/26/2023					
Boron	ND	0.100	mg/L							U
Duplicate (B3I2206-DUP1)					Source: Y309398-01 Prepared: 09/22/2023 Analyzed: 09/26/2023					
Boron	0.104	0.100	mg/L		0.106			1.69	50	
Batch B3I2508 - Saturated Paste Metals										
Blank (B3I2508-BLK1)					Prepared: 09/25/2023 Analyzed: 09/27/2023					
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
Duplicate (B3I2508-DUP1)					Source: Y309398-01 Prepared: 09/25/2023 Analyzed: 09/27/2023					
SAR	ND	0.0100	SAR		5.04				200	U
Calcium PPM	16.1	10.0	mg/L		11.8			30.8	50	
Magnesium PPM	3.73	10.0	"		2.55			37.6	50	U
Sodium PPM	123	10.0	"		73.4			50.5	50	QR-DUP

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Schneider Energy Services
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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
Batch B3I2514 - Saturated Paste pH/EC										
Blank (B3I2514-BLK1)					Prepared: 09/25/2023 Analyzed: 09/26/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3I2514-DUP1)					Source: Y309398-01 Prepared: 09/25/2023 Analyzed: 09/26/2023					
pH	8.48		pH Units		8.52			0.471	25	
Specific Conductance (EC)	0.441	0.00500	mmhos/cm		0.423			4.31	25	

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Schneider Energy Services
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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
Batch L710897 -										
DUP (L 97320-DUP)	Source: 97320				Prepared: Analyzed: 10/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 97320-MS)	Source: 97320				Prepared: Analyzed: 10/15/2023					
Chromium, Hexavalent	33.7	2.53	mg/Kg	40.5	<1.23	83	75-125			
LCS (LCS)					Prepared: Analyzed: 10/15/2023					
Chromium, Hexavalent	6.64	0.5	mg/Kg	8		83	75-125			
LRB (LRB)					Prepared: Analyzed: 10/15/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Schneider Energy Services
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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
Batch L710716 -										
DUP (L 98245-DUP)		Source: Y309398-04			Prepared: Analyzed: 10/13/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98245-MS)		Source: Y309398-04			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

Notes and Definitions

U Sample is Non-Detect.

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

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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