



April 15, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Dinner #6-34

Project Number - 425777561

Attached are your analytical results for Noble - Dinner #6-34 received by Origins Laboratory, Inc. April 08, 2021. This project is associated with Origins project number Y104141-01.

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: 425777561
Project: Noble - Dinner #6-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WV-SS-01@3'	Y104141-01	Soil	April 5, 2021 11:45	04/08/2021 15:05
WV-FS-01@6'	Y104141-02	Soil	April 5, 2021 11:50	04/08/2021 15:05

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: 425777561
Project: Noble - Dinner #6-34

www.originslaboratory.com

page 1 of 1

Y104141

ORIGINS LABORATORY, INC

Client: Eagle Environmental Consulting
Address: 8000 W. 44th Ave
Wheat Ridge, CO 80033
Telephone Number: (303) 433-6179
Email Address: info@origins-lab.com

Project Manager: Martin Eckert III
Project Name: DINNER #6-34
Project Number: —
Samples Collected By: VM/AB

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other			
WV-SS-01 P 3'	4/5/21	1145	3	X				Soil	PAHs PCDD/Fs PCBs Pesticides BTEX VOCs SVOCs Metals Nutrients EPA 8210 EPA 8211 EPA 8212 EPA 8213 EPA 8214 EPA 8215 EPA 8216 EPA 8217 EPA 8218 EPA 8219 EPA 8220 EPA 8221 EPA 8222 EPA 8223 EPA 8224 EPA 8225 EPA 8226 EPA 8227 EPA 8228 EPA 8229 EPA 8230 EPA 8231 EPA 8232 EPA 8233 EPA 8234 EPA 8235 EPA 8236 EPA 8237 EPA 8238 EPA 8239 EPA 8240 EPA 8241 EPA 8242 EPA 8243 EPA 8244 EPA 8245 EPA 8246 EPA 8247 EPA 8248 EPA 8249 EPA 8250 EPA 8251 EPA 8252 EPA 8253 EPA 8254 EPA 8255 EPA 8256 EPA 8257 EPA 8258 EPA 8259 EPA 8260 EPA 8261 EPA 8262 EPA 8263 EPA 8264 EPA 8265 EPA 8266 EPA 8267 EPA 8268 EPA 8269 EPA 8270 EPA 8271 EPA 8272 EPA 8273 EPA 8274 EPA 8275 EPA 8276 EPA 8277 EPA 8278 EPA 8279 EPA 8280 EPA 8281 EPA 8282 EPA 8283 EPA 8284 EPA 8285 EPA 8286 EPA 8287 EPA 8288 EPA 8289 EPA 8290 EPA 8291 EPA 8292 EPA 8293 EPA 8294 EPA 8295 EPA 8296 EPA 8297 EPA 8298 EPA 8299 EPA 8300	1
WV-FS-01 P 6'	4/6/21	1150	3	X				Soil	PAHs PCDD/Fs PCBs Pesticides BTEX VOCs SVOCs Metals Nutrients EPA 8210 EPA 8211 EPA 8212 EPA 8213 EPA 8214 EPA 8215 EPA 8216 EPA 8217 EPA 8218 EPA 8219 EPA 8220 EPA 8221 EPA 8222 EPA 8223 EPA 8224 EPA 8225 EPA 8226 EPA 8227 EPA 8228 EPA 8229 EPA 8230 EPA 8231 EPA 8232 EPA 8233 EPA 8234 EPA 8235 EPA 8236 EPA 8237 EPA 8238 EPA 8239 EPA 8240 EPA 8241 EPA 8242 EPA 8243 EPA 8244 EPA 8245 EPA 8246 EPA 8247 EPA 8248 EPA 8249 EPA 8250 EPA 8251 EPA 8252 EPA 8253 EPA 8254 EPA 8255 EPA 8256 EPA 8257 EPA 8258 EPA 8259 EPA 8260 EPA 8261 EPA 8262 EPA 8263 EPA 8264 EPA 8265 EPA 8266 EPA 8267 EPA 8268 EPA 8269 EPA 8270 EPA 8271 EPA 8272 EPA 8273 EPA 8274 EPA 8275 EPA 8276 EPA 8277 EPA 8278 EPA 8279 EPA 8280 EPA 8281 EPA 8282 EPA 8283 EPA 8284 EPA 8285 EPA 8286 EPA 8287 EPA 8288 EPA 8289 EPA 8290 EPA 8291 EPA 8292 EPA 8293 EPA 8294 EPA 8295 EPA 8296 EPA 8297 EPA 8298 EPA 8299 EPA 8300	3

Relinquished By: [Signature] Date: 4/8/21 Time: 1105
Relinquished By: [Signature] Date: 4/8/21 Time: 1105

Received By: [Signature] Date: 4/8/21 Time: 1506
Received By: [Signature] Date: 4/8/21 Time: 1506

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard

Temp Received: 4.2 Date Results Needed: 4/10/21

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

Origins Laboratory, Inc.

Jordan A. Merrill

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

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

Origins Laboratory

Sample Receipt Checklist

Origins Work Order: Y104141

Client: Eagle

Client Project ID: Noble-Dinner

Checklist Completed by: Jm

Date/time completed: 4-9-21

Shipped Via: HD

Airbill #: 4278

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

Cooler Number/Temperature: 142 °C _____ °C (Describe) _____ °C

Thermometer ID: TB03

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽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 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 4-9-21

Origins Laboratory, Inc.

Jm

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

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

WV-SS-01@3'
4/5/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y104141-01 (Soil)

Boron (Sorbitol)

Boron	0.1		mg/L	1	[none]	04/12/2021	04/14/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1D0909	04/09/2021	04/09/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	57.5 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1D0908	04/09/2021	04/09/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
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Project: Noble - Dinner #6-34

WV-SS-01@3'

4/5/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104141-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	99.9 %	70-130	B1D09 08	04/09/2021	04/09/2021
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130	"	"	"

Metals (Saturated Paste Prep)

Calcium	1.31	me/L	1	[none]	04/12/2021	04/14/2021
Magnesium	0.45	"	"	"	"	"
Sodium	0.29	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L546692	"	04/12/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

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Martin C Eckert III
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Project: Noble - Dinner #6-34

WV-SS-01@3'
4/5/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104141-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L546692	04/12/2021	04/12/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	56.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	64.1 %		29-110			"	"	"

pH in Soil by EPA 9045D

pH	7.15			pH Units	1	B1D1214	04/12/2021	04/12/2021
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SAR by 20B Saturated Paste

SAR	0.31				1	[none]	04/12/2021	04/14/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.237		0.00500	mmhos/cm	1	B1D1215	04/12/2021	04/12/2021
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Martin C Eckert III
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Project: Noble - Dinner #6-34

WV-FS-01@6'
4/5/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.
Y104141-02 (Soil)

Boron (Sorbitol)

Boron	0.4			mg/L	1	[none]	04/12/2021	04/14/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1D0909	04/09/2021	04/09/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.8 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1D0908	04/09/2021	04/12/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
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8000 W 44th Ave
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Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

WV-FS-01@6'

4/5/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104141-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.7 %		70-130			B1D09 08	04/09/2021	04/12/2021	
Surrogate: 4-Bromofluorobenzene	96.6 %		70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	1.70			me/L	1	[none]	04/12/2021	04/14/2021	
Magnesium	0.84			"	"	"	"	"	
Sodium	0.78			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00286	0.00048	0.00067	mg/Kg	1	L546692	"	04/12/2021	
2-Methylnaphthalene	0.00427	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	0.000505	0.000426	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000318	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00304	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000874	0.000501	0.00067	"	"	"	"	"	

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

WV-FS-01@6'

4/5/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y104141-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L546692	04/12/2021	04/12/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	0.00144	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	76.5 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	66.2 %		29-110			"	"	"

pH in Soil by EPA 9045D

pH	6.45			pH Units	1	B1D1214	04/12/2021	04/12/2021
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SAR by 20B Saturated Paste

SAR	0.69				1	[none]	04/12/2021	04/14/2021
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.409		0.00500	mmhos/cm	1	B1D1215	04/12/2021	04/12/2021
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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

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 B1D0908 - EPA 5030 (soil)										
Blank (B1D0908-BLK1)					Prepared: 04/09/2021 Analyzed: 04/09/2021					
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
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

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 B1D0908 - EPA 5030 (soil)

LCS (B1D0908-BS1)

Prepared: 04/09/2021 Analyzed: 04/09/2021

1,2,4-Trimethylbenzene	0.0572	0.00200	mg/kg	0.0500		114	70-130			
Naphthalene	0.0559	0.0100	"	0.0500		112	70-130			
1,3,5-Trimethylbenzene	0.0570	0.00200	"	0.0500		114	70-130			
Benzene	0.0539	0.00200	"	0.0500		108	70-130			
Ethylbenzene	0.0554	0.00200	"	0.0500		111	70-130			
m,p-Xylene	0.110	0.00400	"	0.100		110	70-130			
o-Xylene	0.0567	0.00200	"	0.0500		113	70-130			
Toluene	0.0531	0.00200	"	0.0500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Project Number: 425777561
Project: Noble - Dinner #6-34

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 B1D0908 - EPA 5030 (soil)										
Matrix Spike (B1D0908-MS1)		Source: Y104141-01			Prepared: 04/09/2021 Analyzed: 04/09/2021					
1,2,4-Trimethylbenzene	0.0579	0.00200	mg/kg	0.0500	ND	116	70-130			
Naphthalene	0.0607	0.0100	"	0.0500	ND	121	70-130			
1,3,5-Trimethylbenzene	0.0565	0.00200	"	0.0500	ND	113	70-130			
Benzene	0.0534	0.00200	"	0.0500	ND	107	70-130			
Ethylbenzene	0.0551	0.00200	"	0.0500	ND	110	70-130			
m,p-Xylene	0.110	0.00400	"	0.100	ND	110	70-130			
o-Xylene	0.0545	0.00200	"	0.0500	ND	109	70-130			
Toluene	0.0528	0.00200	"	0.0500	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Project Number: 425777561
Project: Noble - Dinner #6-34

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 B1D0908 - EPA 5030 (soil)										
Matrix Spike Dup (B1D0908-MSD1)		Source: Y104141-01			Prepared: 04/09/2021 Analyzed: 04/09/2021					
1,2,4-Trimethylbenzene	0.0545	0.00200	mg/kg	0.0500	ND	109	70-130	5.94	20	
Naphthalene	0.0578	0.0100	"	0.0500	ND	116	70-130	4.86	20	
1,3,5-Trimethylbenzene	0.0537	0.00200	"	0.0500	ND	107	70-130	4.97	20	
Benzene	0.0515	0.00200	"	0.0500	ND	103	70-130	3.59	20	
Ethylbenzene	0.0569	0.00200	"	0.0500	ND	114	70-130	3.32	20	
m,p-Xylene	0.115	0.00400	"	0.100	ND	115	70-130	3.99	20	
o-Xylene	0.0582	0.00200	"	0.0500	ND	116	70-130	6.56	20	
Toluene	0.0509	0.00200	"	0.0500	ND	102	70-130	3.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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: 425777561
Project: Noble - Dinner #6-34

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 B1D0909 - EPA 3550B

Blank (B1D0909-BLK1)

Prepared: 04/09/2021 Analyzed: 04/09/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		73.8	50-150			

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

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

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 B1D0909 - EPA 3550B

LCS (B1D0909-BS1)

Prepared: 04/09/2021 Analyzed: 04/09/2021

Diesel (C10-C28)	928	50.0	mg/kg	1000		92.8	70-130			
Residual Range Organics (C28-C40)	885	200	"	1000		88.5	70-130			
Surrogate: o-Terphenyl	39		"	50.0		78.1	50-150			

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

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

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 B1D0909 - EPA 3550B

Matrix Spike (B1D0909-MS1)		Source: Y104141-01			Prepared: 04/09/2021 Analyzed: 04/09/2021					
Diesel (C10-C28)	930	50.0	mg/kg	1000	ND	93.0	70-130			
Residual Range Organics (C28-C40)	879	200	"	1000	ND	87.9	70-130			
Surrogate: o-Terphenyl	37		"	50.0		74.7	50-150			

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: 425777561
Project: Noble - Dinner #6-34

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 B1D0909 - EPA 3550B

Matrix Spike Dup (B1D0909-MSD1)		Source: Y104141-01			Prepared: 04/09/2021 Analyzed: 04/09/2021					
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130	6.96	35	
Residual Range Organics (C28-C40)	812	200	"	1000	ND	81.2	70-130	7.83	35	
Surrogate: o-Terphenyl	34		"	50.0		68.4	50-150			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1D1214 - NO PREP

Duplicate (B1D1214-DUP1)

Source: Y104141-01

Prepared: 04/12/2021 Analyzed: 04/12/2021

pH	7.23		pH Units	7.15		1.11	25
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Batch B1D1215 - NO PREP

Blank (B1D1215-BLK1)

Prepared: 04/12/2021 Analyzed: 04/12/2021

Specific Conductance (EC)	0.00210	0.00500	mmhos/cm
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Duplicate (B1D1215-DUP1)

Source: Y104141-01

Prepared: 04/12/2021 Analyzed: 04/12/2021

Specific Conductance (EC)	0.243	0.00500	mmhos/cm	0.237		2.42	25
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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L546692 - 3550B

MSD (L 90165-MSD-L546692)		Source: 90165			Prepared: 04/12/2021 Analyzed: 04/12/2021					
Chrysene	0.147	0.000256	mg/Kg	0.162	0.0307	71.7	30-130	10.7	30	
1-Methylnaphthalene	0.109	0.00048	"	0.162	0.000714	66.8	30-130	2.7	30	
2-Methylnaphthalene	0.104	0.000542	"	0.162	0.00208	62.9	30-130	2.9	30	
Acenaphthene	0.107	0.000431	"	0.162	0.00765	61.3	30-130	2.8	30	
Anthracene	0.135	0.000426	"	0.162	0.0202	70.8	30-130	7.6	30	
Benzo(a)anthracene	0.186	0.000441	"	0.162	0.0555	80.5	30-130	11.9	30	
Pyrene	0.299	0.000387	"	0.162	0.194	64.8	30-130	30.4	30	
Naphthalene	0.0982	0.000467	"	0.162	90165	60.6	30-130	2.1	30	
Indeno(1,2,3-cd)pyrene	0.1	0.000344	"	0.162	0.00952	55.8	30-130	10.3	30	
Fluorene	0.122	0.000501	"	0.162	0.013	67.2	30-130	5	30	
Fluoranthene	0.221	0.000529	"	0.162	0.129	56.7	30-130	24.9	30	
Dibenz(a,h)anthracene	0.0941	0.000279	"	0.162	0.00288	56.3	30-130	7.2	30	
Benzo(b)fluoranthene	0.127	0.000138	"	0.162	0.0375	55.2	30-130	9.9	30	
Benzo(k)fluoranthene	0.112	0.000486	"	0.162	0.0149	59.9	30-130	15.2	30	
Benzo(a)pyrene	0.169	0.000133	"	0.162	0.0323	84.3	30-130	8.6	30	
Surrogate: 2-Fluorobiphenyl	48.3		"	0.325	155	48.3	33-115			
Surrogate: 4-Terphenyl-d14	61.2		"	0.325	198	61.2	33-122			
Surrogate: Nitrobenzene-d5	61.2		"	0.325	182	61.2	29-110			

MS (L 90165-MS-L546692)		Source: 90165			Prepared: 04/12/2021 Analyzed: 04/12/2021					
Benzo(a)pyrene	0.155	0.000133	mg/Kg	0.163	0.0323	75.2	30-130			
Chrysene	0.132	0.000256	"	0.163	0.0307	62.1	30-130			
Pyrene	0.22	0.000387	"	0.163	0.194	15.9	30-130			*
Naphthalene	0.0961	0.000467	"	0.163	90165	58.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0902	0.000344	"	0.163	0.00952	49.4	30-130			
Fluorene	0.116	0.000501	"	0.163	0.013	63.1	30-130			
Fluoranthene	0.172	0.000529	"	0.163	0.129	26.3	30-130			*

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: 425777561
Project: Noble - Dinner #6-34

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L546692 - 3550B

MS (L 90165-MS-L546692)		Source: 90165			Prepared: 04/12/2021 Analyzed: 04/12/2021					
Dibenz(a,h)anthracene	0.0875	0.000279	mg/Kg	0.163	0.00288	51.9	30-130			
Benzo(b)fluoranthene	0.115	0.000138	"	0.163	0.0375	47.5	30-130			
Benzo(a)anthracene	0.165	0.000441	"	0.163	0.0555	67.1	30-130			
Anthracene	0.125	0.000426	"	0.163	0.0202	64.2	30-130			
Acenaphthene	0.104	0.000431	"	0.163	0.00765	59.1	30-130			
2-Methylnaphthalene	0.101	0.000542	"	0.163	0.00208	60.6	30-130			
Benzo(k)fluoranthene	0.0961	0.000486	"	0.163	0.0149	49.8	30-130			
1-Methylnaphthalene	0.106	0.00048	"	0.163	0.000714	64.5	30-130			
Surrogate: Nitrobenzene-d5	57.4		"	0.327	182	57.4	29-110			
Surrogate: 2-Fluorobiphenyl	46.4		"	0.327	155	46.4	33-115			
Surrogate: 4-Terphenyl-d14	58.4		"	0.327	198	58.4	33-122			

LCS (LCS-L546692)

Prepared: 04/12/2021 Analyzed: 04/12/2021

Dibenz(a,h)anthracene	0.0886	0.000279	mg/Kg	0.167		53	30-130
Fluoranthene	0.11	0.000529	"	0.167		65.8	30-130
Pyrene	0.105	0.000387	"	0.167		62.8	30-130
Fluorene	0.115	0.000501	"	0.167		68.8	30-130
Indeno(1,2,3-cd)pyrene	0.0862	0.000344	"	0.167		51.6	30-130
Chrysene	0.113	0.000256	"	0.167		67.6	30-130
Naphthalene	0.102	0.000467	"	0.167		61	30-130
Benzo(b)fluoranthene	0.0976	0.000138	"	0.167		58.4	30-130
Benzo(a)pyrene	0.133	0.000133	"	0.167		79.6	30-130
Benzo(a)anthracene	0.126	0.000441	"	0.167		75.4	30-130
Acenaphthene	0.105	0.000431	"	0.167		62.8	30-130
2-Methylnaphthalene	0.108	0.000542	"	0.167		64.6	30-130
1-Methylnaphthalene	0.107	0.00048	"	0.167		64	30-130
Anthracene	0.114	0.000426	"	0.167		68.2	30-130

Origins Laboratory, Inc.

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: 425777561
Project: Noble - Dinner #6-34

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L546692 - 3550B

LCS (LCS-L546692)

Prepared: 04/12/2021 Analyzed: 04/12/2021

Benzo(k)fluoranthene	0.09	0.000486	mg/Kg	0.167		53.8	30-130			
Surrogate: Nitrobenzene-d5	60		"	0.333		60	29-110			
Surrogate: 4-Terphenyl-d14	57.6		"	0.333		57.6	33-122			
Surrogate: 2-Fluorobiphenyl	55.2		"	0.333		55.2	33-115			

LRB (LRB-L546692)

Prepared: 04/12/2021 Analyzed: 04/12/2021

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	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	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	63.3		"	0.333		63.3	29-110			
Surrogate: 4-Terphenyl-d14	62.1		"	0.333		62.1	33-122			
Surrogate: 2-Fluorobiphenyl	57		"	0.333		57	33-115			

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: 425777561

Project: Noble - Dinner #6-34

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



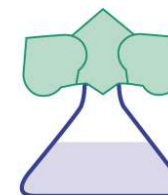
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American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



95029

ORIGINS LABORATORY INC

1725 ELK PLACE

DENVER CO 80211

NAME : ORIGINS

DATE RECEIVED: 04/12/2021

DATE REPORTED: 04/14/2021

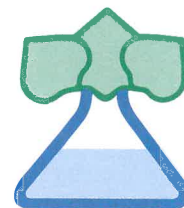
SOIL TEST RESULTS																		
LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS							
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm			
3331149	Y104141	01	0-8															
3331150	Y104141	02	0-8															
LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
3331149											0.1							
3331150											0.4							
LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %		
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A				
3331149	1.31	0.45	0.29	0.31	1	0												
3331150	1.70	0.84	0.78	0.69	1	0												
SUGGESTED FERTILIZER RECOMMENDATIONS																LIME REC 60% ECCE T/A		
LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl			
3331149	Y104141	01																
3331150	Y104141	02																
Approved By: Bob Olsen																		
Analysis By: American Agricultural Lab																		
Recommendations By: American Agricultural Lab																		

American Agricultural Laboratory, Inc.

700 West D St. / P.O. Box 370 / McCook, Nebraska 69001

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ORIGINS LABORATORY INC
1725 ELK PLACE
DENVER, CO 80211

DATE RECEIVED: 4/12/2021
DATE REPORTED: 4/14/2021
ACCOUNT NO: 95029
GROWER: ORIGINS

SOIL BORON REPORT

Lab #	Field ID	Sample ID	B, mg/L
331149	Y104141	1	0.1
331150	Y104141	2	0.4

Bab Olson

Method Used:

Provin, T., and H. Zhang. 2014. DTPA and DTPA-Sorbitol Extraction of Micronutrients.
Soil Test Methods From the Southeastern United States 2014