

# Wellhead Closure Checklist

## COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure <u>        </u>		Tank Battery Closure <u>        </u>		Flowline Closure <u>        </u>		Partially Buried Vault Closure <u>        </u>	
Site Name & COGCC Facility Number: <b>Lehfeldt #C27-15</b>		Date: <b>03/28/23</b>				Remediation Project #: <b>26094</b>			
Associated Wells: <b>05-123-13851</b>		Age of Site: <b>Years</b>				Number of Photos Attached: <b>1</b>			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						<b>40.277960 / -104.534730</b>			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  <b>Good Condition</b>									
USCS Soil Type: <b>Silty SAND</b>					Estimated Depth to Groundwater: <b>Approx. 20-30'</b>				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  <b>None observed.</b>									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  <b>None observed.</b>									
Wellhead(s)									
Well API	<b>05-123-13851</b>								
Age	<b>Years</b>								
Condition of surface around wellhead	<b>Good - Per Crew</b>								
PID Readings	<b>N/A - Excavated Upon Arrival</b>								
Condition of subsurface (staining present)	<b>Good - No Odor/Staining</b>								
PID Readings	<b>0.2</b>	<b>0.1</b>	<b>0.0</b>	<b>0.5</b>	<b>3.5</b>				
Sample taken? Location/Sample ID#	<b>WH-SS-01</b>	<b>WH-SS-02</b>	<b>WH-SS-03</b>	<b>WH-SS-04</b>	<b>WH-FS-01</b>				
Photo Number(s)	<b>See photolog</b>								
Other observations regarding wellheads: <b>Well casing cut/capped following assessment.</b>									
Summary									
Was impacted soil identified? <input checked="" type="checkbox"/> <b>No</b> Yes - less than 10 cubic yards      Yes - more than 10 cubic yards									
Total number of samples field screened: <b>5</b>				Total number of samples collected: <b>5</b>					
Highest PID Reading: <b>3.5</b>				Total number of samples submitted to lab for analysis: <b>1</b>					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
<b>N/A</b>				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> <b>No</b> Yes - not impacted or in contact with impacted soils      Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted?      Yes      No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater?      Yes      No				Volume of groundwater removed prior to sampling:					
Free product observed?      Yes      No				<b>N/A</b>					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									

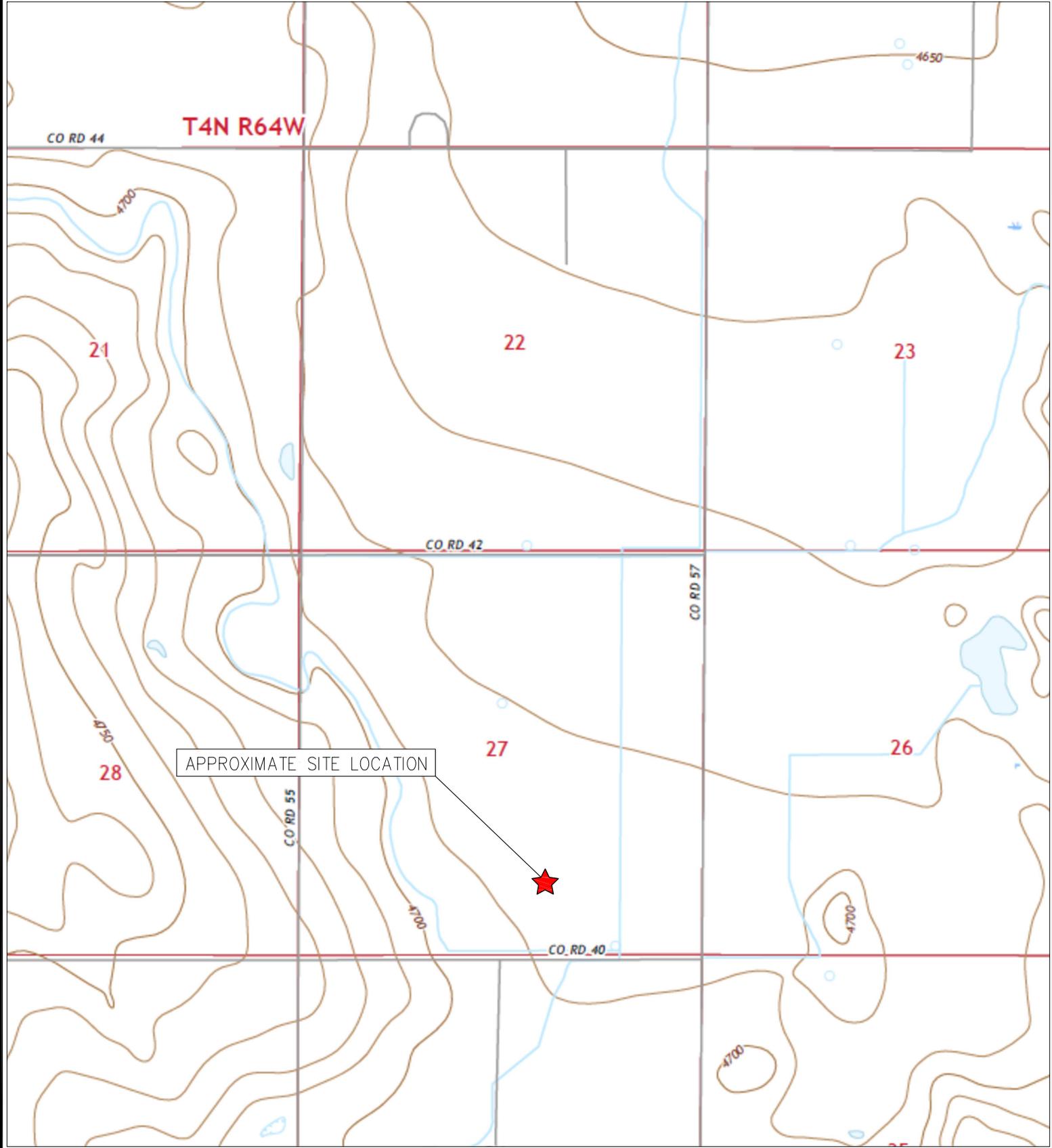


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**



APPROXIMATE SITE LOCATION



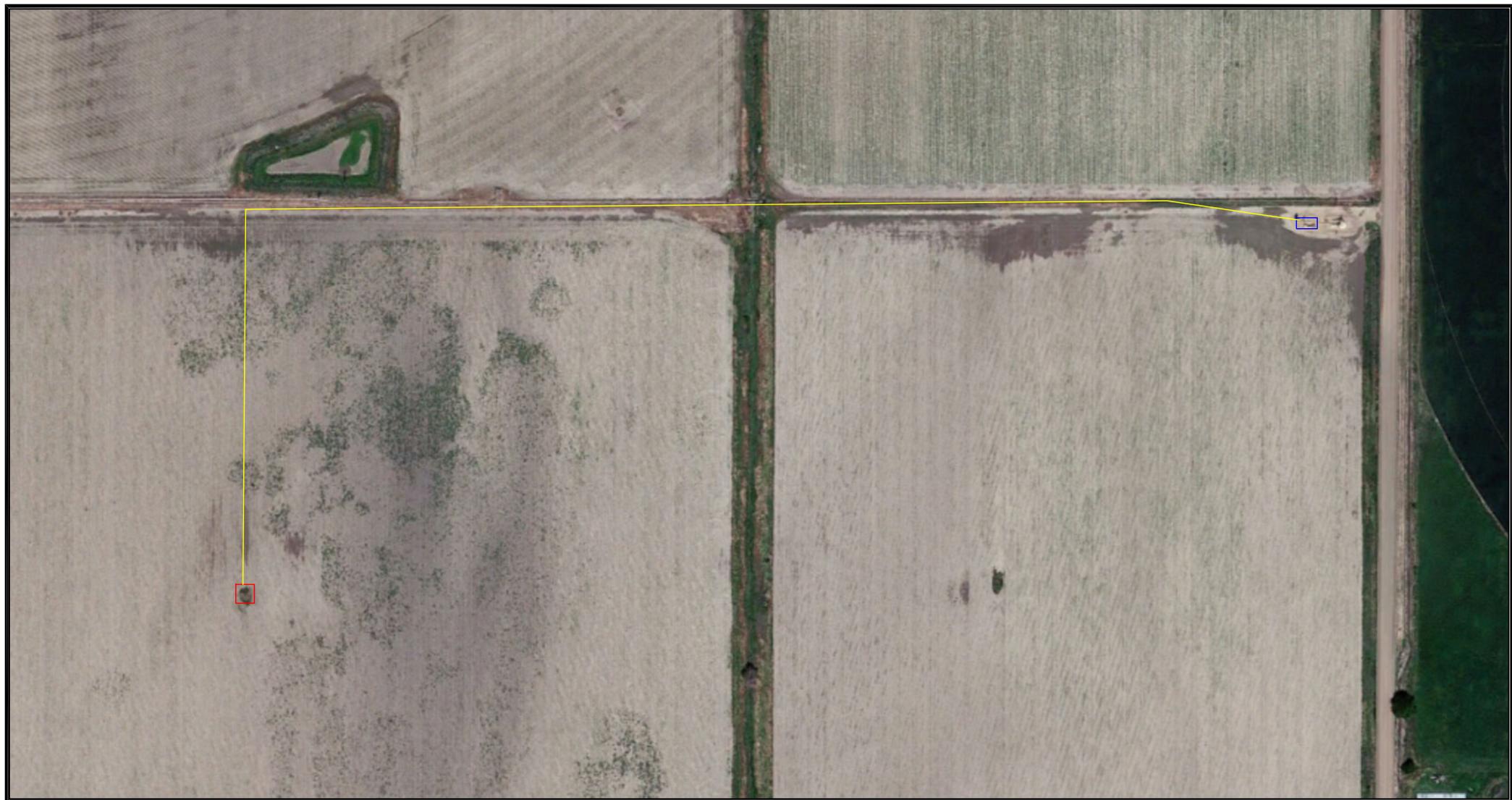
TOPOGRAPHIC SITE LOCATION MAP  
 LEHFELDT #C27-15  
 CLOSURE ASSESSMENT  
 40.277960 / -104.534730  
 SW¼ SE¼ SEC.27 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13851  
 REMEDIATION # 26094



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449

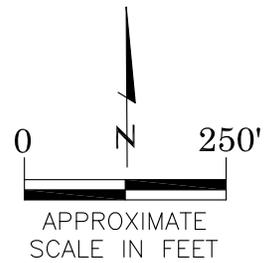
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER LEHFELDT #C27-15 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP  
 LEHFELDT #C27-15  
 CLOSURE ASSESSMENT  
 40.277960 / -104.534730  
 SW¼ SE¼ SEC.27 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13851  
 REMEDIATION # 26094

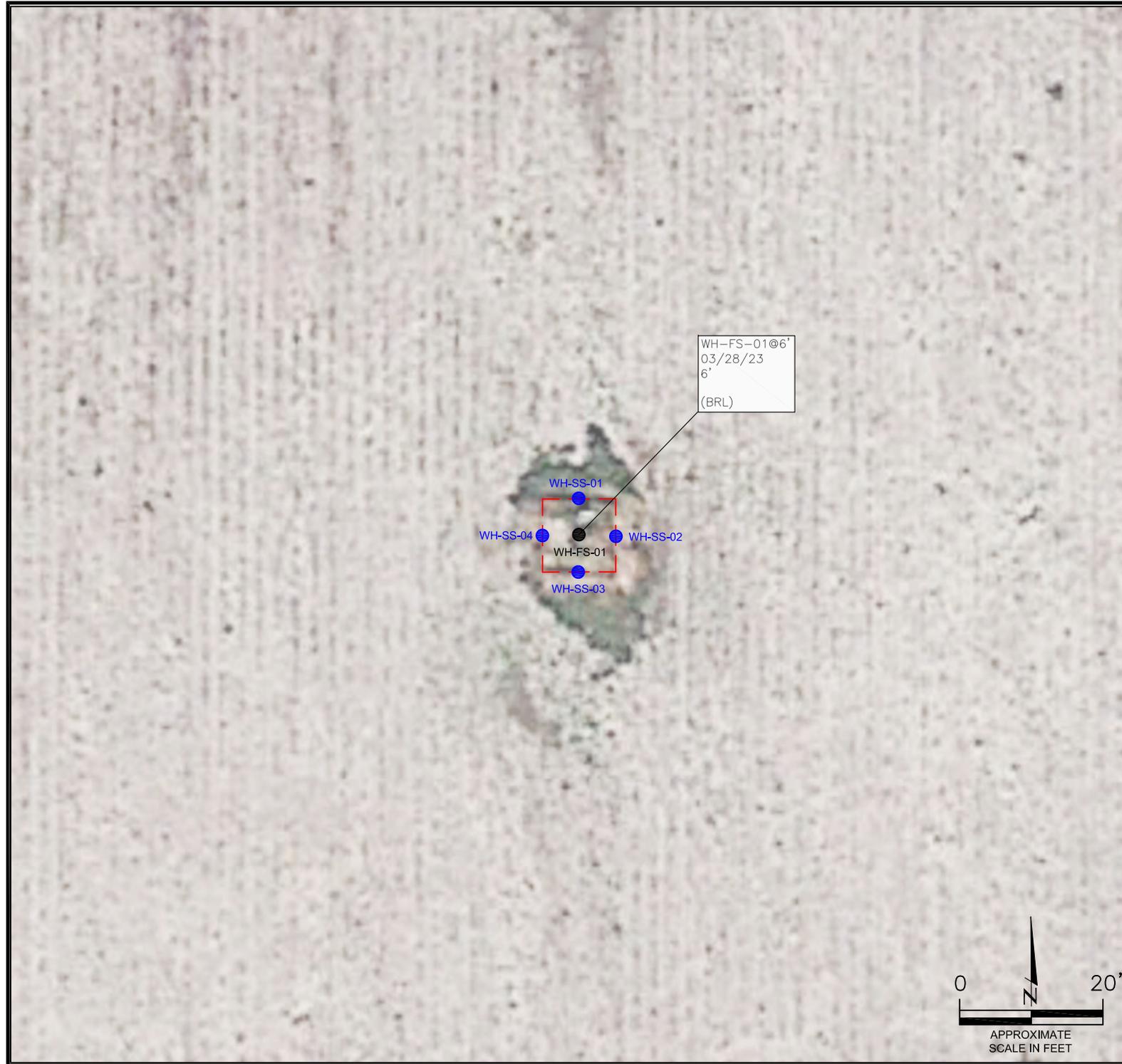
FIGURE NO.  
2

DRAWN BY:  
CT



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**LEGEND**

- - - WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM  
 mg/L = MILLIGRAMS PER LITER  
 mmhos/cm = MILLIMHOS PER CENTIMETER

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:  
 VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

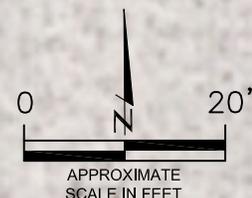
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP  
 LEHFELDT #C27-15  
 CLOSURE ASSESSMENT  
 40.277960 / -104.534730  
 SW¼ SE¼ SEC.27 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13851  
 REMEDIATION # 26094

FIGURE NO.  
3

DRAWN BY:  
CT

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## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**LEHFELDT #C27-15**  
**CLOSURE ASSESSMENT**  
**40.277960 / -104.534730**  
**SW¼ SE¼ SEC.27 T4N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13851**  
**REMEDIATION # 26094**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.278045 / -104.534614)	03/28/23	5	0.2	N
WH-SS-02 @ 5' (40.278031 / -104.534596)	03/28/23	5	0.1	N
WH-SS-03 @ 5' (40.278017 / -104.534615)	03/28/23	5	0.0	N
WH-SS-04 @ 5' (40.278031 / -104.534633)	03/28/23	5	0.5	N
WH-FS-01 @ 6' (40.278030 / -104.534616)	03/28/23	6	3.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2  
 SOIL ANALYTICAL RESULTS SUMMARY  
 LEHFELDT #C27-15  
 CLOSURE ASSESSMENT  
 40.277960 / -104.534730  
 SW¼ SE¼ SEC.27 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-13851  
 REMEDIATION # 26094

Sample Location		WH-FS-01 @ 6'		
(Latitude / Longitude)		(40.278030 / -104.534616)		
Sample Date		3/28/2023		
Sample Depth		6'		
PID Reading (ppm-v)		3.5		
Regulatory Limits				
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	
<b>VOCs</b>				
Benzene	mg/kg	1.2	0.0026	<0.00200
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	0.00416
<b>TOTAL PETROLEUM HYDROCARBONS</b>				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	49.8
TPH-RRO	mg/kg	500	--	101
<b>POLYCYCLIC AROMATIC HYDROCARBONS</b>				
1-Methyl-naphthalene	mg/kg	18	0.006	0.00215
2-Methyl-naphthalene	mg/kg	24	0.019	0.00218
Acenaphthene	mg/kg	360	0.55	0.000614
Anthracene	mg/kg	1800	5.8	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	0.000661
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	0.000647
Fluorene	mg/kg	240	0.54	0.000673
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00201
Pyrene	mg/kg	180	1.3	0.000861
<b>SOIL SUITABILITY (Inorganics)</b>				
Boron	mg/L	2	--	0.399
pH	standard unit	6-8.3	--	8.28
Sodium Adsorption Ratio (SAR)	--	<6	--	1.81
Specific Conductance (EC)	mmhos/cm	<4	--	0.762
ECMC - Energy & Carbon Management Commission		VOCs - Volatile Organic Compounds		
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels		
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels		
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics		
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics		
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics		
SAR = Sodium Adsorption Ratio				
Notes:				
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.				
Values presented in <b>BOLD</b> exceed ECMC Table 915-1 Regulatory Limits.				





## **ATTACHMENT A**

### **Photo Log**

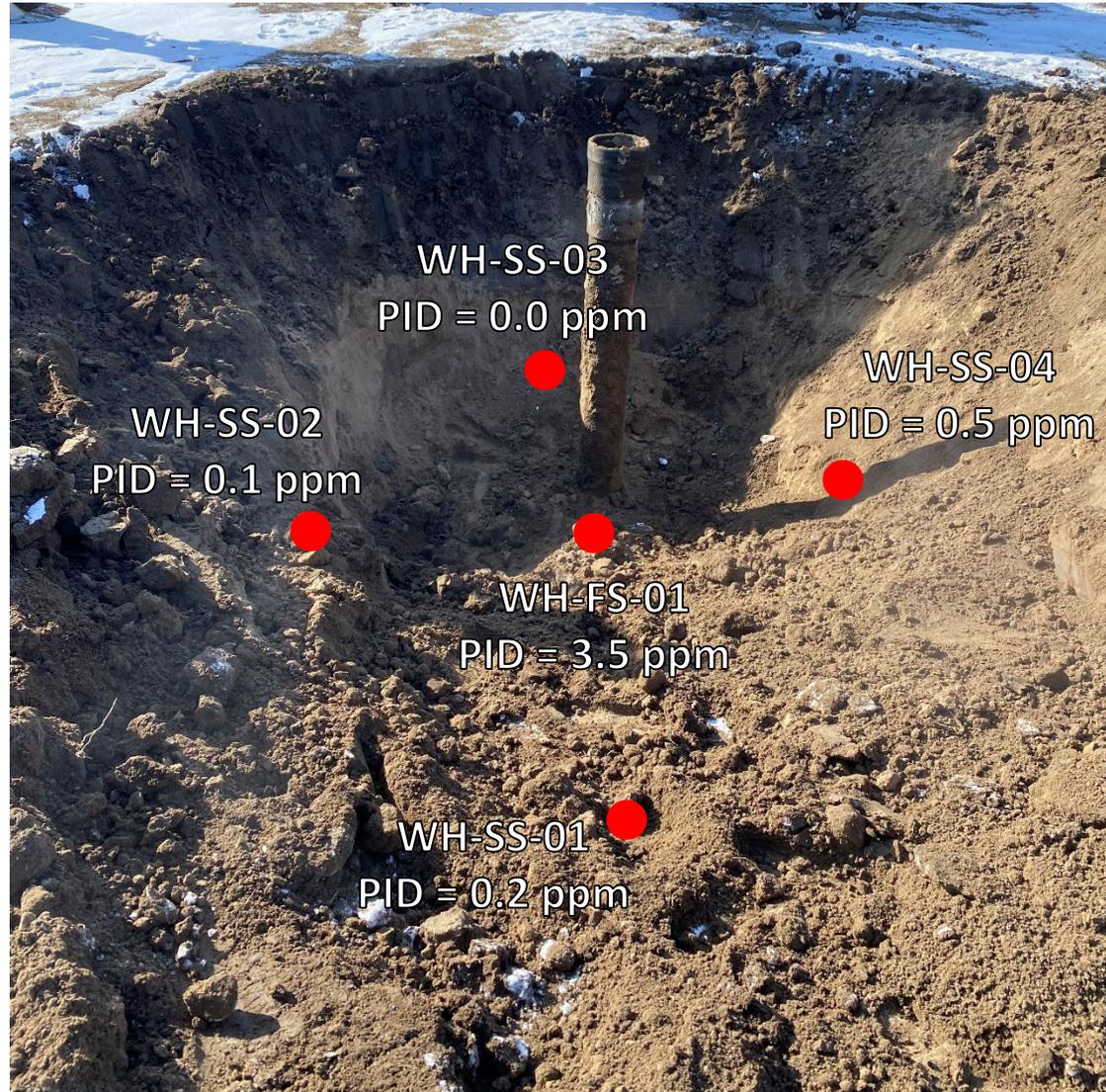
Lehfeltdt #C27-15  
API # 05-123-13851  
Remediation # 26094

Closure Assessment

March 2023



# Wellhead Excavation – 03/28/23



Looking south

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



April 13, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Lehfeldt #C27-15

Project Number - [none]

Attached are your analytical results for Noble - Lehfeldt #C27-15 received by Origins Laboratory, Inc. March 28, 2023. This project is associated with Origins project number Y303734-01.

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Lehfeldt #C27-15

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y303734-01	Soil	March 28, 2023 9:28	03/28/2023 15:10

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: U303734

Client: Eagle Environ  
 Client Project ID: Lehfeltd #C2715

Checklist Completed by: ISH/OE

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

Date/time completed: 3/29/23

Airbill #: na

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

Cooler Number/Temperature: 1 / 2 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

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.				
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 negative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 3/29/23

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**WH-FS-01@6'**  
**3/28/2023 9:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y303734-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	<b>0.399</b>		0.0994	mg/L	1	B3C3008	03/30/2023	03/31/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>49.8</b>		25.0	mg/kg	1	B3C2924	03/29/2023	03/30/2023	
Residual Range Organics (C28-C40)	<b>101</b>		100	"	"	"	"	"	

Surrogate: <i>o</i> -Terphenyl	95.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2933	03/29/2023	03/30/2023	U
1,3,5-Trimethylbenzene	<b>0.00416</b>		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**WH-FS-01@6'**  
**3/28/2023 9:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y303734-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 4-Bromofluorobenzene	101 %		70-130			B3C29 33	03/29/2023	03/30/2023	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.42		0.499	meq/L	10	[CALC]	03/30/2023	03/31/2023	
Magnesium	0.933		0.823	"	"	"	"	"	
Sodium	2.34		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00215	0.00109	0.00201	mg/Kg	1	L673265	03/31/2023	03/31/2023	
2-Methylnaphthalene	0.00218	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000614	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000661	0.000624	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000647	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.000673	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**WH-FS-01@6'**  
**3/28/2023 9:28:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

**Waypoint Analytical, LLC.**  
**Y303734-01 (Soil)**

**PAH by 8270D SIM**

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L673265	03/31/2023	03/31/2023	
Pyrene	<b>0.000861</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>8.28</b>			pH Units	1	B3C3011	03/30/2023	03/31/2023	
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**SAR by 20B Saturated Paste**

SAR	<b>1.81</b>			SAR	1	B3C3009	03/30/2023	03/31/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.762</b>		0.00500	mmhos/cm	1	B3C3011	03/30/2023	03/31/2023	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltdt #C27-15

**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
<b>Batch B3C2924 - EPA 3580</b>										
<b>Blank (B3C2924-BLK1)</b>										
					Prepared: 03/29/2023 Analyzed: 03/30/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.8	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**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 B3C2924 - EPA 3580**

**LCS (B3C2924-BS1)**

Prepared: 03/29/2023 Analyzed: 03/30/2023

Diesel (C10-C28)	811	50.0	mg/kg	1000		81.1	70-130			
Residual Range Organics (C28-C40)	819	200	"	1000		81.9	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.9	50-150			

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 8000 W 44th Ave  
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltdt #C27-15

**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 B3C2924 - EPA 3580**

<b>Matrix Spike (B3C2924-MS1)</b>	<b>Source: Y303728-01</b>			<b>Prepared: 03/29/2023 Analyzed: 03/30/2023</b>						
Diesel (C10-C28)	843	50.0	mg/kg	1000	ND	84.3	70-130			
Residual Range Organics (C28-C40)	860	200	"	1000	ND	86.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.1	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltdt #C27-15

**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 B3C2924 - EPA 3580**

<b>Matrix Spike Dup (B3C2924-MSD1)</b>	<b>Source: Y303728-01</b>			<b>Prepared: 03/29/2023 Analyzed: 03/30/2023</b>						
Diesel (C10-C28)	853	50.0	mg/kg	1000	ND	85.3	70-130	1.22	35	
Residual Range Organics (C28-C40)	857	200	"	1000	ND	85.7	70-130	0.393	35	
Surrogate: o-Terphenyl	46		"	49.8		93.3	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**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 B3C2933 - EPA 5030 (soil)**

**Blank (B3C2933-BLK1)**

Prepared: 03/29/2023 Analyzed: 03/29/2023

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	0.097		"	0.125	77.8		70-130			
Surrogate: Toluene-d8	0.16		"	0.125	125		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**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 B3C2933 - EPA 5030 (soil)**

**LCS (B3C2933-BS1)**

Prepared: 03/29/2023 Analyzed: 03/29/2023

1,2,4-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100		98.6	70-130			
1,3,5-Trimethylbenzene	0.0987	0.00200	"	0.100		98.7	70-130			
Benzene	0.0981	0.00200	"	0.100		98.1	70-130			
Ethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.0928	0.00200	"	0.100		92.8	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**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 B3C2933 - EPA 5030 (soil)

Matrix Spike (B3C2933-MS1)	Source: Y303690-01			Prepared: 03/29/2023 Analyzed: 03/29/2023						
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130			
1,3,5-Trimethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
Benzene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
Ethylbenzene	0.0879	0.00200	"	0.100	ND	87.9	70-130			
Naphthalene	0.0982	0.00380	"	0.100	ND	98.2	70-130			
Toluene	0.0815	0.00200	"	0.100	ND	81.5	70-130			
o-Xylene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
m,p-Xylene	0.184	0.00400	"	0.200	ND	92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**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 B3C2933 - EPA 5030 (soil)

Matrix Spike Dup (B3C2933-MSD1)	Source: Y303690-01			Prepared: 03/29/2023 Analyzed: 03/29/2023						
1,2,4-Trimethylbenzene	0.0919	0.00200	mg/kg	0.100	ND	91.9	70-130	0.283	20	
1,3,5-Trimethylbenzene	0.0926	0.00200	"	0.100	ND	92.6	70-130	1.17	20	
Benzene	0.0919	0.00200	"	0.100	ND	91.9	70-130	1.03	20	
Ethylbenzene	0.0882	0.00200	"	0.100	ND	88.2	70-130	0.341	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	5.96	20	
Toluene	0.0827	0.00200	"	0.100	ND	82.7	70-130	1.44	20	
o-Xylene	0.0847	0.00200	"	0.100	ND	84.7	70-130	1.14	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.5	70-130	0.510	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**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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**Classical Chemistry Parameters - 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 B3C3008 - DTPA Sorbitol Preparation**

**Blank (B3C3008-BLK1)**

Prepared: 03/30/2023 Analyzed: 04/03/2023

Boron ND 0.100 mg/L

**Duplicate (B3C3008-DUP1)**

Source: Y303690-01

Prepared: 03/30/2023 Analyzed: 04/03/2023

Boron 0.0339 0.0990 mg/L 0.0356 4.97 50

**Batch B3C3009 - Saturated Paste Metals**

**Blank (B3C3009-BLK1)**

Prepared: 03/30/2023 Analyzed: 03/31/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B3C3009-DUP1)**

Source: Y303691-05

Prepared: 03/30/2023 Analyzed: 03/31/2023

SAR 0.00 SAR 4.46 200 200

Calcium PPM 38.8 10.0 mg/L 38.2 1.56 50

Magnesium PPM 4.37 10.0 " 4.23 3.33 50

Sodium PPM 103 10.0 " 109 5.16 50

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3C3011 - Saturated Paste pH/EC</b>										
<b>Blank (B3C3011-BLK1)</b>					Prepared: 03/30/2023 Analyzed: 03/31/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3C3011-DUP1)</b>					<b>Source: Y303691-05</b> Prepared: 03/30/2023 Analyzed: 03/31/2023					
pH	8.20		pH Units		8.07			1.60	25	
Specific Conductance (EC)	0.758	0.00500	mmhos/cm		0.830			9.02	25	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltd #C27-15

**PAH by 8270D SIM - 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 L673265 - 3550B**

<b>MSD (L 89891-MSD-L673265)</b>	<b>Source: 89891</b>			<b>Prepared: 03/31/2023 Analyzed: 03/31/2023</b>						
2-Methylnaphthalene	0.104	0.00201	mg/Kg	0.164	<0.00194	63.4	30-130	4.1	30	
Fluorene	0.126	0.00067	"	0.164	<0.000286	76.8	30-130	3.2	30	
Pyrene	0.119	0.00067	"	0.164	<0.000643	72.5	30-130	0.8	30	
Indeno(1,2,3-cd)pyrene	0.107	0.00067	"	0.164	<0.000627	65.2	30-130	8.6	30	
Fluoranthene	0.117	0.00067	"	0.164	<0.000394	71.3	30-130	2.5	30	
Dibenz(a,h)anthracene	0.15	0.00067	"	0.164	<0.000614	91.4	30-130	10.5	30	
Chrysene	0.119	0.00067	"	0.164	<0.000624	72.5	30-130	0.8	30	
Naphthalene	0.105	0.00201	"	0.164	<0.00145	64	30-130	4.8	30	
1-Methylnaphthalene	0.112	0.00201	"	0.164	<0.00109	68.2	30-130	4.5	30	
Benzo(k)fluoranthene	0.11	0.00067	"	0.164	<0.000437	67	30-130	0.9	30	
Acenaphthene	0.11	0.00067	"	0.164	<0.000304	67	30-130	1.8	30	
Anthracene	0.126	0.00067	"	0.164	<0.000334	76.8	30-130	0.7	30	
Benzo(a)anthracene	0.112	0.00067	"	0.164	<0.000493	68.2	30-130	3.6	30	
Benzo(a)pyrene	0.129	0.00067	"	0.164	<0.000468	78.6	30-130	2.3	30	
Benzo(b)fluoranthene	0.0915	0.00067	"	0.164	<0.000585	55.7	30-130	1	30	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>60.1</i>		<i>"</i>	<i>0.329</i>	<i>171</i>	<i>60.1</i>	<i>33-115</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>55.3</i>		<i>"</i>	<i>0.329</i>	<i>160</i>	<i>55.3</i>	<i>29-110</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>63.2</i>		<i>"</i>	<i>0.329</i>	<i>195</i>	<i>63.2</i>	<i>33-122</i>			

<b>MS (L 89891-MS-L673265)</b>	<b>Source: 89891</b>			<b>Prepared: 03/31/2023 Analyzed: 03/31/2023</b>						
Benzo(k)fluoranthene	0.111	0.00067	mg/Kg	0.167	<0.000437	66.4	30-130			
Acenaphthene	0.108	0.00067	"	0.167	<0.000304	64.6	30-130			
Naphthalene	0.1	0.00201	"	0.167	<0.00145	59.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0981	0.00067	"	0.167	<0.000627	58.7	30-130			
Fluorene	0.122	0.00067	"	0.167	<0.000286	73	30-130			
Fluoranthene	0.114	0.00067	"	0.167	<0.000394	68.2	30-130			
Dibenz(a,h)anthracene	0.135	0.00067	"	0.167	<0.000614	80.8	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltdt #C27-15

**PAH by 8270D SIM - 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 L673265 - 3550B**

MS (L 89891-MS-L673265)	Source: 89891		Prepared: 03/31/2023 Analyzed: 03/31/2023							
Chrysene	0.12	0.00067	mg/Kg	0.167	<0.000624	71.8	30-130			
1-Methylnaphthalene	0.107	0.00201	"	0.167	<0.00109	64	30-130			
Benzo(a)pyrene	0.126	0.00067	"	0.167	<0.000468	75.4	30-130			
Anthracene	0.125	0.00067	"	0.167	<0.000334	74.8	30-130			
Pyrene	0.118	0.00067	"	0.167	<0.000643	70.6	30-130			
2-Methylnaphthalene	0.0998	0.00201	"	0.167	<0.00194	59.7	30-130			
Benzo(b)fluoranthene	0.0905	0.00067	"	0.167	<0.000585	54.1	30-130			
Benzo(a)anthracene	0.108	0.00067	"	0.167	<0.000493	64.6	30-130			
Surrogate: Nitrobenzene-d5	51.9		"	0.333	160	51.9	29-110			
Surrogate: 4-Terphenyl-d14	61.2		"	0.333	195	61.2	33-122			
Surrogate: 2-Fluorobiphenyl	55.8		"	0.333	171	55.8	33-115			

LCS (LCS-L673265)	Prepared: 03/31/2023 Analyzed: 03/31/2023									
Chrysene	0.109	0.00067	mg/Kg	0.167		65.2	30-130			
Dibenz(a,h)anthracene	0.134	0.00067	"	0.167		80.2	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Fluorene	0.0992	0.00067	"	0.167		59.4	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Naphthalene	0.0943	0.00201	"	0.167		56.4	30-130			
Benzo(k)fluoranthene	0.137	0.00067	"	0.167		82	30-130			
Pyrene	0.11	0.00067	"	0.167		65.8	30-130			
Benzo(a)pyrene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(a)anthracene	0.109	0.00067	"	0.167		65.2	30-130			
Anthracene	0.104	0.00067	"	0.167		62.2	30-130			
Acenaphthene	0.0967	0.00067	"	0.167		57.9	30-130			
2-Methylnaphthalene	0.0979	0.00201	"	0.167		58.6	30-130			
1-Methylnaphthalene	0.0984	0.00201	"	0.167		58.9	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Lehfeltdt #C27-15

**PAH by 8270D SIM - 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 L673265 - 3550B**

**LCS (LCS-L673265)**

Prepared: 03/31/2023 Analyzed: 03/31/2023

Benzo(b)fluoranthene	0.0944	0.00067	mg/Kg	0.167		56.5	30-130			
Surrogate: Nitrobenzene-d5	53.7		"	0.333		53.7	29-110			
Surrogate: 4-Terphenyl-d14	68.4		"	0.333		68.4	33-122			
Surrogate: 2-Fluorobiphenyl	54.6		"	0.333		54.6	33-115			

**LRB (LRB-L673265)**

Prepared: 03/31/2023 Analyzed: 03/31/2023

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	0.00201	"				-			
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	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	60.9		"	0.333		60.9	29-110			
Surrogate: 4-Terphenyl-d14	71.7		"	0.333		71.7	33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333		63	33-115			

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Project Number: [none]  
Project: Noble - Lehfeldt #C27-15

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**Notes and Definitions**

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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