ORIGINS LABORATORY

Absaroka
Joel Mason
112 High St.
Buffalo WY 82834

January 07, 2025

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

Attached are your analytical results for McCormick 24-3 #6 received by Origins Laboratory November 27, 2024. This project is associated with Origins project number E4L0011-01.

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

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#6WH@2'	E4L0011-01	Soil	November 25, 2024 14:23	11/27/2024 12:33
MCC24-3#6SHED@2'	E4L0011-02	Soil	November 25, 2024 14:35	11/27/2024 12:33

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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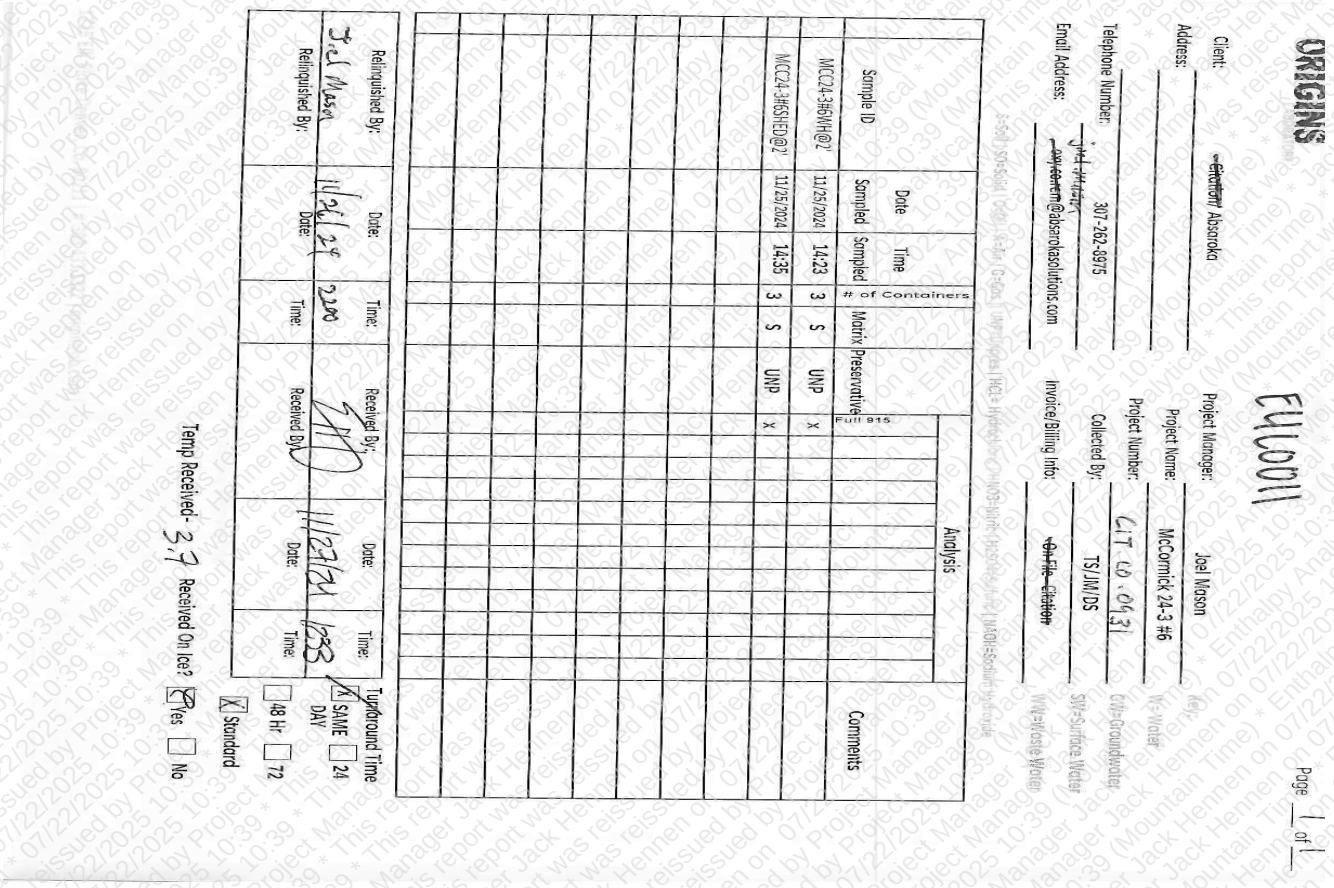
Joel Mason
Project Number: [none]
Project: McCormick 24-3 #6



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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: E4L0011

Client: Absaroka

Client Project ID: McCormick 24-3#6

Checklist Completed by: JUH / WS

Date/time completed: 12/ 2 /24

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

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid ____ Water ____ Other: ____ (Describe)

Cooler Number/Temperature: 1 / 3.7 °C ___/___ °C ___/___ °C ___/___ °C

Thermometer ID: T007

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.

AY
Reviewed by (Project Manager)

12 / 3 /24
Date/Time Reviewed

Origins Laboratory

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

MCC24-3#6WH@2'
11/25/2024 2:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E4L0011-01 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**0.427**		0.100	mg/L	1	B4L0214	12/02/2024	12/03/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	**418**		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	
Residual Range Organics (C28-C40)	**187**		100	"	"	"	"	"	
Surrogate: o-Terphenyl	*88.9 %*		*50-150*			"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0263	12/02/2024	12/03/2024	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
Gasoline Range Hydrocarbons	**9.88**		0.200	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*109 %*		*70-130*			"	"	"	
Surrogate: Toluene-d8	*111 %*		*70-130*			"	"	"	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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

MCC24-3#6WH@2'
11/25/2024 2:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes

Origins Laboratory

E4L0011-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	*127 %*		*70-130*			*B4L0263*	*12/02/2024*	*12/03/2024*

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	**17.4**	0.435	"	"	"	"	"

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	**0.007**	0.002	mg/kg	1	B4L0243	12/02/2024	12/03/2024	
2-Methylnaphthalene	**0.006**	0.002	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	**0.033**	0.020	"	"	"	"	"	
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	I-01, Ua
Benzo (b) fluoranthene	**0.054**	0.020	"	"	"	"	"	I-01
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	I-01, Ua
Chrysene	ND	0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	I-01, Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

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MCC24-3#6WH@2'
11/25/2024 2:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E4L0011-01 (Soil)									
PAH by EPA 8270E extracted via 3580A									
Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4L0243	12/02/2024	12/03/2024	I-01, Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	**0.108**		0.020	"	"	"	"	"	
Surrogate: Fluorene-d10	*86.2 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*105 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*87.7 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*104 %*		*60-130*			"	"	"	*I-01*
pH in Soil by 9045D									
pH	**8.01**			pH Units	1	B4L0228	12/02/2024	12/03/2024	
SAR by 20B Saturated Paste									
SAR	**29.4**		0.0100	SAR	1	B4L0221	12/02/2024	12/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**1.49**		0.00500	mmhos/cm	1	B4L0228	12/02/2024	12/03/2024	
Table 915 metals by EPA 6020B									
Arsenic	**5.11**		0.256	mg/kg	10	B4L0262	12/05/2024	12/07/2024	

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

MCC24-3#6WH@2'
11/25/2024 2:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E4L0011-01 (Soil)									
Table 915 metals by EPA 6020B									
Barium	**187**		8.83	mg/kg	10	B4L0262	12/05/2024	12/07/2024	
Cadmium	**0.155**		0.0883	"	"	"	"	"	
Copper	**11.4**		8.83	"	"	"	"	"	
Lead	**12.3**		0.883	"	"	"	"	"	
Nickel	**11.4**		0.883	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	Ua
Silver	ND		0.0883	"	"	"	"	"	Ua
Zinc	**42.3**		32.7	"	"	"	"	"	
Total Metals 7196A									
Hexavalent Chromium	ND	0.170	0.425	mg/kg dry	1	2724773	12/23/2024	12/30/2024	U

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

MCC24-3#6SHED@2'
11/25/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E4L0011-02 (Soil)									
Boron (DTPA Sorbitol)									
Boron	**0.105**		0.101	mg/L	1	B4L0214	12/02/2024	12/03/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0201	12/02/2024	12/07/2024	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	B4L0263	12/02/2024	12/03/2024	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
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	*103 %*		*70-130*			"	"	"	

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MCC24-3#6SHED@2'
11/25/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E4L0011-02 (Soil)									
GBTEX+TMBs by 8260D									
Surrogate: Toluene-d8	*102 %*		*70-130*			*B4L0263*	*12/02/2024*	*12/03/2024*	
Surrogate: 4-Bromofluorobenzene	*94.2 %*		*70-130*			*"*	*"*	*"*	
Metals by Saturated Paste by EPA 6010									
Calcium	**1.32**		0.499	meq/L	10	[CALC]	12/02/2024	12/03/2024	
Magnesium	**0.825**		0.823	"	"	"	"	"	
Sodium	**1.50**		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0243	12/02/2024	12/03/2024	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
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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MCC24-3#6SHED@2'
11/25/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E4L0011-02 (Soil)									
PAH by EPA 8270E extracted via 3580A									
Fluorene	ND		0.020	mg/kg	1	B4L0243	12/02/2024	12/03/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua
Surrogate: Fluorene-d10	*96.7 %*		*60-130*			"	"	"	
Surrogate: Anthracene-d10	*97.3 %*		*60-130*			"	"	"	
Surrogate: Pyrene-d10	*117 %*		*60-130*			"	"	"	
Surrogate: Benzo (a) pyrene-d12	*103 %*		*60-130*			"	"	"	
pH in Soil by 9045D									
pH	**8.34**			pH Units	1	B4L0228	12/02/2024	12/03/2024	
SAR by 20B Saturated Paste									
SAR	**1.45**		0.0100	SAR	1	B4L0221	12/02/2024	12/03/2024	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	**0.472**		0.00500	mmhos/cm	1	B4L0228	12/02/2024	12/03/2024	
Table 915 metals by EPA 6020B									

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

MCC24-3#6SHED@2'
11/25/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Origins Laboratory									
E4L0011-02 (Soil)									
Table 915 metals by EPA 6020B									
Arsenic	**3.86**		0.262	mg/kg	10	B4L0262	12/05/2024	12/07/2024	
Barium	**225**		9.02	"	"	"	"	"	
Cadmium	**0.142**		0.0902	"	"	"	"	"	
Copper	ND		9.02	"	"	"	"	"	Ua
Lead	**7.79**		0.902	"	"	"	"	"	
Nickel	**8.64**		0.902	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	Ua
Silver	ND		0.0902	"	"	"	"	"	Ua
Zinc	ND		33.4	"	"	"	"	"	Ua
Total Metals 7196A									
Hexavalent Chromium	ND	0.160	0.399	mg/kg dry	1	2724773	12/23/2024	12/30/2024	U

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Joel Mason
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 B4L0201 - EPA 3550B										
Blank (B4L0201-BLK1)				Prepared: 12/02/2024 Analyzed: 12/06/2024						
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	*21*		*"*	*24.9*		*83.2*	*50-150*			

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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 B4L0201 - EPA 3550B										
LCS (B4L0201-BS1)					Prepared: 12/02/2024 Analyzed: 12/06/2024					
Diesel (C10-C28)	889	50.0	mg/kg	1000		88.9	70-130			
Residual Range Organics (C28-C40)	926	200	"	1000		92.6	70-130			
Surrogate: o-Terphenyl	*45*		*"*	*49.8*		*89.9*	*50-150*			

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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 B4L0201 - EPA 3550B										
Matrix Spike (B4L0201-MS1)		**Source: E4K0858-01**			Prepared: 12/02/2024 Analyzed: 12/06/2024					
Diesel (C10-C28)	909	50.0	mg/kg	1000	ND	90.9	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	70-130			
Surrogate: o-Terphenyl	*43*		*"*	*49.8*		*85.6*	*50-150*			

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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 B4L0201 - EPA 3550B										
Matrix Spike Dup (B4L0201-MSD1)		**Source: E4K0858-01**			Prepared: 12/02/2024 Analyzed: 12/06/2024					
Diesel (C10-C28)	886	50.0	mg/kg	1000	ND	88.6	70-130	2.55	35	
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	70-130	2.47	35	
Surrogate: o-Terphenyl	*43*		*"*	*49.8*		*85.6*	*50-150*			

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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 B4L0263 - EPA 5030 (soil)										
Blank (B4L0263-BLK1)				Prepared: 12/02/2024 Analyzed: 12/03/2024						
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	*0.11*		"	*0.125*		*91.8*	*70-130*			
Surrogate: Toluene-d8	*0.14*		"	*0.125*		*109*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.12*		"	*0.125*		*92.6*	*70-130*			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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112 High St.
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 B4L0263 - EPA 5030 (soil)										
LCS (B4L0263-BS1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0927	0.00200	"	0.100		92.7	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0959	0.00380	"	0.100		95.9	70-130			
Toluene	0.0978	0.00200	"	0.100		97.8	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.11*		"	*0.125*		*91.9*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*103*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*101*	*70-130*			

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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 B4L0263 - EPA 5030 (soil)										
Matrix Spike (B4L0263-MS1)		**Source: E4L0010-01**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
1,2,4-Trimethylbenzene	0.0769	0.00200	mg/kg	0.100	ND	76.9	70-130			
1,3,5-Trimethylbenzene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
Benzene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
Ethylbenzene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
Naphthalene	0.0825	0.00380	"	0.100	ND	82.5	70-130			
Toluene	0.0842	0.00200	"	0.100	ND	84.2	70-130			
o-Xylene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.12*		"	*0.125*		*96.6*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*104*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*101*	*70-130*			

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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 B4L0263 - EPA 5030 (soil)										
Matrix Spike Dup (B4L0263-MSD1)		**Source: E4L0010-01**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
1,2,4-Trimethylbenzene	0.0731	0.00200	mg/kg	0.100	ND	73.1	70-130	5.15	20	
1,3,5-Trimethylbenzene	0.0727	0.00200	"	0.100	ND	72.7	70-130	4.62	20	
Benzene	0.0802	0.00200	"	0.100	ND	80.2	70-130	3.26	20	
Ethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130	4.47	20	
Naphthalene	0.0800	0.00380	"	0.100	ND	80.0	70-130	3.10	20	
Toluene	0.0799	0.00200	"	0.100	ND	79.9	70-130	5.24	20	
o-Xylene	0.0835	0.00200	"	0.100	ND	83.5	70-130	4.01	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130	4.55	20	
Surrogate: 1,2-Dichloroethane-d4	*0.12*		"	*0.125*		*97.8*	*70-130*			
Surrogate: Toluene-d8	*0.13*		"	*0.125*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*0.13*		"	*0.125*		*103*	*70-130*			

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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

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 B4L0262 - EPA 3050B										
Blank (B4L0262-BLK1)					Prepared: 12/05/2024 Analyzed: 12/07/2024					
Arsenic	ND	0.290	mg/kg							Ua
Barium	ND	10.0	"							Ua
Cadmium	ND	0.100	"							Ua
Copper	ND	10.0	"							Ua
Lead	ND	1.00	"							Ua
Nickel	ND	1.00	"							Ua
Selenium	ND	0.260	"							Ua
Silver	ND	0.100	"							Ua
Zinc	ND	37.0	"							Ua
LCS (B4L0262-BS1)					Prepared: 12/05/2024 Analyzed: 12/07/2024					
Arsenic	5.75	0.290	mg/kg	5.00		115	80-120			
Barium	585	10.0	"	500		117	80-120			
Cadmium	5.84	0.100	"	5.00		117	80-120			
Copper	53.9	10.0	"	50.0		108	80-120			
Lead	5.66	1.00	"	5.00		113	80-120			
Nickel	5.82	1.00	"	5.00		116	80-120			
Selenium	5.83	0.260	"	5.00		117	80-120			
Silver	5.85	0.100	"	5.00		117	80-120			
Zinc	56.3	37.0	"	50.0		113	80-120			
Matrix Spike (B4L0262-MS1)					**Source: E4L0008-01** Prepared: 12/05/2024 Analyzed: 12/07/2024					

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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 B4L0262 - EPA 3050B										
Matrix Spike (B4L0262-MS1)		**Source: E4L0008-01**			Prepared: 12/05/2024 Analyzed: 12/07/2024					
Arsenic	7.62	0.269	mg/kg	4.64	3.13	96.7	75-125			
Barium	599	9.29	"	464	86.6	110	75-125			
Cadmium	5.07	0.0929	"	4.64	0.0882	107	75-125			
Copper	51.8	9.29	"	46.4	5.03	101	75-125			
Lead	10.7	0.929	"	4.64	5.40	114	75-125			
Nickel	11.5	0.929	"	4.64	6.78	102	75-125			
Selenium	5.13	0.242	"	4.64	0.152	107	75-125			
Silver	5.01	0.0929	"	4.64	0.0176	107	75-125			
Zinc	71.4	34.4	"	46.4	25.2	99.4	75-125			
Matrix Spike Dup (B4L0262-MSD1)		**Source: E4L0008-01**			Prepared: 12/05/2024 Analyzed: 12/07/2024					
Arsenic	8.23	0.258	mg/kg	4.45	3.13	115	75-125	7.74	20	
Barium	612	8.89	"	445	86.6	118	75-125	2.14	20	
Cadmium	5.18	0.0889	"	4.45	0.0882	115	75-125	2.20	20	
Copper	54.8	8.89	"	44.5	5.03	112	75-125	5.63	20	
Lead	11.7	0.889	"	4.45	5.40	143	75-125	9.54	20	QM-07
Nickel	12.6	0.889	"	4.45	6.78	132	75-125	9.19	20	QM-07
Selenium	5.12	0.231	"	4.45	0.152	112	75-125	0.108	20	
Silver	5.16	0.0889	"	4.45	0.0176	116	75-125	2.99	20	
Zinc	76.4	32.9	"	44.5	25.2	115	75-125	6.75	20	

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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 B4L0243 - EPA 3580										
Blank (B4L0243-BLK1)				Prepared: 12/02/2024 Analyzed: 12/03/2024						
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*		*101*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*97.9*	*60-130*			
Surrogate: Pyrene-d10	*220*		*"*	*200*		*108*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*190*		*"*	*200*		*95.0*	*60-130*			
LCS (B4L0243-BS1)				Prepared: 12/02/2024 Analyzed: 12/03/2024						
1-Methylnaphthalene	0.213	0.002	mg/kg	0.200		107	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200		104	70-130			
Acenaphthene	0.207	0.020	"	0.200		104	70-130			
Anthracene	0.189	0.020	"	0.200		94.5	70-130			

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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 B4L0243 - EPA 3580										
LCS (B4L0243-BS1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.6	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.222	0.020	"	0.200		111	70-130			
Benzo (g,h,i) perylene	0.211	0.020	"	0.200		106	70-130			
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Chrysene	0.202	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.230	0.020	"	0.200		115	70-130			
Fluoranthene	0.240	0.020	"	0.200		120	70-130			
Fluorene	0.209	0.020	"	0.200		104	70-130			
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200		114	70-130			
Naphthalene	0.207	0.002	"	0.200		103	70-130			
Phenanthrene	0.210	0.020	"	0.200		105	70-130			
Pyrene	0.234	0.020	"	0.200		117	70-130			
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*100*	*60-130*			
Surrogate: Anthracene-d10	*190*		*"*	*200*		*94.0*	*60-130*			
Surrogate: Pyrene-d10	*230*		*"*	*200*		*114*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*190*		*"*	*200*		*93.4*	*60-130*			
Matrix Spike (B4L0243-MS1)		**Source: E4L0010-01**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
1-Methylnaphthalene	0.259	0.002	mg/kg	0.200	0.031	114	70-130			
2-Methylnaphthalene	0.266	0.002	"	0.200	0.034	116	70-130			
Acenaphthene	0.262	0.020	"	0.200	ND	131	70-130			
Anthracene	0.252	0.020	"	0.200	0.015	118	70-130			
Benzo (a) anthracene	0.261	0.005	"	0.200	0.013	124	70-130			
Benzo (a) pyrene	0.238	0.020	"	0.200	0.006	116	70-130			
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.021	84.6	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	0.030	91.8	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 B4L0243 - EPA 3580										
Matrix Spike (B4L0243-MS1)		**Source: E4L0010-01**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
Benzo (k) fluoranthene	0.204	0.020	mg/kg	0.200	0.003	101	70-130			
Chrysene	0.293	0.020	"	0.200	0.018	137	70-130			QM-07
Dibenz (a,h) anthracene	0.226	0.020	"	0.200	0.003	111	70-130			
Fluoranthene	0.185	0.020	"	0.200	0.008	88.3	70-130			
Fluorene	0.255	0.020	"	0.200	0.022	117	70-130			
Indeno (1,2,3-cd) pyrene	0.240	0.020	"	0.200	0.005	118	70-130			
Naphthalene	0.233	0.002	"	0.200	0.007	113	70-130			
Phenanthrene	0.300	0.020	"	0.200	0.069	115	70-130			
Pyrene	0.215	0.020	"	0.200	0.052	81.6	70-130			
Surrogate: Fluorene-d10	*190*		*ug/kg*	*200*		*94.5*	*60-130*			
Surrogate: Anthracene-d10	*220*		*"*	*200*		*111*	*60-130*			
Surrogate: Pyrene-d10	*150*		*"*	*200*		*77.0*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*210*		*"*	*200*		*107*	*60-130*			
Matrix Spike Dup (B4L0243-MSD1)		**Source: E4L0010-01**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
1-Methylnaphthalene	0.256	0.002	mg/kg	0.200	0.031	112	70-130	1.24	20	
2-Methylnaphthalene	0.251	0.002	"	0.200	0.034	109	70-130	5.67	20	
Acenaphthene	0.241	0.020	"	0.200	ND	121	70-130	8.15	20	
Anthracene	0.238	0.020	"	0.200	0.015	111	70-130	5.98	20	
Benzo (a) anthracene	0.248	0.005	"	0.200	0.013	117	70-130	5.07	20	
Benzo (a) pyrene	0.227	0.020	"	0.200	0.006	111	70-130	4.43	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	0.021	92.0	70-130	7.47	20	
Benzo (g,h,i) perylene	0.217	0.020	"	0.200	0.030	93.6	70-130	1.66	20	
Benzo (k) fluoranthene	0.228	0.020	"	0.200	0.003	113	70-130	10.9	20	
Chrysene	0.326	0.020	"	0.200	0.018	154	70-130	10.6	20	QM-07
Dibenz (a,h) anthracene	0.230	0.020	"	0.200	0.003	114	70-130	1.93	20	
Fluoranthene	0.195	0.020	"	0.200	0.008	93.2	70-130	5.17	20	

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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 B4L0243 - EPA 3580										
Matrix Spike Dup (B4L0243-MSD1)		**Source: E4L0010-01**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
Fluorene	0.245	0.020	mg/kg	0.200	0.022	112	70-130	3.82	20	
Indeno (1,2,3-cd) pyrene	0.232	0.020	"	0.200	0.005	114	70-130	3.22	20	
Naphthalene	0.219	0.002	"	0.200	0.007	106	70-130	6.35	20	
Phenanthrene	0.257	0.020	"	0.200	0.069	93.9	70-130	15.3	20	
Pyrene	0.230	0.020	"	0.200	0.052	88.6	70-130	6.35	20	
Surrogate: Fluorene-d10	*200*		*ug/kg*	*200*		*99.7*	*60-130*			
Surrogate: Anthracene-d10	*200*		*"*	*200*		*100*	*60-130*			
Surrogate: Pyrene-d10	*190*		*"*	*200*		*93.8*	*60-130*			
Surrogate: Benzo (a) pyrene-d12	*200*		*"*	*200*		*99.5*	*60-130*			

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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 B4L0214 - DTPA Sorbitol Preparation										
Blank (B4L0214-BLK1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Boron	ND	0.100	mg/L							Ua
Duplicate (B4L0214-DUP1)		**Source: E4K0902-08**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
Boron	0.246	0.0989	mg/L		0.235			4.64	50	
Batch B4L0221 - Saturated Paste Metals										
Blank (B4L0221-BLK1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Calcium PPM	ND	10.0	mg/L							Ua
SAR	ND	0.0100	SAR							Ua
Magnesium PPM	ND	10.0	mg/L							Ua
Sodium PPM	ND	10.0	"							Ua
Duplicate (B4L0221-DUP1)		**Source: E4K0902-08**			Prepared: 12/02/2024 Analyzed: 12/03/2024					
Calcium PPM	12.8	10.0	mg/L		12.9			0.776	50	
SAR	ND	0.0100	SAR		2.73				200	Ua
Magnesium PPM	8.01	10.0	mg/L		8.07			0.746	50	Ua
Sodium PPM	52.8	10.0	"		50.8			3.77	50	

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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 B4L0228 - Saturated Paste pH/EC										
Blank (B4L0228-BLK1)					Prepared: 12/02/2024 Analyzed: 12/03/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							Ua
Duplicate (B4L0228-DUP1)			**Source: E4K0902-08**		Prepared: 12/02/2024 Analyzed: 12/03/2024					
pH	8.54		pH Units		8.50			0.469	25	
Specific Conductance (EC)	0.396	0.00500	mmhos/cm		0.398			0.378	25	

Origins Laboratory

Jen Pellegrini For 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

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 2724773 - SW846 3060A										
BLANK (1205957887-BLK)					Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.350	mg/kg				-			U
LCS (1205957888-BKS)					Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	2.69	0.269	mg/kg	2.69		99.9	80-120			
DUP (1205957889 D)		**Source: 698002001**			Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.326	mg/kg dry		<0.130		0-50	N/A	50	U
MS (1205957890 S)		**Source: 698002001**			Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	3.06	0.353	mg/kg dry	3.53	<0.141	83.6	75-125			
DUP (1205957891 D)		**Source: 698002002**			Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	ND	0.376	mg/kg dry		<0.150		0-50	N/A	50	U
MS (1205957892 S)		**Source: 698002002**			Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	2.08	0.358	mg/kg dry	3.58	<0.143	54.8	75-125			
ILCS (1205957893-ILCS)					Prepared: 12/23/2024 Analyzed: 12/30/2024					
Hexavalent Chromium	7.99	0.379	mg/kg	7.58		105	80-120			

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Joel Mason
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Project: McCormick 24-3 #6

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

I-01 Due to matrix interference, the sample cannot be accurately quantified. The reported result is qualitative.

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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