



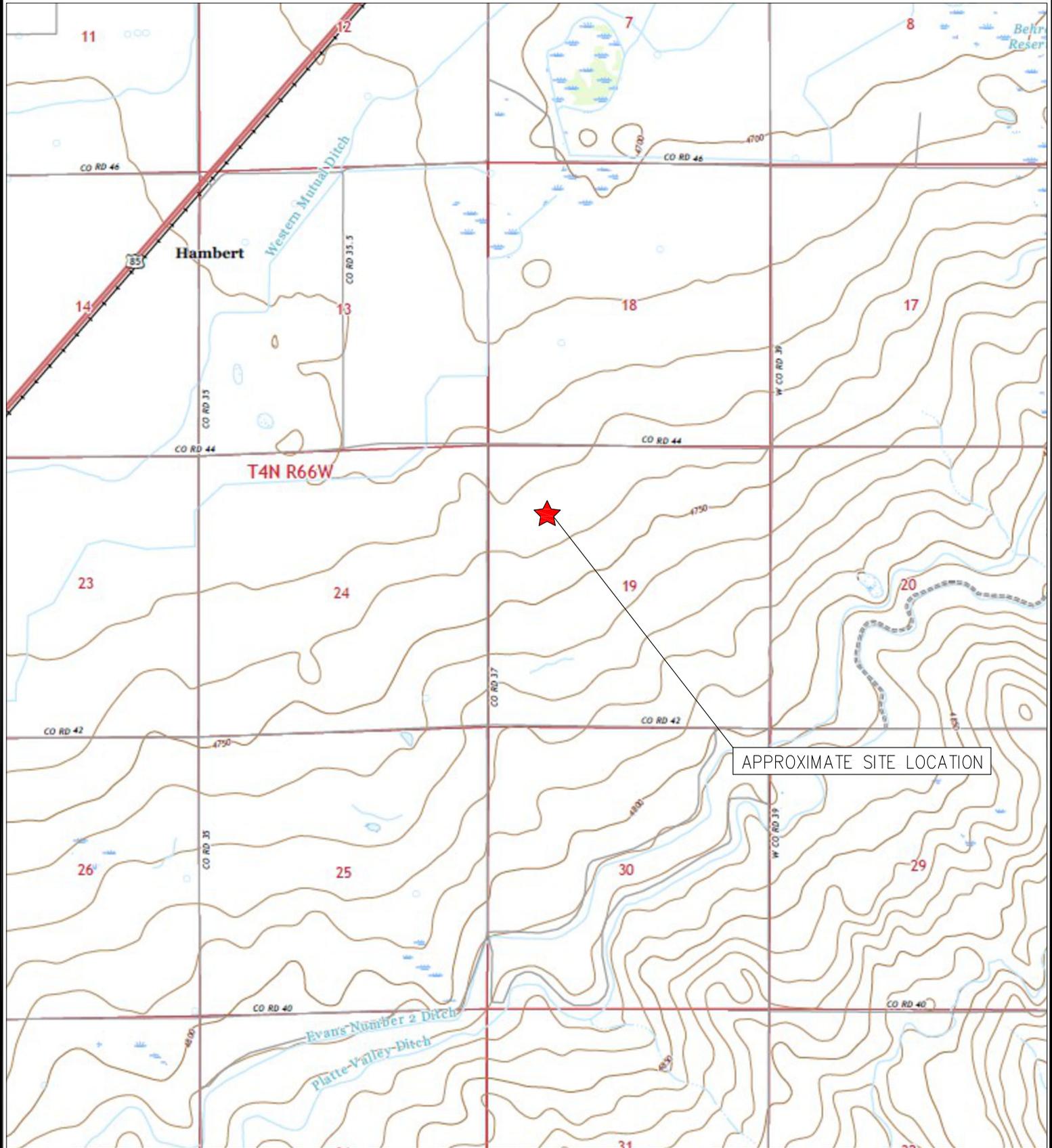
FIGURES

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
 MCMILLEN G #19-19
 CLOSURE ASSESSMENT
 40.301899 / -104.711118
 NW¼ NW¼ SEC.19 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25815
 REMEDIATION # 28218



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

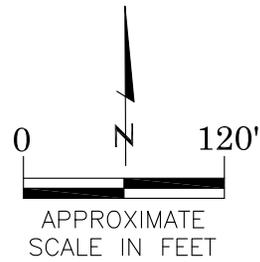
8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449





LEGEND

- MCMILLEN G #19-19 WELLHEAD
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – FIELD SCREENED
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – LAB SUBMITTED



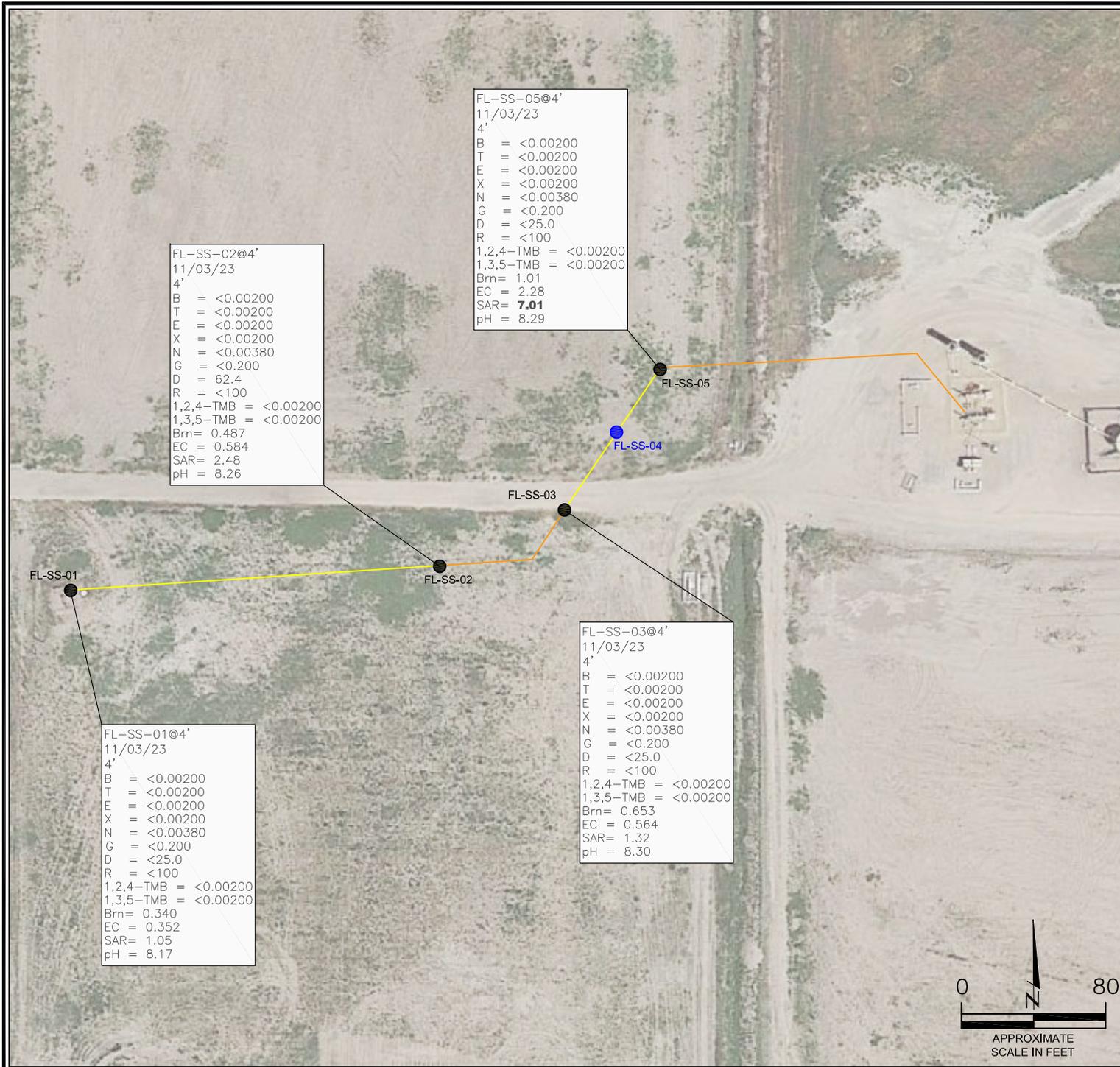
AERIAL SITE LOCATION MAP
 MCMILLEN G #19-19
 CLOSURE ASSESSMENT
 40.301899 / -104.711118
 NW¼ NW¼ SEC.19 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-25815
 REMEDIATION # 28218

FIGURE NO.
2

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FL-SS-05@4'
11/03/23
4'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 1.01
EC = 2.28
SAR= **7.01**
pH = 8.29

FL-SS-02@4'
11/03/23
4'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = 62.4
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.487
EC = 0.584
SAR= 2.48
pH = 8.26

FL-SS-03@4'
11/03/23
4'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.653
EC = 0.564
SAR= 1.32
pH = 8.30

FL-SS-01@4'
11/03/23
4'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.340
EC = 0.352
SAR= 1.05
pH = 8.17

LEGEND

- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

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

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** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
MCMILLEN G #19-19
CLOSURE ASSESSMENT
40.301899 / -104.711118
NW¼ NW¼ SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-25815
REMEDATION # 28218

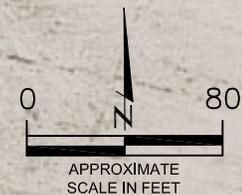
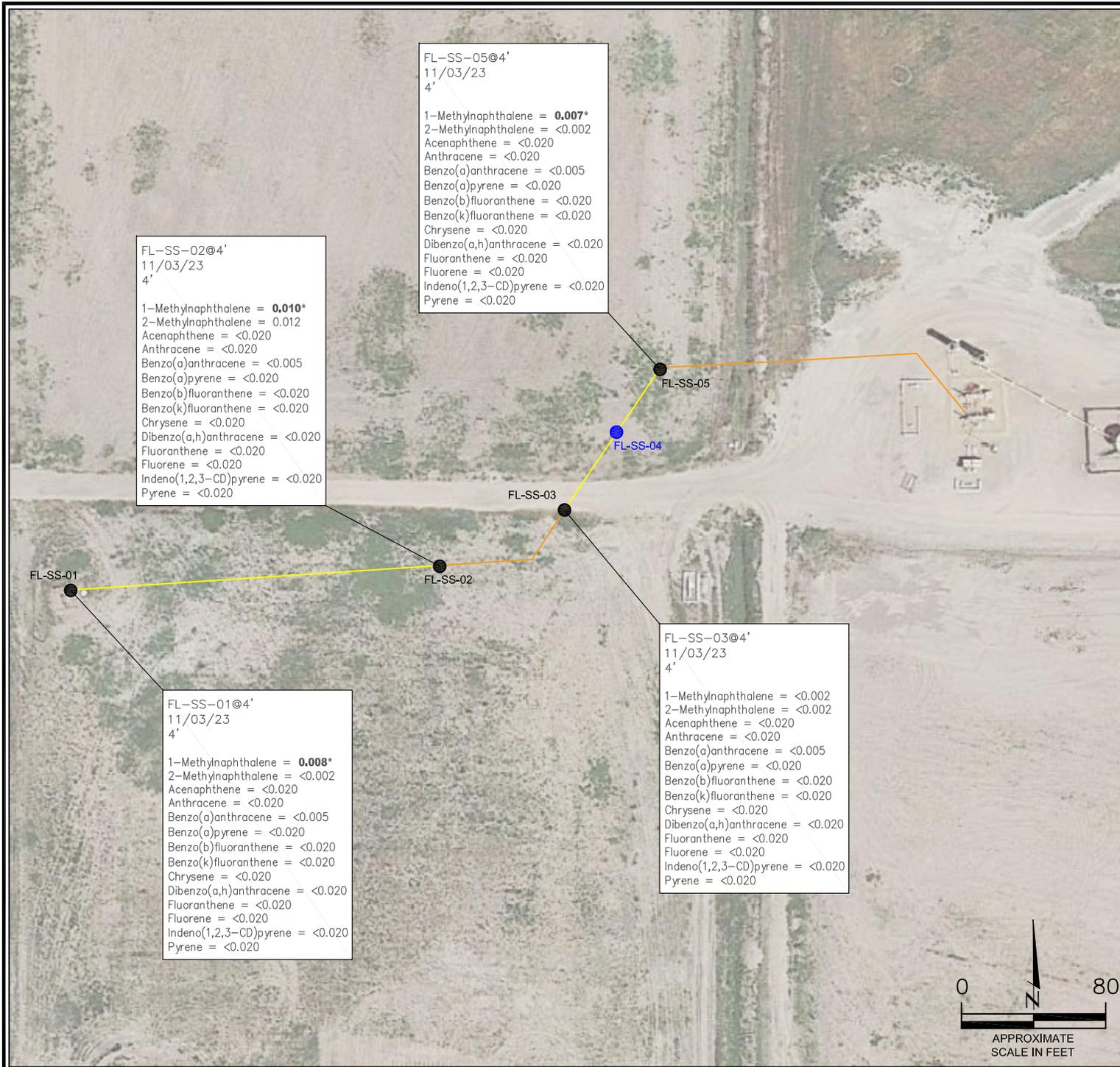


FIGURE NO.
3

DRAWN BY:
EL



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



FL-SS-02@4'
11/03/23
4'

1-Methylnaphthalene = **0.010***
2-Methylnaphthalene = 0.012
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-05@4'
11/03/23
4'

1-Methylnaphthalene = **0.007***
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-03@4'
11/03/23
4'

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@4'
11/03/23
4'

1-Methylnaphthalene = **0.008***
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

- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

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

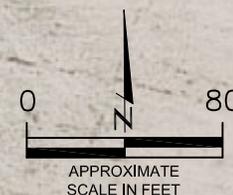
MCMILLEN G #19-19
CLOSURE ASSESSMENT
40.301899 / -104.711118
NW¼ NW¼ SEC.19 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-25815
REMEDATION # 28218

FIGURE NO.
4

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





ATTACHMENT A

Photo Log

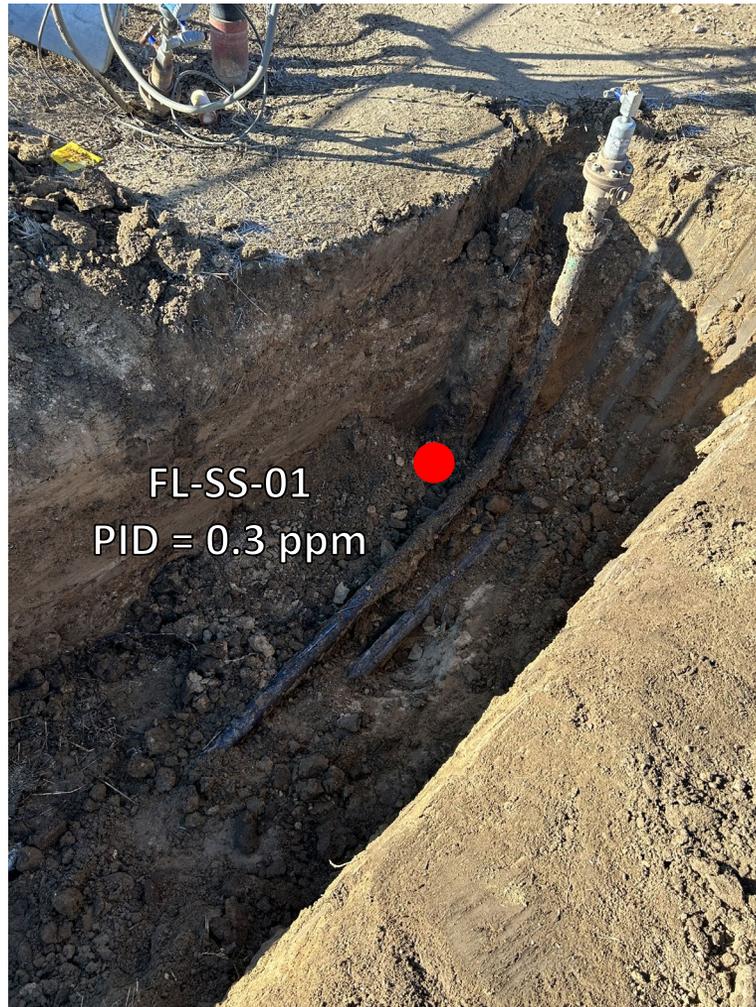
McMillen G #19-19
API # 05-123-25815
Remediation # 28218

Closure Assessment

November 2023

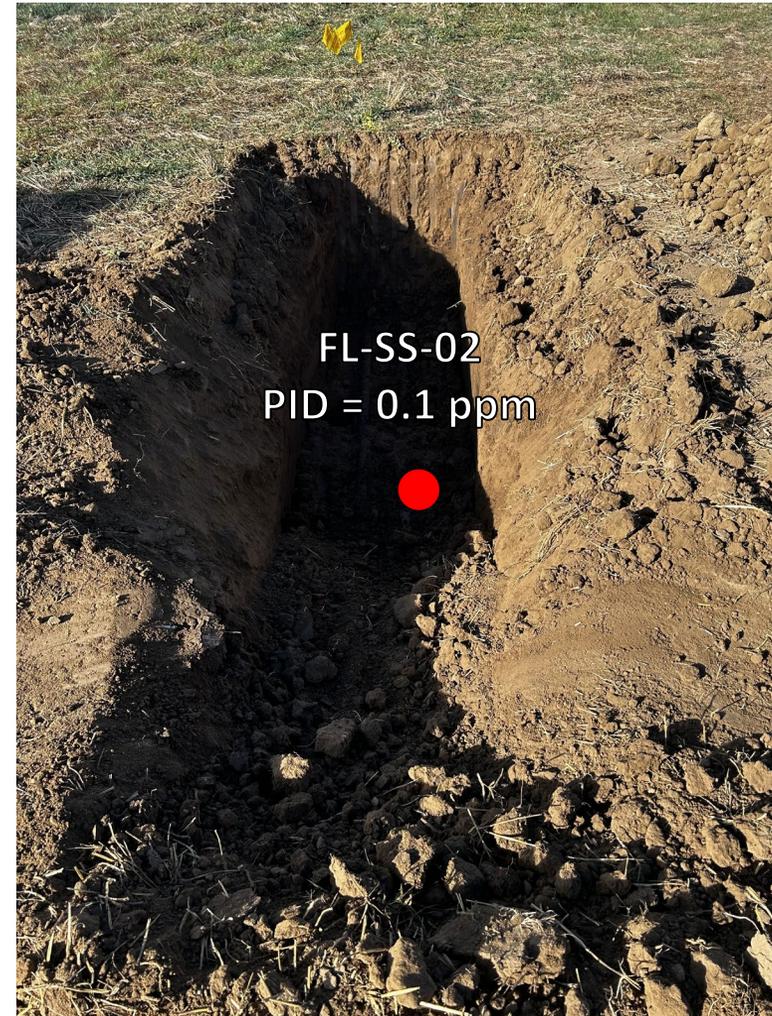


Flowline Removal/Assessment – 11/03/23



Looking southeast at flowline Pt A/terminus at wellhead
– lab analyzed sample

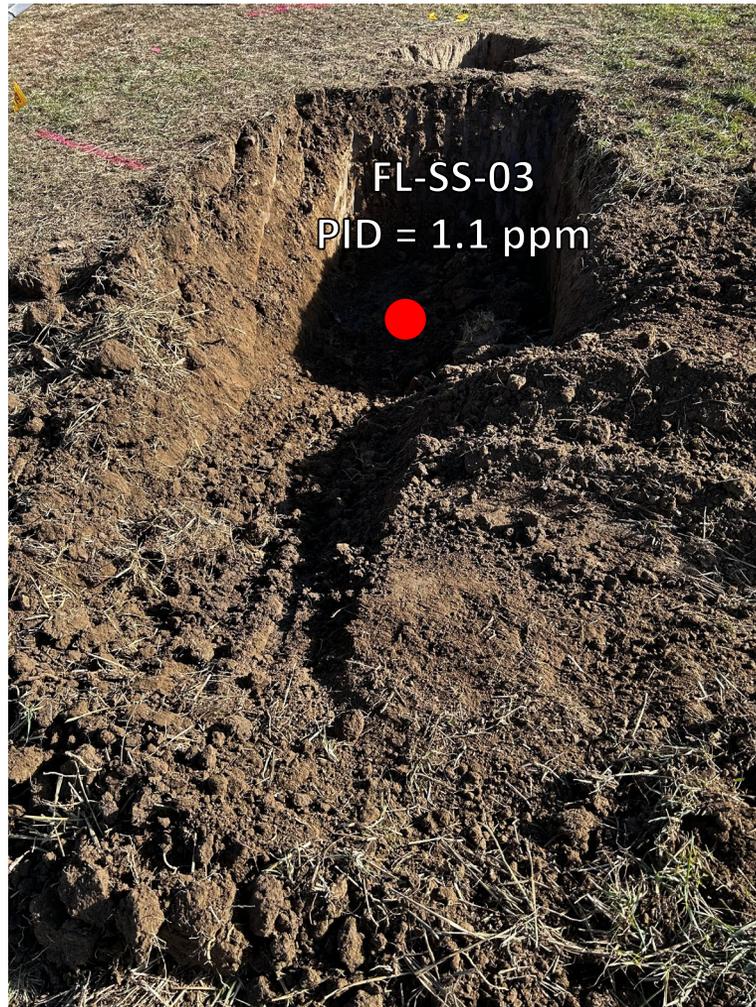
No petroleum hydrocarbon staining or odor observed



Looking south at bellhole/cut point for removal –
flowline abandoned in place between FL-SS-02 and FL-
SS-03 – lab analyzed sample

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 11/03/23



Looking east-northeast at bellhole/cut point for removal
– flowline abandoned in place between FL-SS-02 and FL-SS-03 – lab analyzed sample

No petroleum hydrocarbon staining or odor observed



Looking north at bellhole/cut point for removal – field-screened only

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 11/03/23



Looking north-northeast at bellhole/cut point for removal – flowline abandoned in place between FL-SS-05 and separator (flowline terminus Pt. B) – lab analyzed sample

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



November 17, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - McMillen G #19-19

Project Number - [none]

Attached are your analytical results for Noble - McMillen G #19-19 received by Origins Laboratory, Inc. November 03, 2023. This project is associated with Origins project number Y311139-01.

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 - McMillen G #19-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4'	Y311139-01	Soil	November 3, 2023 10:02	11/03/2023 16:10
FL-SS-02@4'	Y311139-02	Soil	November 3, 2023 10:14	11/03/2023 16:10
FL-SS-03@4'	Y311139-03	Soil	November 3, 2023 10:32	11/03/2023 16:10
FL-SS-05@4'	Y311139-04	Soil	November 3, 2023 11:45	11/03/2023 16:10

Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 421139

Client: Eagle
 Client Project ID: McMillen G #19-19

Checklist Completed by: EHS
 Date/time completed: 11/3/23

Shipped Via: FIO
 (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, 2 °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⁾ ?	/			
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 (Project Manager) [Signature]

Date/Time Reviewed 11/7/23

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 - McMillen G #19-19

FL-SS-01@4'

11/3/2023 10:02:00AM

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

Origins Laboratory, Inc.
Y311139-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.340	0.103	mg/L	1	B3K0716	KAP	11/07/2023	11/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0602	ZZZ	11/06/2023	11/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	78.6 %	50-150			"	"	"	"	
--------------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0607	HK	11/06/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	95.5 %	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 - McMillen G #19-19

FL-SS-01@4'

11/3/2023 10:02:00AM

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

Origins Laboratory, Inc.
 Y311139-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.54	0.499	meq/L	10	[CALC]	KAP	11/07/2023	11/08/2023	
Magnesium	0.858	0.823	"	"	"	KAP	"	"	
Sodium	1.15	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.008	0.002	mg/kg	1	B3K0630	Windo	11/06/2023	11/13/2023	
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 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 - McMillen G #19-19

FL-SS-01@4'

11/3/2023 10:02:00AM

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

Origins Laboratory, Inc.
 Y311139-01 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	107 %	60-130			B3K06 30		11/06/2023	11/13/2023	
Surrogate: Pyrene-d10	95.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.17		pH Units	1	B3K0721	EAL	11/07/2023	11/08/2023	
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SAR by 20B Saturated Paste

SAR	1.05	0.0100	SAR	1	B3K0718	KAP	11/07/2023	11/08/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.352	0.00500	mmhos/cm	1	B3K0721	EAL	11/07/2023	11/08/2023	
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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 - McMillen G #19-19

FL-SS-02@4'

11/3/2023 10:14:00AM

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

**Origins Laboratory, Inc.
 Y311139-02 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.487	0.0978	mg/L	1	B3K0716	KAP	11/07/2023	11/08/2023	
-------	-------	--------	------	---	---------	-----	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	62.4	25.0	mg/kg	1	B3K0602	ZZZ	11/06/2023	11/09/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	82.7 %	50-150			"	"	"	"	
------------------------	--------	--------	--	--	---	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0607	HK	11/06/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	127 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.3 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-02@4'

11/3/2023 10:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y311139-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.76	0.499	meq/L	10	[CALC]	KAP	11/07/2023	11/08/2023	
Magnesium	1.01	0.823	"	"	"	KAP	"	"	
Sodium	2.92	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.010	0.002	mg/kg	1	B3K0630	Windo	11/06/2023	11/13/2023	
2-Methylnaphthalene	0.012	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 103 % 60-130 " " "

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-02@4'

11/3/2023 10:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311139-02 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	101 %	60-130			B3K06 30		11/06/2023	11/13/2023	
Surrogate: Pyrene-d10	93.5 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	99.2 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.26		pH Units	1	B3K0722	EAL	11/07/2023	11/08/2023	
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SAR by 20B Saturated Paste

SAR	2.48	0.0100	SAR	1	B3K0719	KAP	11/07/2023	11/08/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.584	0.00500	mmhos/cm	1	B3K0722	EAL	11/07/2023	11/08/2023	
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Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-03@4'

11/3/2023 10:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311139-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.653	0.0966	mg/L	1	B3K0716	KAP	11/07/2023	11/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0602	ZZZ	11/06/2023	11/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	84.4 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0607	HK	11/06/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-03@4'

11/3/2023 10:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y311139-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.52	0.499	meq/L	10	[CALC]	KAP	11/07/2023	11/08/2023	
Magnesium	1.46	0.823	"	"	"	KAP	"	"	
Sodium	1.87	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K0630	Windo	11/06/2023	11/13/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-03@4'

11/3/2023 10:32:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311139-03 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	100 %	60-130			B3K06 30		11/06/2023	11/13/2023	
Surrogate: Anthracene-d10	110 %	60-130			"		"	"	
Surrogate: Pyrene-d10	91.2 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.30		pH Units	1	B3K0722	EAL	11/07/2023	11/08/2023	
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SAR by 20B Saturated Paste

SAR	1.32	0.0100	SAR	1	B3K0719	KAP	11/07/2023	11/08/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.564	0.00500	mmhos/cm	1	B3K0722	EAL	11/07/2023	11/08/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-05@4'

11/3/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311139-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.01	0.0965	mg/L	1	B3K0716	KAP	11/07/2023	11/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K0602	ZZZ	11/06/2023	11/09/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: <i>o</i> -Terphenyl	82.9 %	50-150			"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0607	HK	11/06/2023	11/10/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Naphthalene	ND	0.00380	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	132 %	70-130			"	"	"	S-GC
Surrogate: Toluene-d8	99.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.2 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-05@4'

11/3/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y311139-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.05	0.499	meq/L	10	[CALC]	KAP	11/07/2023	11/08/2023	
Magnesium	4.36	0.823	"	"	"	KAP	"	"	
Sodium	15.2	0.435	"	"	"	KAP	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.007	0.002	mg/kg	1	B3K0630	Windo	11/06/2023	11/13/2023	
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 102 % 60-130 " " "

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

FL-SS-05@4'

11/3/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311139-04 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	106 %	60-130			B3K06 30		11/06/2023	11/13/2023	
Surrogate: Pyrene-d10	94.6 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.29		pH Units	1	B3K0722	EAL	11/07/2023	11/08/2023	
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SAR by 20B Saturated Paste

SAR	7.01	0.0100	SAR	1	B3K0719	KAP	11/07/2023	11/08/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.28	0.00500	mmhos/cm	1	B3K0722	EAL	11/07/2023	11/08/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

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 B3K0602 - EPA 3550B										
Blank (B3K0602-BLK1)										
					Prepared: 11/06/2023 Analyzed: 11/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		82.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0602 - EPA 3550B

LCS (B3K0602-BS1)

Prepared: 11/06/2023 Analyzed: 11/08/2023

Diesel (C10-C28)	808	50.0	mg/kg	1000		80.8	70-130			
Residual Range Organics (C28-C40)	888	200	"	1000		88.8	70-130			
Surrogate: o-Terphenyl	48		"	49.8		95.9	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0602 - EPA 3550B

Matrix Spike (B3K0602-MS1)	Source: Y311126-01			Prepared: 11/06/2023 Analyzed: 11/08/2023						
Diesel (C10-C28)	934	50.0	mg/kg	1000	ND	93.4	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.4	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

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 B3K0602 - EPA 3550B										
Matrix Spike Dup (B3K0602-MSD1)					Source: Y311126-01					Prepared: 11/06/2023 Analyzed: 11/08/2023
Diesel (C10-C28)	828	50.0	mg/kg	1000	ND	82.8	70-130	12.0	35	
Residual Range Organics (C28-C40)	925	200	"	1000	ND	92.5	70-130	11.4	35	
Surrogate: o-Terphenyl	37		"	49.8		74.5	50-150			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0607 - EPA 5030 (soil)

Blank (B3K0607-BLK1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

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	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0607 - EPA 5030 (soil)

LCS (B3K0607-BS1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0914	0.00200	"	0.100		91.4	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.0936	0.00380	"	0.100		93.6	70-130			
Toluene	0.0925	0.00200	"	0.100		92.5	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.224	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	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 - McMillen G #19-19

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0607 - EPA 5030 (soil)

Matrix Spike (B3K0607-MS1)	Source: Y311121-01			Prepared: 11/06/2023 Analyzed: 11/07/2023						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.219	0.00400	"	0.200	ND	110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0607 - EPA 5030 (soil)

Matrix Spike Dup (B3K0607-MSD1)	Source: Y311121-01			Prepared: 11/06/2023 Analyzed: 11/07/2023						
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130	1.21	20	
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	1.64	20	
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130	0.644	20	
Ethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	5.05	20	
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130	3.39	20	
Toluene	0.0946	0.00200	"	0.100	ND	94.6	70-130	1.71	20	
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130	0.875	20	
m,p-Xylene	0.228	0.00400	"	0.200	ND	114	70-130	3.66	20	
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		95.8	70-130			

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Andrew Newberry
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 Project: Noble - McMillen G #19-19

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0630 - EPA 3580

Blank (B3K0630-BLK1)

Prepared: 11/06/2023 Analyzed: 11/13/2023

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		101	60-130			
Surrogate: Anthracene-d10	180		"	200		89.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	60-130			

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 Project: Noble - McMillen G #19-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0630 - EPA 3580

LCS (B3K0630-BS1)

Prepared: 11/06/2023 Analyzed: 11/13/2023

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.210	0.002	"	0.200		105	70-130			
Acenaphthene	0.210	0.020	"	0.200		105	70-130			
Anthracene	0.216	0.020	"	0.200		108	70-130			
Benzo (a) anthracene	0.202	0.005	"	0.200		101	70-130			
Benzo (a) pyrene	0.217	0.020	"	0.200		109	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		99.2	70-130			
Benzo (g,h,i) perylene	0.220	0.020	"	0.200		110	70-130			
Benzo (k) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Chrysene	0.208	0.020	"	0.200		104	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130			
Fluoranthene	0.228	0.020	"	0.200		114	70-130			
Fluorene	0.216	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.200		108	70-130			
Naphthalene	0.210	0.002	"	0.200		105	70-130			
Phenanthrene	0.208	0.020	"	0.200		104	70-130			
Pyrene	0.196	0.020	"	0.200		98.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		96.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B3K0630-MS1)

Source: Y311034-01

Prepared: 11/06/2023 Analyzed: 11/13/2023

1-Methylnaphthalene	0.250	0.002	mg/kg	0.200	0.066	92.2	70-130			
2-Methylnaphthalene	0.272	0.002	"	0.200	0.103	84.6	70-130			
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130			
Anthracene	0.203	0.020	"	0.200	0.0004	101	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - McMillen G #19-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0630 - EPA 3580

Matrix Spike (B3K0630-MS1)	Source: Y311034-01			Prepared: 11/06/2023 Analyzed: 11/13/2023						
Benzo (a) anthracene	0.199	0.005	mg/kg	0.200	0.0003	99.3	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200	ND	98.9	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (k) fluoranthene	0.228	0.020	"	0.200	ND	114	70-130			
Chrysene	0.198	0.020	"	0.200	ND	99.1	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200	ND	95.9	70-130			
Fluoranthene	0.216	0.020	"	0.200	ND	108	70-130			
Fluorene	0.210	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	104	70-130			
Naphthalene	0.256	0.002	"	0.200	0.076	90.4	70-130			
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130			
Pyrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		96.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike Dup (B3K0630-MSD1)	Source: Y311034-01			Prepared: 11/06/2023 Analyzed: 11/13/2023						
1-Methylnaphthalene	0.269	0.002	mg/kg	0.200	0.066	101	70-130	6.97	20	
2-Methylnaphthalene	0.299	0.002	"	0.200	0.103	98.2	70-130	9.54	20	
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130	0.299	20	
Anthracene	0.186	0.020	"	0.200	0.0004	92.8	70-130	8.57	20	
Benzo (a) anthracene	0.193	0.005	"	0.200	0.0003	96.4	70-130	2.97	20	
Benzo (a) pyrene	0.209	0.020	"	0.200	ND	105	70-130	2.96	20	
Benzo (b) fluoranthene	0.193	0.020	"	0.200	ND	96.3	70-130	2.69	20	
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130	2.17	20	

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 Project: Noble - McMillen G #19-19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0630 - EPA 3580

Matrix Spike Dup (B3K0630-MSD1)	Source: Y311034-01			Prepared: 11/06/2023 Analyzed: 11/13/2023						
Benzo (k) fluoranthene	0.214	0.020	mg/kg	0.200	ND	107	70-130	6.27	20	
Chrysene	0.193	0.020	"	0.200	ND	96.3	70-130	2.88	20	
Dibenz (a,h) anthracene	0.210	0.020	"	0.200	ND	105	70-130	9.14	20	
Fluoranthene	0.219	0.020	"	0.200	ND	110	70-130	1.73	20	
Fluorene	0.214	0.020	"	0.200	ND	107	70-130	1.55	20	
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200	ND	105	70-130	0.361	20	
Naphthalene	0.270	0.002	"	0.200	0.076	97.4	70-130	5.32	20	
Phenanthrene	0.204	0.020	"	0.200	ND	102	70-130	1.75	20	
Pyrene	0.197	0.020	"	0.200	ND	98.6	70-130	0.613	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		97.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130			

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 Project: Noble - McMillen G #19-19

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 B3K0716 - DTPA Sorbitol Preparation										
Blank (B3K0716-BLK1)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Boron	ND	0.100	mg/L							
Duplicate (B3K0716-DUP1)		Source: Y311131-01			Prepared: 11/07/2023 Analyzed: 11/08/2023					
Boron	0.484	0.0972	mg/L		0.563			15.2	50	
Batch B3K0718 - Saturated Paste Metals										
Blank (B3K0718-BLK1)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
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 (B3K0718-DUP1)		Source: Y311138-02			Prepared: 11/07/2023 Analyzed: 11/08/2023					
Calcium PPM	53.1	10.0	mg/L		59.1			10.6	50	
SAR	ND	0.0100	SAR		1.16				200	
Magnesium PPM	30.5	10.0	mg/L		32.2			5.46	50	
Sodium PPM	53.6	10.0	"		44.5			18.6	50	
Batch B3K0719 - Saturated Paste Metals										
Blank (B3K0719-BLK1)					Prepared: 11/07/2023 Analyzed: 11/08/2023					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

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 Project: Noble - McMillen G #19-19

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0719 - Saturated Paste Metals

Duplicate (B3K0719-DUP1)	Source: Y311139-02			Prepared: 11/07/2023 Analyzed: 11/08/2023						
Calcium PPM	38.1	10.0	mg/L		35.3			7.66	50	
SAR	ND	0.0100	SAR		2.48				200	
Magnesium PPM	13.2	10.0	mg/L		12.3			7.54	50	
Sodium PPM	71.9	10.0	"		67.2			6.86	50	

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 Project: Noble - McMillen G #19-19

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3K0721 - Saturated Paste pH/EC

Blank (B3K0721-BLK1)

Prepared: 11/07/2023 Analyzed: 11/08/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K0721-DUP1)

Source: Y311138-02

Prepared: 11/07/2023 Analyzed: 11/08/2023

pH 8.08 pH Units 8.08 0.00 25
 Specific Conductance (EC) 0.748 0.00500 mmhos/cm 0.785 4.83 25

Batch B3K0722 - Saturated Paste pH/EC

Blank (B3K0722-BLK1)

Prepared: 11/07/2023 Analyzed: 11/08/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K0722-DUP1)

Source: Y311139-02

Prepared: 11/07/2023 Analyzed: 11/08/2023

pH 8.26 pH Units 8.26 0.00 25
 Specific Conductance (EC) 0.616 0.00500 mmhos/cm 0.584 5.35 25

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - McMillen G #19-19

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jordan A. Bynon, Project Manager