

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 11/14/23 - 11/15/23		Partially Buried Vault Closure <u> </u>	
Site Name & COGCC Facility Number: HSR Eachus #3-23		Date: 09/26/23					Remediation Project #: 30130		
Associated Wells: 05-123-18124		Age of Site: Years					Number of Photos Attached: 2		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.213970 / -104.631650			Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good Condition									
USCS Soil Type: SC				Estimated Depth to Groundwater: Approx. 10-20'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Strong hydrocarbon odor observed within excavation, no staining 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	05-123-18124								
Age	Years								
Condition of surface around wellhead	Good - No Odor/Staining								
PID Readings	WH-N: 0.3	WH-E: 0.2	WH-S: 0.9	WH-W: 0.1					
Condition of subsurface (staining present)	HC odor observed								
PID Readings	0.4	735.8	109.2	24.7	186.3				
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? No <input type="checkbox"/> Yes - less than 10 cubic yards Yes - more than 10 cubic yards <input type="checkbox"/>									
Total number of samples field screened: 5				Total number of samples collected: 5					
Highest PID Reading: 735.8				Total number of samples submitted to lab for analysis: 5					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
N/A									
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				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
N/A									
Total number of samples submitted to lab for analysis:									

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure	09/26/23	Pit Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: HSR Eachus #3-23		Date: 11/14/23 - 11/15/23		Remediation Project #: 30130					
Associated Wells: 05-123-18124		Age of Site: Years		Number of Photos Attached: 4					

Starting point: (GPS coordinates and descriptions) 40.213308 / -104.631398 (at wellhead)

End point: (GPS coordinates and descriptions) 40.213998 / -104.631667 (at separator)

USCS Soil Type: SC Estimated Depth to Groundwater: Approx. 10-20'

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.

Flowlines

Flowline type	O, G, W								
Depth	Approx. 4'								
Age	Years								
Length	Approx. 274'								
Construction Material	Steel								
Were flowlines pulled?	Yes								
Visual Integrity of lines	Good								
Visual impacts if trenched	None observed								
PID Readings if trenched	0.6	0.5	0.8	1.2					
Sample taken? Location/Sample ID#	FL-SS-01	FL-SS-02	FL-SS-03	FL-SS-04					
Photo Number(s)	See photolog								

Other observations regarding on location flowlines:
Flowline pulled following assessment.

Summary

Was impacted soil identified?
 No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: 4 Total number of samples collected: 4

Highest PID Reading: 1.2 Total number of samples submitted to lab for analysis: 3

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: N/A Estimated spill volume:

Lateral extent: N/A Volume of soil removed:

Is additional investigation required?
 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: N/A Commencement date of removal:

Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling:

Free product observed? Yes No 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

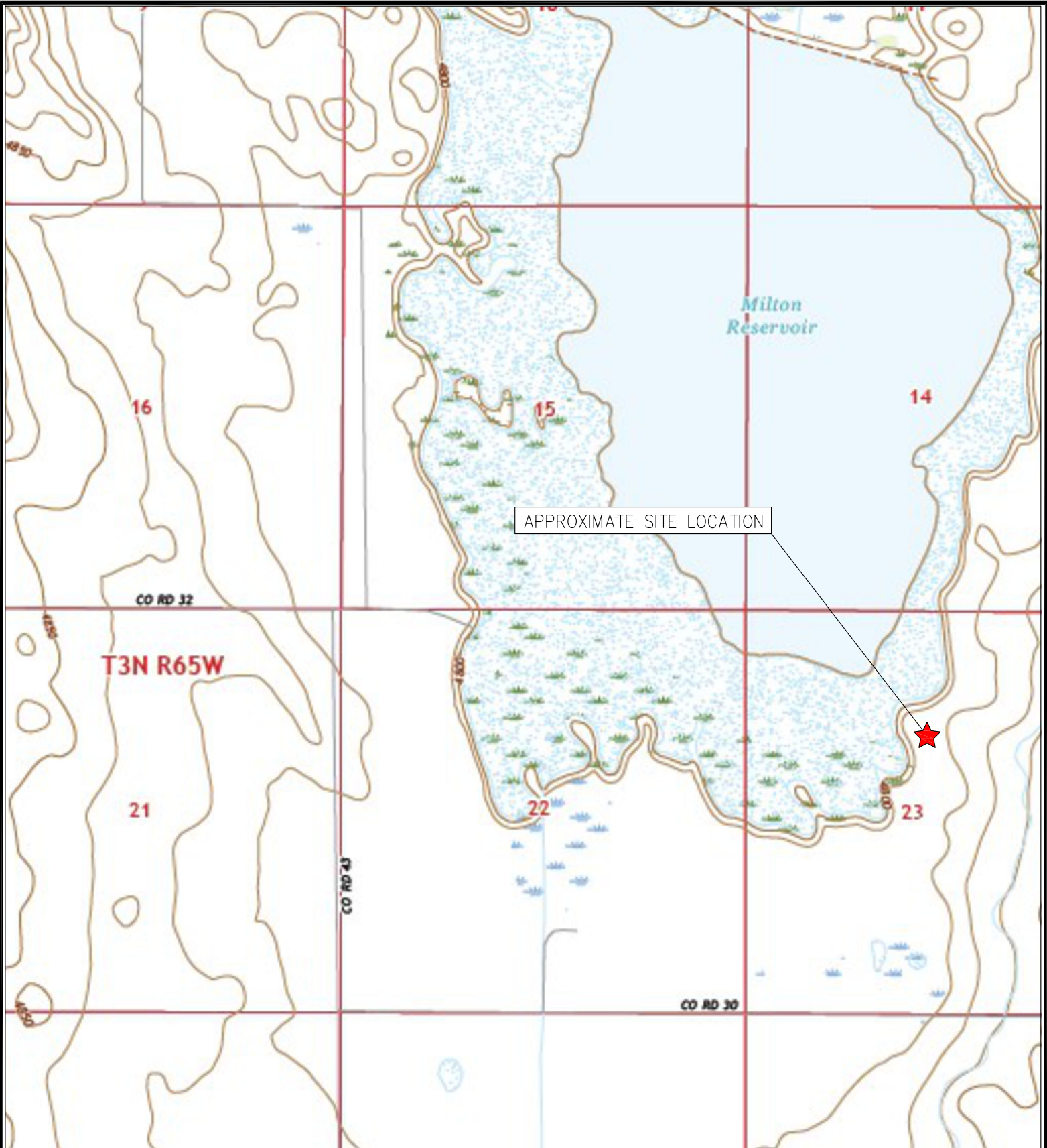
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons (PAH) Map

Figure 5: Metals in Soil Map



APPROXIMATE SITE LOCATION



TOPOGRAPHIC SITE LOCATION MAP
 HSR EACHUS #3-23
 CLOSURE ASSESSMENT
 40.213970 / -104.631650
 SE¼ NW¼ SEC.23 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18124
 REMEDIATION # 30130



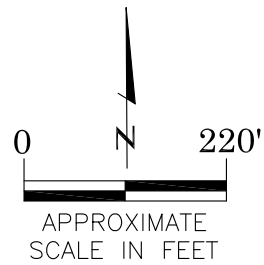
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



LEGEND

- FORMER HSR EACHUS #3-23 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)



AERIAL SITE LOCATION MAP
 HSR EACHUS #3-23
 CLOSURE ASSESSMENT
 40.213970 / -104.631650
 SE¼ NW¼ SEC.23 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18124
 REMEDIATION # 30130

FIGURE NO.
2

DRAWN BY:
EL



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



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
- APPROXIMATE FLOWLINE LOCATION (REMOVED)

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)

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

(NA) = NOT ANALYZED

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.

VALUES PRESENTED WITH ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
HSR EACHUS #3-23
CLOSURE ASSESSMENT
40.213970 / -104.631650
SE¼ NW¼ SEC.23 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18124
REMEDATION # 30130

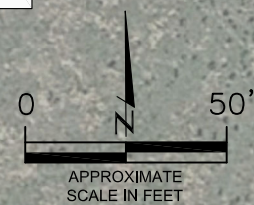


FIGURE NO.
3

DRAWN BY:
IM

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

WH-FS-01@6'
09/26/23
6'

1-Methylnaphthalene = **0.00968***
2-Methylnaphthalene = 0.00235
Acenaphthene = 0.00503
Anthracene = 0.00973
Benzo(a)anthracene = 0.00249
Benzo(a)pyrene = 0.00442
Benzo(b)fluoranthene = 0.0128
Benzo(k)fluoranthene = 0.00208
Chrysene = 0.00508
Dibenzo(a,h)anthracene = 0.000886
Fluoranthene = 0.00472
Fluorene = 0.0202
Indeno(1,2,3-CD)pyrene = 0.0108
Pyrene = 0.0148

WH-SS-04@5'
09/26/23
5'

1-Methylnaphthalene = <0.00201
2-Methylnaphthalene = <0.00201
Acenaphthene = <0.00067
Anthracene = 0.00922
Benzo(a)anthracene = 0.00151
Benzo(a)pyrene = 0.00705
Benzo(b)fluoranthene = 0.0101
Benzo(k)fluoranthene = 0.00144
Chrysene = 0.00335
Dibenzo(a,h)anthracene = 0.00269
Fluoranthene = 0.00418
Fluorene = 0.00122
Indeno(1,2,3-CD)pyrene = 0.0254
Pyrene = 0.00482

WH-SS-03@5'
09/26/23
5'

1-Methylnaphthalene = <0.00201
2-Methylnaphthalene = <0.00201
Acenaphthene = 0.000526
Anthracene = 0.00213
Benzo(a)anthracene = <0.00067
Benzo(a)pyrene = 0.00146
Benzo(b)fluoranthene = 0.00388
Benzo(k)fluoranthene = 0.00048
Chrysene = 0.00132
Dibenzo(a,h)anthracene = 0.000714
Fluoranthene = 0.00124
Fluorene = 0.00347
Indeno(1,2,3-CD)pyrene = 0.00421
Pyrene = 0.00248

FL-SS-01@3'
11/15/23
3'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

WH-SS-01@5'
09/26/23
5'

1-Methylnaphthalene = <0.00201
2-Methylnaphthalene = <0.00201
Acenaphthene = <0.00067
Anthracene = <0.00067
Benzo(a)anthracene = 0.000878
Benzo(a)pyrene = 0.00232
Benzo(b)fluoranthene = 0.0058
Benzo(k)fluoranthene = 0.00144
Chrysene = 0.000933
Dibenzo(a,h)anthracene = 0.000933
Fluoranthene = 0.000857
Fluorene = <0.00067
Indeno(1,2,3-CD)pyrene = 0.00594
Pyrene = 0.000751

WH-SS-02@5'
09/26/23
5'

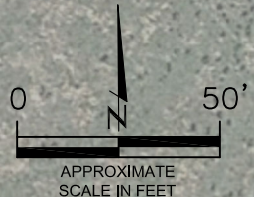
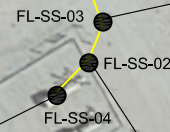
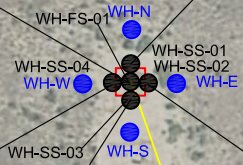
1-Methylnaphthalene = **0.0601***
2-Methylnaphthalene = **0.0207***
Acenaphthene = 0.0162
Anthracene = 0.00763
Benzo(a)anthracene = 0.000693
Benzo(a)pyrene = <0.00067
Benzo(b)fluoranthene = <0.00067
Benzo(k)fluoranthene = <0.00067
Chrysene = 0.00173
Dibenzo(a,h)anthracene = <0.00067
Fluoranthene = 0.00154
Fluorene = 0.0384
Indeno(1,2,3-CD)pyrene = 0.00188
Pyrene = 0.00446

FL-SS-01@3'
11/15/23
3'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

FL-SS-01@3'
11/14/23
3'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020



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
- APPROXIMATE FLOWLINE LOCATION (REMOVED)

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED ECMC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

HSR EACHUS #3-23
CLOSURE ASSESSMENT
40.213970 / -104.631650
SE¼ NW¼ SEC.23 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18124
REMEDATION # 30130

FIGURE NO.

4

DRAWN BY:

IM



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

WH-FS-01@6'
09/26/23
6'

Arsenic = 2.06
Barium = 64.7
Cadmium = 0.117
Chromium (VI) = <0.244**
Copper = <8.97
Lead = **34.0***
Nickel = <8.97
Selenium = 0.100
Silver = <0.0897
Zinc = <89.7

WH-SS-01@5'
09/26/23
5'

Arsenic = **29.5**
Barium = **682***
Cadmium = 0.317
Chromium (VI) = <0.244**
Copper = 32.0
Lead = **14.9***
Nickel = 22.9
Selenium = **0.730***
Silver = <0.0843
Zinc = <84.3

WH-SS-04@5'
09/26/23
5'

Arsenic = 3.32
Barium = **240***
Cadmium = 0.223
Chromium (VI) = <0.244**
Copper = 11.8
Lead = 12.2
Nickel = 11.4
Selenium = 0.183
Silver = <0.0953
Zinc = <95.3

WH-SS-02@5'
09/26/23
5'

Arsenic = 2.24
Barium = 55.7
Cadmium = 0.0962
Chromium (VI) = <0.244**
Copper = <8.43
Lead = **15.1***
Nickel = <8.43
Selenium = 0.110
Silver = <0.0843
Zinc = <84.3

WH-SS-03@5'
09/26/23
5'

Arsenic = 1.80
Barium = 50.8
Cadmium = 0.111
Chromium (VI) = <0.244**
Copper = <8.67
Lead = **26.6***
Nickel = <8.67
Selenium = <0.0867
Silver = <0.0867
Zinc = <86.7

BACKGROUND-02@3'
11/14/23
3'

Arsenic = 3.57
Barium = NA
Cadmium = NA
Chromium (VI) = NA
Copper = NA
Lead = NA
Nickel = NA
Selenium = NA
Silver = NA
Zinc = NA

BACKGROUND-01@4'
09/26/23
4'

Arsenic = 0.865
Barium = 32.3
Cadmium = NA
Chromium (VI) = NA
Copper = NA
Lead = <9.18
Nickel = NA
Selenium = 1.57
Silver = NA
Zinc = NA

FL-SS-02@4'
11/14/23
4'

Arsenic = 1.03
Barium = 29.4
Cadmium = <0.0908
Chromium (VI) = <0.244**
Copper = <9.08
Lead = <9.08
Nickel = <9.08
Selenium = <0.0908
Silver = <0.0908
Zinc = <90.8

FL-SS-03@3'
11/15/23
3'

Arsenic = 1.81
Barium = 36.5
Cadmium = <0.0861
Chromium (VI) = <0.244**
Copper = <8.61
Lead = <8.61
Nickel = <8.61
Selenium = 0.114
Silver = <0.0861
Zinc = 16.3

FL-SS-04@4'
11/15/23
4'

Arsenic = 3.00
Barium = 70.1
Cadmium = 0.165
Chromium (VI) = <0.244**
Copper = <9.78
Lead = <9.78
Nickel = <9.78
Selenium = 0.155
Silver = <0.0978
Zinc = 26.9

LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM
NA - NOT ANALYZED

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.
**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND WHERE APPLICABLE.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

METALS IN SOIL MAP
HSR EACHUS #3-23
CLOSURE ASSESSMENT
40.213970 / -104.631650
SE¼ NW¼ SEC.23 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18124
REMEDATION # 30130

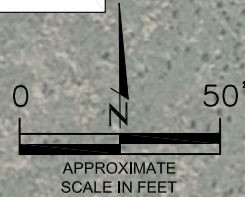


FIGURE NO.
5

DRAWN BY:
IM

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



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: PAHs Analytical Results Summary

Table 4: Metals Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
HSR EACHUS #3-23
CLOSURE ASSESSMENT
40.213970 / -104.631650
SE¼ NW¼ SEC.23 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18124
REMEDIATION # 30130

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.214011 / -104.631666)	09/26/23	5	0.4	Y
WH-SS-02 @ 5' (40.213992 / -104.631645)	09/26/23	5	735.8	Y
WH-SS-03 @ 5' (40.213976 / -104.631664)	09/26/23	5	109.2	Y
WH-SS-04 @ 5' (40.213976 / -104.631664)	09/26/23	5	24.7	Y
WH-FS-01 @ 6' (40.213991 / -104.631665)	09/26/23	6	186.3	Y
WH-N @ 0.5' (40.214033 / -104.631668)	09/26/23	0.5	0.3	N
WHE @ 0.5' (40.213995 / -104.631613)	09/26/23	0.5	0.2	N
WH-S @ 0.5' (40.213690 / -104.631665)	09/26/23	0.5	0.9	N
WH-W @ 0.5' (40.213988 / -104.213988)	09/26/23	0.5	0.1	N
Background-01 @ 4' (40.213939 / -104.631571)	09/26/03	4	1.2	Y
FL-SS-01 @ 4' (40.213664 / -104.631519)	11/14/23	4	0.6	N
FL-SS-02 @ 4' (40.213318 / -104.631386)	11/14/23	4	0.5	Y
FL-SS-03 @ 4' (40.213375 / -104.631356)	11/15/23	4	0.8	Y
FL-SS-04 @ 4' (40.40.213284 / -104.631441)	11/15/23	4	1.2	Y
Background-02 @ 3' (40.213724 / -104.631364)	11/14/23	3	0.5	Y

(Y/N) = Yes or No
ppm-v = parts per million by volume
PID = Photoionization Detector



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
HSR EACHUS #3-23
CLOSURE ASSESSMENT
40.213970 / -104.631650
SE¼ NW¼ SEC.23 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18124
REMEDIATION # 30130

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
ECMC Table 915-1 Residential Screening Levels				1.2	490	5.8	58	2	500			30	27	2	<4	6-8.3	<6
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	0.0038	--			0.0081	0.0087	--	--	--	--
WH-SS-01 @ 5' (40.214011 / -104.631666)	09/26/23	5	0.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200	0.547	0.346	8.21	1.12
WH-SS-02 @ 5' (40.213992 / -104.631645)	09/26/23	5	735.8	<0.00200	<0.00200	<0.00200	0.0319	<0.00380	87.2	413	137	0.00254	0.158*	0.190	0.257	8.00	0.226
WH-SS-03 @ 5' (40.213976 / -104.631664)	09/26/23	5	109.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	3.20	127	215	<0.00200	0.0169*	0.218	0.283	8.04	0.305
WH-SS-04 @ 5' (40.213976 / -104.631664)	09/26/23	5	24.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	0.698	<25.0	<100	<0.00200	<0.00200	0.344	0.498	8.20	0.929
WH-FS-01 @ 6' (40.213991 / -104.631665)	09/26/23	6	186.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	2.17	148	<100	<0.00200	<0.00200	0.242	0.675	7.92	0.348
FL-SS-02 @ 4' (40.213318 / -104.631386)	11/14/23	4	0.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0999	0.950	8.17	0.547
FL-SS-03 @ 4' (40.213375 / -104.631356)	11/15/23	4	0.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200	<0.0989	0.555	8.05	0.266
FL-SS-04 @ 4' (40.40.213284 / -104.631441)	11/15/23	4	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<0.00200	<0.00200	0.152	0.184	8.16	0.134
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter SAR = Sodium Adsorption Ratio ppm-v = parts per million by volume PID = photoionization detector TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics NA - Not Analyzed Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Values presented in BOLD contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits. Values presented in BOLD+ asterisk (*) contained concentrations exceeding ECMC Table 915-1 Protection of Groundwater Soil Screening Levels.																	

TABLE 3
PAHS ANALYTICAL RESULTS SUMMARY
HSR EACHUS #3-23
CLOSURE ASSESSMENT
40.213970 / -104.631650
SE¼ NW¼ SEC.23 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18124
REMEDIATION # 30130

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3- cd)-pyrene (mg/kg)	Pyrene (mg/kg)
ECMC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
WH-SS-01 @ 5' (40.214011 / -104.631666)	09/26/23	5	0.4	<0.00201	<0.00201	<0.00067	<0.00067	0.000878	0.00232	0.0058	0.00144	0.000933	0.000933	0.000857	<0.00067	0.00594	0.000751
WH-SS-02 @ 5' (40.213992 / -104.631645)	09/26/23	5	735.8	0.0601*	0.0207*	0.0162	0.00763	0.000693	<0.00067	<0.00067	<0.00067	0.00173	<0.00067	0.00154	0.0384	0.00188	0.00446
WH-SS-03 @ 5' (40.213976 / -104.631664)	09/26/23	5	109.2	<0.00201	<0.00201	0.000526	0.00213	<0.00067	0.00146	0.00388	0.00048	0.00132	0.000714	0.00124	0.00347	0.00421	0.00248
WH-SS-04 @ 5' (40.213976 / -104.631664)	09/26/23	5	24.7	<0.00201	<0.00201	<0.00067	0.00922	0.00151	0.00705	0.0101	0.00144	0.00335	0.00269	0.00418	0.00122	0.0254	0.00482
WH-FS-01 @ 6' (40.213991 / -104.631665)	09/26/23	6	186.3	0.00968*	0.00235	0.00503	0.00973	0.00249	0.00442	0.0128	0.00208	0.00508	0.000886	0.00472	0.0202	0.0108	0.0148
FL-SS-02 @ 4' (40.213318 / -104.631386)	11/14/23	4	0.5	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
FL-SS-03 @ 4' (40.213375 / -104.631356)	11/15/23	4	0.8	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
FL-SS-04 @ 4' (40.213284 / -104.631441)	11/15/23	4	1.2	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

ECMC = Energy & Carbon Management Commission
mg/kg = milligrams per kilogram
ppm-v = parts per million by volume
PID - photoionization detector
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.
Values presented in **BOLD*** asterisk (*) contained concentrations exceeding ECMC Table 915-1 Protection of Groundwater Soil Screening Levels.



TABLE 4
METALS ANALYTICAL RESULTS SUMMARY
HSR EACHUS #3-23
CLOSURE ASSESSMENT
40.213970 / -104.631650
SE¼ NW¼ SEC.23 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18124
REMEDATION # 30130

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
ECMC Table 915-1 Protection of Groundwater Soil Screening Levels			0.29***	82	0.38	0.00067**	46	14	26	0.26	0.8	370
Local Cleanup Levels			4.46	--	--	0.1 to 1**	--	--	--	1.96	--	--
WH-SS-01 @ 5' (40.214011 / -104.631666)	09/26/23	5	29.50	682*	0.317	<0.244**	32.0	14.9*	22.9	0.730*	<0.0843	<84.3
WH-SS-02 @ 5' (40.213992 / -104.631645)	09/26/23	5	2.24	55.7	0.0962	<0.244**	<8.43	15.1*	<8.43	0.110	<0.0843	<84.3
WH-SS-03 @ 5' (40.213976 / -104.631664)	09/26/23	5	1.80	50.8	0.111	<0.244**	<8.67	26.6*	<8.67	<0.0867	<0.0867	<86.7
WH-SS-04 @ 5' (40.213976 / -104.631664)	09/26/23	5	3.32	240*	0.223	<0.244**	11.8	12.2	11.4	0.183	<0.0953	<95.3
WH-FS-01 @ 6' (40.213991 / -104.631665)	09/26/23	6	2.06	64.7	0.117	<0.244**	<8.97	34.0*	<8.97	0.100	<0.0897	<89.7
Background-01 @ 4' (40.213939 / -104.631571)	09/26/23	4	0.865	27.9	NA	NA	NA	<9.18	NA	1.57	NA	NA
FL-SS-02 @ 4' (40.213318 / -104.631386)	11/14/23	4	1.03	29.4	<0.0908	<0.244**	<9.08	<9.08	<9.08	<0.0908	<0.0908	<90.8
FL-SS-03 @ 4' (40.213375 / -104.631356)	11/15/23	4	1.81	36.5	<0.0861	<0.244**	<8.61	<8.61	<8.61	0.114	<0.0861	16.3
FL-SS-04 @ 4' (40.40.213284 / -104.631441)	11/15/23	4	3.00	70.1	0.165	<0.244**	<9.78	<9.78	<9.78	0.155	<0.0978	26.9
Background-02 @ 3' (40.213724 / -104.631364)	11/14/23	3.0	3.57	NA	NA	NA	NA	NA	NA	NA	NA	NA

ECMC = Energy & Carbon Management Commission

mg/kg = milligrams per kilogram

Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels.

Values presented in **BOLD** contained concentrations exceeding applicable ECMC Table 915-1 Regulatory Limits.

Values presented with asterisk (*) contained concentrations exceeding ECMC Table 915-1 Protection of Groundwater Soil Screening Levels.

**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.

Elevated metals are naturally occurring in Colorado. Local clean-up levels are 1.25 *Background where applicable.



ATTACHMENT A

Photo Log

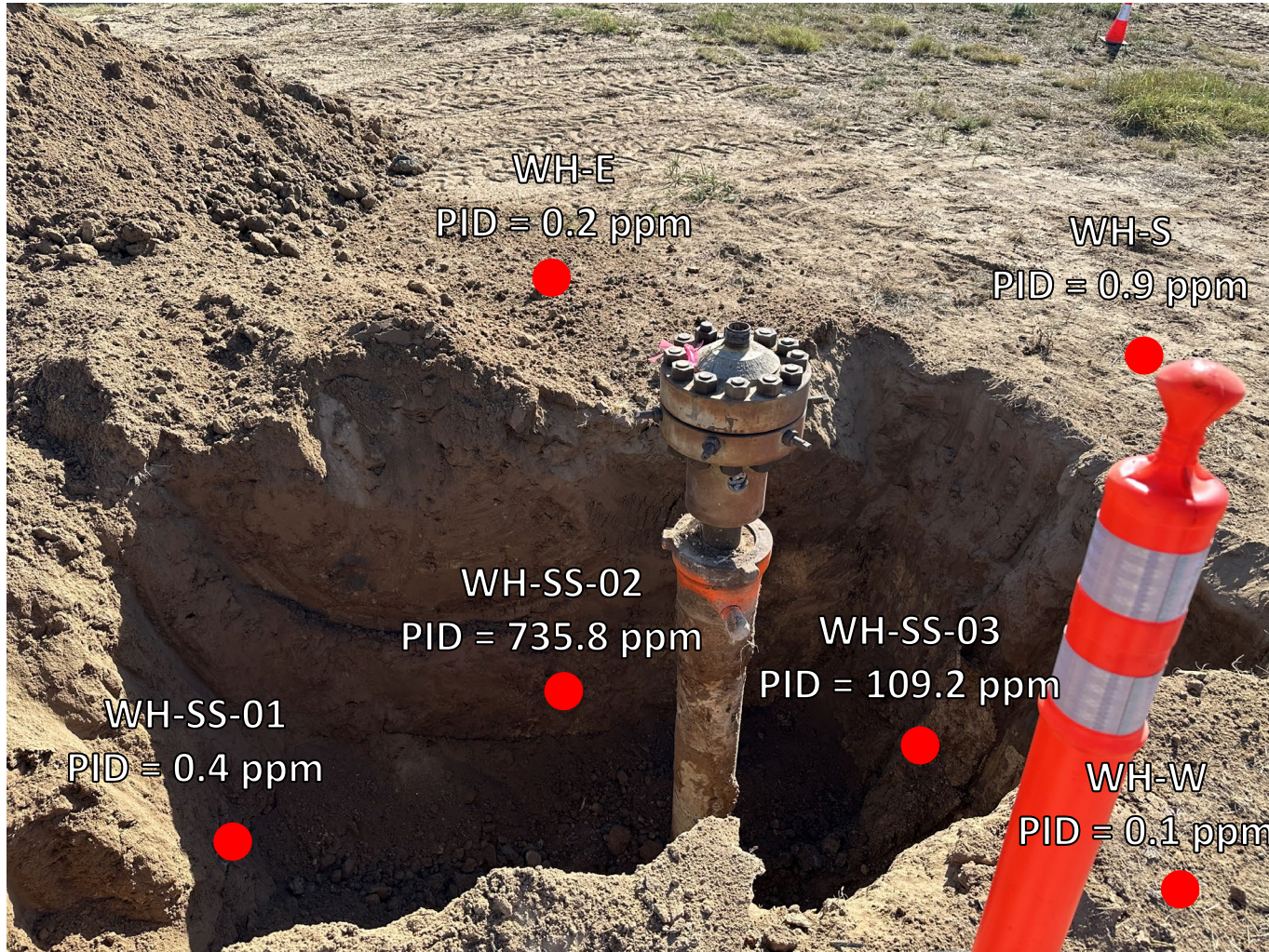
HSR Eachus #3-23
API # 05-123-18124
Remediation # 30130

Closure Assessment

September – November 2023

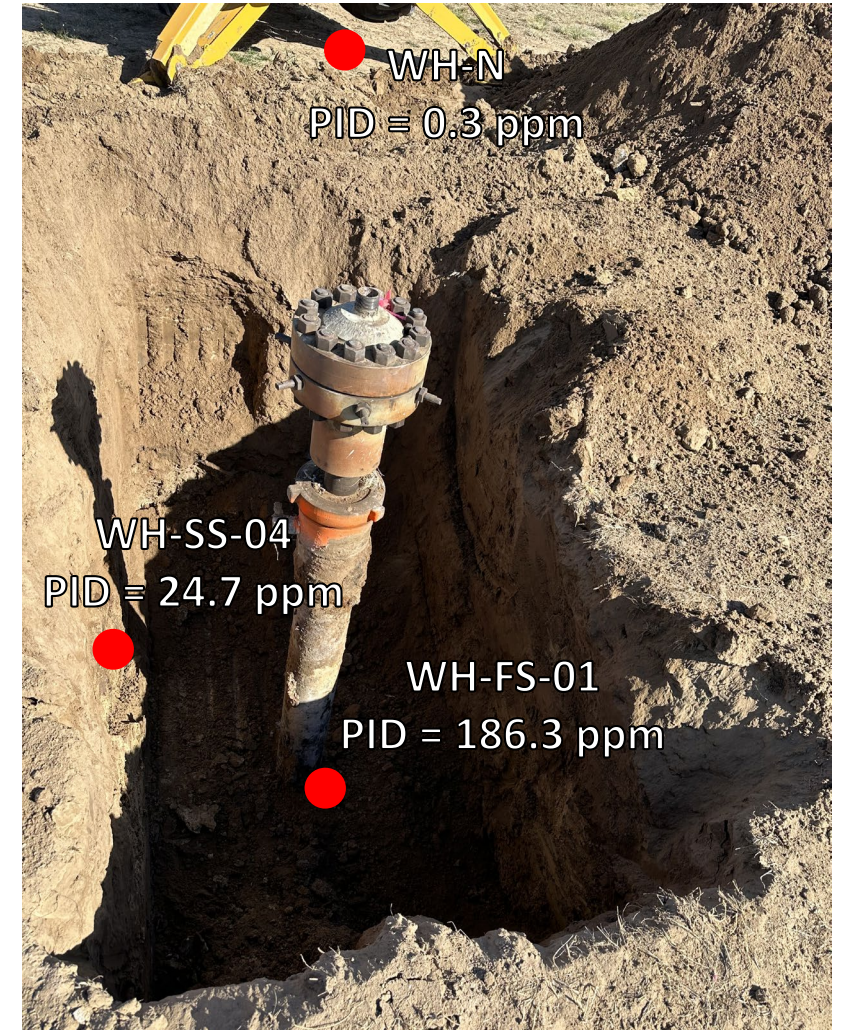


Wellhead Excavation – 09/26/23



Looking east

Strong petroleum hydrocarbon odor observed; no staining observed



Looking north

Strong petroleum hydrocarbon odor observed; no staining observed

Flowline Removal/Assessment – 11/14/23



Looking south

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



Looking southwest

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

Flowline Removal/Assessment– 11/15/23



Looking east

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



Looking north

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



ATTACHMENT B

Laboratory Analytical Reports



October 10, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Eachus #3-23

Project Number - [none]

Attached are your analytical results for Noble - HSR - Eachus #3-23 received by Origins Laboratory, Inc. September 26, 2023. This project is associated with Origins project number Y309633-01.

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 - HSR - Eachus #3-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y309633-01	Soil	September 26, 2023 9:55	09/26/2023 15:22
WH-SS-02@5'	Y309633-02	Soil	September 26, 2023 9:57	09/26/2023 15:22
WH-SS-03@5'	Y309633-03	Soil	September 26, 2023 9:58	09/26/2023 15:22
WH-SS-04@5'	Y309633-04	Soil	September 26, 2023 10:00	09/26/2023 15:22
WH-FS-01@6'	Y309633-05	Soil	September 26, 2023 10:02	09/26/2023 15:22

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 - HSR - Eachus #3-23

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

Sample Receipt Checklist

Origins Work Order: YBWA033 Client: Eagle
 Client Project ID: HSR Eachus #3-23

Checklist Completed by: JH/JG Shipped Via: HL
 Date/time completed: 9/27/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 6 °C / _____ °C / _____ °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 ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽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)			/	
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: JB (Project Manager) Date/Time Reviewed: 9-28-23

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 - HSR - Eachus #3-23

WH-SS-01@5'

9/26/2023 9:55:00AM

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

Origins Laboratory, Inc.
Y309633-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.547		0.0991	mg/L	1	B3J0211	10/02/2023	10/03/2023	
-------	-------	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2728	09/27/2023	09/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.1 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2741	09/27/2023	09/28/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - HSR - Eachus #3-23

WH-SS-01@5'

9/26/2023 9:55:00AM

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

Origins Laboratory, Inc.
Y309633-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B31274 1	09/27/2023	09/28/2023	
Surrogate: Toluene-d8	97.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.32		0.499	meq/L	10	[CALC]	09/29/2023	10/02/2023	
Magnesium	0.852		0.823	"	"	"	"	"	
Sodium	1.17		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707837	10/02/2023	10/02/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000878	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00232	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0058	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00144	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000933	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000933	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000857	0.000394	0.00067	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-01@5'

9/26/2023 9:55:00AM

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

Waypoint Analytical, LLC.
Y309633-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L707837	10/02/2023	10/02/2023	
Indeno(1,2,3-cd)pyrene	0.00594	0.000627	0.00067	"	"	"	"	"	
Pyrene	0.000751	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	40.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	43.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	62 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.21			pH Units	1	B312917	09/29/2023	10/01/2023	
----	-------------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.12		0.0100	SAR	1	B312908	09/29/2023	10/02/2023	
-----	-------------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.346		0.00500	mmhos/cm	1	B312917	09/29/2023	10/01/2023	
---------------------------	--------------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	29.5		0.0843	mg/kg	10	B312734	09/27/2023	09/29/2023	
Barium	682		8.43	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-01@5'

9/26/2023 9:55:00AM

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

Origins Laboratory, Inc.
Y309633-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.317		0.0843	mg/kg	10	B312734	09/27/2023	09/29/2023	
Copper	32.0		8.43	"	"	"	"	"	
Lead	14.9		8.43	"	"	"	"	"	
Nickel	22.9		8.43	"	"	"	"	"	
Selenium	0.730		0.0843	"	"	"	"	"	
Silver	ND		0.0843	"	"	"	"	"	
Zinc	ND		84.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L708770	09/26/2023	10/05/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

WH-SS-02@5'

9/26/2023 9:57:00AM

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

Origins Laboratory, Inc.
Y309633-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.190		0.0999	mg/L	1	B3J0211	10/02/2023	10/03/2023	
-------	-------	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	413		25.0	mg/kg	1	B3I2728	09/27/2023	09/28/2023	
Residual Range Organics (C28-C40)	137		100	"	"	"	"	"	

Surrogate: o-Terphenyl	118 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00254		0.00200	mg/kg	1	B3I2741	09/27/2023	09/30/2023	
1,3,5-Trimethylbenzene	0.158		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0319		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	87.2		5.00	"	25	"	"	09/29/2023	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	09/30/2023	
----------------------------------	-------	--	--------	--	--	---	---	------------	--

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 - HSR - Eachus #3-23

WH-SS-02@5'

9/26/2023 9:57:00AM

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

Origins Laboratory, Inc.
Y309633-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.9 %		70-130			B31274 1	09/27/2023	09/30/2023	
Surrogate: 4-Bromofluorobenzene	140 %		70-130			"	"	"	S-GC

Metals by Saturated Paste by EPA 6010

Calcium	1.84		0.499	meq/L	10	[CALC]	09/29/2023	10/02/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0601	0.00109	0.00201	mg/Kg	1	L707837	10/02/2023	10/02/2023	
2-Methylnaphthalene	0.0207	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.0162	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00763	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000693	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	0.00173	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00154	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0384	0.000286	0.00067	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-02@5'

9/26/2023 9:57:00AM

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

Waypoint Analytical, LLC.
Y309633-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00188	0.000627	0.00067	mg/Kg	1	L707837	10/02/2023	10/02/2023	
Pyrene	0.00446	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	40.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.00			pH Units	1	B312917	09/29/2023	10/01/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.226		0.0100	SAR	1	B312908	09/29/2023	10/02/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.257		0.00500	mmhos/cm	1	B312917	09/29/2023	10/01/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	2.24		0.0843	mg/kg	10	B312734	09/27/2023	09/29/2023	
Barium	55.7		8.43	"	"	"	"	"	
Cadmium	0.0962		0.0843	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-02@5'

9/26/2023 9:57:00AM

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

Origins Laboratory, Inc.
Y309633-02 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.43	mg/kg	10	B312734	09/27/2023	09/29/2023	
Lead	15.1		8.43	"	"	"	"	"	
Nickel	ND		8.43	"	"	"	"	"	
Selenium	0.110		0.0843	"	"	"	"	"	
Silver	ND		0.0843	"	"	"	"	"	
Zinc	ND		84.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L708770	09/26/2023	10/05/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

WH-SS-03@5'

9/26/2023 9:58:00AM

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

Origins Laboratory, Inc.
Y309633-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.218		0.0997	mg/L	1	B3J0211	10/02/2023	10/03/2023	
-------	-------	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	127		25.0	mg/kg	1	B3I2728	09/27/2023	09/28/2023	
Residual Range Organics (C28-C40)	215		100	"	"	"	"	"	

Surrogate: o-Terphenyl	108 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2741	09/27/2023	09/29/2023	U
1,3,5-Trimethylbenzene	0.0169		0.00200	"	"	"	"	"	
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	3.20		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %		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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR - Eachus #3-23

WH-SS-03@5'

9/26/2023 9:58:00AM

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

Origins Laboratory, Inc.
Y309633-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.8 %		70-130			B31274 1	09/27/2023	09/29/2023	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.67		0.499	meq/L	10	[CALC]	09/29/2023	10/02/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707837	10/02/2023	10/02/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000526	0.000304	0.00067	"	"	"	"	"	J
Anthracene	0.00213	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00146	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00388	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00048	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00132	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000714	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00124	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00347	0.000286	0.00067	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-03@5'

9/26/2023 9:58:00AM

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

Waypoint Analytical, LLC.
Y309633-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00421	0.000627	0.00067	mg/Kg	1	L707837	10/02/2023	10/02/2023	
Pyrene	0.00248	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	40.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	42.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	67.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B312917	09/29/2023	10/01/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.305		0.0100	SAR	1	B312908	09/29/2023	10/02/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.283		0.00500	mmhos/cm	1	B312917	09/29/2023	10/01/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	1.80		0.0867	mg/kg	10	B312734	09/27/2023	09/29/2023	
Barium	50.8		8.67	"	"	"	"	"	
Cadmium	0.111		0.0867	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-03@5'

9/26/2023 9:58:00AM

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

Origins Laboratory, Inc.
Y309633-03 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.67	mg/kg	10	B312734	09/27/2023	09/29/2023	
Lead	26.6		8.67	"	"	"	"	"	
Nickel	ND		8.67	"	"	"	"	"	
Selenium	ND		0.0867	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	
Zinc	ND		86.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.502	mg/Kg	1	L709180	09/26/2023	10/06/2023	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

WH-SS-04@5'
9/26/2023 10:00:00AM

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

Origins Laboratory, Inc.
Y309633-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.344		0.0999	mg/L	1	B3J0211	10/02/2023	10/03/2023	
-------	-------	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3I2728	09/27/2023	09/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.0 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2741	09/27/2023	09/29/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.698		0.200	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-04@5'
9/26/2023 10:00:00AM

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

Origins Laboratory, Inc.
Y309633-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			B31274 1	09/27/2023	09/29/2023	
Surrogate: Toluene-d8	97.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.62		0.499	meq/L	10	[CALC]	09/29/2023	10/02/2023	
Magnesium	1.37		0.823	"	"	"	"	"	
Sodium	1.31		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L707837	10/02/2023	10/02/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00922	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00151	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00705	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0101	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00144	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00335	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00269	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00418	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00122	0.000286	0.00067	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-04@5'
9/26/2023 10:00:00AM

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

Waypoint Analytical, LLC.
Y309633-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.0254	0.000627	0.00067	mg/Kg	1	L707837	10/02/2023	10/02/2023	
Pyrene	0.00482	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	36.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	41.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.20			pH Units	1	B312917	09/29/2023	10/01/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.929		0.0100	SAR	1	B312908	09/29/2023	10/02/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.498		0.00500	mmhos/cm	1	B312917	09/29/2023	10/01/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	3.32		0.0953	mg/kg	10	B312734	09/27/2023	09/29/2023	
Barium	240		9.53	"	"	"	"	"	
Cadmium	0.223		0.0953	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-SS-04@5'

9/26/2023 10:00:00AM

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

Origins Laboratory, Inc.
Y309633-04 (Soil)

Table 915 metals by EPA 6020B

Copper	11.8		9.53	mg/kg	10	B312734	09/27/2023	09/29/2023	
Lead	12.2		9.53	"	"	"	"	"	
Nickel	11.4		9.53	"	"	"	"	"	
Selenium	0.183		0.0953	"	"	"	"	"	
Silver	ND		0.0953	"	"	"	"	"	
Zinc	ND		95.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L708770	09/26/2023	10/05/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

WH-FS-01@6'
9/26/2023 10:02:00AM

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

Origins Laboratory, Inc.
Y309633-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.242		0.0995	mg/L	1	B3J0211	10/02/2023	10/03/2023	
-------	-------	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	148		25.0	mg/kg	1	B3I2728	09/27/2023	09/28/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3I2741	09/27/2023	09/30/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	2.17		0.200	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-FS-01@6'
 9/26/2023 10:02:00AM

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

Origins Laboratory, Inc.
 Y309633-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B31274 1	09/27/2023	09/30/2023	
Surrogate: Toluene-d8	96.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.84		0.499	meq/L	10	[CALC]	09/29/2023	10/02/2023	
Magnesium	1.56		0.823	"	"	"	"	"	
Sodium	0.622		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00968	0.00109	0.00201	mg/Kg	1	L707837	10/02/2023	10/02/2023	
2-Methylnaphthalene	0.00235	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00503	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00973	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00249	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00442	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0128	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00208	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00508	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000886	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00472	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0202	0.000286	0.00067	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-FS-01@6'
9/26/2023 10:02:00AM

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

Waypoint Analytical, LLC.
Y309633-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.0108	0.000627	0.00067	mg/Kg	1	L707837	10/02/2023	10/02/2023	
Pyrene	0.0148	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	42.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	41.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.92			pH Units	1	B312917	09/29/2023	10/01/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.348		0.0100	SAR	1	B312908	09/29/2023	10/02/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.675		0.00500	mmhos/cm	1	B312917	09/29/2023	10/01/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	2.06		0.0897	mg/kg	10	B312734	09/27/2023	09/29/2023	
Barium	64.7		8.97	"	"	"	"	"	
Cadmium	0.117		0.0897	"	"	"	"	"	

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 - HSR - Eachus #3-23

WH-FS-01@6'

9/26/2023 10:02:00AM

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

Origins Laboratory, Inc.
 Y309633-05 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.97	mg/kg	10	B312734	09/27/2023	09/29/2023	
Lead	34.0		8.97	"	"	"	"	"	
Nickel	ND		8.97	"	"	"	"	"	
Selenium	0.100		0.0897	"	"	"	"	"	
Silver	ND		0.0897	"	"	"	"	"	
Zinc	ND		89.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L708770	09/26/2023	10/05/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

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 B312728 - EPA 3550B										
Blank (B312728-BLK1)										
					Prepared: 09/27/2023 Analyzed: 09/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.2	50-150			

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 - HSR - Eachus #3-23

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 B312728 - EPA 3550B

LCS (B312728-BS1)

Prepared: 09/27/2023 Analyzed: 09/28/2023

Diesel (C10-C28)	918	50.0	mg/kg	1000		91.8	70-130			
Residual Range Organics (C28-C40)	956	200	"	1000		95.6	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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 - HSR - Eachus #3-23

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 B312728 - EPA 3550B

Matrix Spike (B312728-MS1)	Source: Y309590-01			Prepared: 09/27/2023 Analyzed: 09/28/2023						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	57.7	95.4	70-130			
Residual Range Organics (C28-C40)	1290	200	"	1000	291	99.8	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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 - HSR - Eachus #3-23

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 B312728 - EPA 3550B

Matrix Spike Dup (B312728-MSD1)	Source: Y309590-01			Prepared: 09/27/2023 Analyzed: 09/28/2023						
Diesel (C10-C28)	1080	50.0	mg/kg	1000	57.7	102	70-130	6.23	35	
Residual Range Organics (C28-C40)	1360	200	"	1000	291	107	70-130	5.39	35	
<i>Surrogate: o-Terphenyl</i>	56		"	49.8		112	50-150			

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 - HSR - Eachus #3-23

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 B312741 - EPA 5030 (soil)

Blank (B312741-BLK1)

Prepared: 09/27/2023 Analyzed: 09/28/2023

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	0.12		"	0.125	99.3		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.6		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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR - Eachus #3-23

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 B312741 - EPA 5030 (soil)

LCS (B312741-BS1)

Prepared: 09/27/2023 Analyzed: 09/28/2023

1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100		91.6	70-130			
1,3,5-Trimethylbenzene	0.0917	0.00200	"	0.100		91.7	70-130			
Benzene	0.0882	0.00200	"	0.100		88.2	70-130			
Ethylbenzene	0.0864	0.00200	"	0.100		86.4	70-130			
Naphthalene	0.0864	0.00380	"	0.100		86.4	70-130			
Toluene	0.0873	0.00200	"	0.100		87.3	70-130			
o-Xylene	0.0865	0.00200	"	0.100		86.5	70-130			
m,p-Xylene	0.176	0.00400	"	0.200		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.5	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR - Eachus #3-23

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 B312741 - EPA 5030 (soil)

Matrix Spike (B312741-MS1)	Source: Y309594-01			Prepared: 09/27/2023 Analyzed: 09/28/2023						
1,2,4-Trimethylbenzene	0.0862	0.00200	mg/kg	0.100	ND	86.2	70-130			
1,3,5-Trimethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
Benzene	0.0867	0.00200	"	0.100	ND	86.7	70-130			
Ethylbenzene	0.0818	0.00200	"	0.100	ND	81.8	70-130			
Naphthalene	0.0752	0.00380	"	0.100	ND	75.2	70-130			
Toluene	0.0873	0.00200	"	0.100	ND	87.3	70-130			
o-Xylene	0.0814	0.00200	"	0.100	ND	81.4	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	84.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.4	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR - Eachus #3-23

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 B312741 - EPA 5030 (soil)

Matrix Spike Dup (B312741-MSD1)	Source: Y309594-01			Prepared: 09/27/2023 Analyzed: 09/28/2023						
1,2,4-Trimethylbenzene	0.0843	0.00200	mg/kg	0.100	ND	84.3	70-130	2.16	20	
1,3,5-Trimethylbenzene	0.0842	0.00200	"	0.100	ND	84.2	70-130	2.62	20	
Benzene	0.0856	0.00200	"	0.100	ND	85.6	70-130	1.28	20	
Ethylbenzene	0.0798	0.00200	"	0.100	ND	79.8	70-130	2.48	20	
Naphthalene	0.0781	0.00380	"	0.100	ND	78.1	70-130	3.84	20	
Toluene	0.0855	0.00200	"	0.100	ND	85.5	70-130	2.04	20	
o-Xylene	0.0797	0.00200	"	0.100	ND	79.7	70-130	2.11	20	
m,p-Xylene	0.162	0.00400	"	0.200	ND	80.9	70-130	3.95	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.6	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3I2734 - EPA 3050B

Blank (B3I2734-BLK1)

Prepared: 09/27/2023 Analyzed: 09/29/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3I2734-BS1)

Prepared: 09/27/2023 Analyzed: 09/29/2023

Arsenic	0.0545	0.000100	mg/kg	0.0500		109	80-120			
Barium	5.25	0.0100	"	5.00		105	80-120			
Cadmium	0.0549	0.000100	"	0.0500		110	80-120			
Copper	0.543	0.0100	"	0.500		109	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0530	0.0100	"	0.0500		106	80-120			
Selenium	0.0525	0.000100	"	0.0500		105	80-120			
Silver	0.0562	0.000100	"	0.0500		112	80-120			
Zinc	0.520	0.100	"	0.500		104	80-120			

Matrix Spike (B3I2734-MS1)

Source: Y309601-05

Prepared: 09/27/2023 Analyzed: 09/29/2023

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 - HSR - Eachus #3-23

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3I2734 - EPA 3050B

Matrix Spike (B3I2734-MS1)		Source: Y309601-05			Prepared: 09/27/2023 Analyzed: 09/29/2023					
Arsenic	10.1	0.0901	mg/kg	4.51	8.07	44.4	75-125			QM-07
Barium	770	9.01	"	451	286	107	75-125			
Cadmium	5.34	0.0901	"	4.51	0.215	114	75-125			
Copper	60.2	9.01	"	45.1	14.6	101	75-125			
Lead	13.2	9.01	"	4.51	8.52	104	75-125			
Nickel	14.3	9.01	"	4.51	9.97	97.1	75-125			
Selenium	4.69	0.0901	"	4.51	0.107	102	75-125			
Silver	5.19	0.0901	"	4.51	0.0195	115	75-125			
Zinc	89.9	90.1	"	45.1	45.2	99.3	75-125			

Matrix Spike Dup (B3I2734-MSD1)		Source: Y309601-05			Prepared: 09/27/2023 Analyzed: 09/29/2023					
Arsenic	10.3	0.0890	mg/kg	4.45	8.07	49.2	75-125	1.85	20	QM-07
Barium	790	8.90	"	445	286	113	75-125	2.65	20	
Cadmium	5.44	0.0890	"	4.45	0.215	117	75-125	1.84	20	
Copper	61.0	8.90	"	44.5	14.6	104	75-125	1.21	20	
Lead	13.4	8.90	"	4.45	8.52	109	75-125	1.18	20	
Nickel	14.6	8.90	"	4.45	9.97	104	75-125	1.86	20	
Selenium	4.33	0.0890	"	4.45	0.107	94.8	75-125	8.13	20	
Silver	5.24	0.0890	"	4.45	0.0195	117	75-125	1.03	20	
Zinc	90.4	89.0	"	44.5	45.2	102	75-125	0.529	20	

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 - HSR - Eachus #3-23

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3I2908 - Saturated Paste Metals

Blank (B3I2908-BLK1)

Prepared: 09/29/2023 Analyzed: 10/02/2023

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

Duplicate (B3I2908-DUP1)

Source: Y309603-01

Prepared: 09/29/2023 Analyzed: 10/04/2023

Calcium PPM	428	100	mg/L		323			28.1	50	
SAR	ND	0.0100	SAR		15.7				200	
Magnesium PPM	899	100	mg/L		816			9.57	50	
Sodium PPM	2380	100	"		2330			2.06	50	

Batch B3J0211 - DTPA Sorbitol Preparation

Blank (B3J0211-BLK1)

Prepared: 10/02/2023 Analyzed: 10/03/2023

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

Duplicate (B3J0211-DUP1)

Source: Y309633-01

Prepared: 10/02/2023 Analyzed: 10/03/2023

Boron	0.524	0.100	mg/L		0.547			4.35	50	
-------	-------	-------	------	--	-------	--	--	------	----	--

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 - HSR - Eachus #3-23

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3I2917 - Saturated Paste pH/EC

Blank (B3I2917-BLK1)

Prepared: 09/29/2023 Analyzed: 10/01/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I2917-DUP1)

Source: Y309603-01

Prepared: 09/29/2023 Analyzed: 10/01/2023

pH	7.76		pH Units		7.85			1.15	25	
Specific Conductance (EC)	12.5	0.00500	mmhos/cm		11.9			5.54	25	

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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L707837 - 3550B

MSD (L 83499-MSD-L707837)		Source: 83499			Prepared: 10/02/2023 Analyzed: 10/02/2023					
Dibenz(a,h)anthracene	0.136	0.00067	mg/Kg	0.164	<0.000614	82.9	30-130	4.3	30	
Pyrene	0.102	0.00067	"	0.164	<0.000643	62.1	30-130	5.7	30	
Indeno(1,2,3-cd)pyrene	0.166	0.00067	"	0.164	0.000632	101	30-130	6.4	30	
Benzo(b)fluoranthene	0.115	0.00067	"	0.164	<0.000585	70.1	30-130	18.1	30	
Fluoranthene	0.106	0.00067	"	0.164	<0.000394	64.6	30-130	3.7	30	
Chrysene	0.0823	0.00067	"	0.164	<0.000624	50.1	30-130	0.4	30	
Benzo(k)fluoranthene	0.071	0.00067	"	0.164	<0.000437	43.2	30-130	0.5	30	
1-Methylnaphthalene	0.0769	0.00201	"	0.164	<0.00109	46.8	30-130	0.1	30	
2-Methylnaphthalene	0.0792	0.00201	"	0.164	<0.00194	48.2	30-130	1.1	30	
Acenaphthene	0.0762	0.00067	"	0.164	<0.000304	46.4	30-130	0.3	30	
Fluorene	0.086	0.00067	"	0.164	<0.000286	52.4	30-130	1.3	30	
Anthracene	0.104	0.00067	"	0.164	<0.000334	63.4	30-130	3.7	30	
Benzo(a)anthracene	0.104	0.00067	"	0.164	<0.000493	63.4	30-130	7.4	30	
Benzo(a)pyrene	0.11	0.00067	"	0.164	<0.000468	67	30-130	0	30	
Surrogate: Nitrobenzene-d5	58.9		"	0.329	178	58.9	29-110			
Surrogate: 2-Fluorobiphenyl	41.3		"	0.329	134	41.3	33-115			
Surrogate: 4-Terphenyl-d14	41.6		"	0.329	141	41.6	33-122			

MS (L 83499-MS-L707837)		Source: 83499			Prepared: 10/02/2023 Analyzed: 10/02/2023					
Dibenz(a,h)anthracene	0.142	0.00067	mg/Kg	0.163	<0.000614	87.1	30-130			
Benzo(b)fluoranthene	0.138	0.00067	"	0.163	<0.000585	84.6	30-130			
Chrysene	0.0819	0.00067	"	0.163	<0.000624	50.2	30-130			
Fluoranthene	0.11	0.00067	"	0.163	<0.000394	67.4	30-130			
Fluorene	0.0872	0.00067	"	0.163	<0.000286	53.4	30-130			
Indeno(1,2,3-cd)pyrene	0.177	0.00067	"	0.163	0.000632	108	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.163	<0.000493	68.7	30-130			
Anthracene	0.108	0.00067	"	0.163	<0.000334	66.2	30-130			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L707837 - 3550B

MS (L 83499-MS-L707837)		Source: 83499			Prepared: 10/02/2023 Analyzed: 10/02/2023					
Acenaphthene	0.0765	0.00067	mg/Kg	0.163	<0.000304	46.9	30-130			
2-Methylnaphthalene	0.0783	0.00201	"	0.163	<0.00194	48	30-130			
1-Methylnaphthalene	0.0768	0.00201	"	0.163	<0.00109	47.1	30-130			
Benzo(k)fluoranthene	0.0706	0.00067	"	0.163	<0.000437	43.3	30-130			
Pyrene	0.108	0.00067	"	0.163	<0.000643	66.2	30-130			
Benzo(a)pyrene	0.11	0.00067	"	0.163	<0.000468	67.4	30-130			
Surrogate: Nitrobenzene-d5	61.7		"	0.327	178	61.7	29-110			
Surrogate: 2-Fluorobiphenyl	41.5		"	0.327	134	41.5	33-115			
Surrogate: 4-Terphenyl-d14	43.1		"	0.327	141	43.1	33-122			

LCS (LCS-L707837)					Prepared: 10/02/2023 Analyzed: 10/02/2023					
Benzo(b)fluoranthene	0.132	0.00067	mg/Kg	0.167		79	30-130			
1-Methylnaphthalene	0.0871	0.00201	"	0.167		52.1	30-130			
2-Methylnaphthalene	0.0877	0.00201	"	0.167		52.5	30-130			
Acenaphthene	0.0872	0.00067	"	0.167		52.2	30-130			
Fluoranthene	0.114	0.00067	"	0.167		68.2	30-130			
Anthracene	0.112	0.00067	"	0.167		67	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(k)fluoranthene	0.0823	0.00067	"	0.167		49.2	30-130			
Dibenz(a,h)anthracene	0.149	0.00067	"	0.167		89.2	30-130			
Fluorene	0.0957	0.00067	"	0.167		57.3	30-130			
Indeno(1,2,3-cd)pyrene	0.183	0.00067	"	0.167		110	30-130			
Pyrene	0.111	0.00067	"	0.167		66.4	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.167		70	30-130			
Chrysene	0.0913	0.00067	"	0.167		54.6	30-130			
Surrogate: 2-Fluorobiphenyl	49.2		"	0.333		49.2	33-115			
Surrogate: 4-Terphenyl-d14	45.6		"	0.333		45.6	33-122			

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 - HSR - Eachus #3-23

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
Batch L707837 - 3550B										
LCS (LCS-L707837)										
					Prepared: 10/02/2023 Analyzed: 10/02/2023					
Surrogate: Nitrobenzene-d5	73.2		mg/Kg	0.333		73.2	29-110			
LRB (LRB-L707837)										
					Prepared: 10/02/2023 Analyzed: 10/02/2023					
Chrysene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333		50.7	33-115			
Surrogate: Nitrobenzene-d5	52.2		"	0.333		52.2	29-110			
Surrogate: 4-Terphenyl-d14	53.4		"	0.333		53.4	33-122			

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 - HSR - Eachus #3-23

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L709180 -										
DUP (L 88298-DUP)		Source: 88298			Prepared: Analyzed: 10/06/2023					
Chromium, Hexavalent	ND	0.501	mg/Kg		<0.501		-	0	20	
MS (L 88298-MS)		Source: 88298			Prepared: Analyzed: 10/06/2023					
Chromium, Hexavalent	36	2.56	mg/Kg	40.9	<1.25	88	75-125			
LCS (LCS)		Prepared: Analyzed: 10/06/2023								
Chromium, Hexavalent	6.91	0.5	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 10/06/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - HSR - Eachus #3-23

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L708770 -

DUP (L 83565-DUP)		Source: Y309633-01			Prepared: Analyzed: 10/05/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 83565-MS)		Source: Y309633-01			Prepared: Analyzed: 10/05/2023					
Chromium, Hexavalent	34	2.5	mg/Kg	38.6	<1.22	88	75-125			

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 - HSR - Eachus #3-23

Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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.

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.



October 23, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Eachus #3-23

Project Number - [none]

Attached are your analytical results for Noble - HSR - Eachus #3-23 received by Origins Laboratory, Inc. October 12, 2023. This project is associated with Origins project number Y310381-01.

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 - HSR - Eachus #3-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@4'	Y310381-01	Soil	September 26, 2023 10:10	10/12/2023 16:34

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 - HSR - Eachus #3-23

Origins Laboratory

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


Sample Receipt Checklist

Origins Work Order: Y310381 Client: Eagle
 Client Project ID: Eachus #3-23
 Checklist Completed by: EHS JEN Shipped Via: HO
 Date/time completed: 10/16/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 4.2 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 10/16/23

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 - HSR - Eachus #3-23

Background-01@4'
9/26/2023 10:10:00AM

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

Origins Laboratory, Inc.
Y310381-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.865	0.0918	mg/kg	10	B3J1317	CIH	10/13/2023	10/17/2023	
Barium	27.9	9.18	"	"	"	CIH	"	"	
Lead	ND	9.18	"	"	"	CIH	"	"	
Selenium	1.57	0.0918	"	"	"	CIH	"	"	

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 - HSR - Eachus #3-23

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3J1317 - EPA 3050B

Blank (B3J1317-BLK1)

Prepared: 10/13/2023 Analyzed: 10/17/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3J1317-BS1)

Prepared: 10/13/2023 Analyzed: 10/17/2023

Arsenic	0.0460	0.000100	mg/kg	0.0500	91.9	80-120
Barium	4.88	0.0100	"	5.00	97.7	80-120
Cadmium	0.0493	0.000100	"	0.0500	98.5	80-120
Copper	0.494	0.0100	"	0.500	98.7	80-120
Lead	0.0496	0.0100	"	0.0500	99.3	80-120
Nickel	0.0491	0.0100	"	0.0500	98.2	80-120
Selenium	0.0496	0.000100	"	0.0500	99.3	80-120
Silver	0.0448	0.000100	"	0.0500	89.6	80-120
Zinc	0.457	0.100	"	0.500	91.4	80-120

Matrix Spike (B3J1317-MS1)

Source: Y310328-04

Prepared: 10/13/2023 Analyzed: 10/17/2023

Arsenic	6.67	0.0875	mg/kg	4.38	1.82	111	75-125
Barium	538	8.75	"	438	68.5	107	75-125
Cadmium	4.87	0.0875	"	4.38	0.0592	110	75-125
Copper	49.8	8.75	"	43.8	6.02	99.9	75-125
Lead	10.5	8.75	"	4.38	6.27	95.8	75-125

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 - HSR - Eachus #3-23

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3J1317 - EPA 3050B

Matrix Spike (B3J1317-MS1)

Source: Y310328-04

Prepared: 10/13/2023 Analyzed: 10/17/2023

Nickel	8.84	8.75	mg/kg	4.38	4.65	95.8	75-125			
Selenium	4.81	0.0875	"	4.38	0.0775	108	75-125			
Silver	4.41	0.0875	"	4.38	0.0200	100	75-125			
Zinc	77.4	87.5	"	43.8	27.8	113	75-125			

Matrix Spike Dup (B3J1317-MSD1)

Source: Y310328-04

Prepared: 10/13/2023 Analyzed: 10/17/2023

Arsenic	6.44	0.0898	mg/kg	4.49	1.82	103	75-125	3.54	20	
Barium	554	8.98	"	449	68.5	108	75-125	2.95	20	
Cadmium	4.85	0.0898	"	4.49	0.0592	107	75-125	0.347	20	
Copper	49.1	8.98	"	44.9	6.02	96.1	75-125	1.26	20	
Lead	10.3	8.98	"	4.49	6.27	90.0	75-125	1.45	20	
Nickel	8.69	8.98	"	4.49	4.65	90.1	75-125	1.68	20	
Selenium	4.59	0.0898	"	4.49	0.0775	101	75-125	4.61	20	
Silver	4.43	0.0898	"	4.49	0.0200	98.2	75-125	0.331	20	
Zinc	76.2	89.8	"	44.9	27.8	108	75-125	1.57	20	

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 - HSR - Eachus #3-23

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.

Jordan A. Bynon, Project Manager



December 05, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Eachus #3-23

Project Number - [none]

Attached are your analytical results for Noble - HSR - Eachus #3-23 received by Origins Laboratory, Inc. November 14, 2023. This project is associated with Origins project number Y311374-01.

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 - HSR - Eachus #3-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-02@4'	Y311374-01	Soil	November 14, 2023 15:15	11/14/2023 17:13

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 - HSR - Eachus #3-23

www.originslaboratory.com

131374

page 1 of 1

ORIGINS
 LABORATORY, INC

Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0179
 Email Address: anewberry@eagle-environment.com


Project Manager: Andrew Newberry
 Project Name: HSR - Eachus #3-23
 Project Number: _____
 Samples Collected By: JAN

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	EC 205A	EC 205B	EC 205C		EC 205D
16520204	11/14/23	1515	3					X				X	X	X	X	EC 205A pH = Saturated paste prep ²
																Standards needed

Relinquished By: [Signature] Date: 11/14/23 Time: 1713
 Received By: [Signature] Date: 11/14/23 Time: 1713
 Turnaround Time: Same Day 24 Hr
 48 Hr 72 Hr Standard

Temp Received: 5 Date Results Needed: Noble

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 - HSR - Eachus #3-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y311374

Client: Eagle

Client Project ID: HSR Eachus 3-23

Checklist Completed by: JG/CHS

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/15/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.0 °C / _____ °C / _____ °C / _____ °C (Describe)

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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 11/16/23

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 - HSR - Eachus #3-23

FL-SS-02@4'

11/14/2023 3:15:00PM

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

Origins Laboratory, Inc.
Y311374-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B3K1509	11/15/2023	11/16/2023	
-------	----	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1501	11/15/2023	11/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.6 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1517	11/15/2023	11/15/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - HSR - Eachus #3-23

FL-SS-02@4'

11/14/2023 3:15:00PM

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

Origins Laboratory, Inc.
Y311374-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			B3K15 17	11/15/2023	11/15/2023	
Surrogate: Toluene-d8	104 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.02		0.499	meq/L	10	[CALC]	11/15/2023	11/16/2023	
Magnesium	2.37		0.823	"	"	"	"	"	
Sodium	1.12		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1632	11/16/2023	11/18/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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 - HSR - Eachus #3-23

FL-SS-02@4'

11/14/2023 3:15:00PM

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

Origins Laboratory, Inc.
Y311374-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3K1632	11/16/2023	11/18/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	91.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B3K2121	11/21/2023	11/22/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.547		0.0100	SAR	1	B3K1507	11/15/2023	11/16/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.950		0.00500	mmhos/cm	1	B3K1511	11/15/2023	11/16/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

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 - HSR - Eachus #3-23

FL-SS-02@4'

11/14/2023 3:15:00PM

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

Origins Laboratory, Inc.
 Y311374-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.03		0.0908	mg/kg	10	B3K2707	11/27/2023	11/29/2023	
Barium	29.4		9.08	"	"	"	"	"	
Cadmium	ND		0.0908	"	"	"	"	"	
Copper	ND		9.08	"	"	"	"	"	
Lead	ND		9.08	"	"	"	"	"	
Nickel	ND		9.08	"	"	"	"	"	
Selenium	ND		0.0908	"	"	"	"	"	
Silver	ND		0.0908	"	"	"	"	"	
Zinc	ND		90.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L718042	11/14/2023	11/20/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

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 B3K1501 - EPA 3550B										
Blank (B3K1501-BLK1)										
					Prepared: 11/15/2023 Analyzed: 11/16/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		81.4	50-150			

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 - HSR - Eachus #3-23

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 B3K1501 - EPA 3550B

LCS (B3K1501-BS1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.7	50-150			

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 - HSR - Eachus #3-23

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 B3K1501 - EPA 3550B

Matrix Spike (B3K1501-MS1)	Source: Y311320-02			Prepared: 11/15/2023 Analyzed: 11/16/2023						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	151	90.1	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.5	50-150			

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 - HSR - Eachus #3-23

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 B3K1501 - EPA 3550B										
Matrix Spike Dup (B3K1501-MSD1)					Source: Y311320-02					Prepared: 11/15/2023 Analyzed: 11/16/2023
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	70-130	11.6	35	
Residual Range Organics (C28-C40)	1230	200	"	1000	151	108	70-130	15.4	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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 - HSR - Eachus #3-23

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 B3K1517 - EPA 5030 (soil)

Blank (B3K1517-BLK1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

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	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	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 - HSR - Eachus #3-23

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 B3K1517 - EPA 5030 (soil)

LCS (B3K1517-BS1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100		97.9	70-130			
1,3,5-Trimethylbenzene	0.0988	0.00200	"	0.100		98.8	70-130			
Benzene	0.0909	0.00200	"	0.100		90.9	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100		89.1	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0939	0.00200	"	0.100		93.9	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	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 - HSR - Eachus #3-23

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 B3K1517 - EPA 5030 (soil)

Matrix Spike (B3K1517-MS1)	Source: Y311362-01			Prepared: 11/15/2023 Analyzed: 11/15/2023						
1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100	ND	94.0	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Benzene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Ethylbenzene	0.0925	0.00200	"	0.100	ND	92.5	70-130			
Naphthalene	0.101	0.00380	"	0.100	0.00110	99.8	70-130			
Toluene	0.0929	0.00200	"	0.100	ND	92.9	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - HSR - Eachus #3-23

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 B3K1517 - EPA 5030 (soil)

Matrix Spike Dup (B3K1517-MSD1)	Source: Y311362-01			Prepared: 11/15/2023 Analyzed: 11/15/2023						
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130	5.80	20	
1,3,5-Trimethylbenzene	0.0888	0.00200	"	0.100	ND	88.8	70-130	6.68	20	
Benzene	0.0898	0.00200	"	0.100	ND	89.8	70-130	2.55	20	
Ethylbenzene	0.0886	0.00200	"	0.100	ND	88.6	70-130	4.26	20	
Naphthalene	0.0974	0.00380	"	0.100	0.00110	96.3	70-130	3.55	20	
Toluene	0.0909	0.00200	"	0.100	ND	90.9	70-130	2.15	20	
o-Xylene	0.0969	0.00200	"	0.100	ND	96.9	70-130	3.73	20	
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.7	70-130	4.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K2707 - EPA 3050B

Blank (B3K2707-BLK1)

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3K2707-BS1)

Prepared: 11/27/2023 Analyzed: 11/29/2023

Arsenic	0.0465	0.000100	mg/kg	0.0500		93.0	80-120			
Barium	4.76	0.0100	"	5.00		95.2	80-120			
Cadmium	0.0465	0.000100	"	0.0500		93.0	80-120			
Copper	0.503	0.0100	"	0.500		101	80-120			
Lead	0.0464	0.0100	"	0.0500		92.9	80-120			
Nickel	0.0500	0.0100	"	0.0500		100	80-120			
Selenium	0.0410	0.000100	"	0.0500		82.0	80-120			
Silver	0.0481	0.000100	"	0.0500		96.1	80-120			
Zinc	0.451	0.100	"	0.500		90.2	80-120			

Matrix Spike (B3K2707-MS1)

Source: Y311372-01

Prepared: 11/27/2023 Analyzed: 11/29/2023

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 - HSR - Eachus #3-23

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K2707 - EPA 3050B

Matrix Spike (B3K2707-MS1)		Source: Y311372-01			Prepared: 11/27/2023 Analyzed: 11/29/2023					
Arsenic	6.12	0.0868	mg/kg	4.34	1.37	110	75-125			
Barium	485	8.68	"	434	25.6	106	75-125			
Cadmium	4.49	0.0868	"	4.34	0.0804	102	75-125			
Copper	50.2	8.68	"	43.4	2.35	110	75-125			
Lead	9.04	8.68	"	4.34	3.74	122	75-125			
Nickel	8.57	8.68	"	4.34	2.97	129	75-125			QM-07
Selenium	3.99	0.0868	"	4.34	0.0952	89.8	75-125			
Silver	4.51	0.0868	"	4.34	0.0203	104	75-125			
Zinc	58.5	86.8	"	43.4	13.0	105	75-125			

Matrix Spike Dup (B3K2707-MSD1)		Source: Y311372-01			Prepared: 11/27/2023 Analyzed: 11/29/2023					
Arsenic	5.33	0.0964	mg/kg	4.82	1.37	82.3	75-125	13.7	20	
Barium	428	9.64	"	482	25.6	83.4	75-125	12.4	20	
Cadmium	4.02	0.0964	"	4.82	0.0804	81.7	75-125	11.0	20	
Copper	45.3	9.64	"	48.2	2.35	89.0	75-125	10.4	20	
Lead	8.14	9.64	"	4.82	3.74	91.3	75-125	10.5	20	
Nickel	7.56	9.64	"	4.82	2.97	95.1	75-125	12.6	20	
Selenium	3.38	0.0964	"	4.82	0.0952	68.2	75-125	16.5	20	QM-07
Silver	4.01	0.0964	"	4.82	0.0203	82.8	75-125	11.8	20	
Zinc	51.9	96.4	"	48.2	13.0	80.7	75-125	11.9	20	

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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

Blank (B3K1632-BLK1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	170		"	200		83.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.8	60-130			

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200		96.1	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		94.8	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.8	70-130			
Anthracene	0.187	0.020	"	0.200		93.5	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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

Benzo (a) anthracene	0.166	0.005	mg/kg	0.200		83.1	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.7	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200		91.1	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.1	70-130			
Benzo (k) fluoranthene	0.173	0.020	"	0.200		86.5	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.187	0.020	"	0.200		93.4	70-130			
Fluoranthene	0.191	0.020	"	0.200		95.7	70-130			
Fluorene	0.196	0.020	"	0.200		97.8	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.0	70-130			
Naphthalene	0.196	0.002	"	0.200		98.1	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.3	70-130			
Pyrene	0.176	0.020	"	0.200		88.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		91.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

Matrix Spike (B3K1632-MS1)

Source: Y311372-01

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.4	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.0	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	98.0	70-130			
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130			
Benzo (a) anthracene	0.175	0.005	"	0.200	0.0006	87.2	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	ND	98.4	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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

Matrix Spike (B3K1632-MS1)		Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023					
Benzo (k) fluoranthene	0.197	0.020	mg/kg	0.200	ND	98.4	70-130			
Chrysene	0.183	0.020	"	0.200	0.0003	91.1	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.2	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130			
Fluorene	0.195	0.020	"	0.200	ND	97.6	70-130			
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.7	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.6	70-130			
Pyrene	0.186	0.020	"	0.200	ND	93.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	180		"	200		91.8	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

Matrix Spike Dup (B3K1632-MSD1)		Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130	2.40	20	
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.5	70-130	3.59	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	2.98	20	
Anthracene	0.175	0.020	"	0.200	ND	87.3	70-130	8.21	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	0.0006	91.0	70-130	4.19	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130	4.29	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	1.66	20	
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	ND	106	70-130	6.94	20	
Benzo (k) fluoranthene	0.196	0.020	"	0.200	ND	98.2	70-130	0.243	20	
Chrysene	0.186	0.020	"	0.200	0.0003	93.1	70-130	2.11	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	99.2	70-130	1.97	20	
Fluoranthene	0.200	0.020	"	0.200	ND	100	70-130	6.99	20	

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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

Matrix Spike Dup (B3K1632-MSD1)	Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023						
Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	4.07	20	
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.7	70-130	6.29	20	
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130	7.05	20	
Phenanthrene	0.191	0.020	"	0.200	ND	95.7	70-130	2.17	20	
Pyrene	0.183	0.020	"	0.200	ND	91.7	70-130	1.67	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	180		"	200		90.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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 - HSR - Eachus #3-23

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1507 - Saturated Paste Metals

Blank (B3K1507-BLK1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

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

Duplicate (B3K1507-DUP1)

Source: Y311361-03

Prepared: 11/15/2023 Analyzed: 11/16/2023

Calcium PPM	353	10.0	mg/L		285			21.3	50	
SAR	ND	0.0100	SAR		2.62				200	
Magnesium PPM	313	10.0	mg/L		262			17.9	50	
Sodium PPM	288	10.0	"		255			12.1	50	

Batch B3K1509 - DTPA Sorbitol Preparation

Blank (B3K1509-BLK1)

Prepared: 11/15/2023 Analyzed: 11/16/2023

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

Duplicate (B3K1509-DUP1)

Source: Y311361-02

Prepared: 11/15/2023 Analyzed: 11/16/2023

Boron	1.95	0.100	mg/L		1.94			0.572	50	
-------	------	-------	------	--	------	--	--	-------	----	--

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 - HSR - Eachus #3-23

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K1511 - Saturated Paste pH/EC										
Blank (B3K1511-BLK1)					Prepared: 11/15/2023 Analyzed: 11/20/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3K1511-DUP1)					Source: Y311361-03 Prepared: 11/15/2023 Analyzed: 11/16/2023					
Specific Conductance (EC)	3.82	0.00500	mmhos/cm		3.12			20.1	25	
Batch B3K2121 - Saturated Paste pH/EC										
Duplicate (B3K2121-DUP1)					Source: Y311369-03 Prepared: 11/21/2023 Analyzed: 11/22/2023					
pH	8.12		pH Units		8.13			0.123	25	

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 - HSR - Eachus #3-23

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L718042 -										
DUP (L 98950-DUP)		Source: 98950			Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98950-MS)		Source: 98950			Prepared: Analyzed: 11/20/2023					
Chromium, Hexavalent	35.5	2.5	mg/Kg	40	<1.22	89	75-125			
LCS (LCS)		Prepared: Analyzed: 11/20/2023								
Chromium, Hexavalent	6.98	0.5	mg/Kg	8		87	75-125			
LRB (LRB)		Prepared: Analyzed: 11/20/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - HSR - Eachus #3-23

Notes and Definitions

U Sample is Non-Detect.

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

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.

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.

Jordan A. Bynon, Project Manager



December 07, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Eachus #3-23

Project Number - [none]

Attached are your analytical results for Noble - HSR - Eachus #3-23 received by Origins Laboratory, Inc. November 15, 2023. This project is associated with Origins project number Y311399-01.

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 - HSR - Eachus #3-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-03@4'	Y311399-01	Soil	November 15, 2023 10:16	11/15/2023 14:42
FL-SS-04@3'	Y311399-02	Soil	November 15, 2023 10:34	11/15/2023 14:42

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 - HSR - Eachus #3-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4311399 Client: Eagle
 Client Project ID: Eachus #3-23
 Checklist Completed by: EHS Shipped Via: HD
 Date/time completed: 11/15/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 114 °C 1 °C 1 °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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 11/17/23

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 - HSR - Eachus #3-23

FL-SS-03@4'

11/15/2023 10:16:00AM

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

Origins Laboratory, Inc.
Y311399-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0989	mg/L	1	B3K1610	11/16/2023	11/17/2023	
-------	----	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1601	11/16/2023	11/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.3 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1531	11/15/2023	11/16/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - HSR - Eachus #3-23

FL-SS-03@4'

11/15/2023 10:16:00AM

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

Origins Laboratory, Inc.
Y311399-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B3K15 31	11/15/2023	11/16/2023	
Surrogate: Toluene-d8	98.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.30		0.499	meq/L	10	[CALC]	11/16/2023	11/17/2023	
Magnesium	1.11		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1632	11/16/2023	11/20/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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 - HSR - Eachus #3-23

FL-SS-03@4'

11/15/2023 10:16:00AM

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

Origins Laboratory, Inc.
Y311399-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3K1632	11/16/2023	11/20/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	111 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.05			pH Units	1	B3K1614	11/16/2023	11/17/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.266		0.0100	SAR	1	B3K1612	11/16/2023	11/17/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.555		0.00500	mmhos/cm	1	B3K1614	11/16/2023	11/17/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

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 - HSR - Eachus #3-23

FL-SS-03@4'

11/15/2023 10:16:00AM

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

Origins Laboratory, Inc.
 Y311399-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.81	0.0861	0.0861	mg/kg	10	B3K1620	11/19/2023	12/07/2023	
Barium	36.5	8.61	8.61	"	"	"	"	"	
Cadmium	ND	0.0861	0.0861	"	"	"	"	"	
Copper	ND	8.61	8.61	"	"	"	"	"	
Lead	ND	8.61	8.61	"	"	"	"	"	
Nickel	ND	8.61	8.61	"	"	"	"	"	
Selenium	0.114	0.0861	0.0861	"	"	"	"	"	
Silver	ND	0.0861	0.0861	"	"	"	"	"	
Zinc	16.3	8.61	8.61	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L718445	11/15/2023	11/21/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

FL-SS-04@3'

11/15/2023 10:34:00AM

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

Origins Laboratory, Inc.
Y311399-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.152		0.101	mg/L	1	B3K1610	11/16/2023	11/17/2023	
-------	-------	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K1601	11/16/2023	11/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.6 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K1531	11/15/2023	11/16/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - HSR - Eachus #3-23

FL-SS-04@3'

11/15/2023 10:34:00AM

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

Origins Laboratory, Inc.
 Y311399-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B3K15 31	11/15/2023	11/16/2023	
Surrogate: Toluene-d8	99.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.14		0.499	meq/L	10	[CALC]	11/16/2023	11/17/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K1632	11/16/2023	11/20/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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 - HSR - Eachus #3-23

FL-SS-04@3'

11/15/2023 10:34:00AM

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

Origins Laboratory, Inc.
Y311399-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3K1632	11/16/2023	11/20/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	93.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.16			pH Units	1	B3K1614	11/16/2023	11/17/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.134		0.0100	SAR	1	B3K1612	11/16/2023	11/17/2023	
-----	-------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.184		0.00500	mmhos/cm	1	B3K1614	11/16/2023	11/17/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

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 - HSR - Eachus #3-23

FL-SS-04@3'

11/15/2023 10:34:00AM

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

Origins Laboratory, Inc.
 Y311399-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.00		0.0978	mg/kg	10	B3K1620	11/19/2023	12/07/2023	
Barium	70.1		9.78	"	"	"	"	"	
Cadmium	0.165		0.0978	"	"	"	"	"	
Copper	ND		9.78	"	"	"	"	"	
Lead	ND		9.78	"	"	"	"	"	
Nickel	ND		9.78	"	"	"	"	"	
Selenium	0.155		0.0978	"	"	"	"	"	
Silver	ND		0.0978	"	"	"	"	"	
Zinc	26.9		9.78	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L718445	11/15/2023	11/21/2023	
----------------------	----	-------	-----	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

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 B3K1531 - EPA 5030 (soil)

Blank (B3K1531-BLK1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

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	0.13		"	0.125	102		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		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 - HSR - Eachus #3-23

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 B3K1531 - EPA 5030 (soil)

LCS (B3K1531-BS1)

Prepared: 11/15/2023 Analyzed: 11/15/2023

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.0976	0.00380	"	0.100		97.6	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	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 - HSR - Eachus #3-23

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 B3K1531 - EPA 5030 (soil)

Matrix Spike (B3K1531-MS1)	Source: Y311391-01			Prepared: 11/15/2023 Analyzed: 11/15/2023						
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130			
Naphthalene	0.0975	0.00380	"	0.100	0.000520	96.9	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.217	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	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 - HSR - Eachus #3-23

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 B3K1531 - EPA 5030 (soil)

Matrix Spike Dup (B3K1531-MSD1)	Source: Y311391-01			Prepared: 11/15/2023 Analyzed: 11/15/2023						
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130	0.183	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	0.132	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.800	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	1.07	20	
Naphthalene	0.104	0.00380	"	0.100	0.000520	103	70-130	6.28	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	1.25	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	0.159	20	
m,p-Xylene	0.216	0.00400	"	0.200	ND	108	70-130	0.574	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.1	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 - HSR - Eachus #3-23

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 B3K1601 - EPA 3550B										
Blank (B3K1601-BLK1)										
					Prepared: 11/16/2023 Analyzed: 11/17/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.7	50-150			

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 - HSR - Eachus #3-23

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 B3K1601 - EPA 3550B

LCS (B3K1601-BS1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Diesel (C10-C28)	872	50.0	mg/kg	1000		87.2	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.6	50-150			

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 - HSR - Eachus #3-23

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 B3K1601 - EPA 3550B

Matrix Spike (B3K1601-MS1)	Source: Y311391-01			Prepared: 11/16/2023 Analyzed: 11/17/2023						
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.3	50-150			

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 - HSR - Eachus #3-23

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 B3K1601 - EPA 3550B										
Matrix Spike Dup (B3K1601-MSD1)					Source: Y311391-01					Prepared: 11/16/2023 Analyzed: 11/17/2023
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	13.5	35	
Residual Range Organics (C28-C40)	1300	200	"	1000	ND	130	70-130	14.6	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1620 - EPA 3050B

Blank (B3K1620-BLK1)

Prepared: 11/19/2023 Analyzed: 12/07/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.0100	"							

LCS (B3K1620-BS1)

Prepared: 11/19/2023 Analyzed: 12/07/2023

Arsenic	0.0482	0.000100	mg/kg	0.0500		96.3	80-120			
Barium	5.19	0.0100	"	5.00		104	80-120			
Cadmium	0.0491	0.000100	"	0.0500		98.2	80-120			
Copper	0.519	0.0100	"	0.500		104	80-120			
Lead	0.0469	0.0100	"	0.0500		93.9	80-120			
Nickel	0.0499	0.0100	"	0.0500		99.8	80-120			
Selenium	0.0452	0.000100	"	0.0500		90.3	80-120			
Silver	0.0506	0.000100	"	0.0500		101	80-120			
Zinc	0.474	0.0100	"	0.500		94.8	80-120			

Matrix Spike (B3K1620-MS1)

Source: Y311399-01

Prepared: 11/19/2023 Analyzed: 12/07/2023

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 - HSR - Eachus #3-23

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1620 - EPA 3050B

Matrix Spike (B3K1620-MS1)		Source: Y311399-01			Prepared: 11/19/2023 Analyzed: 12/07/2023					
Arsenic	6.58	0.0903	mg/kg	4.51	1.81	106	75-125			
Barium	527	9.03	"	451	36.5	109	75-125			
Cadmium	4.90	0.0903	"	4.51	0.0775	107	75-125			
Copper	53.2	9.03	"	45.1	6.21	104	75-125			
Lead	9.19	9.03	"	4.51	4.32	108	75-125			
Nickel	8.28	9.03	"	4.51	3.86	98.1	75-125			
Selenium	4.69	0.0903	"	4.51	0.114	101	75-125			
Silver	4.90	0.0903	"	4.51	ND	109	75-125			
Zinc	61.2	9.03	"	45.1	16.3	99.3	75-125			
Matrix Spike Dup (B3K1620-MSD1)		Source: Y311399-01			Prepared: 11/19/2023 Analyzed: 12/07/2023					
Arsenic	8.61	0.0909	mg/kg	4.55	1.81	150	75-125	26.7	20	QM-07
Barium	487	9.09	"	455	36.5	99.0	75-125	7.90	20	
Cadmium	4.63	0.0909	"	4.55	0.0775	100	75-125	5.67	20	
Copper	58.4	9.09	"	45.5	6.21	115	75-125	9.44	20	
Lead	8.71	9.09	"	4.55	4.32	96.7	75-125	5.36	20	
Nickel	11.0	9.09	"	4.55	3.86	157	75-125	28.1	20	QM-07
Selenium	4.40	0.0909	"	4.55	0.114	94.2	75-125	6.42	20	
Silver	4.48	0.0909	"	4.55	ND	98.5	75-125	8.94	20	
Zinc	59.6	9.09	"	45.5	16.3	95.3	75-125	2.51	20	

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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

Blank (B3K1632-BLK1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	170		"	200		83.7	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.8	60-130			

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200		96.1	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200		94.8	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.8	70-130			
Anthracene	0.187	0.020	"	0.200		93.5	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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

LCS (B3K1632-BS1)

Prepared: 11/16/2023 Analyzed: 11/18/2023

Benzo (a) anthracene	0.166	0.005	mg/kg	0.200		83.1	70-130			
Benzo (a) pyrene	0.179	0.020	"	0.200		89.7	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200		91.1	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.1	70-130			
Benzo (k) fluoranthene	0.173	0.020	"	0.200		86.5	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.187	0.020	"	0.200		93.4	70-130			
Fluoranthene	0.191	0.020	"	0.200		95.7	70-130			
Fluorene	0.196	0.020	"	0.200		97.8	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200		91.0	70-130			
Naphthalene	0.196	0.002	"	0.200		98.1	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.3	70-130			
Pyrene	0.176	0.020	"	0.200		88.1	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		91.4	60-130			
Surrogate: Pyrene-d10	190		"	200		96.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

Matrix Spike (B3K1632-MS1)

Source: Y311372-01

Prepared: 11/16/2023 Analyzed: 11/18/2023

1-Methylnaphthalene	0.197	0.002	mg/kg	0.200	ND	98.4	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	95.0	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	98.0	70-130			
Anthracene	0.190	0.020	"	0.200	ND	94.8	70-130			
Benzo (a) anthracene	0.175	0.005	"	0.200	0.0006	87.2	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130			
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	ND	98.4	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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

Matrix Spike (B3K1632-MS1)		Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023					
Benzo (k) fluoranthene	0.197	0.020	mg/kg	0.200	ND	98.4	70-130			
Chrysene	0.183	0.020	"	0.200	0.0003	91.1	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.2	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.5	70-130			
Fluorene	0.195	0.020	"	0.200	ND	97.6	70-130			
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.7	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.6	70-130			
Pyrene	0.186	0.020	"	0.200	ND	93.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	180		"	200		91.8	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.5	60-130			

Matrix Spike Dup (B3K1632-MSD1)		Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023					
1-Methylnaphthalene	0.202	0.002	mg/kg	0.200	ND	101	70-130	2.40	20	
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.5	70-130	3.59	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	2.98	20	
Anthracene	0.175	0.020	"	0.200	ND	87.3	70-130	8.21	20	
Benzo (a) anthracene	0.183	0.005	"	0.200	0.0006	91.0	70-130	4.19	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130	4.29	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	1.66	20	
Benzo (g,h,i) perylene	0.211	0.020	"	0.200	ND	106	70-130	6.94	20	
Benzo (k) fluoranthene	0.196	0.020	"	0.200	ND	98.2	70-130	0.243	20	
Chrysene	0.186	0.020	"	0.200	0.0003	93.1	70-130	2.11	20	
Dibenz (a,h) anthracene	0.198	0.020	"	0.200	ND	99.2	70-130	1.97	20	
Fluoranthene	0.200	0.020	"	0.200	ND	100	70-130	6.99	20	

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 - HSR - Eachus #3-23

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1632 - EPA 3580

Matrix Spike Dup (B3K1632-MSD1)	Source: Y311372-01			Prepared: 11/16/2023 Analyzed: 11/18/2023						
Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	4.07	20	
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.7	70-130	6.29	20	
Naphthalene	0.216	0.002	"	0.200	ND	108	70-130	7.05	20	
Phenanthrene	0.191	0.020	"	0.200	ND	95.7	70-130	2.17	20	
Pyrene	0.183	0.020	"	0.200	ND	91.7	70-130	1.67	20	
<i>Surrogate: Fluorene-d10</i>	200		<i>ug/kg</i>	200		99.0	60-130			
<i>Surrogate: Anthracene-d10</i>	180		"	200		90.1	60-130			
<i>Surrogate: Pyrene-d10</i>	190		"	200		95.3	60-130			
<i>Surrogate: Benzo (a) pyrene-d12</i>	200		"	200		101	60-130			

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 - HSR - Eachus #3-23

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1610 - DTPA Sorbitol Preparation

Blank (B3K1610-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Boron ND 0.100 mg/L

Duplicate (B3K1610-DUP1)

Source: Y311375-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

Boron 0.0782 0.100 mg/L 0.124 45.4 50

Batch B3K1612 - Saturated Paste Metals

Blank (B3K1612-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3K1612-DUP1)

Source: Y311376-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

SAR ND 0.0100 SAR 2.07 200

Calcium PPM 18.3 10.0 mg/L 18.8 2.54 50

Magnesium PPM 5.88 10.0 " 5.85 0.512 50

Sodium PPM 38.6 10.0 " 40.0 3.62 50

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 - HSR - Eachus #3-23

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3K1614 - Saturated Paste pH/EC

Blank (B3K1614-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K1614-DUP1)

Source: Y311376-01

Prepared: 11/16/2023 Analyzed: 11/17/2023

pH	8.11		pH Units		8.24			1.59	25	
Specific Conductance (EC)	0.349	0.00500	mmhos/cm		0.344			1.33	25	

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 - HSR - Eachus #3-23

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L718445 -										
DUP (L 98897-DUP)		Source: 98897			Prepared: Analyzed: 11/21/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98897-MS)		Source: 98897			Prepared: Analyzed: 11/21/2023					
Chromium, Hexavalent	32.5	2.5	mg/Kg	39.7	<1.22	82	75-125			
LCS (LCS)		Prepared: Analyzed: 11/21/2023								
Chromium, Hexavalent	7.13	0.5	mg/Kg	8		89	75-125			
LRB (LRB)		Prepared: Analyzed: 11/21/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - HSR - Eachus #3-23

Notes and Definitions

U Sample is Non-Detect.

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

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.

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.

Jordan A. Bynon, Project Manager



January 15, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Eachus #3-23

Project Number - [none]

Attached are your analytical results for Noble - HSR - Eachus #3-23 received by Origins Laboratory, Inc. December 13, 2023. This project is associated with Origins project number Y312406-01.

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Eachus #3-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@3'	Y312406-01	Soil	November 14, 2023 15:05	12/13/2023 11:40

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 - HSR - Eachus #3-23

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y312406

Client: Eagle

Client Project ID: HSR Eachus #3-23

Checklist Completed by: TJH

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/13/12

Airbill #: NA

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

Cooler Number/Temperature: 1, 2 °C / _____ °C / _____ °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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by JH (Project Manager)

Date/Time Reviewed 12-14-12

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 - HSR - Eachus #3-23

Background-02@3'

11/14/2023 3:05:00PM

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

Waypoint Analytical, LLC.
Y312406-01 (Soil)

Total Metals by 6020B

Arsenic	3.57	0.0855	0.25	mg/Kg	5	L724503	12/22/2023	01/11/2024	
---------	------	--------	------	-------	---	---------	------------	------------	--

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 - HSR - Eachus #3-23

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L724503 - 3050B										
MSD (A 68990-MSD-L724503)			Source: 68990			Prepared: 12/22/2023 Analyzed: 01/11/2024				
Arsenic	4.81	0.25	mg/Kg	2.41	1.9	121	75-125	23.8	80	
MS (A 68990-MS-L724503)			Source: 68990			Prepared: 12/22/2023 Analyzed: 01/11/2024				
Arsenic	6.11	0.25	mg/Kg	2.4	1.9	175	75-125			*
LCS (LCS-L724503)						Prepared: 12/22/2023 Analyzed: 01/11/2024				
Arsenic	2.16	0.25	mg/Kg	2.5		86	80-120			
LRB (LRB-L724503)						Prepared: 12/22/2023 Analyzed: 01/11/2024				
Arsenic	ND	0.25	mg/Kg							

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 - HSR - Eachus #3-23

Notes and Definitions

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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.

Jordan A. Bynon, Project Manager