



January 02, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Gutttersen State CC 20-03 Project Number - [none]

Attached are your analytical results for Noble - Gutttersen State CC 20-03 received by Origins Laboratory, Inc. December 11, 2023. This project is associated with Origins project number Y312317-01.

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson State CC 20-03

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@5-7.5'	Y312317-01	Soil	December 11, 2023 9:36	12/11/2023 15:53
SB-01@17.5-20'	Y312317-02	Soil	December 11, 2023 9:53	12/11/2023 15:53
SB-02@5-7.5'	Y312317-03	Soil	December 11, 2023 10:00	12/11/2023 15:53
SB-03@5-7.5'	Y312317-04	Soil	December 11, 2023 10:50	12/11/2023 15:53
SB-04@5-7.5'	Y312317-05	Soil	December 11, 2023 10:35	12/11/2023 15:53
SB-05@5-7.5'	Y312317-06	Soil	December 11, 2023 10:20	12/11/2023 15:53
SB-06@2.5-5'	Y312317-07	Soil	December 11, 2023 12:23	12/11/2023 15:53
SB-06@5-7.5'	Y312317-08	Soil	December 11, 2023 12:27	12/11/2023 15:53
SB-07@2.5-5'	Y312317-09	Soil	December 11, 2023 13:08	12/11/2023 15:53
SB-08@2.5-5'	Y312317-10	Soil	December 11, 2023 12:39	12/11/2023 15:53
SB-09@2.5-5'	Y312317-11	Soil	December 11, 2023 13:23	12/11/2023 15:53
SB-10@2.5-5'	Y312317-12	Soil	December 11, 2023 12:53	12/11/2023 15:53

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson State CC 20-03

Origins Laboratory F-012207-01-R1
Sample Receipt Checklist Effective Date: 01/09/12

Origins Work Order: 43123.17 Client: Eagle
Client Project ID: GUTTERSON ST CC #20-03
Checklist Completed by: JHP/CHS Shipped Via: TLD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 12/12/22 Airbill #: N/A
Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
Cooler Number/Temperature: 1, 33 °C _____ °C _____ °C (Describe)
Thermometer ID: 7004

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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) [Signature]

Date/Time Reviewed 12/13/23

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-01@5-7.5'
12/11/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 90.8% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.0% 70-130 " " " "
 Surrogate: Toluene-d8 98.5% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 116% 70-130 " " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-01@5-7.5'

12/11/2023 9:36:00AM


Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	95.6 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	97.0 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-01@5-7.5'

12/11/2023 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-01 (Soil)

pH in Soil by 9045D

pH	7.87			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	0.919	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-01@17.5-20'
12/11/2023 9:53:00AM

Origins Laboratory, Inc.
Y312317-02 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 88.5% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.7% 70-130 " " " "
 Surrogate: Toluene-d8 97.8% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 115% 70-130 " " " "

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-01@17.5-20'
12/11/2023 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	95.2 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	98.4 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS

LABORATORY, INC

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-01@17.5-20'
12/11/2023 9:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-02 (Soil)

pH in Soil by 9045D

pH	7.44			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	0.932	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-02@5-7.5'
12/11/2023 10:00:00AM

Origins Laboratory, Inc.
Y312317-03 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 87.1% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.2% 70-130 " " " "
 Surrogate: Toluene-d8 99.0% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 118% 70-130 " " " "

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-02@5-7.5'
12/11/2023 10:00:00AM


Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	96.4 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	99.7 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	105 %	60-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-02@5-7.5'
12/11/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-03 (Soil)

pH in Soil by 9045D

pH	6.81			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	0.961	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-03@5-7.5'
12/11/2023 10:50:00AM

Origins Laboratory, Inc.
Y312317-04 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 90.2% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.8% 70-130 " " " "
 Surrogate: Toluene-d8 99.7% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 115% 70-130 " " " "

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-03@5-7.5'
12/11/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	93.7 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	99.1 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.

 Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-03@5-7.5'
12/11/2023 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-04 (Soil)

pH in Soil by 9045D

pH	7.10			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	0.634	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-04@5-7.5'
12/11/2023 10:35:00AM

Origins Laboratory, Inc.
Y312317-05 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.0% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.7% 70-130 " " " "
 Surrogate: Toluene-d8 97.9% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 118% 70-130 " " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-04@5-7.5'
12/11/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %		60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	95.2 %		60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	98.6 %		60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %		60-130	"	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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ORIGINS LABORATORY, INC

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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson State CC 20-03

SB-04@5-7.5'
12/11/2023 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-05 (Soil)

pH in Soil by 9045D

pH	7.34			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	0.843	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-05@5-7.5'
12/11/2023 10:20:00AM

Origins Laboratory, Inc.
Y312317-06 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 89.9% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.2% 70-130 " " " "
 Surrogate: Toluene-d8 97.8% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 115% 70-130 " " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-05@5-7.5'
12/11/2023 10:20:00AM


Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-06 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	96.0 %		60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	99.6 %		60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %		60-130	"	"	"	"	"	"

Origins Laboratory, Inc.

 Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-05@5-7.5'
12/11/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-06 (Soil)

pH in Soil by 9045D

pH	7.27			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	0.983	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-06@2.5-5'
12/11/2023 12:23:00PM

Origins Laboratory, Inc.
Y312317-07 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 95.5% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.6% 70-130 " " " "
 Surrogate: Toluene-d8 97.1% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 116% 70-130 " " " "

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-06@2.5-5'
12/11/2023 12:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-07 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %		60-130	"	"	"	"	"	"
Surrogate: Anthracene-d10	96.5 %		60-130	"	"	"	"	"	"
Surrogate: Pyrene-d10	101 %		60-130	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	107 %		60-130	"	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-06@2.5-5'
12/11/2023 12:23:00PM

Origins Laboratory, Inc.
Y312317-07 (Soil)

pH in Soil by 9045D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
pH	7.87			pH Units	1	B3L1317	12/13/2023	12/14/2023	

Total Metals by 6020B

Arsenic	1.03	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-06@5-7.5'
12/11/2023 12:27:00PM

Origins Laboratory, Inc.
Y312317-08 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.4% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/22/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.2% 70-130 " " " "
 Surrogate: Toluene-d8 97.9% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 114% 70-130 " " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-06@5-7.5'
12/11/2023 12:27:00PM

Origins Laboratory, Inc.
Y312317-08 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10 108 % 60-130
 Surrogate: Anthracene-d10 97.4 % 60-130
 Surrogate: Pyrene-d10 97.1 % 60-130
 Surrogate: Benzo (a) pyrene-d12 106 % 60-130

Origins Laboratory, Inc.

 Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-06@5-7.5'
12/11/2023 12:27:00PM

Origins Laboratory, Inc.
Y312317-08 (Soil)

pH in Soil by 9045D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
pH	7.35			pH Units	1	B3L1317	12/13/2023	12/14/2023	

Total Metals by 6020B

Arsenic	0.922	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-07@2.5-5'

12/11/2023 1:08:00PM

Origins Laboratory, Inc.
Y312317-09 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 92.0% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/22/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101% 70-130 " " " "
 Surrogate: Toluene-d8 97.2% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 117% 70-130 " " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-07@2.5-5'

12/11/2023 1:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-09 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	95.2 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	97.0 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	110 %	60-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-07@2.5-5'

12/11/2023 1:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-09 (Soil)

pH in Soil by 9045D

pH	7.65			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	1.19	0.0855	0.25	mg/Kg	5	L723868	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-08@2.5-5'
12/11/2023 12:39:00PM

Origins Laboratory, Inc.
Y312317-10 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 86.7% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/22/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101% 70-130 " " " "
 Surrogate: Toluene-d8 97.0% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 116% 70-130 " " " "

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-08@2.5-5'
12/11/2023 12:39:00PM

Origins Laboratory, Inc.
Y312317-10 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
PAH by EPA 8270E									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	94.6 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	98.3 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	104 %	60-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-08@2.5-5'
12/11/2023 12:39:00PM

Origins Laboratory, Inc.
Y312317-10 (Soil)

pH in Soil by 9045D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
pH	7.71			pH Units	1	B3L1317	12/13/2023	12/14/2023	

Total Metals by 6020B

Arsenic	1.11	0.0855	0.25	mg/Kg	5	L723869	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-09@2.5-5'

12/11/2023 1:23:00PM

Origins Laboratory, Inc.
Y312317-11 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 90.9% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/22/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.4% 70-130 " " " "
 Surrogate: Toluene-d8 98.6% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 115% 70-130 " " " "

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-09@2.5-5'

12/11/2023 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-11 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	96.0 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	98.5 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	108 %	60-130	"	"	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-09@2.5-5'

12/11/2023 1:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-11 (Soil)

pH in Soil by 9045D

pH	7.70			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	0.827	0.0855	0.25	mg/Kg	5	L723869	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-10@2.5-5'
12/11/2023 12:53:00PM

Origins Laboratory, Inc.
Y312317-12 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L1301	12/13/2023	12/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 92.2% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L1431	12/14/2023	12/22/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101% 70-130 " " " "
 Surrogate: Toluene-d8 97.1% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 117% 70-130 " " " "

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-10@2.5-5'
12/11/2023 12:53:00PM

Origins Laboratory, Inc.
Y312317-12 (Soil)

PAH by EPA 8270E

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L1319	12/13/2023	12/16/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	108 %		60-130	"	"	"	"	"	
Surrogate: Anthracene-d10	96.4 %		60-130	"	"	"	"	"	
Surrogate: Pyrene-d10	97.6 %		60-130	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130	"	"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

SB-10@2.5-5'
12/11/2023 12:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312317-12 (Soil)

pH in Soil by 9045D

pH	7.67			pH Units	1	B3L1317	12/13/2023	12/14/2023	
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Total Metals by 6020B

Arsenic	1.25	0.0855	0.25	mg/Kg	5	L723869	12/20/2023	12/27/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson State CC 20-03

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 B3L1301 - EPA 3550B

Blank (B3L1301-BLK1)

Prepared: 12/13/2023 Analyzed: 12/14/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	13		"	24.9		52.8	50-150			

Origins Laboratory, Inc.

Jen Pellegrini For Noelle Doyle Mathis, President

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 8000 W 44th Ave
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3L1301 - EPA 3550B

LCS (B3L1301-BS1)

Prepared: 12/13/2023 Analyzed: 12/14/2023

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3L1301 - EPA 3550B

Matrix Spike (B3L1301-MS1)

Source: Y312311-01

Prepared: 12/13/2023 Analyzed: 12/14/2023

Diesel (C10-C28)	963	50.0	mg/kg	1000	ND	96.3	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.2	50-150			

Origins Laboratory, Inc.

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3L1301 - EPA 3550B

Matrix Spike Dup (B3L1301-MSD1)

Source: Y312311-01

Prepared: 12/13/2023 Analyzed: 12/14/2023

Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	4.63	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	4.43	35	
Surrogate: o-Terphenyl	49		"	49.8		99.1	50-150			

Origins Laboratory, Inc.

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3L1431 - EPA 5030 (soil)

Prepared: 12/14/2023 Analyzed: 12/21/2023

Blank (B3L1431-BLK1)

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	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		116	70-130			

Origins Laboratory, Inc.

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3L1431 - EPA 5030 (soil)

LCS (B3L1431-BS1)

Prepared: 12/14/2023 Analyzed: 12/21/2023

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.0963	0.00200	"	0.100		96.3	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3L1431 - EPA 5030 (soil)

Matrix Spike (B3L1431-MS1)

Source: Y312317-01

Prepared: 12/14/2023 Analyzed: 12/21/2023

1,2,4-Trimethylbenzene	0.127	0.00200	mg/kg	0.100	ND	127	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.117	0.00200	"	0.100	ND	117	70-130			
Ethylbenzene	0.130	0.00200	"	0.100	ND	130	70-130			
Naphthalene	0.118	0.00380	"	0.100	ND	118	70-130			
Toluene	0.109	0.00200	"	0.100	ND	109	70-130			
o-Xylene	0.131	0.00200	"	0.100	ND	131	70-130			QM-07
m,p-Xylene	0.262	0.00400	"	0.200	ND	131	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	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 B3L1431 - EPA 5030 (soil)

Matrix Spike Dup (B3L1431-MSD1)

Source: Y312317-01

Prepared: 12/14/2023 Analyzed: 12/21/2023

1,2,4-Trimethylbenzene	0.129	0.00200	mg/kg	0.100	ND	129	70-130	1.46	20	
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130	0.141	20	
Benzene	0.120	0.00200	"	0.100	ND	120	70-130	2.04	20	
Ethylbenzene	0.133	0.00200	"	0.100	ND	133	70-130	1.89	20	QM-07
Naphthalene	0.124	0.00380	"	0.100	ND	124	70-130	4.80	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	0.183	20	
o-Xylene	0.135	0.00200	"	0.100	ND	135	70-130	3.11	20	QM-07
m,p-Xylene	0.268	0.00400	"	0.200	ND	134	70-130	2.35	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	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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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3L1319 - EPA 3580

Blank (B3L1319-BLK1)

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	200		"	200		99.5	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3L1319 - EPA 3580

LCS (B3L1319-BS1)

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		99.0	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200		100	70-130			
Acenaphthene	0.191	0.020	"	0.200		95.7	70-130			
Anthracene	0.174	0.020	"	0.200		86.8	70-130			
Benzo (a) anthracene	0.186	0.005	"	0.200		92.8	70-130			
Benzo (a) pyrene	0.205	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.181	0.020	"	0.200		90.6	70-130			
Benzo (g,h,i) perylene	0.205	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.176	0.020	"	0.200		87.8	70-130			
Chrysene	0.172	0.020	"	0.200		86.1	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200		95.8	70-130			
Fluoranthene	0.196	0.020	"	0.200		97.9	70-130			
Fluorene	0.199	0.020	"	0.200		99.6	70-130			
Indeno (1,2,3-cd) pyrene	0.227	0.020	"	0.200		113	70-130			
Naphthalene	0.194	0.002	"	0.200		97.2	70-130			
Phenanthrene	0.176	0.020	"	0.200		88.2	70-130			
Pyrene	0.180	0.020	"	0.200		90.2	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	190		"	200		96.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike (B3L1319-MS1)

Source: Y312317-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130			
Anthracene	0.187	0.020	"	0.200	ND	93.6	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3L1319 - EPA 3580

Matrix Spike (B3L1319-MS1)

Source: Y312317-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

Benzo (a) anthracene	0.207	0.005	mg/kg	0.200	ND	104	70-130			
Benzo (a) pyrene	0.220	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200	ND	105	70-130			
Benzo (g,h,i) perylene	0.225	0.020	"	0.200	ND	112	70-130			
Benzo (k) fluoranthene	0.198	0.020	"	0.200	ND	98.8	70-130			
Chrysene	0.180	0.020	"	0.200	ND	90.0	70-130			
Dibenz (a,h) anthracene	0.212	0.020	"	0.200	ND	106	70-130			
Fluoranthene	0.204	0.020	"	0.200	0.0005	102	70-130			
Fluorene	0.223	0.020	"	0.200	ND	111	70-130			
Indeno (1,2,3-cd) pyrene	0.236	0.020	"	0.200	ND	118	70-130			
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	95.1	70-130			
Pyrene	0.198	0.020	"	0.200	ND	98.8	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

Matrix Spike Dup (B3L1319-MSD1)

Source: Y312317-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

1-Methylnaphthalene	0.223	0.002	mg/kg	0.200	ND	111	70-130	5.66	20	
2-Methylnaphthalene	0.209	0.002	"	0.200	ND	104	70-130	0.267	20	
Acenaphthene	0.205	0.020	"	0.200	ND	102	70-130	0.119	20	
Anthracene	0.213	0.020	"	0.200	ND	106	70-130	12.8	20	
Benzo (a) anthracene	0.194	0.005	"	0.200	ND	96.9	70-130	6.61	20	
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130	0.266	20	
Benzo (b) fluoranthene	0.211	0.020	"	0.200	ND	106	70-130	0.316	20	
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	107	70-130	5.35	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3L1319 - EPA 3580

Matrix Spike Dup (B3L1319-MSD1)

Source: Y312317-01

Prepared: 12/13/2023 Analyzed: 12/16/2023

Benzo (k) fluoranthene	0.203	0.020	mg/kg	0.200	ND	101	70-130	2.45	20	
Chrysene	0.184	0.020	"	0.200	ND	92.2	70-130	2.38	20	
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	103	70-130	2.21	20	
Fluoranthene	0.209	0.020	"	0.200	0.0005	104	70-130	2.54	20	
Fluorene	0.222	0.020	"	0.200	ND	111	70-130	0.253	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	ND	114	70-130	3.30	20	
Naphthalene	0.207	0.002	"	0.200	ND	103	70-130	0.994	20	
Phenanthrene	0.194	0.020	"	0.200	ND	96.9	70-130	1.89	20	
Pyrene	0.195	0.020	"	0.200	ND	97.7	70-130	1.10	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		96.8	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

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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 B3L1317 - Saturated Paste pH/EC

Duplicate (B3L1317-DUP1)

Source: Y312317-01

Prepared: 12/13/2023 Analyzed: 12/14/2023

pH	8.00		pH Units		7.87			1.64	25	
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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
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Batch L723868 - 3050B

MSD (L 88120-MSD-L723868)

Source: Y312317-09

Prepared: 12/20/2023 Analyzed: 12/27/2023

Arsenic	3.11	0.25	mg/Kg	2.33	1.19	82	75-125	8.7	80	
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MS (L 88120-MS-L723868)

Source: Y312317-09

Prepared: 12/20/2023 Analyzed: 12/27/2023

Arsenic	2.85	0.25	mg/Kg	2.31	1.19	72	75-125			*
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LCS (LCS-L723868)

Prepared: 12/20/2023 Analyzed: 12/27/2023

Arsenic	2.34	0.25	mg/Kg	2.5		94	80-120			
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LRB (LRB-L723868)

Prepared: 12/20/2023 Analyzed: 12/27/2023

Arsenic	ND	0.25	mg/Kg							
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Batch L723869 - 3050B

MSD (L 88181-MSD-L723869)

Source: 88181

Prepared: 12/20/2023 Analyzed: 12/29/2023

Arsenic	4.25	0.25	mg/Kg	2.34	2.67	68	75-125	1.1	80	*
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MS (L 88181-MS-L723869)

Source: 88181

Prepared: 12/20/2023 Analyzed: 12/29/2023

Arsenic	4.2	0.25	mg/Kg	2.32	2.67	66	75-125			*
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LCS (LCS-L723869)

Prepared: 12/20/2023 Analyzed: 12/27/2023

Arsenic	2.37	0.25	mg/Kg	2.5		95	80-120			
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LRB (LRB-L723869)

Prepared: 12/20/2023 Analyzed: 12/27/2023

Arsenic	ND	0.25	mg/Kg							
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Andrew Newberry
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Project: Noble - Gutterson State CC 20-03

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.
 - * 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.

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