

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure <u> </u>		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: Lucci B #1-20		Date: 02/05/24					Remediation Project #: 29696		
Associated Wells: 05-123-25938		Age of Site: Years					Number of Photos Attached: 6		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.428584 / -104.503234		Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition.									
USCS Soil Type: SM				Estimated Depth to Groundwater: Approx. 15-25'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Wellhead(s)									
Well API	05-123-25938								
Age	Years								
Condition of surface around wellhead	Good - Per Crew								
PID Readings	WH-N: 1.0	WH-E: 0.9	WH-S: 1.3	WH-W: 1.3					
Condition of subsurface (staining present)	Good - No odor/no staining								
PID Readings	3.0	3.2	2.4	2.5	3.6				
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01				
Photo Number(s)	See photolog								
Other observations regarding wellheads: Well casing cut/capped following assessment.									
Summary									
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 9				Total number of samples collected: 9					
Highest PID Reading: 3.6				Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				N/A					
Lateral extent:				Estimated spill volume:					
				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No 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				N/A					
Free product observed? Yes No				Volume of groundwater removed prior to sampling:					
				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									



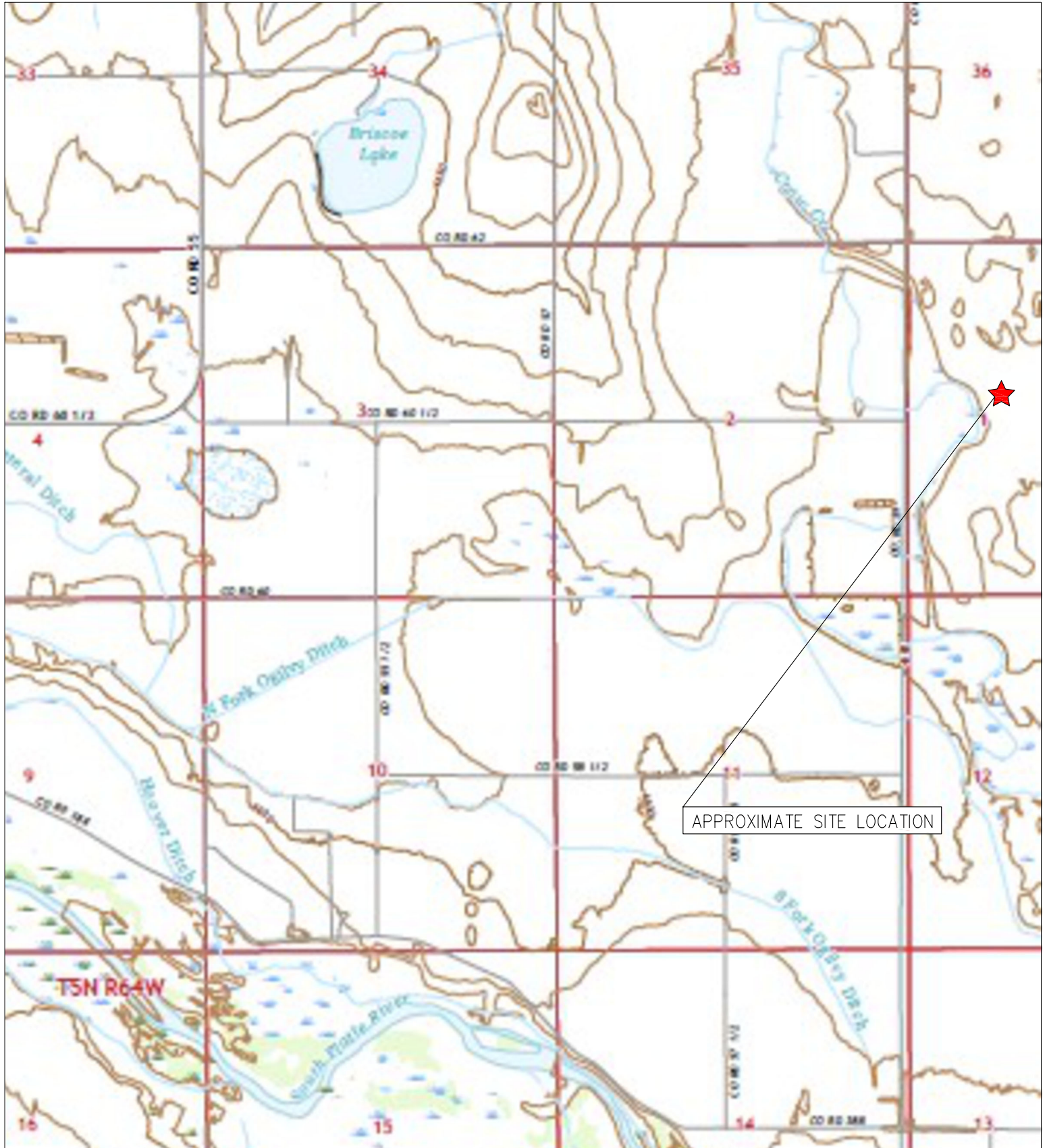
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Sampling Location Map

Figure 4: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 LUCCI B #1-20
 CLOSURE ASSESSMENT
 40.428584 / -104.503234
 SW¼ NW¼ SEC.1 T5N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25938
 REMEDIATION # 29696



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



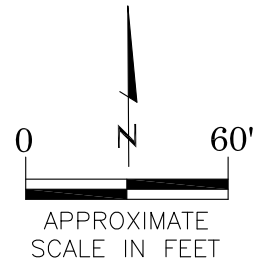
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 KERSEY, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER LUCCI B #1-20 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 LUCCI B #1-20
 CLOSURE ASSESSMENT
 40.428584 / -104.503234
 SW¼ NW¼ SEC.1 T5N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25938
 REMEDIATION # 29696

FIGURE NO.
2

DRAWN BY:
JF



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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

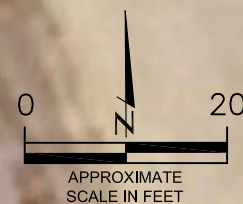
SOIL SAMPLING LOCATION MAP
 LUCCI B #1-20
 CLOSURE ASSESSMENT
 40.428584 / -104.503234
 SW¼ NW¼ SEC.1 T5N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25938
 REMEDIATION # 29696

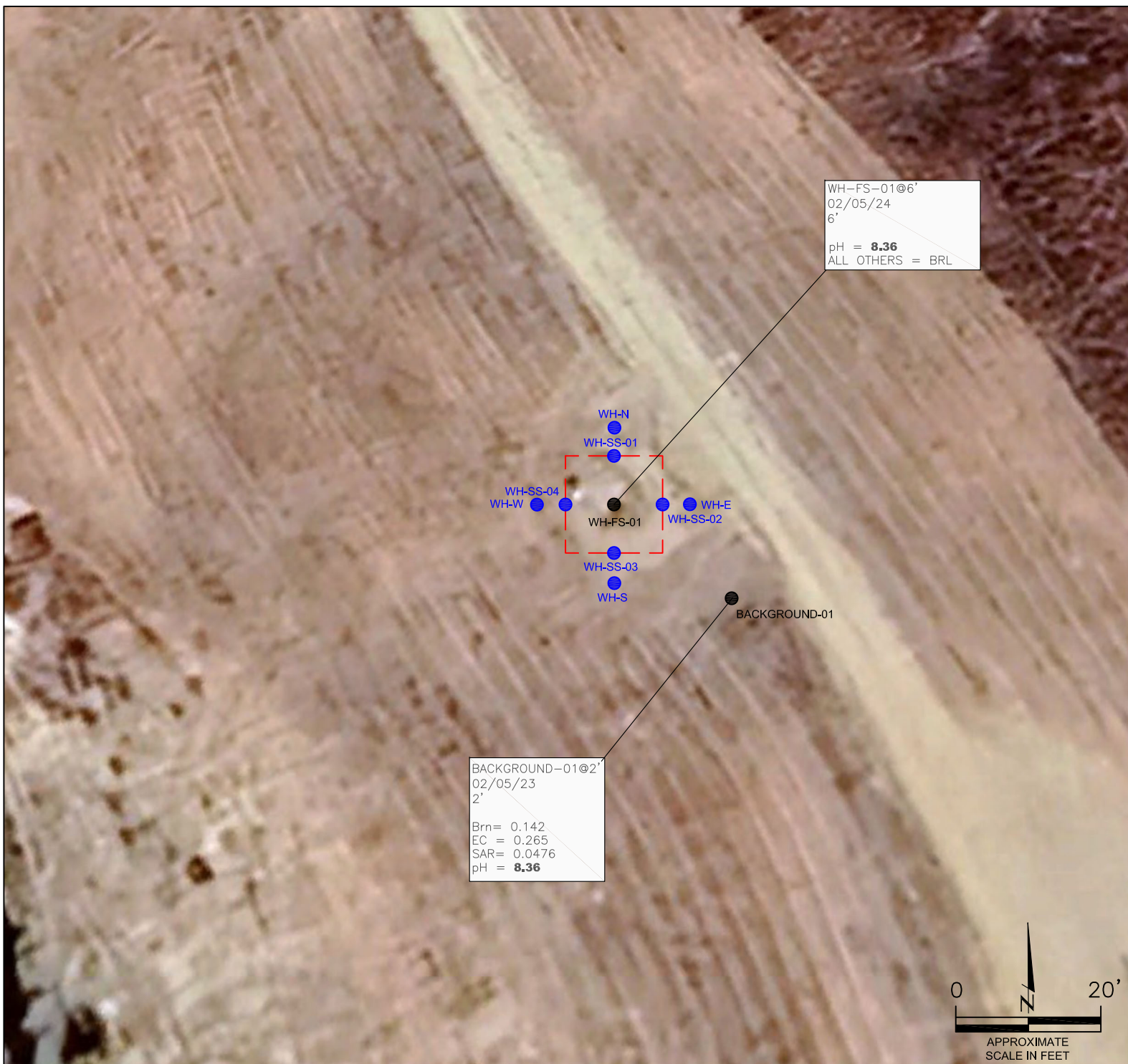
FIGURE NO.
3

DRAWN BY:
JF



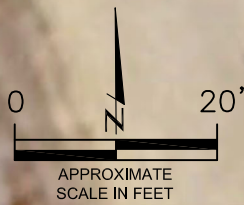
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WH-FS-01@6'
 02/05/24
 6'
 pH = **8.36**
 ALL OTHERS = BRL

BACKGROUND-01@2'
 02/05/23
 2'
 Brn = 0.142
 EC = 0.265
 SAR = 0.0476
 pH = **8.36**



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 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)
 N = NAPHTHALENE (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 = 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
 LUCCI B #1-20
 CLOSURE ASSESSMENT
 40.428584 / -104.503234
 SW¼ NW¼ SEC.1 T5N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25938
 REMEDIATION # 29696

FIGURE NO.
 4
 DRAWN BY:
 JF

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
LUCCI B #1-20
CLOSURE ASSESSMENT
40.428584 / -104.503234
SW¼ NW¼ SEC.1 T5N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-25938
REMEDIATION # 29696

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 6' (40.428582 / -104.503248)	02/05/24	6	3.6	Y
WH-SS-01 @ 5' (40.428597 / -104.503247)	02/05/24	5	3.0	N
WH-SS-02 @ 5' (40.428582 / -104.503226)	02/05/24	5	3.2	N
WH-SS-03 @ 5' (40.428569 / -104.503245)	02/05/24	5	2.4	N
WH-SS-04 @ 5' (40.428583 / -104.503266)	02/05/24	5	2.5	N
WH-N @ 0.5' (40.428621 / -104.503246)	02/05/24	0.5	1.0	N
WH-E @ 0.5' (40.428579 / -104.503202)	02/05/24	0.5	0.9	N
WH-S @ 0.5' (40.428545 / -104.503247)	02/05/24	0.5	1.3	N
WH-W @ 0.5' (40.428583 / -104.503301)	02/05/24	0.5	1.3	N
Background-01 @ 2' (40.428555 / -104.503281)	02/05/24	2	2.0	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
LUCCI B #1-20
CLOSURE ASSESSMENT
40.428584 / -104.503234
SW¼ NW¼ SEC.1 T5N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-25938
REMEDIATION # 29696

Sample Location (Latitude / Longitude)				WH-FS-01 @ 6'	Background-01 @ 2'
				(40.428582 / -104.503248)	(40.428555 / -104.503281)
Sample Date				2/5/2024	2/5/2024
Sample Depth				6	2
PID Reading (ppm-v)				3.6	2.0
Regulatory Limits					
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs		
VOCs					
Benzene	mg/kg	1.2	0.0026	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS					
TPH-GRO	mg/kg	500	--	<0.200	<0.200
TPH-DRO	mg/kg	500	--	<25.0	<25.0
TPH-RRO	mg/kg	500	--	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS					
1-Methyl-naphthalene	mg/kg	18	0.006	<0.002	<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	<0.002	<0.002
Acenaphthene	mg/kg	360	0.55	<0.020	<0.020
Anthracene	mg/kg	1800	5.8	<0.020	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.005	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.020	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.020	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.020	<0.020
Chrysene	mg/kg	110	9	<0.020	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.020	<0.020
Fluoranthene	mg/kg	240	8.9	<0.020	<0.020
Fluorene	mg/kg	240	0.54	<0.020	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.020	<0.020
Pyrene	mg/kg	180	1.3	<0.020	<0.020
SOIL SUITABILITY (Inorganics)					
Boron	mg/L	2	--	<0.101	0.142
pH	standard unit	6-8.3	--	8.36	8.36
Sodium Adsorption Ratio (SAR)	--	<6	--	0.0456	0.0476
Specific Conductance (EC)	mmhos/cm	<4	--	0.148	0.265
ECMC = Energy & Carbon Management Commission NA - Not Analyzed VOCs - Volatile Organic Compounds mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter RSSLs = Residential Soil Screening Levels PID = Photoionization Detector GSSLs = Protection of Groundwater Soil Screening Levels ppm-v = parts per million by volume TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics mg/L = milligrams per liter TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics 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 BOLD exceed ECMC Table 915-1 Regulatory Limits.					





ATTACHMENT A

Photo Log

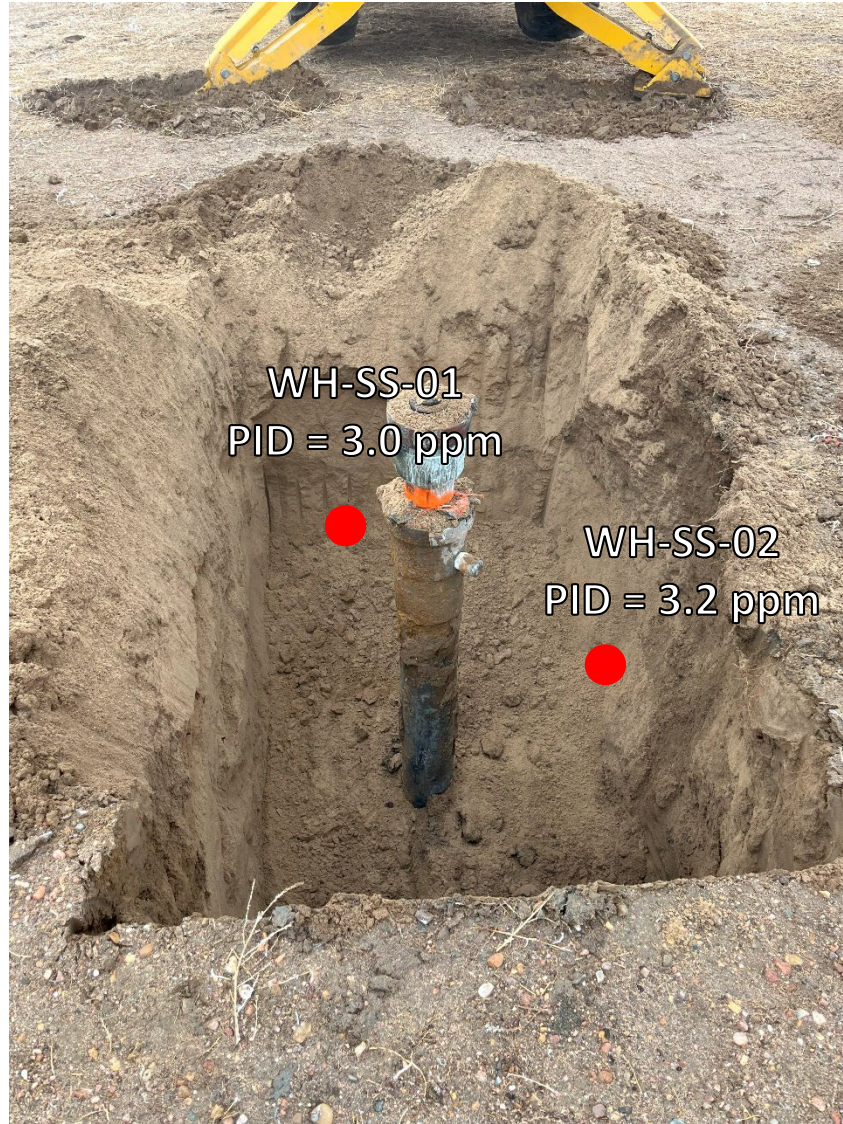
Lucci B #1-20
API # 05-123-25938
Remediation # 29696

Closure Assessment

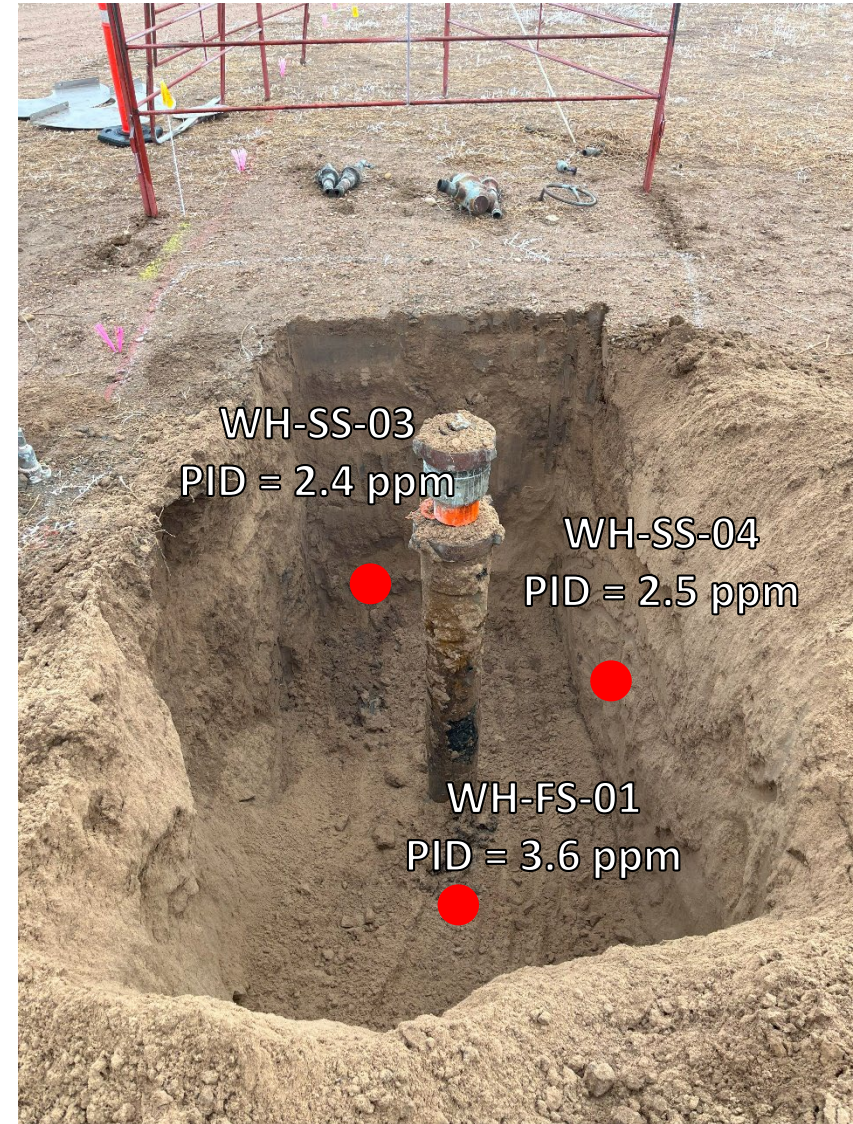
February 2024



Wellhead Excavation – 02/05/24



Looking north
No petroleum hydrocarbon staining or odor observed



Looking south
No petroleum hydrocarbon staining or odor observed

Wellhead Surface – 02/05/24



Looking north

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking east

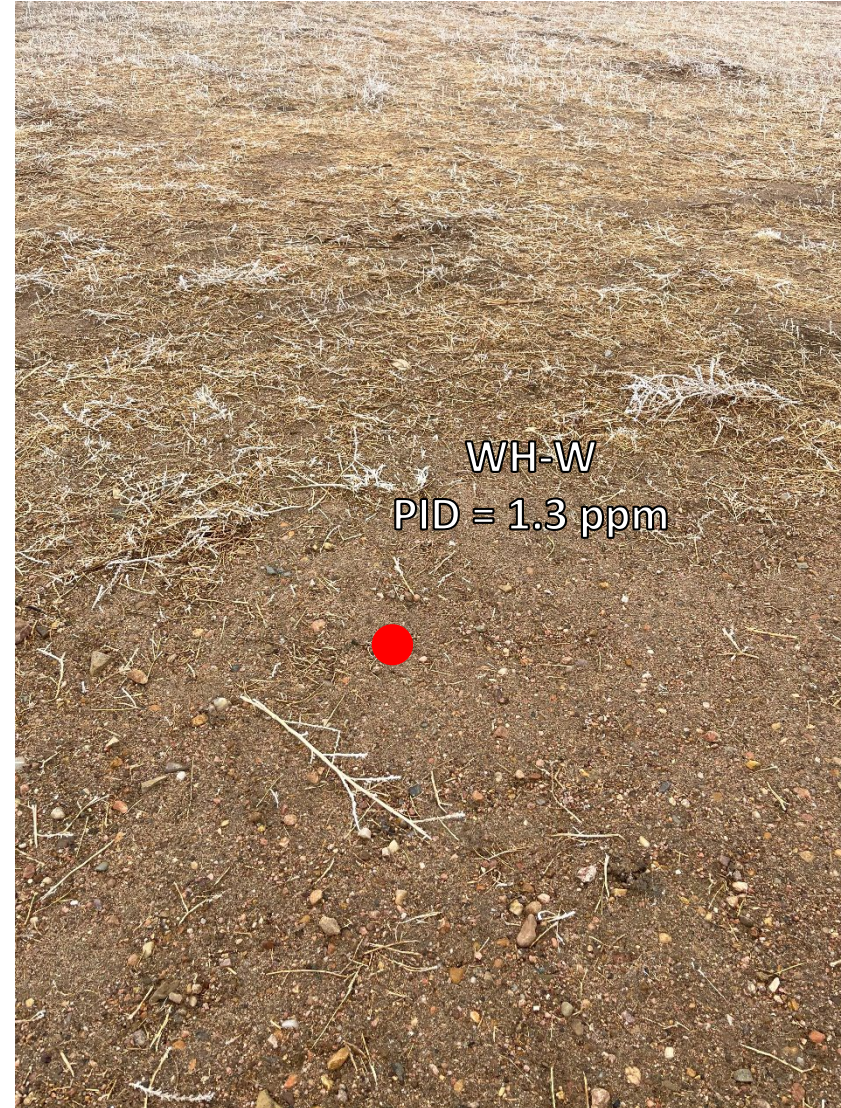
Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

Wellhead Surface – 02/06/24



Looking south

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking west

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



ATTACHMENT B

Laboratory Analytical Report



February 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Lucci B #1-20

Project Number - [none]

Attached are your analytical results for Noble - Lucci B #1-20 received by Origins Laboratory, Inc. February 05, 2024. This project is associated with Origins project number Y402131-01.

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

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

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

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

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

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



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - Lucci B #1-20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y402131-01	Soil	February 5, 2024 10:35	02/05/2024 15:01
Background-01@2'	Y402131-02	Soil	February 5, 2024 10:20	02/05/2024 15:01

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4402131

Client: Eagle

Client Project ID: Lucci B 1-20

Checklist Completed by: EHS

Shipped Via: HD

Date/time completed: 2/5/24

(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 133 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 2/7/24

Origins Laboratory, Inc.

[Signature]

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

WH-FS-01@6'
2/5/2024 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y402131-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B0701	ADM	02/07/2024	02/14/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.7 %	50-150			"	"	"	"	
--------------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B0633	JSM	02/06/2024	02/07/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130			"	"	"	"	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

WH-FS-01@6'
2/5/2024 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y402131-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.733	0.499	meq/L	10	[CALC]	ACC	02/07/2024	02/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B0726	Windo	02/07/2024	02/08/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

WH-FS-01@6'
2/5/2024 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402131-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	101 %	60-130			B4B07 26		02/07/2024	02/08/2024	
Surrogate: Anthracene-d10	94.3 %	60-130			"		"	"	
Surrogate: Pyrene-d10	99.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.36		pH Units	1	B4B0722	EAL	02/07/2024	02/08/2024	
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SAR by 20B Saturated Paste

SAR	0.0456	0.0100	SAR	1	B4B0717	ACC	02/07/2024	02/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.148	0.00500	mmhos/cm	1	B4B0722	EAL	02/07/2024	02/08/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

Background-01@2'
2/5/2024 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402131-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.142	0.101	mg/L	1	B4B0814	ACC	02/08/2024	02/09/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.34	0.499	meq/L	10	[CALC]	ACC	02/07/2024	02/08/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.36		pH Units	1	B4B0722	EAL	02/07/2024	02/08/2024
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SAR by 20B Saturated Paste

SAR	0.0476	0.0100	SAR	1	B4B0717	ACC	02/07/2024	02/08/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.265	0.00500	mmhos/cm	1	B4B0722	EAL	02/07/2024	02/08/2024
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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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 B4B0633 - EPA 5030 (soil)

Blank (B4B0633-BLK1)

Prepared: 02/06/2024 Analyzed: 02/06/2024

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	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.7		70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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 B4B0633 - EPA 5030 (soil)

LCS (B4B0633-BS1)

Prepared: 02/06/2024 Analyzed: 02/06/2024

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0960	0.00200	"	0.100		96.0	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0958	0.00380	"	0.100		95.8	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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 B4B0633 - EPA 5030 (soil)

Matrix Spike (B4B0633-MS1)	Source: Y402155-01			Prepared: 02/06/2024 Analyzed: 02/06/2024						
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
Benzene	0.0931	0.00200	"	0.100	ND	93.1	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.00190	98.9	70-130			
Toluene	0.0920	0.00200	"	0.100	ND	92.0	70-130			
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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 B4B0633 - EPA 5030 (soil)

Matrix Spike Dup (B4B0633-MSD1)	Source: Y402155-01			Prepared: 02/06/2024 Analyzed: 02/06/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	7.80	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	9.51	20	
Benzene	0.108	0.00200	"	0.100	ND	108	70-130	14.5	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	9.42	20	
Naphthalene	0.105	0.00380	"	0.100	0.00190	103	70-130	3.70	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	13.7	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	9.49	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	8.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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 B4B0701 - EPA 3550B										
Blank (B4B0701-BLK1)										
					Prepared: 02/07/2024 Analyzed: 02/14/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.6	50-150			

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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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
Batch B4B0701 - EPA 3550B										
LCS (B4B0701-BS1)										
					Prepared: 02/07/2024 Analyzed: 02/14/2024					
Diesel (C10-C28)	927	50.0	mg/kg	1000		92.7	70-130			
Residual Range Organics (C28-C40)	926	200	"	1000		92.6	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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
Batch B4B0701 - EPA 3550B										
Matrix Spike (B4B0701-MS1)		Source: Y402102-01			Prepared: 02/07/2024 Analyzed: 02/14/2024					
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130			
Residual Range Organics (C28-C40)	904	200	"	1000	50.9	85.3	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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
Batch B4B0701 - EPA 3550B										
Matrix Spike Dup (B4B0701-MSD1)					Source: Y402102-01					Prepared: 02/07/2024 Analyzed: 02/14/2024
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	6.08	35	
Residual Range Organics (C28-C40)	941	200	"	1000	50.9	89.0	70-130	4.01	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0726 - EPA 3580

Blank (B4B0726-BLK1)

Prepared: 02/07/2024 Analyzed: 02/08/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0726 - EPA 3580

LCS (B4B0726-BS1)

Prepared: 02/07/2024 Analyzed: 02/08/2024

1-Methylnaphthalene	0.167	0.002	mg/kg	0.200		83.5	70-130			
2-Methylnaphthalene	0.166	0.002	"	0.200		82.8	70-130			
Acenaphthene	0.163	0.020	"	0.200		81.4	70-130			
Anthracene	0.159	0.020	"	0.200		79.7	70-130			
Benzo (a) anthracene	0.161	0.005	"	0.200		80.5	70-130			
Benzo (a) pyrene	0.171	0.020	"	0.200		85.3	70-130			
Benzo (b) fluoranthene	0.176	0.020	"	0.200		87.9	70-130			
Benzo (g,h,i) perylene	0.176	0.020	"	0.200		88.1	70-130			
Benzo (k) fluoranthene	0.172	0.020	"	0.200		85.8	70-130			
Chrysene	0.165	0.020	"	0.200		82.6	70-130			
Dibenz (a,h) anthracene	0.174	0.020	"	0.200		87.0	70-130			
Fluoranthene	0.156	0.020	"	0.200		78.2	70-130			
Fluorene	0.163	0.020	"	0.200		81.5	70-130			
Indeno (1,2,3-cd) pyrene	0.168	0.020	"	0.200		84.1	70-130			
Naphthalene	0.168	0.002	"	0.200		83.8	70-130			
Phenanthrene	0.157	0.020	"	0.200		78.6	70-130			
Pyrene	0.167	0.020	"	0.200		83.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		93.0	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4B0726-MS1)

Source: Y401767-01

Prepared: 02/07/2024 Analyzed: 02/08/2024

1-Methylnaphthalene	0.162	0.002	mg/kg	0.200	ND	80.8	70-130			
2-Methylnaphthalene	0.161	0.002	"	0.200	ND	80.4	70-130			
Acenaphthene	0.161	0.020	"	0.200	ND	80.6	70-130			
Anthracene	0.149	0.020	"	0.200	0.0009	74.1	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0726 - EPA 3580

Matrix Spike (B4B0726-MS1)		Source: Y401767-01			Prepared: 02/07/2024 Analyzed: 02/08/2024					
Benzo (a) anthracene	0.160	0.005	mg/kg	0.200	0.001	79.7	70-130			
Benzo (a) pyrene	0.163	0.020	"	0.200	ND	81.5	70-130			
Benzo (b) fluoranthene	0.174	0.020	"	0.200	ND	86.9	70-130			
Benzo (g,h,i) perylene	0.169	0.020	"	0.200	0.004	82.8	70-130			
Benzo (k) fluoranthene	0.179	0.020	"	0.200	ND	89.7	70-130			
Chrysene	0.161	0.020	"	0.200	0.0006	80.1	70-130			
Dibenz (a,h) anthracene	0.170	0.020	"	0.200	ND	84.9	70-130			
Fluoranthene	0.157	0.020	"	0.200	ND	78.4	70-130			
Fluorene	0.162	0.020	"	0.200	ND	81.1	70-130			
Indeno (1,2,3-cd) pyrene	0.165	0.020	"	0.200	ND	82.5	70-130			
Naphthalene	0.164	0.002	"	0.200	ND	82.1	70-130			
Phenanthrene	0.152	0.020	"	0.200	ND	76.0	70-130			
Pyrene	0.160	0.020	"	0.200	ND	80.0	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	200		"	200		98.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B4B0726-MSD1)		Source: Y401767-01			Prepared: 02/07/2024 Analyzed: 02/08/2024					
1-Methylnaphthalene	0.167	0.002	mg/kg	0.200	ND	83.6	70-130	3.37	20	
2-Methylnaphthalene	0.168	0.002	"	0.200	ND	83.8	70-130	4.15	20	
Acenaphthene	0.167	0.020	"	0.200	ND	83.6	70-130	3.71	20	
Anthracene	0.157	0.020	"	0.200	0.0009	77.9	70-130	4.93	20	
Benzo (a) anthracene	0.171	0.005	"	0.200	0.001	85.1	70-130	6.43	20	
Benzo (a) pyrene	0.156	0.020	"	0.200	ND	77.9	70-130	4.46	20	
Benzo (b) fluoranthene	0.189	0.020	"	0.200	ND	94.3	70-130	8.25	20	
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	0.004	92.3	70-130	10.6	20	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4B0726 - EPA 3580

Matrix Spike Dup (B4B0726-MSD1)	Source: Y401767-01			Prepared: 02/07/2024 Analyzed: 02/08/2024						
Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	ND	94.5	70-130	5.25	20	
Chrysene	0.167	0.020	"	0.200	0.0006	83.3	70-130	3.82	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.6	70-130	14.0	20	
Fluoranthene	0.162	0.020	"	0.200	ND	80.9	70-130	3.16	20	
Fluorene	0.168	0.020	"	0.200	ND	83.8	70-130	3.22	20	
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200	ND	93.3	70-130	12.3	20	
Naphthalene	0.171	0.002	"	0.200	ND	85.6	70-130	4.07	20	
Phenanthrene	0.161	0.020	"	0.200	ND	80.6	70-130	5.84	20	
Pyrene	0.167	0.020	"	0.200	ND	83.3	70-130	4.10	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	190		"	200		96.0	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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 B4B0717 - Saturated Paste Metals

Blank (B4B0717-BLK1)

Prepared: 02/07/2024 Analyzed: 02/08/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4B0717-DUP1)

Source: Y402130-01

Prepared: 02/07/2024 Analyzed: 02/08/2024

Calcium PPM	10.4	10.0	mg/L		11.2			7.85	50	
SAR	ND	0.0100	SAR		4.35				200	
Magnesium PPM	3.09	10.0	mg/L		3.69			17.7	50	
Sodium PPM	61.5	10.0	"		65.8			6.74	50	

Batch B4B0814 - DTPA Sorbitol Preparation

Blank (B4B0814-BLK1)

Prepared: 02/08/2024 Analyzed: 02/09/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4B0814-DUP1)

Source: Y402130-01

Prepared: 02/08/2024 Analyzed: 02/09/2024

Boron	0.245	0.0987	mg/L		0.249			1.51	50	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Lucci B #1-20

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 B4B0722 - Saturated Paste pH/EC

Blank (B4B0722-BLK1)

Prepared: 02/07/2024 Analyzed: 02/08/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4B0722-DUP1)

Source: Y402130-01

Prepared: 02/07/2024 Analyzed: 02/08/2024

pH	8.50		pH Units		8.48			0.236	25	
Specific Conductance (EC)	0.397	0.00500	mmhos/cm		0.444			11.1	25	

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Lucci B #1-20

Notes and Definitions

U Sample is Non-Detect.

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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Jordan A. Bynon, Project Manager