

October 28, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - Champlin 67

Project Number - [none]

Attached are your analytical results for GWOC - Champlin 67 received by Origins Laboratory, Inc. October 13, 2021. This project is associated with Origins project number Y110287-01.

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



Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Champlin 67

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-A 8 FT	Y110287-01	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-A 20 FT	Y110287-02	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-B 8 FT	Y110287-03	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-B 20 FT	Y110287-04	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-C 6 FT	Y110287-05	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-C 12 FT	Y110287-06	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-C 16 FT	Y110287-07	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-D 8 FT	Y110287-08	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-D 20 FT	Y110287-09	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-E 8 FT	Y110287-10	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-E 20 FT	Y110287-11	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-F 8 FT	Y110287-12	Soil	October 13, 2021 0:00	10/13/2021 13:55
SB-F 20 FT	Y110287-13	Soil	October 13, 2021 0:00	10/13/2021 13:55
BG-1 1 FT	Y110287-14	Soil	October 13, 2021 0:00	10/13/2021 13:55

Origins Laboratory, Inc.



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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Champlin 67

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-C 20FT	Y110287-15	Soil	October 13, 2021 0:00	10/13/2021 13:55

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y110287

Client: Fremont
 Client Project ID: GWOC - Champlin

Checklist Completed by: jm

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

Date/time completed: 10-13-21

Airbill #: N/A

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

Cooler Number/Temperature: 1 RT-UC / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}		X		Same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ^{(1)?}	X			
Was adequate sample volume provided ^{(1)?}	X			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		X		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	jm	X		no sample times
Does the COC agree with the number and type of sample bottles received ^{(1)?}	X			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	X			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
Additional Comments (if any):	extra sample added to COC per Paul's email, same tests as other SB-C samples			

⁽¹⁾if NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: jm (Project Manager)

Date/Time Reviewed: 10-14-21

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-A 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.39	0.201	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl	66.0 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-A 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-01 (Soil)

Metals by Saturated Paste

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	14.4	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.77		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	23.8		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.42	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-A 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.92	0.198	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl	64.9 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	"	

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-A 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-02 (Soil)

Metals by Saturated Paste

Calcium	12.2	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	7.01	0.823	"	"	"	KAP	"	"	
Sodium	20.4	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.76		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	6.58		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.01	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-B 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-03 (Soil)

Boron (DTPA Sorbitol)

Boron	3.26	0.201	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl	75.3 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-B 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-03 (Soil)

Metals by Saturated Paste

Calcium	2.39	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	2.01	0.823	"	"	"	KAP	"	"	
Sodium	60.7	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.14		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	41.1		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.15	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-B 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-04 (Soil)

Boron (DTPA Sorbitol)

Boron	5.79	0.198	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl	69.8 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-B 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-04 (Soil)

Metals by Saturated Paste

Calcium	1.36	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	10.0	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.84		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	10.7		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	11.7	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 6 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-05 (Soil)

Boron (DTPA Sorbitol)

Boron	8.25	0.201	mg/L	1	B1J1308	KAP	10/13/2021	10/14/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	3080	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	
Residual Range Organics (C28-C40)	1800	100	"	"	"	EPC	"	"	

Surrogate: o-Terphenyl	164 %	50-150			"	"		"	S-04
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GBTEX+TMBs

1,2,4-Trimethylbenzene	4.62	0.500	mg/kg	250	B1J1301	KDK	10/13/2021	10/20/2021	
Naphthalene	5.80	0.250	"	25	"	KDK	"	10/18/2021	
1,3,5-Trimethylbenzene	3.36	0.0500	"	"	"	KDK	"	"	
Benzene	0.217	0.0500	"	"	"	KDK	"	"	
Ethylbenzene	3.75	0.0500	"	"	"	KDK	"	"	
Toluene	ND	0.0500	"	"	"	KDK	"	"	R-01, U
Gasoline Range Hydrocarbons	256	50.0	"	250	"	KDK	"	10/20/2021	
Xylenes, total	8.37	0.500	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130			"	"		10/18/2021	
Surrogate: Toluene-d8	111 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	124 %	70-130			"	"		"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 6 FT

10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-05 (Soil)

Metals by Saturated Paste

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/13/2021	10/14/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	37.9	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.02		pH Units	1	B1J1313	AHK	10/13/2021	10/14/2021	
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SAR by 20B Saturated Paste

SAR	74.6		SAR	1	B1J1311	KAP	10/13/2021	10/14/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.28	0.00500	mmhos/cm	1	B1J1312	AHK	10/13/2021	10/14/2021	
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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 12 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-06 (Soil)

Boron (DTPA Sorbitol)

Boron	13.8	0.201	mg/L	1	B1J1308	KAP	10/13/2021	10/14/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	66.0 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	
Naphthalene	0.0821	0.0100	"	"	"	KDK	"	"	
1,3,5-Trimethylbenzene	0.0298	0.00200	"	"	"	KDK	"	"	
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	0.0134	0.00200	"	"	"	KDK	"	"	
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	2.26	0.200	"	"	"	KDK	"	"	
Xylenes, total	0.0597	0.00200	"	"	"	KDK	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.9 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 12 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-06 (Soil)

Metals by Saturated Paste

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/13/2021	10/14/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	33.1	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.76		pH Units	1	B1J1313	AHK	10/13/2021	10/14/2021	
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SAR by 20B Saturated Paste

SAR	82.9		SAR	1	B1J1311	KAP	10/13/2021	10/14/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.33	0.00500	mmhos/cm	1	B1J1312	AHK	10/13/2021	10/14/2021	
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Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 16 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-07 (Soil)

Boron (DTPA Sorbitol)

Boron	7.15	0.199	mg/L	1	B1J1308	KAP	10/13/2021	10/14/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: o-Terphenyl	70.1 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	10/20/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	10/18/2021	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 16 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-07 (Soil)

Metals by Saturated Paste

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	10/13/2021	10/14/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	39.9	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.66		pH Units	1	B1J1313	AHK	10/13/2021	10/14/2021	
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SAR by 20B Saturated Paste

SAR	80.7		SAR	1	B1J1311	KAP	10/13/2021	10/14/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.30	0.00500	mmhos/cm	1	B1J1312	AHK	10/13/2021	10/14/2021	
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Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-D 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-08 (Soil)

Boron (DTPA Sorbitol)

Boron	4.33	0.202	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	72.3 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	10/20/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	10/18/2021	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-D 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-08 (Soil)

Metals by Saturated Paste

Calcium	0.529	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	34.2	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.73		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	55.8		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.69	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-D 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-09 (Soil)

Boron (DTPA Sorbitol)

Boron	4.63	0.200	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	70.6 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/18/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-D 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-09 (Soil)

Metals by Saturated Paste

Calcium	2.74	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	1.28	0.823	"	"	"	KAP	"	"	
Sodium	44.1	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.19		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	31.0		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.71	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-E 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-10 (Soil)

Boron (DTPA Sorbitol)

Boron	4.60	0.200	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	70.7	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	
Residual Range Organics (C28-C40)	209	100	"	"	"	EPC	"	"	

Surrogate: o-Terphenyl	65.2 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-E 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-10 (Soil)

Metals by Saturated Paste

Calcium	2.10	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	1.52	0.823	"	"	"	KAP	"	"	
Sodium	81.0	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.18		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	60.1		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.65	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-E 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-11 (Soil)

Boron (DTPA Sorbitol)

Boron	14.3	0.201	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	69.1 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1301	KDK	10/13/2021	10/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-E 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-11 (Soil)

Metals by Saturated Paste

Calcium	10.6	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	2.04	0.823	"	"	"	KAP	"	"	
Sodium	91.9	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.97		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	36.5		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	10.2	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-F 8 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-12 (Soil)

Boron (DTPA Sorbitol)

Boron	6.81	0.201	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	70.6 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1401	KDK	10/14/2021	10/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-F 8 FT

10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-12 (Soil)

Metals by Saturated Paste

Calcium	0.639	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	49.8	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.74		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	75.9		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.36	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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 8305 6th St, PO Box 1289
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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-F 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-13 (Soil)

Boron (DTPA Sorbitol)

Boron	19.3	0.198	mg/L	1	B1J2513	KAP	10/25/2021	10/26/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/13/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	69.2 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1401	KDK	10/14/2021	10/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	"	

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-F 20 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-13 (Soil)

Metals by Saturated Paste

Calcium	4.83	0.499	meq/L	10	[CALC]	KAP	10/25/2021	10/26/2021	
Magnesium	1.73	0.823	"	"	"	KAP	"	"	
Sodium	82.5	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.12		pH Units	1	B1J2602	ACC	10/26/2021	10/26/2021	
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SAR by 20B Saturated Paste

SAR	45.7		SAR	1	B1J2514	KAP	10/25/2021	10/26/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	8.99	0.00500	mmhos/cm	1	B1J2601	ACC	10/26/2021	10/26/2021	
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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

BG-1 1 FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-14 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.202	mg/L	1	B1J1308	KAP	10/13/2021	10/14/2021	
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Metals by Saturated Paste

Calcium	3.54	0.499	meq/L	10	[CALC]	KAP	10/13/2021	10/14/2021	
Magnesium	1.19	0.823	"	"	"	KAP	"	"	
Sodium	1.29	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	7.42		pH Units	1	B1J1313	AHK	10/13/2021	10/14/2021	
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SAR by 20B Saturated Paste

SAR	0.837		SAR	1	B1J1311	KAP	10/13/2021	10/14/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.851	0.00500	mmhos/cm	1	B1J1312	AHK	10/13/2021	10/14/2021	
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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 20FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-15 (Soil)

Boron (DTPA Sorbitol)

Boron	11.5	0.200	mg/L	1	B1J1412	JMA	10/14/2021	10/15/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1J1305	EPC	10/13/2021	10/14/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	EPC	"	"	U

Surrogate: <i>o</i> -Terphenyl	67.3 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1J1401	KDK	10/14/2021	10/20/2021	U
Naphthalene	ND	0.00380	"	"	"	KDK	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	87.0 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	"	

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 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

SB-C 20FT
10/13/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110287-15 (Soil)

Metals by Saturated Paste

Calcium	0.559	0.499	meq/L	10	[CALC]	JMA	10/14/2021	10/15/2021	
Magnesium	ND	0.823	"	"	"	JMA	"	"	
Sodium	41.4	0.435	"	"	"	JMA	"	"	

pH in Soil by 9045D

pH	8.57		pH Units	1	B1J1420	AHK	10/14/2021	10/15/2021	
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SAR by 20B Saturated Paste

SAR	67.3		SAR	1	B1J1411	JMA	10/14/2021	10/15/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.52	0.00500	mmhos/cm	1	B1J1423	AHK	10/14/2021	10/15/2021	
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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1301 - EPA 5030 (soil)

Blank (B1J1301-BLK1)

Prepared: 10/13/2021 Analyzed: 10/13/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	94.6		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.4		70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1301 - EPA 5030 (soil)

LCS (B1J1301-BS1)

Prepared: 10/13/2021 Analyzed: 10/13/2021

1,2,4-Trimethylbenzene	0.0479	0.00200	mg/kg	0.0500		95.7	70-130			
Naphthalene	0.0438	0.0100	"	0.0500		87.6	70-130			
1,3,5-Trimethylbenzene	0.0468	0.00200	"	0.0500		93.7	70-130			
Benzene	0.0438	0.00200	"	0.0500		87.6	70-130			
Ethylbenzene	0.0453	0.00200	"	0.0500		90.6	70-130			
m,p-Xylene	0.0937	0.00400	"	0.100		93.7	70-130			
o-Xylene	0.0460	0.00200	"	0.0500		92.1	70-130			
Toluene	0.0470	0.00200	"	0.0500		94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.9	70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1301 - EPA 5030 (soil)

Matrix Spike (B1J1301-MS1)	Source: Y110266-02			Prepared: 10/13/2021 Analyzed: 10/13/2021						
1,2,4-Trimethylbenzene	0.0487	0.00200	mg/kg	0.0500	0.000540	96.4	70-130			
Naphthalene	0.0494	0.0100	"	0.0500	0.00188	95.0	70-130			
1,3,5-Trimethylbenzene	0.0501	0.00200	"	0.0500	0.000560	99.2	70-130			
Benzene	0.0493	0.00200	"	0.0500	ND	98.6	70-130			
Ethylbenzene	0.0473	0.00200	"	0.0500	0.000420	93.8	70-130			
m,p-Xylene	0.0958	0.00400	"	0.100	ND	95.8	70-130			
o-Xylene	0.0503	0.00200	"	0.0500	ND	101	70-130			
Toluene	0.0505	0.00200	"	0.0500	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.5	70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1301 - EPA 5030 (soil)

Matrix Spike Dup (B1J1301-MSD1)	Source: Y110266-02			Prepared: 10/13/2021 Analyzed: 10/13/2021						
1,2,4-Trimethylbenzene	0.0455	0.00200	mg/kg	0.0500	0.000540	89.9	70-130	6.92	20	
Naphthalene	0.0461	0.0100	"	0.0500	0.00188	88.4	70-130	6.83	20	
1,3,5-Trimethylbenzene	0.0463	0.00200	"	0.0500	0.000560	91.4	70-130	8.01	20	
Benzene	0.0452	0.00200	"	0.0500	ND	90.4	70-130	8.68	20	
Ethylbenzene	0.0442	0.00200	"	0.0500	0.000420	87.5	70-130	6.91	20	
m,p-Xylene	0.0895	0.00400	"	0.100	ND	89.5	70-130	6.80	20	
o-Xylene	0.0466	0.00200	"	0.0500	ND	93.3	70-130	7.51	20	
Toluene	0.0466	0.00200	"	0.0500	ND	93.3	70-130	7.99	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.5	70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1305 - EPA 3550B										
Blank (B1J1305-BLK1)										
					Prepared: 10/13/2021 Analyzed: 10/13/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	25.0		79.7	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1305 - EPA 3550B

LCS (B1J1305-BS1)

Prepared: 10/13/2021 Analyzed: 10/13/2021

Diesel (C10-C28)	810	50.0	mg/kg	1000		81.0	70-130			
Residual Range Organics (C28-C40)	897	200	"	1000		89.7	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.4	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1305 - EPA 3550B

Matrix Spike (B1J1305-MS1)	Source: Y110287-01			Prepared: 10/13/2021 Analyzed: 10/13/2021						
Diesel (C10-C28)	639	50.0	mg/kg	1000	ND	63.9	70-130			QM-07
Residual Range Organics (C28-C40)	713	200	"	1000	ND	71.3	70-130			
Surrogate: o-Terphenyl	34		"	50.0		67.4	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1305 - EPA 3550B

Matrix Spike Dup (B1J1305-MSD1)	Source: Y110287-01		Prepared: 10/13/2021 Analyzed: 10/13/2021							
Diesel (C10-C28)	649	50.0	mg/kg	1000	ND	64.9	70-130	1.54	35	QM-07
Residual Range Organics (C28-C40)	701	200	"	1000	ND	70.1	70-130	1.66	35	
Surrogate: o-Terphenyl	37		"	50.0		73.1	50-150			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1401 - EPA 5030 (soil)

Blank (B1J1401-BLK1)

Prepared: 10/14/2021 Analyzed: 10/15/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.2		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.0		70-130			

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Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1401 - EPA 5030 (soil)

LCS (B1J1401-BS1)

Prepared: 10/14/2021 Analyzed: 10/15/2021

1,2,4-Trimethylbenzene	0.0533	0.00200	mg/kg	0.0500		107	70-130			
Naphthalene	0.0552	0.0100	"	0.0500		110	70-130			
1,3,5-Trimethylbenzene	0.0518	0.00200	"	0.0500		104	70-130			
Benzene	0.0498	0.00200	"	0.0500		99.5	70-130			
Ethylbenzene	0.0501	0.00200	"	0.0500		100	70-130			
m,p-Xylene	0.104	0.00400	"	0.100		104	70-130			
o-Xylene	0.0517	0.00200	"	0.0500		103	70-130			
Toluene	0.0513	0.00200	"	0.0500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.6	70-130			

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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Champlin 67

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 B1J1401 - EPA 5030 (soil)

Matrix Spike (B1J1401-MS1)	Source: Y110302-01			Prepared: 10/14/2021 Analyzed: 10/18/2021						
1,2,4-Trimethylbenzene	0.0175	0.00200	mg/kg	0.0500	ND	34.9	70-130			QM-07
Naphthalene	ND	0.0100	"	0.0500	ND		70-130			QM-07, U
1,3,5-Trimethylbenzene	0.00900	0.00200	"	0.0500	ND	18.0	70-130			QM-07
Benzene	0.0618	0.00200	"	0.0500	ND	124	70-130			
Ethylbenzene	0.0190	0.00200	"	0.0500	ND	38.1	70-130			QM-07
m,p-Xylene	0.0381	0.00400	"	0.100	ND	38.1	70-130			QM-07
o-Xylene	0.0469	0.00200	"	0.0500	ND	93.9	70-130			
Toluene	0.0549	0.00200	"	0.0500	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.0	70-130			

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Paul Henehan
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 Project: GWOC - Champlin 67

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 B1J1401 - EPA 5030 (soil)

Matrix Spike Dup (B1J1401-MSD1)	Source: Y110302-01			Prepared: 10/14/2021 Analyzed: 10/18/2021						
1,2,4-Trimethylbenzene	0.00596	0.00200	mg/kg	0.0500	ND	11.9	70-130	98.2	20	QM-07, QR-03
Naphthalene	0.00160	0.0100	"	0.0500	ND	3.20	70-130		20	QM-07, QR-03,
1,3,5-Trimethylbenzene	0.0139	0.00200	"	0.0500	ND	27.7	70-130	42.5	20	QM-07, QR-03
Benzene	0.0747	0.00200	"	0.0500	ND	149	70-130	18.9	20	QM-07
Ethylbenzene	0.0177	0.00200	"	0.0500	ND	35.4	70-130	7.29	20	QM-07
m,p-Xylene	0.0534	0.00400	"	0.100	ND	53.4	70-130	33.3	20	QM-07, QR-03
o-Xylene	0.0464	0.00200	"	0.0500	ND	92.9	70-130	1.07	20	
Toluene	0.0562	0.00200	"	0.0500	ND	112	70-130	2.38	20	
Surrogate: 1,2-Dichloroethane-d4	0.16		"	0.125		129	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.9	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - 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 B1J1312 - NO PREP

Blank (B1J1312-BLK1)

Prepared: 10/13/2021 Analyzed: 10/14/2021

Specific Conductance (EC) 0.00160 0.00500 mmhos/cm

Duplicate (B1J1312-DUP1)

Source: Y110272-06

Prepared: 10/13/2021 Analyzed: 10/14/2021

Specific Conductance (EC) 0.0937 0.00500 mmhos/cm 0.0881 6.16 25

Batch B1J1313 - NO PREP

Duplicate (B1J1313-DUP1)

Source: Y110272-06

Prepared: 10/13/2021 Analyzed: 10/14/2021

pH 7.28 pH Units 7.47 2.58 25

Batch B1J1420 - NO PREP

Duplicate (B1J1420-DUP1)

Source: Y110287-15

Prepared: 10/14/2021 Analyzed: 10/15/2021

pH 8.63 pH Units 8.57 0.698 25

Batch B1J1423 - NO PREP

Blank (B1J1423-BLK1)

Prepared: 10/14/2021 Analyzed: 10/15/2021

Specific Conductance (EC) 0.00400 0.00500 mmhos/cm

Duplicate (B1J1423-DUP1)

Source: Y110287-15

Prepared: 10/14/2021 Analyzed: 10/15/2021

Specific Conductance (EC) 3.87 0.00500 mmhos/cm 4.52 15.6 25

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 Project: GWOC - Champlin 67

Saturated Paste - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1J2601 - NO PREP										
Blank (B1J2601-BLK1)					Prepared: 10/26/2021 Analyzed: 10/26/2021					
Specific Conductance (EC)	0.00170	0.00500	mmhos/cm							
Duplicate (B1J2601-DUP1)		Source: Y110287-01			Prepared: 10/26/2021 Analyzed: 10/26/2021					
Specific Conductance (EC)	1.43	0.00500	mmhos/cm		1.42			0.337	25	
Batch B1J2602 - NO PREP										
Duplicate (B1J2602-DUP1)		Source: Y110287-01			Prepared: 10/26/2021 Analyzed: 10/26/2021					
pH	8.76		pH Units		8.77			0.114	25	

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Paul Henehan
Project Number: [none]
Project: GWOC - Champlin 67

Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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