

December 12, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Feit 23-97**

**Project Number - [none]**

Attached are your analytical results for Noble - Feit 23-97 received by Origins Laboratory, Inc. December 11, 2017. This project is associated with Origins project number Y712177-01.

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



Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Feit 23-97

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 @ 11'	Y712177-01	Soil	December 11, 2017 12:41	12/11/2017 14:55
SS-02 @ 11'	Y712177-02	Soil	December 11, 2017 12:42	12/11/2017 14:55
SS-03 @ 10.5'	Y712177-03	Soil	December 11, 2017 12:35	12/11/2017 14:55
SS-06 @ 10.5'	Y712177-04	Soil	December 11, 2017 12:32	12/11/2017 14:55
SS-07 @ 10.5'	Y712177-05	Soil	December 11, 2017 12:22	12/11/2017 14:55
SS-08 @ 10.5'	Y712177-06	Soil	December 11, 2017 12:20	12/11/2017 14:55
SS-10 @ 14'	Y712177-07	Soil	December 11, 2017 12:24	12/11/2017 14:55
SS-11 @ 11'	Y712177-08	Soil	December 11, 2017 12:56	12/11/2017 14:55
SS-12 @ 11'	Y712177-09	Soil	December 11, 2017 12:58	12/11/2017 14:55
SS-13 @ 14.5'	Y712177-10	Soil	December 11, 2017 12:53	12/11/2017 14:55
SS-14 @ 2'	Y712177-11	Soil	December 11, 2017 13:04	12/11/2017 14:55
SS-15 @ 2'	Y712177-12	Soil	December 11, 2017 13:05	12/11/2017 14:55
SS-16 @ 2'	Y712177-13	Soil	December 11, 2017 13:06	12/11/2017 14:55

Origins Laboratory, Inc.



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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97



www.originslaboratory.com

712177

page 1 of 2

Client: EAGLE ENV CONSULTING  
 Address: 4101 INCA ST  
 Telephone Number: 303-433-0479  
 Email Address: ALC3@EAGLE-CONSULTING.COM

Project Manager: MARTIN ECKERT III  
 Project Name: FEIT 23-97  
 Project Number: ---  
 Samples Collected By: AV/LL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions			
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summ #	Other	BTEX	LRD		DEP	NAPHTHA LIKE	
55-01@11'	12-11-17	1241	2	X				X				X	X				
55-02@11'		1242	1														
55-03@10.5'		1235	1														
55-06@10.5'		1232	1														
55-07@10.5'		1222	1														
55-08@10.5'		1220	1														
55-04@11'		1224	1														
55-11@11'		1256	1														
55-12@11'		1258	1														
55-13@14.5'		1253	1														
Relinquished By: <u>[Signature]</u>	Date: 12-11-17	Time: 1155	Time: 1155	Received By: <u>[Signature]</u>	Date: 12-11-17	Time: 1155	Time: 1155	Received By: <u>[Signature]</u>	Date: 12-11-17	Time: 1155	Time: 1155	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard					

Temp Received: 53 Date Results Needed: 12/13/17  
 RELINQUISHED BY: [Signature] DATE: 12/11/17

Origins Laboratory, Inc.

*Jefe Pellegrini*

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y712177

Client: Eagle Env.

Client Project ID: Noble - Feit 23-97

Checklist Completed by: Den [Signature]

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

Date/time completed: 12-18-17

Airbill #: 20

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

Cooler Number/Temperature:  / 15.8 °C  / \_\_\_\_\_ °C  / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1003

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12-18-17

Origins Laboratory, Inc.

Jefe Pellegrini

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

SS-01 @ 11'  
 12/11/2017 12:41:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y712177-01 (Soil)

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	U
<i>Surrogate: o-Terphenyl</i>	87.5 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	1.70	0.200	mg/kg	1	B7L1101	12/11/2017	12/11/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98.1 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	97.5 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.2 %	70-130			"	"	"	

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 Denver CO 80211

Martin C Eckert III  
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**SS-02 @ 11'**  
**12/11/2017 12:42:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	98.0	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	
Surrogate: o-Terphenyl	81.7 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	98.4	5.00	mg/kg	25	B7L1101	12/11/2017	12/11/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.126	0.050	"	"	"	"	"	
Napthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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 Project: Noble - Feit 23-97

**SS-03 @ 10.5'**  
**12/11/2017 12:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-03 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	U
<i>Surrogate: o-Terphenyl</i>	70.5 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.246</b>	0.200	mg/kg	1	B7L1101	12/11/2017	12/11/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	<b>0.002</b>	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	110 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	97.0 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %	70-130			"	"	"	

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Jen Pellegrini, Project Manager

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 Denver CO 80211

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 Project: Noble - Feit 23-97

**SS-06 @ 10.5'**  
**12/11/2017 12:32:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	U
<i>Surrogate: o-Terphenyl</i>	85.8 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7L1101	12/11/2017	12/11/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	112 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.0 %	70-130			"	"	"	

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 Denver CO 80211

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 Project: Noble - Feit 23-97

**SS-07 @ 10.5'**  
**12/11/2017 12:22:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-05 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	U
<i>Surrogate: o-Terphenyl</i>	90.4 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7L1101	12/11/2017	12/11/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	113 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	95.6 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %	70-130			"	"	"	

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**SS-08 @ 10.5'**  
**12/11/2017 12:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-06 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	U
<i>Surrogate: o-Terphenyl</i>	89.0 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7L1101	12/11/2017	12/11/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	115 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	97.1 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	100 %	70-130			"	"	"	

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**SS-10 @ 14'**  
**12/11/2017 12:24:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-07 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	67.1	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	
Surrogate: o-Terphenyl	87.7 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	1.59	0.200	mg/kg	1	B7L1101	12/11/2017	12/11/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Naphthalene	ND	0.007	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

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**SS-11 @ 11'**  
**12/11/2017 12:56:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-08 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	<b>2160</b>	50.0	mg/kg	1	B7L1102	12/11/2017	12/11/2017	
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Surrogate: <i>o</i> -Terphenyl	97.7 %	59-131			"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>749</b>	50.0	mg/kg	250	B7L1101	12/11/2017	12/11/2017	
Benzene	<b>0.094</b>	0.050	"	25	"	"	12/12/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	<b>1.07</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>4.15</b>	0.050	"	"	"	"	"	
Napthalene	<b>0.948</b>	0.175	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	87.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	122 %	70-130			"	"	"	

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**SS-12 @ 11'**  
**12/11/2017 12:58:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-09 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	5030	50.0	mg/kg	1	B7L1102	12/11/2017	12/12/2017	
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Surrogate: o-Terphenyl	118 %	59-131			"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	2100	50.0	mg/kg	250	B7L1101	12/11/2017	12/11/2017	
Benzene	0.252	0.050	"	25	"	"	12/12/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	3.34	0.050	"	"	"	"	"	
Xylenes, total	5.70	0.050	"	"	"	"	"	
Napthalene	2.56	0.175	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	152 %	70-130			"	"	"	

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**SS-13 @ 14.5'**  
**12/11/2017 12:53:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-10 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1102	12/11/2017	12/12/2017	U
Surrogate: <i>o</i> -Terphenyl	88.5 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.316</b>	0.200	mg/kg	1	B7L1101	12/11/2017	12/12/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	70-130			"	"	"	

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

**SS-14 @ 2'**  
**12/11/2017 1:04:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-11 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	1070	50.0	mg/kg	1	B7L1102	12/11/2017	12/12/2017	
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Surrogate: o-Terphenyl	84.8 %	59-131			"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	499	5.00	mg/kg	25	B7L1101	12/11/2017	12/12/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.798	0.050	"	"	"	"	"	
Xylenes, total	3.33	0.050	"	"	"	"	"	
Naphthalene	0.902	0.175	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	126 %	70-130			"	"	"	

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

**SS-15 @ 2'**  
**12/11/2017 1:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-12 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1102	12/11/2017	12/12/2017	U
Surrogate: <i>o</i> -Terphenyl	89.1 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.510</b>	0.200	mg/kg	1	B7L1101	12/11/2017	12/12/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	<b>0.019</b>	0.002	"	"	"	"	"	
Xylenes, total	<b>0.030</b>	0.002	"	"	"	"	"	
Naphthalene	ND	0.007	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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Jen Pellegrini, Project Manager

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

**SS-16 @ 2'**  
**12/11/2017 1:06:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y712177-13 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	888	50.0	mg/kg	1	B7L1102	12/11/2017	12/12/2017	
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Surrogate: o-Terphenyl	100 %	59-131			"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	65.0	5.00	mg/kg	25	B7L1101	12/11/2017	12/12/2017	
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Benzene	ND	0.050	"	"	"	"	"	U
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Toluene	ND	0.050	"	"	"	"	"	U
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Ethylbenzene	ND	0.050	"	"	"	"	"	U
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Xylenes, total	0.100	0.050	"	"	"	"	"	
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Naphthalene	ND	0.175	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130			"	"	"	
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Surrogate: Toluene-d8	97.9 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	
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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7L1101 - EPA 5030 (soil)**

**Blank (B7L1101-BLK1)**

Prepared: 12/11/2017 Analyzed: 12/11/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7L1101 - EPA 5030 (soil)

**LCS (B7L1101-BS1)**

Prepared: 12/11/2017 Analyzed: 12/11/2017

Benzene	0.098	0.002	mg/kg	0.100		97.5	70-130			
Toluene	0.096	0.002	"	0.100		95.8	70-130			
Ethylbenzene	0.105	0.002	"	0.100		105	70-130			
m,p-Xylene	0.201	0.004	"	0.200		101	70-130			
o-Xylene	0.100	0.002	"	0.100		100	70-130			
Naphthalene	0.097	0.007	"	0.100		96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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 Denver CO 80211

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 Project Number: [none]  
 Project: Noble - Feit 23-97

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7L1101 - EPA 5030 (soil)

Matrix Spike (B7L1101-MS1)	Source: Y712170-01			Prepared: 12/11/2017 Analyzed: 12/11/2017						
Benzene	0.097	0.002	mg/kg	0.100	0.002	94.9	70-130			
Toluene	0.094	0.002	"	0.100	0.002	91.6	70-130			
Ethylbenzene	0.134	0.002	"	0.100	0.001	132	70-130			QM-07
m,p-Xylene	0.256	0.004	"	0.200	0.009	124	70-130			
o-Xylene	0.123	0.002	"	0.100	0.003	119	70-130			
Naphthalene	0.041	0.007	"	0.100	0.008	33.3	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	86		"	62.5		137	70-130			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B7L1101 - EPA 5030 (soil)

Matrix Spike Dup (B7L1101-MSD1)	Source: Y712170-01			Prepared: 12/11/2017 Analyzed: 12/11/2017						
Benzene	0.089	0.002	mg/kg	0.100	0.002	87.2	70-130	8.24	20	
Toluene	0.084	0.002	"	0.100	0.002	82.2	70-130	10.5	20	
Ethylbenzene	0.100	0.002	"	0.100	0.001	98.7	70-130	28.8	20	QR-03
m,p-Xylene	0.194	0.004	"	0.200	0.009	92.6	70-130	27.6	20	QR-02
o-Xylene	0.095	0.002	"	0.100	0.003	92.4	70-130	24.9	20	QR-02
Naphthalene	0.046	0.007	"	0.100	0.008	37.8	70-130	10.4	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	77		"	62.5		123	70-130			

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit 23-97

**Volatile Organic Compounds by GC/MS SW846 8260C - 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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**Extractable Petroleum Hydrocarbons by 8015C - 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 B7L1102 - EPA 3550B**

**Blank (B7L1102-BLK1)**

Prepared: 12/11/2017 Analyzed: 12/11/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

41			"	50.0		81.6	59-131			
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**LCS (B7L1102-BS1)**

Prepared: 12/11/2017 Analyzed: 12/11/2017

Diesel (C10-C28)	986	50.0	mg/kg	1000		98.6	64-121			
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Surrogate: o-Terphenyl

54			"	50.0		108	59-131			
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**Matrix Spike (B7L1102-MS1)**

**Source: Y712170-01**

Prepared: 12/11/2017 Analyzed: 12/11/2017

Diesel (C10-C28)	7110	50.0	mg/kg	1000	12100	NR	53-125			QM-4X
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Surrogate: o-Terphenyl

51			"	50.0		102	59-131			
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**Matrix Spike Dup (B7L1102-MSD1)**

**Source: Y712170-01**

Prepared: 12/11/2017 Analyzed: 12/11/2017

Diesel (C10-C28)	7940	50.0	mg/kg	1000	12100	NR	53-125	11.0	20	QM-4X
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Surrogate: o-Terphenyl

45			"	50.0		89.5	59-131			
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4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Feit 23-97

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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