

Wellhead Closure Checklist

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

Additional attachments (optional):	Pit Closure	Tank Battery Closure	Flowline Closure 5-8-22	Partially Buried Vault Closure
Site Name & COGCC Facility Number: JOHNSON 8 #13-270		Date: 5-8-22		Remediation Project #: 22672
Associated Wells: 05-123-29848		Age of Site: YEARS		Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.322283, -104.607846				Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) GOOD				
USCS Soil Type: SW		Estimated Depth to Groundwater: ~ 12-15'		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) NONE OBSERVED				
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) NONE OBSERVED				
Wellhead(s)				
Well API	05-123-29848			
Age	YEARS			
Condition of surface around wellhead	GOOD - PER CREW			
PID Readings	NA - EXCAVATED UPON ARRIVAL			
Condition of subsurface (estimated present)	GOOD			
PID Readings	0.9	2.1	1.1	3.4
Sample taken? Location/Sample ID	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04
Photo Number(s)	SEE PHOTOLOG			
Other observations regarding wellheads: WELL CASING CUT/CAPPED FOLLOWING ASSESSMENT.				
Summary				
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards				
Total number of samples field screened: 5		Total number of samples collected: 5		
Highest PID Reading: 3.8		Total number of samples submitted to lab for analysis: 1		
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent: N/A		Estimated spill volume:		
Lateral extent:		Volume of soil removed:		
Is additional investigation required?				
Was groundwater encountered during the investigation? <input checked="" type="radio"/> 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:		
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	5-5-22	Pit Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: JOHNSON 6 #13-270		Date: 5-5-22		Remediation Project #: 22672					
Associated Wells: 05-123-29848		Age of Site: YEARS		Number of Photos Attached: 1					

Starting point: (GPS coordinates and descriptions) 40.32222, -104.60735 AT WELL

End point: (GPS coordinates and descriptions) 40.320505, -104.611787 AT SEPARATOR

USCS Soil Type: SW Estimated Depth to Groundwater: ~12-15'

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, C, W							
Depth	~4'							
Age	YEARS							
Length	~1545'							
Construction Material	STEEL							
Were flowlines pulled?	NO - ABANDONED IN PLACE							
Visual Integrity of lines	GOOD - PER INTEGRITY TEST							
Visual impacts if trenched	NA							
PID Readings if trenched	2.8							
Sample taken? Location/Sample ID#	FL-SS-01							
Photo Number(s)	SEE PHOTOLOG							

Other observations regarding on location flowlines:
FL ABANDONED IN PLACE. PT B (OSEP) ASSESSED. CHANGE OF DIRECTION NOT ASSESSED DUE TO FIELD CONSTRAINTS.

Summary

Was impacted soil identified?		
No	Yes - less than 10 cubic yards	Yes - more than 10 cubic yards
Total number of samples field screened:	1	Total number of samples collected:
Highest PID Reading:	2.8	Total number of samples submitted to lab for analysis:
If more than 10 cubic yards of impacted soil were observed:		
Vertical extent:		Estimated spill volume:
Lateral extent:	N/A	Volume of soil removed:
Is additional investigation required?		

Was groundwater encountered during the investigation?		
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:
Total number of samples submitted to lab for analysis:		



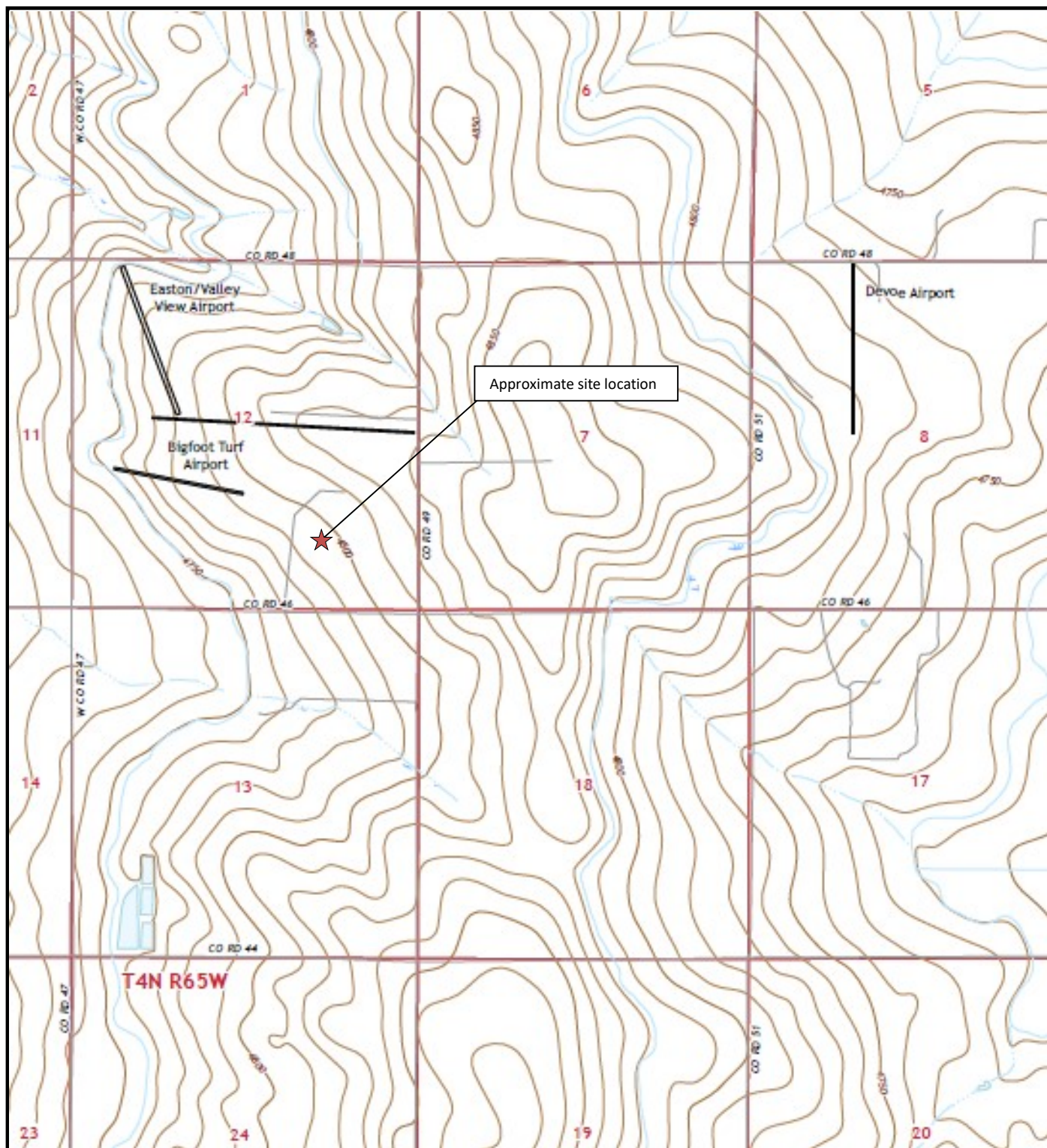
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map



Topographic Site Location Map

Johnson G #13-27D
 Closure Assessment
 40.322233 / -104.607346
 SW¼ SE¼ SEC.12 T4N R65W 6PM
 Weld County, Colorado
 API # 05-123-29484
 Remediation # 22672






EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.

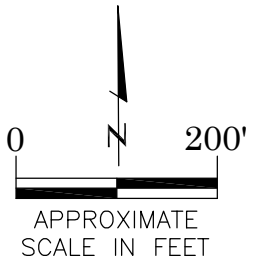
Source: USGS 7.5 Minute Topographic
 Map, Valley View School, CO
 Quadrangle 2022

Figure 1



LEGEND

-  FORMER JOHNSON G #13-27D WELLHEAD (PLUGGED AND ABANDONED)
-  ASSOCIATED SEPARATOR
-  APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



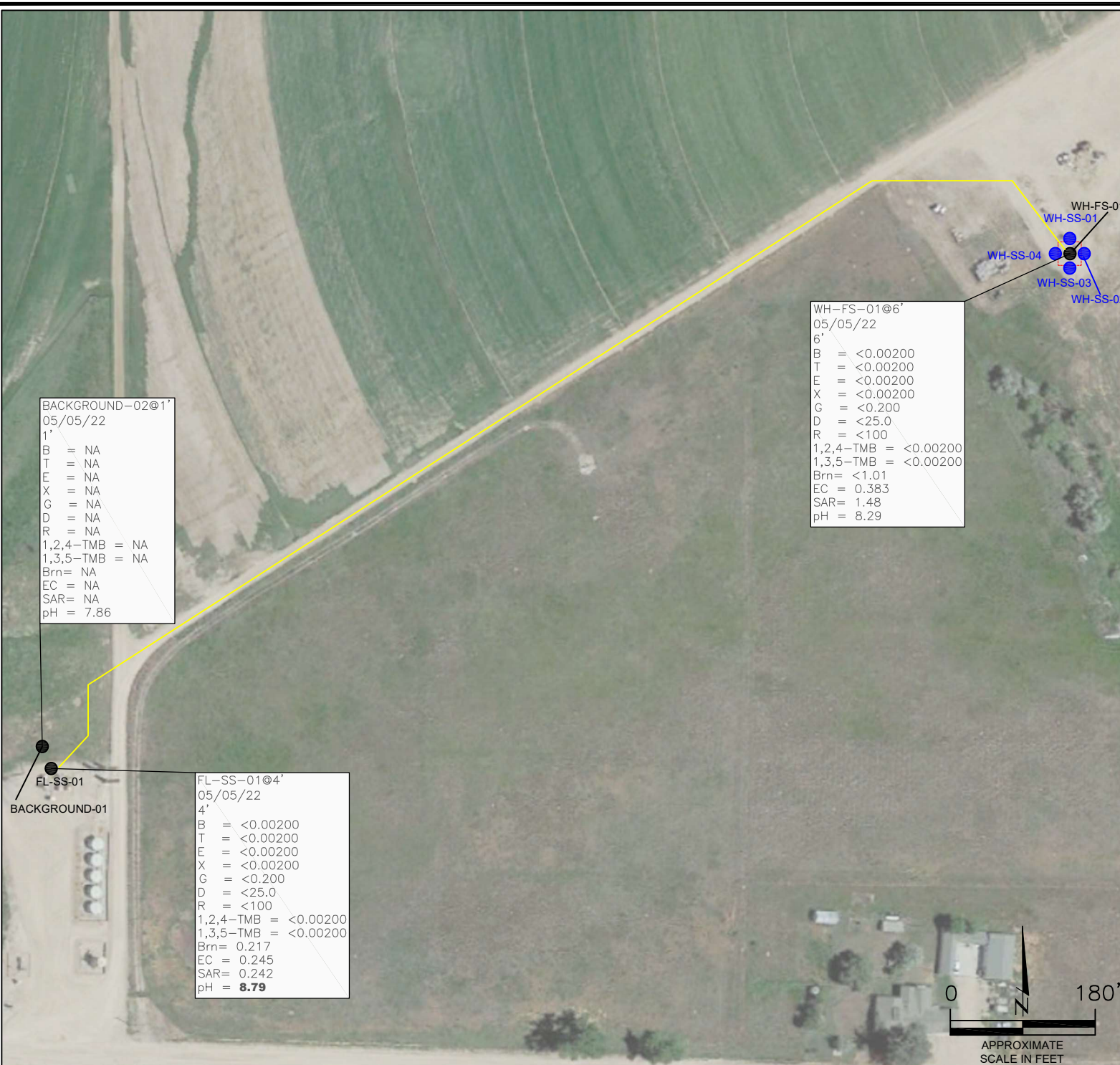
AERIAL SITE LOCATION MAP
JOHNSON G #13-27D
CLOSURE ASSESSMENT
40.322233 / -104.607346
SW $\frac{1}{4}$ SE $\frac{1}{4}$ SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29484
REMEDATION # 22672

DATE: 12/29/22	
FIG. NO. 2	DRAWN BY: IM



EAGLE
ENVIRONMENTAL
CONSULTING, INC.

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



BACKGROUND-02@1'
05/05/22
1'
B = NA
T = NA
E = NA
X = NA
G = NA
D = NA
R = NA
1,2,4-TMB = NA
1,3,5-TMB = NA
Brn = NA
EC = NA
SAR = NA
pH = 7.86

WH-FS-01@6'
05/05/22
6'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn = <1.01
EC = 0.383
SAR = 1.48
pH = 8.29

FL-SS-01
BACKGROUND-01

FL-SS-01@4'
05/05/22
4'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn = 0.217
EC = 0.245
SAR = 0.242
pH = **8.79**

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 (ABANDONED IN PLACE)

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS 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 WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS THAT EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
JOHNSON G #13-27D
CLOSURE ASSESSMENT
40.322233 / -104.607346
SW 1/4 SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29484
REMEDIAL # 22672

DATE:
12/29/22
DRAWN BY:
IM
FIG.
NO. 3



EAGLE
ENVIRONMENTAL
CONSULTING, INC.
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 (ABANDONED IN PLACE)

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

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

VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

JOHNSON G #13-27D
CLOSURE ASSESSMENT
40.322233 / -104.607346
SWSE SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29484
REMEDIAL # 22672

DATE:
12/29/22

DRAWN BY:
IM

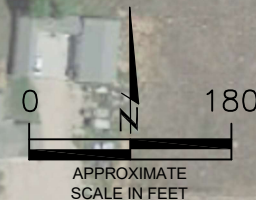
FIG.
NO. 4



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

WH-FS-01@6'
05/05/22
6'
ND = <0.00067
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = 0.00093
Benzo(b)fluoranthene = 0.000857
Benzo(k)fluoranthene = ND
Chrysene = 0.000821
Dibenzo(a,h)anthracene = ND
Fluoranthene = 0.00163
Fluorene = ND
Indeno(1,2,3-CD)pyrene = 0.000715
Naphthalene = ND
Pyrene = 0.00183

FL-SS-01@4'
05/05/22
4'
ND = <0.00067
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = 0.000521
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
JOHNSON G #13-27D
CLOSURE ASSESSMENT
40.322233 / -104.607346
SW1/4 SE1/4 SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29484
REMEDATION # 22672

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.322233 / -104.607350)	05/05/22	5	0.9	N
WH-SS-02 @ 5' (40.322225 / -104.607334)	05/05/22	5	2.1	N
WH-SS-03 @ 5' (40.322219 / -104.607344)	05/05/22	5	1.1	N
WH-SS-04 @ 5' (40.322225 / -104.607357)	05/05/22	5	3.4	N
WH-FS-01 @ 6' (40.322225 / -104.607346)	05/05/22	6	3.8	Y
FL-SS-01 @ 4' (40.320507 / -104.611791)	05/05/22	4	1.1	Y
Background-02 @ 1' (40.320570 / -104.611775)	05/05/22	1	1.3	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
JOHNSON G #13-27D
CLOSURE ASSESSMENT
40.322233 / -104.607346
SW1/4 SE1/4 SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29484
REMEDATION # 22672

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6'		FL-SS-01 @ 4'		Background-02 @ 1'	
		(40.322225 / -104.607346)		(40.320507 / -104.611791)		(40.320570 / -104.611775)	
Sample Date		5/5/2022		5/5/2022		5/5/2022	
Sample Depth		6'		4'		1'	
PID Reading (ppm-v)		3.8		1.1		1.3	
Regulatory Limits							
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs				
VOCs							
Benzene	mg/kg	1.2	0.0026	<0.00200	<0.00200		NA
Toluene	mg/kg	490	0.69	<0.00200	<0.00200		NA
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	<0.00200		NA
Total Xylenes	mg/kg	58	9.9	<0.00200	<0.00200		NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	<0.00200		NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	<0.00200		NA
Total Petroleum Hydrocarbons							
TPH-GRO	mg/kg	500	--	<0.200	<0.200		NA
TPH-DRO	mg/kg	500	--	<25.0	<25.0		NA
TPH-RRO	mg/kg	500	--	<100	<100		NA
Polycyclic Aromatics Hydrocarbons							
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00067	<0.00067		NA
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00067	<0.00067		NA
Acenaphthene	mg/kg	360	0.55	<0.00067	<0.00067		NA
Anthracene	mg/kg	1800	5.8	<0.00067	<0.00067		NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067	<0.00067		NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	0.00093	<0.00067		NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	0.000857	<0.00067		NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067	<0.00067		NA
Chrysene	mg/kg	110	9	0.000821	<0.00067		NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067	<0.00067		NA
Fluoranthene	mg/kg	240	8.9	0.00163	0.000521		NA
Fluorene	mg/kg	240	0.54	<0.00067	<0.00067		NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	0.000715	<0.00067		NA
Naphthalene	mg/kg	2	0.0038	<0.00067	<0.00067		NA
Pyrene	mg/kg	180	1.3	0.00183	<0.00067		NA
Soil Suitability (Inorganics)							
Boron	mg/L	2	--	<1.01	0.217		NA
pH	standard unit	6-8.3	--	8.29	8.79		7.86
Sodium Adsorption Ratio (SAR)	--	<6	--	1.48	0.242		NA
Specific Conductance (EC)	mmhos/cm	<4	--	0.383	0.245		NA
COGCC = Colorado Oil and Gas Conservation Commission		VOCs - Volatile Organic Compounds		NA - Not Analyzed			
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels					
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels					
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics					
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics					
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics					
SAR = Sodium Adsorption Ratio							
Notes:							
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit							
Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits.							



ATTACHMENT A

Photo Log

Johnson G #13-27
API # 05-123-29848
Remediation # 22672

Closure Assessment

May 2022

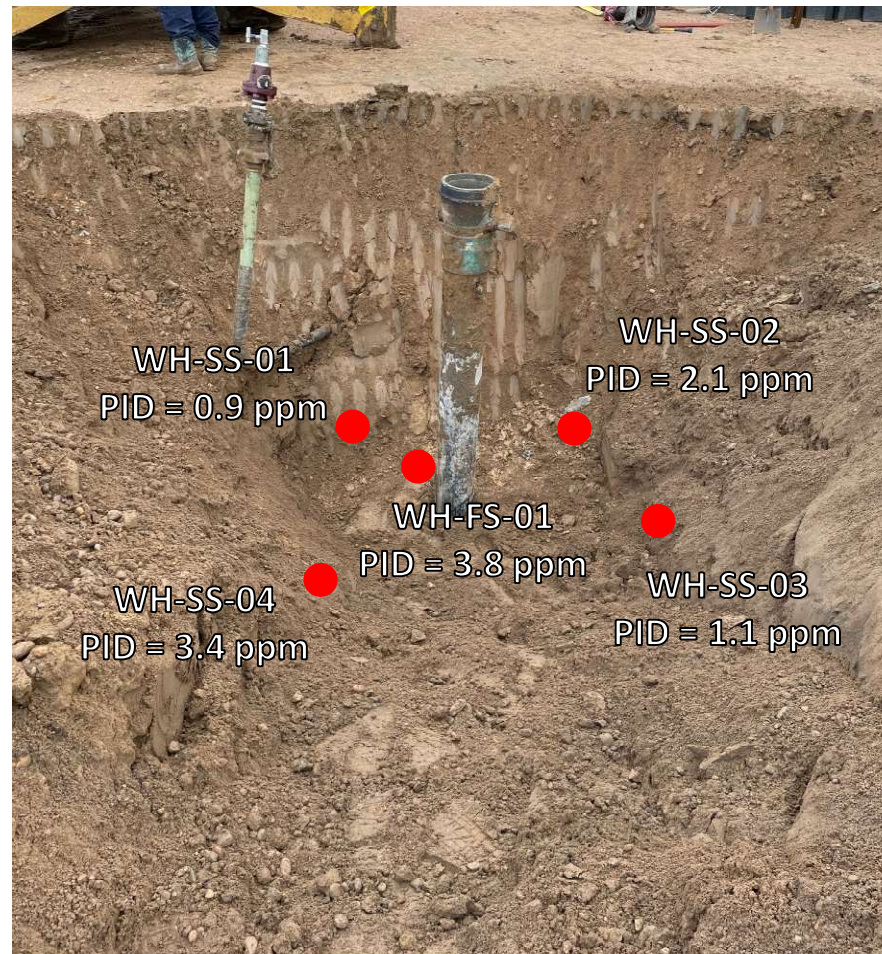


EAGLE
ENVIRONMENTAL
CONSULTING, INC.

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



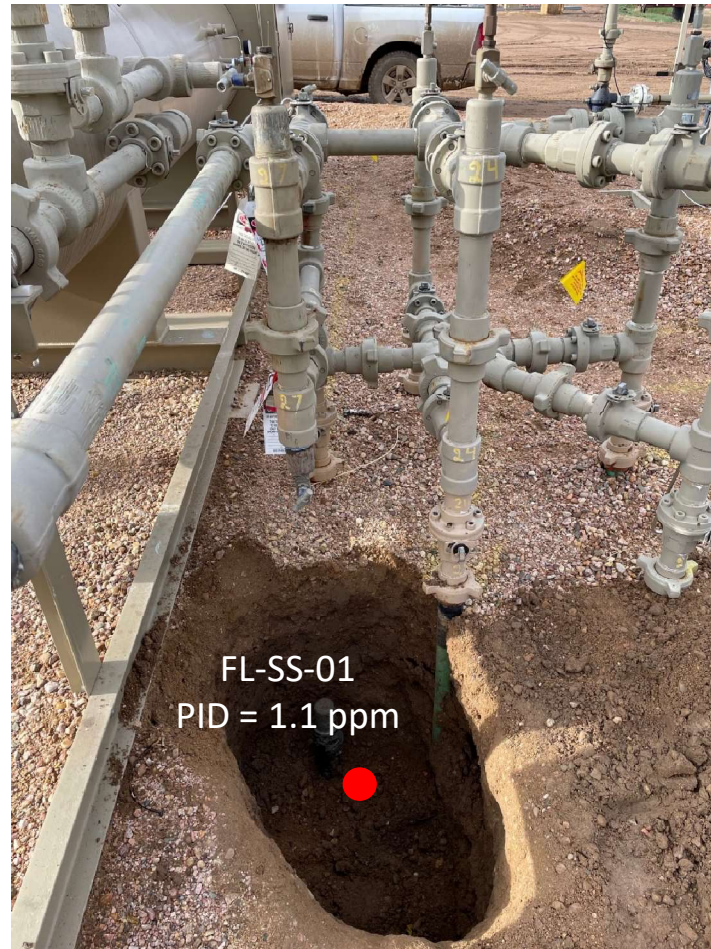
Wellhead Excavation – 05/05/22



Looking northeast

No petroleum hydrocarbon staining or odor observed

Flowline Assessment – 05/05/22



FL-SS-01
PID = 1.1 ppm

Looking south at pt. B at separator
No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



May 18, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Johnson G #13-27D

Project Number - [none]

Attached are your analytical results for Noble - Johnson G #13-27D received by Origins Laboratory, Inc. May 05, 2022. This project is associated with Origins project number Y205143-01.

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

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

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

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

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

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



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Johnson G #13-27D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y205143-01	Soil	May 5, 2022 7:50	05/05/2022 13:25
FL-SS-01@4'	Y205143-02	Soil	May 5, 2022 8:02	05/05/2022 13:25

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y205143

Client: Eagle

Client Project ID: Johnson G 13-27D

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 5/6/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.6 °C 1 °C 1 °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 ≤ 5°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 Na ₂ SO ₃ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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) JB

Date/Time Reviewed 5-8-22

Origins Laboratory, Inc.

J. Bynon

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

WH-FS-01@6'

5/5/2022 7:50:00AM

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

Origins Laboratory, Inc.
Y205143-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	1.01	mg/L	10	B2E0907	05/09/2022	05/10/2022	
-------	----	------	------	----	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0915	05/09/2022	05/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.8 %	50-150			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0701	05/07/2022	05/07/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

WH-FS-01@6'

5/5/2022 7:50:00AM

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

Origins Laboratory, Inc.
Y205143-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.9 %	70-130	B2E07 01	05/07/2022	05/07/2022
Surrogate: 4-Bromofluorobenzene	94.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.18	0.499	meq/L	10	[CALC]	05/09/2022	05/10/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.41	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00093	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000857	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.000821	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00163	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

WH-FS-01@6'

5/5/2022 7:50:00AM

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

Waypoint Analytical, Inc.
Y205143-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000715	0.000627	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00183	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	66.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B2E0906	05/09/2022	05/10/2022	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	1.48			SAR	1	B2E0905	05/09/2022	05/10/2022	
-----	------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.383		0.00500	mmhos/cm	1	B2E0906	05/09/2022	05/10/2022	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

FL-SS-01@4'

5/5/2022 8:02:00AM

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

Origins Laboratory, Inc.
Y205143-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.217	0.0988	mg/L	1	B2E0907	05/09/2022	05/10/2022	
-------	-------	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0915	05/09/2022	05/13/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.0 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E0701	05/07/2022	05/07/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

FL-SS-01@4'

5/5/2022 8:02:00AM

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

Origins Laboratory, Inc.
Y205143-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.1 %	70-130	B2E07 01	05/07/2022	05/07/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.34	0.499	meq/L	10	[CALC]	05/09/2022	05/10/2022
Magnesium	0.922	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000521	0.000394	0.00067	"	"	"	"	"

J

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

FL-SS-01@4'

5/5/2022 8:02:00AM

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

Waypoint Analytical, Inc.
Y205143-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L615168	05/10/2022	05/11/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	54.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.79	pH Units	1	B2E0906	05/09/2022	05/10/2022
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	0.242	SAR	1	B2E0905	05/09/2022	05/10/2022
-----	-------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.245	0.00500	mmhos/cm	1	B2E0906	05/09/2022	05/10/2022
---------------------------	-------	---------	----------	---	---------	------------	------------

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0701 - EPA 5030 (soil)										
Blank (B2E0701-BLK1)					Prepared: 05/07/2022 Analyzed: 05/07/2022					
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	0.0100	"							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	108		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.9		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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0701 - EPA 5030 (soil)

LCS (B2E0701-BS1)

Prepared: 05/07/2022 Analyzed: 05/07/2022

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.101	0.0100	"	0.100		101	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0701 - EPA 5030 (soil)

Matrix Spike (B2E0701-MS1)		Source: Y205136-21			Prepared: 05/07/2022 Analyzed: 05/07/2022					
1,2,4-Trimethylbenzene	0.0966	0.00200	mg/kg	0.100	ND	96.6	70-130			
1,3,5-Trimethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
Naphthalene	0.0993	0.0100	"	0.100	ND	99.3	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.0968	0.00200	"	0.100	ND	96.8	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0701 - EPA 5030 (soil)										
Matrix Spike Dup (B2E0701-MSD1)		Source: Y205136-21			Prepared: 05/07/2022 Analyzed: 05/07/2022					
1,2,4-Trimethylbenzene	0.0836	0.00200	mg/kg	0.100	ND	83.6	70-130	14.4	20	
1,3,5-Trimethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130	12.7	20	
Benzene	0.0891	0.00200	"	0.100	ND	89.1	70-130	13.3	20	
Ethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	8.41	20	
Naphthalene	0.0873	0.0100	"	0.100	ND	87.3	70-130	12.9	20	
Toluene	0.0940	0.00200	"	0.100	ND	94.0	70-130	9.89	20	
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130	9.89	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	88.8	70-130	9.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0915 - EPA 3550B										
Blank (B2E0915-BLK1)					Prepared: 05/09/2022 Analyzed: 05/12/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0915 - EPA 3550B

LCS (B2E0915-BS1)

Prepared: 05/09/2022 Analyzed: 05/12/2022

Diesel (C10-C28)	1080	50.0	mg/kg	1000		108	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000		108	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0915 - EPA 3550B

Matrix Spike (B2E0915-MS1)		Source: Y205139-01			Prepared: 05/09/2022 Analyzed: 05/12/2022					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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 B2E0915 - EPA 3550B										
Matrix Spike Dup (B2E0915-MSD1)		Source: Y205139-01			Prepared: 05/09/2022 Analyzed: 05/12/2022					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130	0.922	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	1.03	35	
Surrogate: o-Terphenyl	51		"	49.8		103	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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

Saturated Paste - Quality Control

Origins Laboratory, Inc.

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

Batch B2E0906 - NO PREP

Blank (B2E0906-BLK1)

Prepared: 05/09/2022 Analyzed: 05/10/2022

pH	0.00		pH Units
Specific Conductance (EC)	0.00120	0.0300	mmhos/cm

Duplicate (B2E0906-DUP1)

Source: Y205142-01

Prepared: 05/09/2022 Analyzed: 05/10/2022

pH	7.58		pH Units	7.57	0.132	25
Specific Conductance (EC)	0.418	0.0300	mmhos/cm	0.417	0.144	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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

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

Batch L615168 - 3550B

MSD (L 85975-MSD-L615168)		Source: 85975			Prepared: 05/10/2022 Analyzed: 05/11/2022					
Fluorene	0.127	0.000286	mg/Kg	0.165	<0.000286	76.9	30-130	1.5	30	
Indeno(1,2,3-cd)pyrene	0.144	0.000627	"	0.165	<0.000627	87.2	30-130	11.1	30	
Naphthalene	0.103	0.000484	"	0.165	<0.000484	62.4	30-130	1.9	30	
Pyrene	0.155	0.000643	"	0.165	<0.000643	93.9	30-130	0	30	
Dibenz(a,h)anthracene	0.136	0.000614	"	0.165	<0.000614	82.4	30-130	13.6	30	
Chrysene	0.123	0.000624	"	0.165	<0.000624	74.5	30-130	0	30	
Fluoranthene	0.158	0.000394	"	0.165	<0.000394	95.7	30-130	0.6	30	
Benzo(b)fluoranthene	0.12	0.000585	"	0.165	<0.000585	72.7	30-130	0.8	30	
Benzo(a)pyrene	0.133	0.000468	"	0.165	<0.000468	80.6	30-130	0.7	30	
Benzo(a)anthracene	0.136	0.000493	"	0.165	<0.000493	82.4	30-130	0.7	30	
Acenaphthene	0.134	0.000304	"	0.165	<0.000304	81.2	30-130	2.9	30	
2-Methylnaphthalene	0.106	0.000645	"	0.165	<0.000645	64.2	30-130	1.8	30	
1-Methylnaphthalene	0.105	0.000364	"	0.165	<0.000364	63.6	30-130	2.8	30	
Benzo(k)fluoranthene	0.102	0.000437	"	0.165	<0.000437	61.8	30-130	3.8	30	
Anthracene	0.148	0.000334	"	0.165	<0.000334	89.6	30-130	1.3	30	
Surrogate: Nitrobenzene-d5	55.1		"	0.33	187	55.1	29-110			
Surrogate: 4-Terphenyl-d14	53.9		"	0.33	168	53.9	33-122			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.33	192	60.9	33-115			

MS (L 85975-MS-L615168)		Source: 85975			Prepared: 05/10/2022 Analyzed: 05/11/2022					
2-Methylnaphthalene	0.108	0.000645	mg/Kg	0.167	<0.000645	64.6	30-130			
Fluorene	0.129	0.000286	"	0.167	<0.000286	77.2	30-130			
1-Methylnaphthalene	0.108	0.000364	"	0.167	<0.000364	64.6	30-130			
Pyrene	0.155	0.000643	"	0.167	<0.000643	92.8	30-130			
Indeno(1,2,3-cd)pyrene	0.161	0.000627	"	0.167	<0.000627	96.4	30-130			
Fluoranthene	0.159	0.000394	"	0.167	<0.000394	95.2	30-130			
Dibenz(a,h)anthracene	0.156	0.000614	"	0.167	<0.000614	93.4	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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

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

Batch L615168 - 3550B

MS (L 85975-MS-L615168)		Source: 85975			Prepared: 05/10/2022 Analyzed: 05/11/2022					
Acenaphthene	0.138	0.000304	mg/Kg	0.167	<0.000304	82.6	30-130			
Benzo(k)fluoranthene	0.106	0.000437	"	0.167	<0.000437	63.4	30-130			
Benzo(b)fluoranthene	0.119	0.000585	"	0.167	<0.000585	71.2	30-130			
Benzo(a)pyrene	0.132	0.000468	"	0.167	<0.000468	79	30-130			
Benzo(a)anthracene	0.135	0.000493	"	0.167	<0.000493	80.8	30-130			
Anthracene	0.15	0.000334	"	0.167	<0.000334	89.8	30-130			
Chrysene	0.123	0.000624	"	0.167	<0.000624	73.6	30-130			
Naphthalene	0.105	0.000484	"	0.167	<0.000484	62.8	30-130			
Surrogate: Nitrobenzene-d5	56.4		"	0.333	187	56.4	29-110			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333	192	62.7	33-115			
Surrogate: 4-Terphenyl-d14	54.3		"	0.333	168	54.3	33-122			

LCS (LCS-L615168)

Prepared: 05/10/2022 Analyzed: 05/11/2022

Chrysene	0.109	0.000624	mg/Kg	0.167		65.2	30-130			
Fluoranthene	0.135	0.000394	"	0.167		80.8	30-130			
Fluorene	0.11	0.000286	"	0.167		65.8	30-130			
Indeno(1,2,3-cd)pyrene	0.136	0.000627	"	0.167		81.4	30-130			
Naphthalene	0.0915	0.000484	"	0.167		54.7	30-130			
Pyrene	0.133	0.000643	"	0.167		79.6	30-130			
Benzo(k)fluoranthene	0.0858	0.000437	"	0.167		51.3	30-130			
1-Methylnaphthalene	0.0945	0.000364	"	0.167		56.5	30-130			
Benzo(a)pyrene	0.118	0.000468	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.118	0.000493	"	0.167		70.6	30-130			
Anthracene	0.126	0.000334	"	0.167		75.4	30-130			
Acenaphthene	0.119	0.000304	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.0946	0.000645	"	0.167		56.6	30-130			
Dibenz(a,h)anthracene	0.128	0.000614	"	0.167		76.6	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L615168 - 3550B										
LCS (LCS-L615168)					Prepared: 05/10/2022 Analyzed: 05/11/2022					
Benzo(b)fluoranthene	0.108	0.000585	mg/Kg	0.167		64.6	30-130			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	54.9		"	0.333		54.9	33-122			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			
LRB (LRB-L615168)					Prepared: 05/10/2022 Analyzed: 05/11/2022					
Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	54.6		"	0.333		54.6	33-122			
Surrogate: 2-Fluorobiphenyl	68.7		"	0.333		68.7	33-115			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.



May 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Johnson G #13-27D

Project Number - [none]

Attached are your analytical results for Noble - Johnson G #13-27D received by Origins Laboratory, Inc. May 18, 2022. This project is associated with Origins project number Y205494-01.

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

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

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

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

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

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



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Johnson G #13-27D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@1'	Y205494-01	Soil	May 5, 2022 8:05	05/18/2022 15:55

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.

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

[illegible]

Origins Laboratory, Inc.

Byron

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-270

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

Sample Receipt Checklist

Origins Work Order: Y205494 Client: Eagle
Client Project ID: Johnson G 13-270

Checklist Completed by: JG Shipped Via: HD
Date/time completed: 5/19/22 (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 / 1.3 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Kim H
Reviewed by (Project Manager)

5/19/22
Date/Time Reviewed

Origins Laboratory, Inc.

J Byron

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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Johnson G #13-27D

Background-02@1'

5/5/2022 8:05:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

Y205494-01 (Soil)

pH in Soil by 9045D

pH	7.86	pH Units	1	B2E1912	ACC	05/19/2022	05/20/2022
----	------	----------	---	---------	-----	------------	------------

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Johnson G #13-27D

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2E1912 - NO PREP										
Blank (B2E1912-BLK1)					Prepared: 05/19/2022 Analyzed: 05/20/2022					
pH	0.00		pH Units							
Duplicate (B2E1912-DUP1)					Prepared: 05/19/2022 Analyzed: 05/20/2022					
		Source: Y205416-01								
pH	8.35		pH Units		8.32			0.360	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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Johnson G #13-27D

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.