ORIGINS LABORATORY

Absaroka

Joel Mason

112 High St.

Buffalo WY 82834

March 26, 2025

Project Name - McCormick 24-3 #6 **Project Number -** [none]

Attached are your analytical results for McCormick 24-3 #6 received by Origins Laboratory February 03, 2025. This project is associated with Origins project number E5B0014-01.

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
303.433.1322
projectmanager@originslab.com

THE NELAC INSTITUTE

ACCREDITED
TESTING CERT # 3494.01

ORIGINS LABORATORY

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MCC24_3#6SS01@5'	E5B0014-01	Soil	January 31, 2025 14:00	02/03/2025 15:38
MCC24_3#6SS02@3.5'	E5B0014-02	Soil	January 31, 2025 14:10	02/03/2025 15:38
MCC24_3#6SS03@3'	E5B0014-03	Soil	January 31, 2025 14:20	02/03/2025 15:38

Origins Laboratory

Jordan A. Bynon, Project Manager

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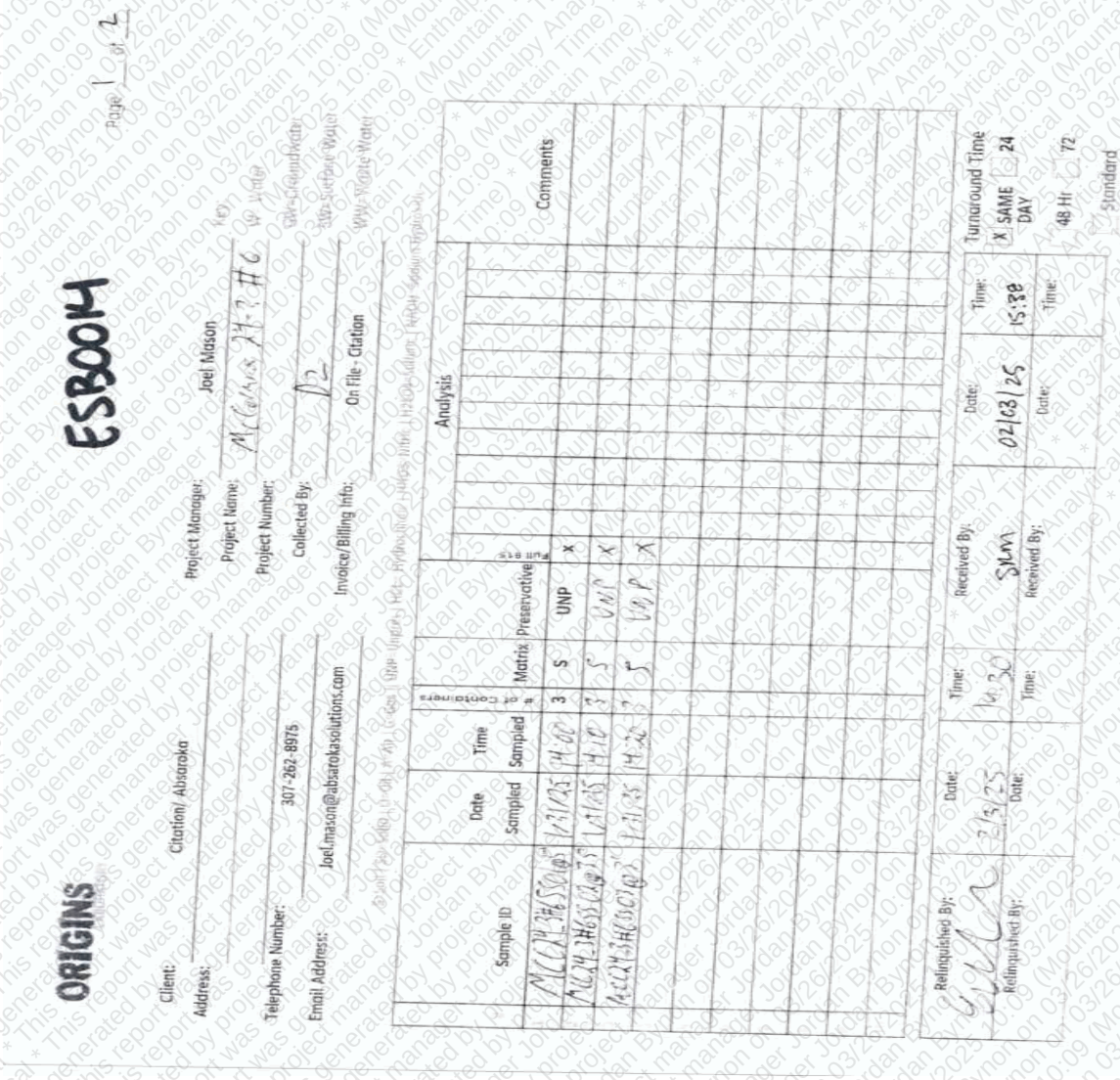
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6



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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: E513001M
Client: Absaroka
Client Project ID: McCormick
Checklist Completed by: SJM / JR
Shipped Via: HD (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 02 / 03 / 25
Airbill #: N/A
Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____ (Describe)
Cooler Number/Temperature: 1 / 2.9 °C
Thermometer ID: TC07

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C[1]?	✓			
Is there ice present (document if blue ice is used)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact[1]?	✓			
Was adequate sample volume provided[1]?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present[1]?		✓		
Is a chain-of-custody (COC) present and filled out completely[1]?	✓			
Does the COC agree with the number and type of sample bottles received[1]?	✓			
Do the sample IDs on the bottle labels match the COC[1]?	✓			
Is the COC properly relinquished by the client with date and time recorded[1]?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? **If yes, contact client and note in narrative.**			✓	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)*			✓	
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.

SJM
Reviewed by (Project Manager)

02 / 03 / 25
Date/Time Reviewed

Origins Laboratory

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS01@5'
1/31/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-01 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.151	0.377	mg/kg dry	1	2745639	02/10/2025	02/11/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.952		0.0995	mg/L	1	B5B0346	02/03/2025	02/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0341	02/03/2025	02/03/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	*81.7 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0342	02/03/2025	02/03/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

Origins Laboratory

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS01@5'
1/31/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-01 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5B0342	02/03/2025	02/03/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	*99.6 %*			*70-130*		"	"	"	
Surrogate: Toluene-d8	*113 %*			*70-130*		"	"	"	
Surrogate: 4-Bromofluorobenzene	*90.8 %*			*70-130*		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	21.3		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	10.1		0.823	"	"	"	"	"	
Sodium	34.5		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5B0335	02/03/2025	02/22/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS01@5'
1/31/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-01 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5B0335	02/03/2025	02/22/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	*103 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*99.7 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*101 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*101 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.11			pH Units	1	B5B0417	02/04/2025	02/05/2025	
SAR by 20B Saturated Paste									
SAR	8.72		0.0100	SAR	1	B5B0349	02/03/2025	02/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	5.45		0.00500	mmhos/cm	1	B5B0417	02/04/2025	02/05/2025	

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS01@5'
1/31/2025 2:00:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-01 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	5.17		0.280	mg/kg	10	B5B0345	02/03/2025	02/04/2025	
Barium	238		9.66	"	"	"	"	"	
Cadmium	0.152		0.0966	"	"	"	"	"	
Copper	ND		9.66	"	"	"	"	"	
Lead	9.62		0.966	"	"	"	"	"	
Nickel	12.0		0.966	"	"	"	"	"	
Selenium	ND		0.251	"	"	"	"	"	
Silver	ND		0.0966	"	"	"	"	"	
Zinc	42.3		35.7	"	"	"	"	"	

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS02@3.5'
1/31/2025 2:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-02 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.173	0.431	mg/kg dry	1	2745639	02/10/2025	02/11/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.570		0.0984	mg/L	1	B5B0346	02/03/2025	02/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0341	02/03/2025	02/03/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	*85.7 %*			*50-150*		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0342	02/03/2025	02/03/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS02@3.5'
1/31/2025 2:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-02 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5B0342	02/03/2025	02/03/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	*100 %*			*70-130*		"	"	"	
Surrogate: Toluene-d8	*114 %*			*70-130*		"	"	"	
Surrogate: 4-Bromofluorobenzene	*88.6 %*			*70-130*		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	23.6		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	8.74		0.823	"	"	"	"	"	
Sodium	20.9		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5B0335	02/03/2025	02/22/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS02@3.5'
1/31/2025 2:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5B0335	02/03/2025	02/22/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	*101 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*98.6 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*103 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*100 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.01			pH Units	1	B5B0417	02/04/2025	02/05/2025	
SAR by 20B Saturated Paste									
SAR	5.19		0.0100	SAR	1	B5B0349	02/03/2025	02/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	4.40		0.00500	mmhos/cm	1	B5B0417	02/04/2025	02/05/2025	

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS02@3.5'
1/31/2025 2:10:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-02 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.29		0.286	mg/kg	10	B5B0345	02/03/2025	02/04/2025	
Barium	197		9.85	"	"	"	"	"	
Cadmium	0.100		0.0985	"	"	"	"	"	
Copper	ND		9.85	"	"	"	"	"	
Lead	7.45		0.985	"	"	"	"	"	
Nickel	8.85		0.985	"	"	"	"	"	
Selenium	0.256		0.256	"	"	"	"	"	
Silver	ND		0.0985	"	"	"	"	"	
Zinc	ND		36.4	"	"	"	"	"	

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS03@3'
1/31/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-03 (Soil)									
GEL Laboratories, LLC									
Total Metals 7196A									
Hexavalent Chromium	ND	0.127	0.318	mg/kg dry	1	2745639	02/10/2025	02/11/2025	U
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.711		0.0993	mg/L	1	B5B0346	02/03/2025	02/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5B0341	02/03/2025	02/03/2025	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua
Surrogate: o-Terphenyl	*80.7 %*			*50-150*		*"*	*"*	*"*	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5B0342	02/03/2025	02/03/2025	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua

Origins Laboratory

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS03@3'
1/31/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-03 (Soil)									
Origins Laboratory									
GBTEX+TMBs by 8260D									
Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B5B0342	02/03/2025	02/03/2025	Ua
Surrogate: 1,2-Dichloroethane-d4	*102 %*			*70-130*		"	"	"	
Surrogate: Toluene-d8	*111 %*			*70-130*		"	"	"	
Surrogate: 4-Bromofluorobenzene	*90.5 %*			*70-130*		"	"	"	
Metals by Saturated Paste by EPA 6010									
Calcium	3.51		0.499	meq/L	10	[CALC]	02/03/2025	02/06/2025	
Magnesium	2.62		0.823	"	"	"	"	"	
Sodium	18.6		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5B0335	02/03/2025	02/22/2025	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS03@3'
1/31/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
Chrysene	ND		0.020	mg/kg	1	B5B0335	02/03/2025	02/22/2025	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	*101 %*			*60-130*		"	"	"	
Surrogate: Anthracene-d10	*100 %*			*60-130*		"	"	"	
Surrogate: Pyrene-d10	*98.2 %*			*60-130*		"	"	"	
Surrogate: Benzo (a) pyrene-d12	*99.2 %*			*60-130*		"	"	"	
pH in Soil by 9045D									
pH	8.31			pH Units	1	B5B0417	02/04/2025	02/05/2025	
SAR by 20B Saturated Paste									
SAR	10.7		0.0100	SAR	1	B5B0349	02/03/2025	02/06/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	2.75		0.00500	mmhos/cm	1	B5B0417	02/04/2025	02/05/2025	

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

MCC24 3#6SS03@3'
1/31/2025 2:20:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5B0014-03 (Soil)									
Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.67		0.268	mg/kg	10	B5B0345	02/03/2025	02/04/2025	
Barium	253		9.23	"	"	"	"	"	
Cadmium	0.154		0.0923	"	"	"	"	"	
Copper	ND		9.23	"	"	"	"	"	
Lead	9.22		0.923	"	"	"	"	"	
Nickel	11.7		0.923	"	"	"	"	"	
Selenium	ND		0.240	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	42.2		34.2	"	"	"	"	"	

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0346 - DTPA Sorbitol Preparation										
Blank (B5B0346-BLK1)					Prepared: 02/03/2025 Analyzed: 02/05/2025					
Boron	ND	0.100	mg/L							
Duplicate (B5B0346-DUP1)			Source: E5A0749-01		Prepared: 02/03/2025 Analyzed: 02/05/2025					
Boron	1.23	0.101	mg/L		0.980			22.4	50	
Batch B5B0349 - Saturated Paste Metals										
Blank (B5B0349-BLK1)					Prepared: 02/03/2025 Analyzed: 02/06/2025					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
Duplicate (B5B0349-DUP1)			Source: E5A0748-01		Prepared: 02/03/2025 Analyzed: 02/06/2025					
SAR	ND	0.0100	SAR		ND				200	
Calcium PPM	5.77	10.0	mg/L		5.00			14.3	50	
Magnesium PPM	7.03	10.0	"		6.18			12.9	50	
Sodium PPM	94.3	10.0	"		87.8			7.16	50	

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0335 - EPA 3580										
Blank (B5B0335-BLK1)				Prepared: 02/03/2025 Analyzed: 02/22/2025						
1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*102*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*99.9*	*60-130*			
Surrogate: Pyrene-d10	*200*		*"*	*200*		*101*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*102*	*60-130*			
LCS (B5B0335-BS1)				Prepared: 02/03/2025 Analyzed: 02/24/2025						
1-Methylnaphthalene	0.229	0.002	mg/kg	0.200		115	70-130			
2-Methylnaphthalene	0.229	0.002	"	0.200		115	70-130			
Acenaphthene	0.240	0.020	"	0.200		120	70-130			
Anthracene	0.241	0.020	"	0.200		120	70-130			

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Project Number: [none]
Project: McCormick 24-3 #6

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0335 - EPA 3580										
LCS (B5B0335-BS1)				Prepared: 02/03/2025 Analyzed: 02/24/2025						
Benzo (a) anthracene	0.253	0.005	mg/kg	0.200		126	70-130			
Benzo (a) pyrene	0.245	0.020	"	0.200		123	70-130			
Benzo (b) fluoranthene	0.228	0.020	"	0.200		114	70-130			
Benzo (g,h,i) perylene	0.220	0.020	"	0.200		110	70-130			
Benzo (k) fluoranthene	0.224	0.020	"	0.200		112	70-130			
Chrysene	0.245	0.020	"	0.200		122	70-130			
Dibenz (a,h) anthracene	0.253	0.020	"	0.200		127	70-130			
Fluoranthene	0.249	0.020	"	0.200		124	70-130			
Fluorene	0.249	0.020	"	0.200		124	70-130			
Indeno (1,2,3-cd) pyrene	0.241	0.020	"	0.200		121	70-130			
Naphthalene	0.238	0.002	"	0.200		119	70-130			
Phenanthrene	0.241	0.020	"	0.200		120	70-130			
Pyrene	0.246	0.020	"	0.200		123	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*98.9*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*102*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*97.0*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*105*	*60-130*			
Matrix Spike (B5B0335-MS1)		**Source: E5B0014-01**		Prepared: 02/03/2025 Analyzed: 02/24/2025						
1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.0006	96.7	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.4	70-130			
Acenaphthene	0.202	0.020	"	0.200	0.0008	101	70-130			
Anthracene	0.219	0.020	"	0.200	0.0006	109	70-130			
Benzo (a) anthracene	0.222	0.005	"	0.200	ND	111	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200	0.0007	110	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.001	98.0	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200	0.002	90.4	70-130			

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0335 - EPA 3580										
Matrix Spike (B5B0335-MS1)		**Source: E5B0014-01**			Prepared: 02/03/2025 Analyzed: 02/24/2025					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.0009	96.6	70-130			
Chrysene	0.207	0.020	"	0.200	0.0004	103	70-130			
Dibenz (a,h) anthracene	0.215	0.020	"	0.200	0.003	106	70-130			
Fluoranthene	0.210	0.020	"	0.200	ND	105	70-130			
Fluorene	0.210	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.003	102	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.201	0.020	"	0.200	ND	101	70-130			
Pyrene	0.207	0.020	"	0.200	ND	103	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.3*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*101*	*60-130*			
Surrogate: Pyrene-d10	*200*		*"*	*200*		*97.9*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*106*	*60-130*			
Matrix Spike Dup (B5B0335-MSD1)		**Source: E5B0014-01**			Prepared: 02/03/2025 Analyzed: 02/24/2025					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0006	96.2	70-130	0.504	20	
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.3	70-130	0.0617	20	
Acenaphthene	0.202	0.020	"	0.200	0.0008	101	70-130	0.0380	20	
Anthracene	0.208	0.020	"	0.200	0.0006	104	70-130	5.06	20	
Benzo (a) anthracene	0.221	0.005	"	0.200	ND	110	70-130	0.520	20	
Benzo (a) pyrene	0.208	0.020	"	0.200	0.0007	104	70-130	5.97	20	
Benzo (b) fluoranthene	0.197	0.020	"	0.200	0.001	97.8	70-130	0.210	20	
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	0.002	89.6	70-130	0.962	20	
Benzo (k) fluoranthene	0.176	0.020	"	0.200	0.0009	87.4	70-130	9.88	20	
Chrysene	0.202	0.020	"	0.200	0.0004	101	70-130	2.40	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.003	106	70-130	0.290	20	
Fluoranthene	0.209	0.020	"	0.200	ND	104	70-130	0.437	20	

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Project: McCormick 24-3 #6

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0335 - EPA 3580										
Matrix Spike Dup (B5B0335-MSD1)		**Source: E5B0014-01**			Prepared: 02/03/2025 Analyzed: 02/24/2025					
Fluorene	0.209	0.020	mg/kg	0.200	ND	104	70-130	0.504	20	
Indeno (1,2,3-cd) pyrene	0.205	0.020	"	0.200	0.003	101	70-130	0.793	20	
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130	0.346	20	
Phenanthrene	0.201	0.020	"	0.200	ND	101	70-130	0.0488	20	
Pyrene	0.204	0.020	"	0.200	ND	102	70-130	1.07	20	
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.0*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*102*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*96.3*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*105*	*60-130*			

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Project Number: [none]
Project: McCormick 24-3 #6

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0341 - EPA 3550B										
Blank (B5B0341-BLK1)				Prepared: 02/03/2025 Analyzed: 02/03/2025						
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	*22*		*"*	*24.9*		*87.7*	*50-150*			
LCS (B5B0341-BS1)				Prepared: 02/03/2025 Analyzed: 02/03/2025						
Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	977	200	"	1000		97.7	70-130			
Surrogate: o-Terphenyl	*58*		*"*	*49.8*		*116*	*50-150*			
Matrix Spike (B5B0341-MS1)		**Source: E5B0014-01**		Prepared: 02/03/2025 Analyzed: 02/03/2025						
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	*54*		*"*	*49.8*		*109*	*50-150*			
Matrix Spike Dup (B5B0341-MSD1)		**Source: E5B0014-01**		Prepared: 02/03/2025 Analyzed: 02/03/2025						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	2.77	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	1.67	35	
Surrogate: o-Terphenyl	*53*		*"*	*49.8*		*107*	*50-150*			

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0345 - EPA 3050B										
Blank (B5B0345-BLK1)						Prepared: 02/03/2025 Analyzed: 02/04/2025				
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							
LCS (B5B0345-BS1)						Prepared: 02/03/2025 Analyzed: 02/04/2025				
Arsenic	5.10	0.290	mg/kg	5.00		102	80-120			
Barium	534	10.0	"	500		107	80-120			
Cadmium	5.30	0.100	"	5.00		106	80-120			
Copper	52.7	10.0	"	50.0		105	80-120			
Lead	5.18	1.00	"	5.00		104	80-120			
Nickel	5.24	1.00	"	5.00		105	80-120			
Selenium	5.31	0.260	"	5.00		106	80-120			
Silver	5.25	0.100	"	5.00		105	80-120			
Zinc	54.0	37.0	"	50.0		108	80-120			
Matrix Spike (B5B0345-MS1)		**Source: E5B0014-01**				Prepared: 02/03/2025 Analyzed: 02/04/2025				
Arsenic	9.16	0.265	mg/kg	4.56	5.17	87.4	75-125			
Barium	709	9.12	"	456	238	103	75-125			
Cadmium	4.47	0.0912	"	4.56	0.152	94.7	75-125			
Copper	51.6	9.12	"	45.6	8.06	95.4	75-125			
Lead	14.2	0.912	"	4.56	9.62	99.9	75-125			

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0345 - EPA 3050B										
Matrix Spike (B5B0345-MS1)		**Source: E5B0014-01**			Prepared: 02/03/2025 Analyzed: 02/04/2025					
Nickel	15.9	0.912	mg/kg	4.56	12.0	85.5	75-125			
Selenium	4.86	0.237	"	4.56	0.228	102	75-125			
Silver	4.27	0.0912	"	4.56	0.0425	92.6	75-125			
Zinc	85.7	33.8	"	45.6	42.3	95.2	75-125			
Matrix Spike Dup (B5B0345-MSD1)		**Source: E5B0014-01**			Prepared: 02/03/2025 Analyzed: 02/04/2025					
Arsenic	9.05	0.278	mg/kg	4.80	5.17	80.8	75-125	1.19	20	
Barium	697	9.60	"	480	238	95.6	75-125	1.71	20	
Cadmium	4.50	0.0960	"	4.80	0.152	90.5	75-125	0.580	20	
Copper	54.0	9.60	"	48.0	8.06	95.7	75-125	4.57	20	
Lead	14.1	0.960	"	4.80	9.62	93.3	75-125	0.555	20	
Nickel	20.3	0.960	"	4.80	12.0	173	75-125	24.3	20	QM-07, QR-DUP
Selenium	5.18	0.250	"	4.80	0.228	103	75-125	6.25	20	
Silver	4.24	0.0960	"	4.80	0.0425	87.5	75-125	0.564	20	
Zinc	85.3	35.5	"	48.0	42.3	89.7	75-125	0.417	20	

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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0417 - Saturated Paste pH/EC										
Blank (B5B0417-BLK1)					Prepared: 02/04/2025 Analyzed: 02/05/2025					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B5B0417-DUP1)				**Source: E5A0748-01**	Prepared: 02/04/2025 Analyzed: 02/05/2025					
pH	8.70		pH Units		8.72			0.230	25	
Specific Conductance (EC)	0.501	0.00500	mmhos/cm		0.467			6.92	25	

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Jordan A. Bynon, Project Manager

Absaroka
112 High St.
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Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0342 - EPA 5030 (soil)										
Blank (B5B0342-BLK1)					Prepared: 02/03/2025 Analyzed: 02/03/2025					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	*0.12*		"	*0.125*		*94.5*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.11*		"	*0.125*		*91.7*	*70-130*			
LCS (B5B0342-BS1)					Prepared: 02/03/2025 Analyzed: 02/03/2025					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.0910	0.00200	"	0.100		91.0	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.0876	0.00380	"	0.100		87.6	70-130			
Toluene	0.0928	0.00200	"	0.100		92.8	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.11*		"	*0.125*		*92.0*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*101*	*70-130*			
Matrix Spike (B5B0342-MS1)			**Source: E5B0014-01**		Prepared: 02/03/2025 Analyzed: 02/03/2025					
1,2,4-Trimethylbenzene	0.0933	0.00200	mg/kg	0.100	ND	93.3	70-130			

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Buffalo WY 82834

Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5B0342 - EPA 5030 (soil)										
Matrix Spike (B5B0342-MS1)		**Source: E5B0014-01**			Prepared: 02/03/2025 Analyzed: 02/03/2025					
1,3,5-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100	ND	98.6	70-130			
Benzene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0750	0.00380	"	0.100	0.000880	74.1	70-130			
Toluene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
o-Xylene	0.0955	0.00200	"	0.100	ND	95.5	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.12*		"	*0.125*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*102*	*70-130*			
Matrix Spike Dup (B5B0342-MSD1)		**Source: E5B0014-01**			Prepared: 02/03/2025 Analyzed: 02/03/2025					
1,2,4-Trimethylbenzene	0.0773	0.00200	mg/kg	0.100	ND	77.3	70-130	18.7	20	
1,3,5-Trimethylbenzene	0.0816	0.00200	"	0.100	ND	81.6	70-130	18.9	20	
Benzene	0.0706	0.00200	"	0.100	ND	70.6	70-130	15.9	20	
Ethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130	16.8	20	
Naphthalene	0.0674	0.00380	"	0.100	0.000880	66.5	70-130	10.7	20	QM-07
Toluene	0.0711	0.00200	"	0.100	ND	71.1	70-130	19.1	20	
o-Xylene	0.0811	0.00200	"	0.100	ND	81.1	70-130	16.3	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	84.8	70-130	17.2	20	
Surrogate: 1,2-Dichloroethane-d4	*0.13*		"	*0.125*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*103*	*70-130*			

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Joel Mason
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Project: McCormick 24-3 #6

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2745639 - SW846 3060A										
BLANK (1205996962-BLK)					Prepared: 02/10/2025 Analyzed: 02/11/2025					
Hexavalent Chromium	ND	0.379	mg/kg				-			U
LCS (1205996963-BKS)					Prepared: 02/10/2025 Analyzed: 02/11/2025					
Hexavalent Chromium	3.16	0.325	mg/kg	3.25		97.2	80-120			
DUP (1205996964 D)		**Source: 707298001**			Prepared: 02/10/2025 Analyzed: 02/11/2025					
Hexavalent Chromium	ND	0.258	mg/kg dry		<0.103		0-50	N/A	50	U
MS (1205996965 S)		**Source: 707298001**			Prepared: 02/10/2025 Analyzed: 02/11/2025					
Hexavalent Chromium	1.68	0.258	mg/kg dry	2.58	<0.103	64.1	75-125			
DUP (1205996966 D)		**Source: E5B0014-02**			Prepared: 02/10/2025 Analyzed: 02/11/2025					
Hexavalent Chromium	ND	0.433	mg/kg dry		<0.173		0-50	N/A	50	U
MS (1205996967 S)		**Source: E5B0014-02**			Prepared: 02/10/2025 Analyzed: 02/11/2025					
Hexavalent Chromium	3.25	0.433	mg/kg dry	4.33	<0.173	75.1	75-125			
ILCS (1205996968-ILCS)					Prepared: 02/10/2025 Analyzed: 02/11/2025					
Hexavalent Chromium	4.94	0.228	mg/kg	4.63		107	80-120			

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Joel Mason
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Notes and Definitions

Ua	Sample is Non-Detect.
U	Result not detected above the detection limit
QR-DUP	RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

All soil results are reported on a wet weight basis.

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