

May 16, 2022

Absaroka

Max Moran

112 High St.

Buffalo

WY

82834

**Project Name - CIT MPU 35N Line Leak**

**Project Number - CIT.CO.0607.01**

Attached are your analytical results for CIT MPU 35N Line Leak received by Origins Laboratory, Inc. April 12, 2022. This project is associated with Origins project number Y204230-01.

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



Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MPU-SS-01@2'	Y204230-01	Soil	April 12, 2022 11:00	04/12/2022 14:35
MPU-SS-02@2'	Y204230-02	Soil	April 12, 2022 11:05	04/12/2022 14:35
MPU-SS-03@2'	Y204230-03	Soil	April 12, 2022 11:10	04/12/2022 14:35
MPU-SS-04@2'	Y204230-04	Soil	April 12, 2022 11:15	04/12/2022 14:35
MPU-SS-05@3'	Y204230-05	Soil	April 12, 2022 11:20	04/12/2022 14:35
MPU-BG-SS-01@2'	Y204230-06	Soil	April 12, 2022 11:25	04/12/2022 14:35

#### Chain of Custody Modification Request

On 5/2/2022, Max Moran from Absaroka Energy contacted Jordan Bynon via email regarding Y204230 requesting that SAR, Boron, and Arsenic be added to MPU\_BG\_SS-01@2'.

Requested modifications to the chain of custody were made by Jordan Bynon on 5/2/2022.

Origins Laboratory, Inc.



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**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

72047230

page ☐ of ☐

Client: Absaroka Energy and Environmental Solutions  
Address: 112 High St. Buffalo, WY 82834



Project Manager: Max Moran  
Project Name: CIT MPU 35N Line Leak  
Project Number: CIT.CO.0607.01

Telephone Number: 720.352.5326  
Email Address: Max.Moran@AbsarokaSolutions.com

Samples Collected By: Max

Updated per Max's email on 4/13

MOIS email 61

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			Other
MPU-SS-0102	4/12/22	1100	2	X				X			X	1	
MPU-SS-0202		1105	1								X	2	
MPU-SS-0302		1110	1								X	3	
MPU-SS-0402		1115	1								X	4	
MPU-SS-0503		1120	1								X	5	
MPU-SS-0102		1125	1								Hold	6	
												7	
												8	
												9	
												10	
Relinquished By: 	Date: 4/12/22	Time: 1435	Received By: 				Time: 1435			Date: 4/12/22			Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:				Time:			Date:			

Date Results Needed: 11.8

Origins Laboratory, Inc.

*J. Bynon*

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WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: Y204230 Client: Absaroka  
Client Project ID: CIT MPU 35N

Checklist Completed by: JB Shipped Via: HS  
Date/time completed: 4/12/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 11.8 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JBP

Date/Time Reviewed 4/13/22

Origins Laboratory, Inc.

*J. Bynon*

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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-01@2'**

**4/12/2022 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	8.09	0.100	mg/L	1	B2D1315	04/13/2022	04/14/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1301	04/13/2022	04/15/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	112 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1235	04/12/2022	04/21/2022	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	117 %	70-130	"	"	"
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## MPU-SS-01@2'

4/12/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y204230-01 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %	70-130	B2D12 35	04/12/2022	04/21/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	80.6	4.99	meq/L	100	[CALC]	04/13/2022	04/14/2022
Magnesium	30.9	8.23	"	"	"	"	"
Sodium	420	4.35	"	"	"	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	0.0509	0.00182	0.00335	mg/Kg	5	L611209	04/16/2022	04/20/2022	
2-Methylnaphthalene	0.0367	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	0.00718	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00213	0.00167	0.00335	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.0035	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0198	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00212	0.00197	0.00335	"	"	"	"	"	J
Fluorene	0.038	0.00143	0.00335	"	"	"	"	"	

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## MPU-SS-01@2'

4/12/2022 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204230-01 (Soil)

### PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L611209	04/16/2022	04/20/2022
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	0.0109	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	34.5 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.32	pH Units	1	B2D1326	04/13/2022	04/14/2022
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### SAR by 20B Saturated Paste

SAR	56.3	SAR	1	B2D1317	04/13/2022	04/14/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	43.2	0.00500	mmhos/cm	1	B2D1322	04/13/2022	04/14/2022
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### Total Metals by 6020B

Arsenic	3.71	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
Barium	197	0.042	0.25	"	"	"	"	"

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Project: CIT MPU 35N Line Leak

**MPU-SS-01@2'**

**4/12/2022 11:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y204230-01 (Soil)**

**Total Metals by 6020B**

Cadmium	0.139	0.0259	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	J
Copper	14.1	0.0806	0.25	"	"	"	"	"	
Lead	11.1	0.031	0.25	"	"	"	"	"	
Nickel	18.4	0.0633	0.25	"	"	"	"	"	
Selenium	0.528	0.103	0.25	"	"	"	"	"	
Silver	0.0323	0.0067	0.25	"	"	"	"	"	J
Zinc	60.3	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611907	04/12/2022	04/20/2022	
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Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-02@2'**

**4/12/2022 11:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	6.42	0.100	mg/L	1	B2D1315	04/13/2022	04/14/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1301	04/13/2022	04/15/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	108 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1235	04/12/2022	04/21/2022	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	120 %	70-130			"	"	"	
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Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-02@2'**

**4/12/2022 11:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.9 %	70-130	B2D12 35	04/12/2022	04/21/2022
Surrogate: 4-Bromofluorobenzene	99.8 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	78.0	4.99	meq/L	100	[CALC]	04/13/2022	04/14/2022
Magnesium	22.1	8.23	"	"	"	"	"
Sodium	419	4.35	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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Project: CIT MPU 35N Line Leak

## MPU-SS-02@2'

4/12/2022 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204230-02 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	41.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	33.3 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.41	pH Units	1	B2D1326	04/13/2022	04/14/2022
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### SAR by 20B Saturated Paste

SAR	59.2	SAR	1	B2D1317	04/13/2022	04/14/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	41.7	0.00500	mmhos/cm	1	B2D1322	04/13/2022	04/14/2022
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### Total Metals by 6020B

Arsenic	4.57	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
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Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-02@2'**

**4/12/2022 11:05:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y204230-02 (Soil)**

**Total Metals by 6020B**

Barium	112	0.042	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	
Cadmium	0.149	0.0259	0.25	"	"	"	"	"	J
Copper	14.2	0.0806	0.25	"	"	"	"	"	
Lead	9.81	0.031	0.25	"	"	"	"	"	
Nickel	17.3	0.0633	0.25	"	"	"	"	"	
Selenium	0.526	0.103	0.25	"	"	"	"	"	
Silver	0.0358	0.0067	0.25	"	"	"	"	"	J
Zinc	58.5	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L611907	04/12/2022	04/20/2022	
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Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-03@2'**

**4/12/2022 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	5.71	0.0987	mg/L	1	B2D1315	04/13/2022	04/14/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1301	04/13/2022	04/15/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	109 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1235	04/12/2022	04/21/2022	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	119 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-03@2'**

**4/12/2022 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.6 %	70-130	B2D12 35	04/12/2022	04/21/2022
Surrogate: 4-Bromofluorobenzene	99.3 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	37.3	4.99	meq/L	100	[CALC]	04/13/2022	04/14/2022
Magnesium	57.0	8.23	"	"	"	"	"
Sodium	268	4.35	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

## MPU-SS-03@2'

4/12/2022 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204230-03 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	38.8 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.73	pH Units	1	B2D1326	04/13/2022	04/14/2022
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### SAR by 20B Saturated Paste

SAR	39.0	SAR	1	B2D1317	04/13/2022	04/14/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	28.5	0.00500	mmhos/cm	1	B2D1322	04/13/2022	04/14/2022
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### Total Metals by 6020B

Arsenic	3.49	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-03@2'**

**4/12/2022 11:10:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y204230-03 (Soil)**

**Total Metals by 6020B**

Barium	258	0.042	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	
Cadmium	0.193	0.0259	0.25	"	"	"	"	"	J
Copper	14.1	0.0806	0.25	"	"	"	"	"	
Lead	11.9	0.031	0.25	"	"	"	"	"	
Nickel	19.1	0.0633	0.25	"	"	"	"	"	
Selenium	0.648	0.103	0.25	"	"	"	"	"	
Silver	0.0306	0.0067	0.25	"	"	"	"	"	J
Zinc	60.7	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L611907	04/12/2022	04/20/2022	
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-04@2'**

**4/12/2022 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	9.53	0.0982	mg/L	1	B2D1315	04/13/2022	04/14/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1301	04/13/2022	04/15/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %	50-150	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1235	04/12/2022	04/21/2022	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	122 %	70-130	"	"	"
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-04@2'**

**4/12/2022 11:15:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	96.5 %	70-130	B2D12 35	04/12/2022	04/21/2022
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	92.0	4.99	meq/L	100	[CALC]	04/13/2022	04/14/2022
Magnesium	25.3	8.23	"	"	"	"	"
Sodium	492	4.35	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

## MPU-SS-04@2'

4/12/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204230-04 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	36.4 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.38	pH Units	1	B2D1326	04/13/2022	04/14/2022
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### SAR by 20B Saturated Paste

SAR	64.2	SAR	1	B2D1317	04/13/2022	04/14/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	47.6	0.00500	mmhos/cm	1	B2D1322	04/13/2022	04/14/2022
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### Total Metals by 6020B

Arsenic	4.13	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

## MPU-SS-04@2'

4/12/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204230-04 (Soil)

### Total Metals by 6020B

Barium	155	0.042	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	
Cadmium	0.133	0.0259	0.25	"	"	"	"	"	J
Copper	13.4	0.0806	0.25	"	"	"	"	"	
Lead	9.48	0.031	0.25	"	"	"	"	"	
Nickel	14.8	0.0633	0.25	"	"	"	"	"	
Selenium	0.521	0.103	0.25	"	"	"	"	"	
Silver	0.0331	0.0067	0.25	"	"	"	"	"	J
Zinc	54.4	0.534	2.5	"	"	"	"	"	

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611907	04/12/2022	04/20/2022	
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-05@3'**

**4/12/2022 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	10.3	0.0998	mg/L	1	B2D1315	04/13/2022	04/14/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D1301	04/13/2022	04/15/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	111 %	50-150	"	"	"	"	"	"
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D1235	04/12/2022	04/21/2022	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	123 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-05@3'**

**4/12/2022 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204230-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.7 %	70-130	B2D12 35	04/12/2022	04/21/2022
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	26.6	4.99	meq/L	100	[CALC]	04/13/2022	04/14/2022
Magnesium	36.4	8.23	"	"	"	"	"
Sodium	140	4.35	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000936	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000919	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00235	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00215	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00148	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00302	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000493	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

## MPU-SS-05@3'

4/12/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204230-05 (Soil)

### PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00319	0.000627	0.00067	mg/Kg	1	L611209	04/16/2022	04/20/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	45.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	37.8 %	29-110	"	"	"

### pH in Soil by 9045D

pH	7.41	pH Units	1	B2D1326	04/13/2022	04/14/2022
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### SAR by 20B Saturated Paste

SAR	24.9	SAR	1	B2D1317	04/13/2022	04/14/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	15.3	0.00500	mmhos/cm	1	B2D1322	04/13/2022	04/14/2022
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### Total Metals by 6020B

Arsenic	3.51	0.0855	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022
Barium	210	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**MPU-SS-05@3'**

**4/12/2022 11:20:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y204230-05 (Soil)**

**Total Metals by 6020B**

Cadmium	0.203	0.0259	0.25	mg/Kg	5	L610848	04/14/2022	04/18/2022	J
Copper	15.9	0.0806	0.25	"	"	"	"	"	
Lead	13.2	0.031	0.25	"	"	"	"	"	
Nickel	20.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.714	0.103	0.25	"	"	"	"	"	
Silver	0.0236	0.0067	0.25	"	"	"	"	"	J
Zinc	67.6	0.534	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L611907	04/12/2022	04/20/2022	
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

MPU-BG-SS-01@2'  
4/12/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y204230-06 (Soil)

## Boron (DTPA Sorbitol)

Boron	1.38	0.102	mg/L	1	B2E0223	05/02/2022	05/03/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	8.81	0.435	"	"	"	"	"

## SAR by 20B Saturated Paste

SAR	16.8		SAR	1	B2E0224	"	"
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## Total Metals by 6020B

Arsenic	5.64	0.0855	0.25	mg/Kg	5	L614375	05/04/2022	05/09/2022
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Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**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
<b>Batch B2D1235 - EPA 5030 (soil)</b>										
<b>Blank (B2D1235-BLK1)</b>					Prepared: 04/12/2022 Analyzed: 04/21/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**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
<b>Batch B2D1235 - EPA 5030 (soil)</b>										
<b>LCS (B2D1235-BS1)</b>					Prepared: 04/12/2022 Analyzed: 04/21/2022					
1,2,4-Trimethylbenzene	0.0987	0.00200	mg/kg	0.100		98.7	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.110	0.00200	"	0.100		110	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.0928	0.0100	"	0.100		92.8	70-130			
Toluene	0.0958	0.00200	"	0.100		95.8	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.209	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	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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**Batch B2D1235 - EPA 5030 (soil)**

Matrix Spike (B2D1235-MS1)		Source: Y204209-01			Prepared: 04/12/2022 Analyzed: 04/21/2022					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100	ND	119	70-130			
Benzene	0.111	0.00200	"	0.100	ND	111	70-130			
Ethylbenzene	0.126	0.00200	"	0.100	ND	126	70-130			
Naphthalene	0.0746	0.0100	"	0.100	0.00214	72.4	70-130			
Toluene	0.0995	0.00200	"	0.100	ND	99.5	70-130			
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130			
m,p-Xylene	0.235	0.00400	"	0.200	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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
<b>Batch B2D1235 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2D1235-MSD1)</b>		<b>Source: Y204209-01</b>			Prepared: 04/12/2022 Analyzed: 04/21/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	4.80	20	
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130	5.80	20	
Benzene	0.111	0.00200	"	0.100	ND	111	70-130	0.504	20	
Ethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130	7.19	20	
Naphthalene	0.0866	0.0100	"	0.100	0.00214	84.5	70-130	15.0	20	
Toluene	0.0990	0.00200	"	0.100	ND	99.0	70-130	0.524	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	5.31	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	7.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	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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**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 B2D1301 - EPA 3550B										
Blank (B2D1301-BLK1)					Prepared: 04/13/2022 Analyzed: 04/15/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

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Project: CIT MPU 35N Line Leak

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 B2D1301 - EPA 3550B

LCS (B2D1301-BS1)

Prepared: 04/13/2022 Analyzed: 04/15/2022

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000		124	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.7	50-150			

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Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

## 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 B2D1301 - EPA 3550B

Matrix Spike (B2D1301-MS1)		Source: Y204156-01			Prepared: 04/13/2022 Analyzed: 04/15/2022					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130			
Residual Range Organics (C28-C40)	1320	200	"	1000	ND	132	70-130			QM-07
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Project: CIT MPU 35N Line Leak

## 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 B2D1301 - EPA 3550B

Matrix Spike Dup (B2D1301-MSD1)		Source: Y204156-01			Prepared: 04/13/2022 Analyzed: 04/15/2022					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	4.98	35	
Residual Range Organics (C28-C40)	1250	200	"	1000	ND	125	70-130	5.32	35	
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Project: CIT MPU 35N Line Leak

## 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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## 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 B2D1322 - NO PREP

##### Blank (B2D1322-BLK1)

Prepared: 04/13/2022 Analyzed: 04/14/2022

Specific Conductance (EC) 0.000900 0.00500 mmhos/cm

##### Duplicate (B2D1322-DUP1)

Source: Y204210-02

Prepared: 04/13/2022 Analyzed: 04/14/2022

Specific Conductance (EC) 4.66 0.00500 mmhos/cm 4.89 4.82 25

#### Batch B2D1326 - NO PREP

##### Duplicate (B2D1326-DUP1)

Source: Y204210-02

Prepared: 04/13/2022 Analyzed: 04/14/2022

pH 7.49 pH Units 7.59 1.33 25

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Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

## Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L614375 - 3050B										
<b>MSD (L 85288-MSD-L614375)</b>			<b>Source: 85288</b>		Prepared: 05/04/2022 Analyzed: 05/09/2022					
Arsenic	3.13	0.0855	mg/Kg	2.49	1.01	85	75-125	1.5	80	
<b>MS (L 85288-MS-L614375)</b>			<b>Source: 85288</b>		Prepared: 05/04/2022 Analyzed: 05/09/2022					
Arsenic	3.18	0.0855	mg/Kg	2.44	1.01	89	75-125			
<b>LCS (LCS-L614375)</b>					Prepared: 05/04/2022 Analyzed: 05/09/2022					
Arsenic	2.54	0.0855	mg/Kg	2.5		102	80-120			
<b>LRB (LRB-L614375)</b>					Prepared: 05/04/2022 Analyzed: 05/09/2022					
Arsenic	ND	0.25	mg/Kg							

Origins Laboratory, Inc.



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Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611209 - 3550B

MSD (L 92038-MSD-L611209)		Source: 92038			Prepared: 04/16/2022 Analyzed: 04/20/2022					
Chrysene	0.0821	0.000624	mg/Kg	0.166	0.00125	48.7	30-130	1.2	30	
Pyrene	0.112	0.000643	"	0.166	0.00537	64.2	30-130	7.7	30	
Naphthalene	0.0862	0.000484	"	0.166	0.00244	50.4	30-130	2	30	
Indeno(1,2,3-cd)pyrene	0.0946	0.000627	"	0.166	92038	56.9	30-130	7.5	30	
Fluorene	0.125	0.000286	"	0.166	0.0138	66.9	30-130	22	30	
1-Methylnaphthalene	0.43	0.00728	"	0.166	0.0908	204	30-130	61.5	30	*
Dibenz(a,h)anthracene	0.0893	0.000614	"	0.166	92038	53.7	30-130	1.8	30	
Benzo(k)fluoranthene	0.0697	0.000437	"	0.166	0.00049	41.6	30-130	7.2	30	
Benzo(b)fluoranthene	0.0869	0.000585	"	0.166	0.000839	51.8	30-130	1	30	
Benzo(a)pyrene	0.0974	0.000468	"	0.166	0.000636	58.2	30-130	14	30	
Benzo(a)anthracene	0.0934	0.000493	"	0.166	0.00123	55.5	30-130	3.1	30	
Anthracene	0.0853	0.000334	"	0.166	0.00137	50.5	30-130	11.2	30	
Acenaphthene	0.0869	0.000304	"	0.166	0.0072	48	30-130	14	30	
2-Methylnaphthalene	0.724	0.0129	"	0.166	0.151	345	30-130	72.6	30	*
Fluoranthene	0.0802	0.000394	"	0.166	0.00328	46.3	30-130	3	30	
Surrogate: Nitrobenzene-d5	38.3		"	0.331	114	38.3	29-110			
Surrogate: 4-Terphenyl-d14	59.5		"	0.331	163	59.5	33-122			
Surrogate: 2-Fluorobiphenyl	48.3		"	0.331	141	48.3	33-115			

MS (L 92038-MS-L611209)		Source: 92038			Prepared: 04/16/2022 Analyzed: 04/20/2022					
Benzo(a)pyrene	0.0846	0.000468	mg/Kg	0.165	0.000636	50.8	30-130			
1-Methylnaphthalene	0.812	0.00728	"	0.165	0.0908	437	30-130			*
2-Methylnaphthalene	1.55	0.0129	"	0.165	0.151	848	30-130			*
Acenaphthene	0.1	0.000304	"	0.165	0.0072	56.2	30-130			
Indeno(1,2,3-cd)pyrene	0.102	0.000627	"	0.165	92038	61.8	30-130			
Anthracene	0.0762	0.000334	"	0.165	0.00137	45.3	30-130			
Pyrene	0.121	0.000643	"	0.165	0.00537	70	30-130			

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Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L611209 - 3550B**

MS (L 92038-MS-L611209)		Source: 92038			Prepared: 04/16/2022 Analyzed: 04/20/2022					
Naphthalene	0.088	0.000484	mg/Kg	0.165	0.00244	51.8	30-130			
Fluorene	0.156	0.000286	"	0.165	0.0138	86.1	30-130			
Fluoranthene	0.0827	0.000394	"	0.165	0.00328	48.1	30-130			
Dibenz(a,h)anthracene	0.091	0.000614	"	0.165	92038	55.1	30-130			
Chrysene	0.0811	0.000624	"	0.165	0.00125	48.3	30-130			
Benzo(k)fluoranthene	0.0648	0.000437	"	0.165	0.00049	38.9	30-130			
Benzo(b)fluoranthene	0.086	0.000585	"	0.165	0.000839	51.6	30-130			
Benzo(a)anthracene	0.0905	0.000493	"	0.165	0.00123	54.1	30-130			
Surrogate: 2-Fluorobiphenyl	43		"	0.33	141	43	33-115			
Surrogate: 4-Terphenyl-d14	57.5		"	0.33	163	57.5	33-122			
Surrogate: Nitrobenzene-d5	38.4		"	0.33	114	38.4	29-110			

LCS (LCS-L611209)		Prepared: 04/16/2022 Analyzed: 04/20/2022								
Naphthalene	0.0784	0.000484	mg/Kg	0.167		46.9	30-130			
Benzo(b)fluoranthene	0.0845	0.000585	"	0.167		50.5	30-130			
2-Methylnaphthalene	0.0815	0.000645	"	0.167		48.8	30-130			
Acenaphthene	0.0773	0.000304	"	0.167		46.2	30-130			
Anthracene	0.0922	0.000334	"	0.167		55.2	30-130			
Benzo(a)anthracene	0.0861	0.000493	"	0.167		51.5	30-130			
Benzo(a)pyrene	0.0887	0.000468	"	0.167		53.1	30-130			
Benzo(k)fluoranthene	0.0906	0.000437	"	0.167		54.2	30-130			
Chrysene	0.0813	0.000624	"	0.167		48.6	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.167		69.4	30-130			
Fluoranthene	0.0947	0.000394	"	0.167		56.7	30-130			
1-Methylnaphthalene	0.0848	0.000364	"	0.167		50.7	30-130			
Indeno(1,2,3-cd)pyrene	0.129	0.000627	"	0.167		77.2	30-130			
Pyrene	0.0955	0.000643	"	0.167		57.1	30-130			

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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L611209 - 3550B**

**LCS (LCS-L611209)**

Prepared: 04/16/2022 Analyzed: 04/20/2022

Fluorene	0.086	0.000286	mg/Kg	0.167		51.4	30-130			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			
Surrogate: Nitrobenzene-d5	42.3		"	0.333		42.3	29-110			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333		60.6	33-122			

**LRB (LRB-L611209)**

Prepared: 04/16/2022 Analyzed: 04/20/2022

Acenaphthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			
Surrogate: 4-Terphenyl-d14	54		"	0.333		54	33-122			
Surrogate: Nitrobenzene-d5	39.9		"	0.333		39.9	29-110			

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**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L610848 - 3050B</b>										
<b>MSD (L 92116-MSD-L610848)</b>			<b>Source: 92116</b>		Prepared: 04/14/2022 Analyzed: 04/18/2022					
Barium	97.3	0.042	mg/Kg	4.88	69.4	571	75-125	58.4	80	I, *
Copper	12.7	0.0806	"	2.44	7.11	229	75-125	42.1	80	I, *
Arsenic	9.99	0.0855	"	2.44	2.15	321	75-125	96.8	80	*
Cadmium	1.01	0.0259	"	0.488	0.0921	188	75-125	68.7	80	*
Nickel	13.4	0.0633	"	2.44	6.73	273	75-125	41	80	*
Selenium	3.55	0.103	"	4.88	0.394	65	75-125	1.9	80	*
Silver	0.542	0.0067	"	0.488	0.0197	107	75-125	16.1	80	
Zinc	68.7	0.534	"	24.4	28.6	164	75-125	32.4	80	*
Lead	8.64	0.031	"	2.44	7.18	60	75-125	20.6	80	I, *
<b>MS (L 92116-MS-L610848)</b>			<b>Source: 92116</b>		Prepared: 04/14/2022 Analyzed: 04/18/2022					
Copper	8.28	0.0806	mg/Kg	2.31	7.11	51	75-125			I, *
Lead	7.02	0.031	"	2.31	7.18	NR	75-125			I, *
Nickel	8.84	0.0633	"	2.31	6.73	91	75-125			
Selenium	3.62	0.103	"	4.62	0.394	70	75-125			*
Silver	0.461	0.0067	"	0.462	0.0197	95	75-125			
Cadmium	0.493	0.0259	"	0.462	0.0921	87	75-125			
Barium	53.3	0.042	"	4.62	69.4	NR	75-125			I, *
Arsenic	3.47	0.0855	"	2.31	2.15	57	75-125			*
Zinc	49.5	0.534	"	23.1	28.6	90	75-125			
<b>LCS (LCS-L610848)</b>			Prepared: 04/14/2022 Analyzed: 04/18/2022							
Arsenic	2.57	0.0855	mg/Kg	2.5		103	80-120			
Selenium	5.22	0.103	"	5		104	80-120			
Silver	0.522	0.0067	"	0.5		104	80-120			
Zinc	25.9	0.534	"	25		104	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			

Origins Laboratory, Inc.



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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

## Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L610848 - 3050B

#### LCS (LCS-L610848)

Prepared: 04/14/2022 Analyzed: 04/18/2022

Copper	2.48	0.0806	mg/Kg	2.5		99	80-120			
Nickel	2.49	0.0633	"	2.5		100	80-120			
Barium	5.17	0.042	"	5		103	80-120			
Cadmium	0.494	0.0259	"	0.5		99	80-120			

#### LRB (LRB-L610848)

Prepared: 04/14/2022 Analyzed: 04/18/2022

Selenium	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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## Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L611907 -										
<b>DUP (L 92062-DUP)</b>		<b>Source: 92062</b>			Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	ND	0.245	mg/Kg		92062	-		0	20	
<b>MS (L 92062-MS)</b>		<b>Source: 92062</b>			Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	3.82	0.244	mg/Kg	7.92	92062	48	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	6.09	0.244	mg/Kg	8		76	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 04/20/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Absaroka  
112 High St.  
Buffalo WY 82834

Max Moran  
Project Number: CIT.CO.0607.01  
Project: CIT MPU 35N Line Leak

### Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

I Recoveries affected by interferences or high background

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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