



June 14, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Bonanza - North Platte 21-24
Facility**

Project Number - [none]

Attached are your analytical results for Bonanza - North Platte 21-24 Facility received by Origins Laboratory, Inc. June 01, 2021. This project is associated with Origins project number Y106037-01.

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

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

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

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

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

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



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

Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Bonanza - North Platte 21-24 Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-SS-01@0-0.25'	Y106037-01	Soil	May 27, 2021 15:15	06/01/2021 16:12
TB-SS-02@0-0.25'	Y106037-02	Soil	May 27, 2021 15:17	06/01/2021 16:12
TB-SS-03@0-0.25'	Y106037-03	Soil	May 27, 2021 15:19	06/01/2021 16:12
TB-SS-04@0-0.25'	Y106037-04	Soil	May 27, 2021 15:21	06/01/2021 16:12
TB-SS-05@0-0.25'	Y106037-05	Soil	May 27, 2021 15:26	06/01/2021 16:12
TB-SS-06@0-0.25'	Y106037-06	Soil	May 27, 2021 15:28	06/01/2021 16:12
WV-SS-03@3'	Y106037-07	Soil	May 27, 2021 15:00	06/01/2021 16:12
WV-FS-01@6.5'	Y106037-08	Soil	May 27, 2021 15:05	06/01/2021 16:12

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y106037

Client: Eagle

Client Project ID: North Platte 21-24 Facility

Checklist Completed by: SG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/2/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) Jm

Date/Time Reviewed 6-3-12

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-01@0-0.25'
5/27/2021 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-01 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/03/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	74.5 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	TEM	06/01/2021	06/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-01@0-0.25'
 5/27/2021 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y106037-01 (Soil)

Metals by Saturated Paste

Calcium	0.137		meq/L	1	[CALC]	ZZZ	06/09/2021	06/09/2021	
Magnesium	0.0403		"	"	"	ZZZ	"	"	
Sodium	0.308		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L556738		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000256	0.00067	"	"	"		"	"	J
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	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-01@0-0.25'
5/27/2021 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-01 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	68.8 %	33-115			L5567 38		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	74.5 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	71.5 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	3.19		pH Units	1	B1F0409	DJL	06/04/2021	06/04/2021	
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SAR by 20B Saturated Paste

SAR	1.03		SAR	1	B1F0904	ZZZ	06/09/2021	06/09/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.149	0.00500	mmhos/cm	1	B1F0410	DJL	06/04/2021	06/04/2021	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-02@0-0.25'
5/27/2021 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-02 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/05/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	105 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	KDK	06/01/2021	06/02/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"	"	

Metals by Saturated Paste

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-02@0-0.25'
5/27/2021 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106037-02 (Soil)

Metals by Saturated Paste

Calcium	0.338		meq/L	1	[CALC]	ZZZ	06/04/2021	06/04/2021	
Magnesium	0.104		"	"	"	ZZZ	"	"	
Sodium	0.187		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L556738		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000302	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.00029	0.00067	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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Martin C Eckert III
 Project Number: [none]
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TB-SS-02@0-0.25'
5/27/2021 3:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-02 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	66.7 %	33-115			L5567 38		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	70.9 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	71.5 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	4.69		pH Units	1	B1F0409	DJL	06/04/2021	06/04/2021	
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SAR by 20B Saturated Paste

SAR	0.398		SAR	1	B1F0411	ZZZ	06/04/2021	06/04/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.198	0.00500	mmhos/cm	1	B1F0410	DJL	06/04/2021	06/04/2021	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-03@0-0.25'
5/27/2021 3:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-03 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/05/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	78.1 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	KDK	06/01/2021	06/02/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	79.1 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	122 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %	70-130			"	"	"	"	

Metals by Saturated Paste

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-03@0-0.25'
5/27/2021 3:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106037-03 (Soil)

Metals by Saturated Paste

Calcium	2.43		meq/L	1	[CALC]	ZZZ	06/04/2021	06/04/2021	
Magnesium	0.625		"	"	"	ZZZ	"	"	
Sodium	0.168		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L556738		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000337	0.00067	"	"	"		"	"	J
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	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-03@0-0.25'
5/27/2021 3:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-03 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	68 %	33-115			L5567 38		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	73.1 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	71.9 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	7.78		pH Units	1	B1F0409	DJL	06/04/2021	06/04/2021	
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SAR by 20B Saturated Paste

SAR	0.136		SAR	1	B1F0411	ZZZ	06/04/2021	06/04/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.379	0.00500	mmhos/cm	1	B1F0410	DJL	06/04/2021	06/04/2021	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-04@0-0.25'
5/27/2021 3:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-04 (Soil)

Boron (Sorbitol)

Boron	0.2		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	139	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/05/2021	
Residual Range Organics (C28-C40)	353	200	"	"	"	TEM	"	"	

Surrogate: o-Terphenyl	81.0 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	KDK	06/01/2021	06/02/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Benzene	ND	0.00200	"	"	"	KDK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	KDK	"	"	U
Toluene	ND	0.00200	"	"	"	KDK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	KDK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	110 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-04@0-0.25'
5/27/2021 3:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106037-04 (Soil)

Metals by Saturated Paste

Calcium	6.68		meq/L	1	[CALC]	ZZZ	06/04/2021	06/04/2021	
Magnesium	2.30		"	"	"	ZZZ	"	"	
Sodium	0.225		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00335	mg/Kg	5	L556738		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00335	"	"	"		"	"	
Acenaphthene	ND	0.00335	"	"	"		"	"	
Anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00335	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00335	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00335	"	"	"		"	"	
Chrysene	0.00197	0.00335	"	"	"		"	"	J
Dibenz(a,h)anthracene	ND	0.00335	"	"	"		"	"	
Fluoranthene	ND	0.00335	"	"	"		"	"	
Fluorene	ND	0.00335	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"		"	"	
Naphthalene	ND	0.00335	"	"	"		"	"	
Pyrene	ND	0.00335	"	"	"		"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-04@0-0.25'
5/27/2021 3:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-04 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	69.1 %	33-115			L5567 38		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	69.1 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	67.9 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	7.68		pH Units	1	B1F0409	DJL	06/04/2021	06/04/2021	
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SAR by 20B Saturated Paste

SAR	0.106		SAR	1	B1F0411	ZZZ	06/04/2021	06/04/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.05	0.00500	mmhos/cm	1	B1F0410	DJL	06/04/2021	06/04/2021	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-05@0-0.25'
5/27/2021 3:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-05 (Soil)

Boron (Sorbitol)

Boron	0.2		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	154	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/08/2021	
Residual Range Organics (C28-C40)	368	200	"	"	"	TEM	"	"	

Surrogate: o-Terphenyl	19.7 %	50-150			"	"	"	"	S-04
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	TEM	06/01/2021	06/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-05@0-0.25'
5/27/2021 3:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106037-05 (Soil)

Metals by Saturated Paste

Calcium	6.90		meq/L	1	[CALC]	ZZZ	06/04/2021	06/04/2021	
Magnesium	1.94		"	"	"	ZZZ	"	"	
Sodium	0.247		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00335	mg/Kg	5	L556738		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00335	"	"	"		"	"	
Acenaphthene	ND	0.00335	"	"	"		"	"	
Anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)anthracene	0.00833	0.00335	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00335	"	"	"		"	"	
Benzo(b)fluoranthene	0.00156	0.00335	"	"	"		"	"	J
Benzo(k)fluoranthene	ND	0.00335	"	"	"		"	"	
Chrysene	0.0153	0.00335	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00335	"	"	"		"	"	
Fluoranthene	ND	0.00335	"	"	"		"	"	
Fluorene	ND	0.00335	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"		"	"	
Naphthalene	ND	0.00335	"	"	"		"	"	
Pyrene	ND	0.00335	"	"	"		"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-05@0-0.25'
5/27/2021 3:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-05 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	64.3 %	33-115			L5567 38		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	62.5 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	60.1 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	7.44		pH Units	1	B1F0409	DJL	06/04/2021	06/04/2021	
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SAR by 20B Saturated Paste

SAR	0.117		SAR	1	B1F0411	ZZZ	06/04/2021	06/04/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.998	0.00500	mmhos/cm	1	B1F0410	DJL	06/04/2021	06/04/2021	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-06@0-0.25'
5/27/2021 3:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-06 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/05/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	79.7 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	TEM	06/01/2021	06/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-06@0-0.25'
5/27/2021 3:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106037-06 (Soil)

Metals by Saturated Paste

Calcium	1.15		meq/L	1	[CALC]	ZZZ	06/07/2021	06/08/2021	
Magnesium	0.216		"	"	"	ZZZ	"	"	
Sodium	0.360		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L556738		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000299	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000333	0.00067	"	"	"		"	"	J
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

TB-SS-06@0-0.25'
5/27/2021 3:28:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-06 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	66.4 %	33-115			L5567 38		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	68.8 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	70.6 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	7.93		pH Units	1	B1F0713	DJL	06/07/2021	06/08/2021	
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SAR by 20B Saturated Paste

SAR	0.435		SAR	1	B1F0716	ZZZ	06/07/2021	06/08/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.180	0.00500	mmhos/cm	1	B1F0715	DJL	06/07/2021	06/08/2021	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

WV-SS-03@3'
5/27/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-07 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	139	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/05/2021	
Residual Range Organics (C28-C40)	343	200	"	"	"	TEM	"	"	

Surrogate: o-Terphenyl	82.7 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	TEM	06/01/2021	06/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	0.00534	0.00200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	"	

Metals by Saturated Paste

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

WV-SS-03@3'
5/27/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106037-07 (Soil)

Metals by Saturated Paste

Calcium	0.410		meq/L	1	[CALC]	ZZZ	06/04/2021	06/04/2021	
Magnesium	0.157		"	"	"	ZZZ	"	"	
Sodium	0.0826		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00335	mg/Kg	5	L556738		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00335	"	"	"		"	"	
Acenaphthene	ND	0.00335	"	"	"		"	"	
Anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00335	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00335	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00335	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00335	"	"	"		"	"	
Chrysene	ND	0.00335	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00335	"	"	"		"	"	
Fluoranthene	ND	0.00335	"	"	"		"	"	
Fluorene	ND	0.00335	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00335	"	"	"		"	"	
Naphthalene	ND	0.00335	"	"	"		"	"	
Pyrene	ND	0.00335	"	"	"		"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

WV-SS-03@3'

5/27/2021 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-07 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	66.9 %	33-115			L5567 38		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	65.7 %	33-122			"	"	"	"	
Surrogate: Nitrobenzene-d5	64.8 %	29-110			"	"	"	"	

pH in Soil by EPA 9045D

pH	6.62		pH Units	1	B1F0409	DJL	06/04/2021	06/04/2021	
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SAR by 20B Saturated Paste

SAR	0.155		SAR	1	B1F0411	ZZZ	06/04/2021	06/04/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0861	0.00500	mmhos/cm	1	B1F0410	DJL	06/04/2021	06/04/2021	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

WV-FS-01@6.5'
5/27/2021 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.
Y106037-08 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]		06/03/2021	06/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1F0302	TEM	06/03/2021	06/05/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	TEM	"	"	U

Surrogate: o-Terphenyl	80.7 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1F0113	TEM	06/01/2021	06/03/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130			"	"	"	"	

Metals by Saturated Paste

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

WV-FS-01@6.5'
5/27/2021 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106037-08 (Soil)

Metals by Saturated Paste

Calcium	1.41		meq/L	1	[CALC]	ZZZ	06/04/2021	06/04/2021	
Magnesium	0.499		"	"	"	ZZZ	"	"	
Sodium	1.36		"	"	"	ZZZ	"	"	

PAH by EPA 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L556859		06/04/2021	06/04/2021	
2-Methylnaphthalene	ND	0.00067	"	"	"		"	"	
Acenaphthene	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	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

WV-FS-01@6.5'
5/27/2021 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106037-08 (Soil)

PAH by EPA 8270D SIM

Surrogate: 2-Fluorobiphenyl	55.5 %		33-115		L5568 59		06/04/2021	06/04/2021	
Surrogate: 4-Terphenyl-d14	65.2 %		33-122		"	"	"	"	
Surrogate: Nitrobenzene-d5	44.8 %		29-110		"	"	"	"	

pH in Soil by EPA 9045D

pH	7.60		pH Units	1	B1F0409	DJL	06/04/2021	06/04/2021	
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SAR by 20B Saturated Paste

SAR	1.39		SAR	1	B1F0411	ZZZ	06/04/2021	06/04/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.406	0.00500	mmhos/cm	1	B1F0410	DJL	06/04/2021	06/04/2021	
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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

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 B1F0113 - EPA 5030 (soil)

Blank (B1F0113-BLK1)

Prepared: 06/01/2021 Analyzed: 06/01/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	111		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

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 B1F0113 - EPA 5030 (soil)

LCS (B1F0113-BS1)

Prepared: 06/01/2021 Analyzed: 06/01/2021

1,2,4-Trimethylbenzene	0.0566	0.00200	mg/kg	0.0500		113	70-130			
Naphthalene	0.0524	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0560	0.00200	"	0.0500		112	70-130			
Benzene	0.0409	0.00200	"	0.0500		81.8	70-130			
Ethylbenzene	0.0556	0.00200	"	0.0500		111	70-130			
m,p-Xylene	0.110	0.00400	"	0.100		110	70-130			
o-Xylene	0.0562	0.00200	"	0.0500		112	70-130			
Toluene	0.0498	0.00200	"	0.0500		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

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 B1F0113 - EPA 5030 (soil)

Matrix Spike (B1F0113-MS1)	Source: Y105549-01			Prepared: 06/01/2021 Analyzed: 06/01/2021						
1,2,4-Trimethylbenzene	0.0547	0.00200	mg/kg	0.0500		109	70-130			
Naphthalene	0.0562	0.0100	"	0.0500		112	70-130			
1,3,5-Trimethylbenzene	0.0539	0.00200	"	0.0500		108	70-130			
Benzene	0.0414	0.00200	"	0.0500		82.7	70-130			
Ethylbenzene	0.0537	0.00200	"	0.0500		107	70-130			
m,p-Xylene	0.107	0.00400	"	0.100		107	70-130			
o-Xylene	0.0546	0.00200	"	0.0500		109	70-130			
Toluene	0.0485	0.00200	"	0.0500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 B1F0113 - EPA 5030 (soil)

Matrix Spike Dup (B1F0113-MSD1)	Source: Y105549-01			Prepared: 06/01/2021 Analyzed: 06/01/2021						
1,2,4-Trimethylbenzene	0.0534	0.00200	mg/kg	0.0500		107	70-130	2.41	20	
Naphthalene	0.0485	0.0100	"	0.0500		97.1	70-130	14.7	20	
1,3,5-Trimethylbenzene	0.0528	0.00200	"	0.0500		106	70-130	1.99	20	
Benzene	0.0401	0.00200	"	0.0500		80.3	70-130	2.99	20	
Ethylbenzene	0.0540	0.00200	"	0.0500		108	70-130	0.446	20	
m,p-Xylene	0.107	0.00400	"	0.100		107	70-130	0.281	20	
o-Xylene	0.0543	0.00200	"	0.0500		109	70-130	0.551	20	
Toluene	0.0476	0.00200	"	0.0500		95.2	70-130	1.91	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 B1F0302 - EPA 3550B										
Blank (B1F0302-BLK1)										
					Prepared: 06/03/2021 Analyzed: 06/07/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		73.9	50-150			

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 Project: Bonanza - North Platte 21-24 Facility

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 B1F0302 - EPA 3550B

LCS (B1F0302-BS1)

Prepared: 06/03/2021 Analyzed: 06/05/2021

Diesel (C10-C28)	864	50.0	mg/kg	1000		86.4	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000		87.6	70-130			
Surrogate: o-Terphenyl	51		"	50.0		101	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

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 B1F0302 - EPA 3550B

Matrix Spike (B1F0302-MS1)	Source: Y106038-01			Prepared: 06/03/2021 Analyzed: 06/05/2021						
Diesel (C10-C28)	858	50.0	mg/kg	1000	ND	85.8	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000	59.2	85.8	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.1	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

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 B1F0302 - EPA 3550B

Matrix Spike Dup (B1F0302-MSD1)	Source: Y106038-01			Prepared: 06/03/2021 Analyzed: 06/05/2021						
Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130	3.19	35	
Residual Range Organics (C28-C40)	918	200	"	1000	59.2	85.8	70-130	0.0173	35	
Surrogate: o-Terphenyl	47		"	50.0		93.1	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

PAH by EPA 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 L556859 - 3550B

MSD (L 92574-MSD-L556859)		Source: Y106037-08			Prepared: 06/04/2021 Analyzed: 06/04/2021					
Naphthalene	0.0956	0.000467	mg/Kg	0.167	<0.000467	57.2	30-130	5.8	30	
Indeno(1,2,3-cd)pyrene	0.102	0.000344	"	0.167	<0.000344	61	30-130	2.8	30	
Fluorene	0.111	0.000501	"	0.167	<0.000501	66.4	30-130	1.8	30	
Fluoranthene	0.125	0.000529	"	0.167	<0.000529	74.8	30-130	0	30	
Dibenz(a,h)anthracene	0.105	0.000279	"	0.167	<0.000279	62.8	30-130	2.8	30	
1-Methylnaphthalene	0.102	0.00048	"	0.167	<0.000480	61	30-130	3.7	30	
Benzo(k)fluoranthene	0.13	0.000486	"	0.167	<0.000486	77.8	30-130	12.2	30	
Benzo(a)pyrene	0.127	0.000133	"	0.167	<0.000133	76	30-130	3.2	30	
Pyrene	0.125	0.000387	"	0.167	<0.000387	74.8	30-130	0	30	
Anthracene	0.122	0.000426	"	0.167	<0.000426	73	30-130	1.6	30	
Acenaphthene	0.103	0.000431	"	0.167	<0.000431	61.6	30-130	0.9	30	
2-Methylnaphthalene	0.101	0.000542	"	0.167	<0.000542	60.4	30-130	4.1	30	
Benzo(b)fluoranthene	0.107	0.000138	"	0.167	<0.000138	64	30-130	11.4	30	
Chrysene	0.126	0.000256	"	0.167	<0.000256	75.4	30-130	3.2	30	
Benzo(a)anthracene	0.121	0.000441	"	0.167	<0.000441	72.4	30-130	2.5	30	
Surrogate: Nitrobenzene-d5	52.2		"	0.333	148	52.2	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333	215	73.8	33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333	183	63	33-115			

MS (L 92574-MS-L556859)		Source: Y106037-08			Prepared: 06/04/2021 Analyzed: 06/04/2021					
Fluorene	0.109	0.000501	mg/Kg	0.166	<0.000501	65.6	30-130			
Pyrene	0.125	0.000387	"	0.166	<0.000387	75.3	30-130			
Naphthalene	0.0902	0.000467	"	0.166	<0.000467	54.3	30-130			
1-Methylnaphthalene	0.0982	0.00048	"	0.166	<0.000480	59.1	30-130			
2-Methylnaphthalene	0.0969	0.000542	"	0.166	<0.000542	58.3	30-130			
Dibenz(a,h)anthracene	0.108	0.000279	"	0.166	<0.000279	65	30-130			
Anthracene	0.124	0.000426	"	0.166	<0.000426	74.6	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

PAH by EPA 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 L556859 - 3550B

MS (L 92574-MS-L556859)		Source: Y106037-08			Prepared: 06/04/2021 Analyzed: 06/04/2021					
Benzo(a)anthracene	0.118	0.000441	mg/Kg	0.166	<0.000441	71	30-130			
Benzo(a)pyrene	0.123	0.000133	"	0.166	<0.000133	74	30-130			
Benzo(b)fluoranthene	0.12	0.000138	"	0.166	<0.000138	72.2	30-130			
Benzo(k)fluoranthene	0.115	0.000486	"	0.166	<0.000486	69.2	30-130			
Chrysene	0.122	0.000256	"	0.166	<0.000256	73.4	30-130			
Acenaphthene	0.102	0.000431	"	0.166	<0.000431	61.4	30-130			
Indeno(1,2,3-cd)pyrene	0.105	0.000344	"	0.166	<0.000344	63.2	30-130			
Fluoranthene	0.125	0.000529	"	0.166	<0.000529	75.3	30-130			
Surrogate: 2-Fluorobiphenyl	62.9		"	0.332	183	62.9	33-115			
Surrogate: Nitrobenzene-d5	50		"	0.332	148	50	29-110			
Surrogate: 4-Terphenyl-d14	73.4		"	0.332	215	73.4	33-122			

LCS (LCS-L556859)		Prepared: 06/04/2021 Analyzed: 06/04/2021								
Chrysene	0.129	0.000256	mg/Kg	0.167		77.2	30-130			
Dibenz(a,h)anthracene	0.123	0.000279	"	0.167		73.6	30-130			
Fluoranthene	0.131	0.000529	"	0.167		78.4	30-130			
Fluorene	0.122	0.000501	"	0.167		73	30-130			
Indeno(1,2,3-cd)pyrene	0.119	0.000344	"	0.167		71.2	30-130			
Pyrene	0.129	0.000387	"	0.167		77.2	30-130			
Benzo(k)fluoranthene	0.122	0.000486	"	0.167		73	30-130			
Naphthalene	0.105	0.000467	"	0.167		62.8	30-130			
Benzo(b)fluoranthene	0.123	0.000138	"	0.167		73.6	30-130			
Benzo(a)pyrene	0.131	0.000133	"	0.167		78.4	30-130			
Benzo(a)anthracene	0.123	0.000441	"	0.167		73.6	30-130			
Anthracene	0.129	0.000426	"	0.167		77.2	30-130			
Acenaphthene	0.115	0.000431	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.111	0.000542	"	0.167		66.4	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

PAH by EPA 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 L556859 - 3550B

LCS (LCS-L556859)

Prepared: 06/04/2021 Analyzed: 06/04/2021

1-Methylnaphthalene	0.111	0.00048	mg/Kg	0.167		66.4	30-130			
Surrogate: 4-Terphenyl-d14	76.2		"	0.333		76.2	33-122			
Surrogate: Nitrobenzene-d5	58.5		"	0.333		58.5	29-110			
Surrogate: 2-Fluorobiphenyl	73.5		"	0.333		73.5	33-115			

LRB (LRB-L556859)

Prepared: 06/04/2021 Analyzed: 06/04/2021

Anthracene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54.3		"	0.333		54.3	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: 2-Fluorobiphenyl	68.7		"	0.333		68.7	33-115			

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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Bonanza - North Platte 21-24 Facility

PAH by EPA 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 L556738 - 3550B

MSD (L 91222-MSD-L556738)	Source: 91222			Prepared: 06/04/2021 Analyzed: 06/04/2021						
1-Methylnaphthalene	0.133	0.0024	mg/Kg	0.167	<0.00240	79.6	30-130	13.6	30	
Benzo(a)pyrene	0.162	0.000665	"	0.167	<0.000665	97	30-130	18.1	30	
Anthracene	0.131	0.00213	"	0.167	<0.00213	78.4	30-130	17.4	30	
Acenaphthene	0.126	0.00216	"	0.167	<0.00216	75.4	30-130	13.5	30	
Benzo(b)fluoranthene	0.0828	0.00069	"	0.167	<0.000690	49.5	30-130	12.4	30	
2-Methylnaphthalene	0.131	0.00271	"	0.167	<0.00271	78.4	30-130	13.8	30	
Pyrene	0.119	0.00194	"	0.167	<0.00194	71.2	30-130	12.5	30	
Benzo(k)fluoranthene	0.0912	0.00243	"	0.167	<0.00243	54.6	30-130	11.8	30	
Benzo(a)anthracene	0.134	0.00221	"	0.167	<0.00221	80.2	30-130	14.4	30	
Naphthalene	0.119	0.00234	"	0.167	<0.00234	71.2	30-130	14.4	30	
Indeno(1,2,3-cd)pyrene	0.0907	0.00172	"	0.167	<0.00172	54.3	30-130	19.4	30	
Fluorene	0.131	0.00251	"	0.167	<0.00251	78.4	30-130	14.7	30	
Fluoranthene	0.128	0.00265	"	0.167	<0.00265	76.6	30-130	15.1	30	
Dibenz(a,h)anthracene	0.0978	0.0014	"	0.167	<0.00140	58.5	30-130	19.2	30	
Chrysene	0.127	0.00128	"	0.167	<0.00128	76	30-130	12.5	30	
Surrogate: 4-Terphenyl-d14	79.5		"	0.333	234	79.5	33-122			
Surrogate: 2-Fluorobiphenyl	78.3		"	0.333	230	78.3	33-115			
Surrogate: Nitrobenzene-d5	72		"	0.333	221	72	29-110			

MS (L 91222-MS-L556738)	Source: 91222			Prepared: 06/04/2021 Analyzed: 06/04/2021						
Fluoranthene	0.11	0.00265	mg/Kg	0.167	<0.00265	65.8	30-130			
Benzo(k)fluoranthene	0.081	0.00243	"	0.167	<0.00243	48.5	30-130			
Naphthalene	0.103	0.00234	"	0.167	<0.00234	61.6	30-130			
Fluorene	0.113	0.00251	"	0.167	<0.00251	67.6	30-130			
Dibenz(a,h)anthracene	0.0806	0.0014	"	0.167	<0.00140	48.2	30-130			
Chrysene	0.112	0.00128	"	0.167	<0.00128	67	30-130			
Pyrene	0.105	0.00194	"	0.167	<0.00194	62.8	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L556738 - 3550B

MS (L 91222-MS-L556738)	Source: 91222			Prepared: 06/04/2021 Analyzed: 06/04/2021						
Indeno(1,2,3-cd)pyrene	0.0746	0.00172	mg/Kg	0.167	<0.00172	44.6	30-130			
1-Methylnaphthalene	0.116	0.0024	"	0.167	<0.00240	69.4	30-130			
Benzo(b)fluoranthene	0.0731	0.00069	"	0.167	<0.000690	43.7	30-130			
2-Methylnaphthalene	0.114	0.00271	"	0.167	<0.00271	68.2	30-130			
Acenaphthene	0.11	0.00216	"	0.167	<0.00216	65.8	30-130			
Anthracene	0.11	0.00213	"	0.167	<0.00213	65.8	30-130			
Benzo(a)anthracene	0.116	0.00221	"	0.167	<0.00221	69.4	30-130			
Benzo(a)pyrene	0.135	0.000665	"	0.167	<0.000665	80.8	30-130			
Surrogate: Nitrobenzene-d5	61.2		"	0.333	221	61.2	29-110			
Surrogate: 2-Fluorobiphenyl	68.1		"	0.333	230	68.1	33-115			
Surrogate: 4-Terphenyl-d14	68.7		"	0.333	234	68.7	33-122			

LCS (LCS-L556738)	Prepared: 06/04/2021 Analyzed: 06/04/2021									
Anthracene	0.12	0.000426	mg/Kg	0.167		71.8	30-130			
Pyrene	0.111	0.000387	"	0.167		66.4	30-130			
Naphthalene	0.113	0.000467	"	0.167		67.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0938	0.000344	"	0.167		56.1	30-130			
Fluorene	0.118	0.000501	"	0.167		70.6	30-130			
Fluoranthene	0.117	0.000529	"	0.167		70	30-130			
Dibenz(a,h)anthracene	0.0968	0.000279	"	0.167		57.9	30-130			
Chrysene	0.121	0.000256	"	0.167		72.4	30-130			
Benzo(k)fluoranthene	0.0858	0.000486	"	0.167		51.3	30-130			
Benzo(b)fluoranthene	0.0938	0.000138	"	0.167		56.1	30-130			
Acenaphthene	0.111	0.000431	"	0.167		66.4	30-130			
Benzo(a)anthracene	0.13	0.000441	"	0.167		77.8	30-130			
2-Methylnaphthalene	0.117	0.000542	"	0.167		70	30-130			
1-Methylnaphthalene	0.116	0.00048	"	0.167		69.4	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L556738 - 3550B

LCS (LCS-L556738)

Prepared: 06/04/2021 Analyzed: 06/04/2021

Benzo(a)pyrene	0.142	0.000133	mg/Kg	0.167		85	30-130			
Surrogate: Nitrobenzene-d5	71.4		"	0.333		71.4	29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			
Surrogate: 2-Fluorobiphenyl	75.6		"	0.333		75.6	33-115			

LRB (LRB-L556738)

Prepared: 06/04/2021 Analyzed: 06/04/2021

Acenaphthene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	67.5		"	0.333		67.5	33-115			
Surrogate: 4-Terphenyl-d14	71.7		"	0.333		71.7	33-122			
Surrogate: Nitrobenzene-d5	70.2		"	0.333		70.2	29-110			

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Notes and Definitions

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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