

Wellhead Closure Checklist

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

Additional attachments (optional): <u> </u>		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure <u> </u>		Partially Buried Vault Closure <u> </u>
Site Name & COGCC Facility Number: Five Rivers USX K #09-21D		Date: 01/08/24					Remediation Project #: 29932	
Associated Wells: 05-123-30547		Age of Site: years					Number of Photos Attached: 6	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							40.329219 / -104.787754	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: SM					Estimated Depth to Groundwater: ~10-20'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Wellhead(s)								
Well API	05-123-30547							
Age	years							
Condition of surface around wellhead	Good - No odor/no staining							
PID Readings	WH-N: 0.4	WH-E: 0.7	WH-S: 0.6	WH-W: 0.6				
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	0.7	1.1	0.9	0.8	1.5			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photo log							
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: 9					Total number of samples collected: 9			
Highest PID Reading: 1.5					Total number of samples submitted to lab for analysis: 1			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					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:								



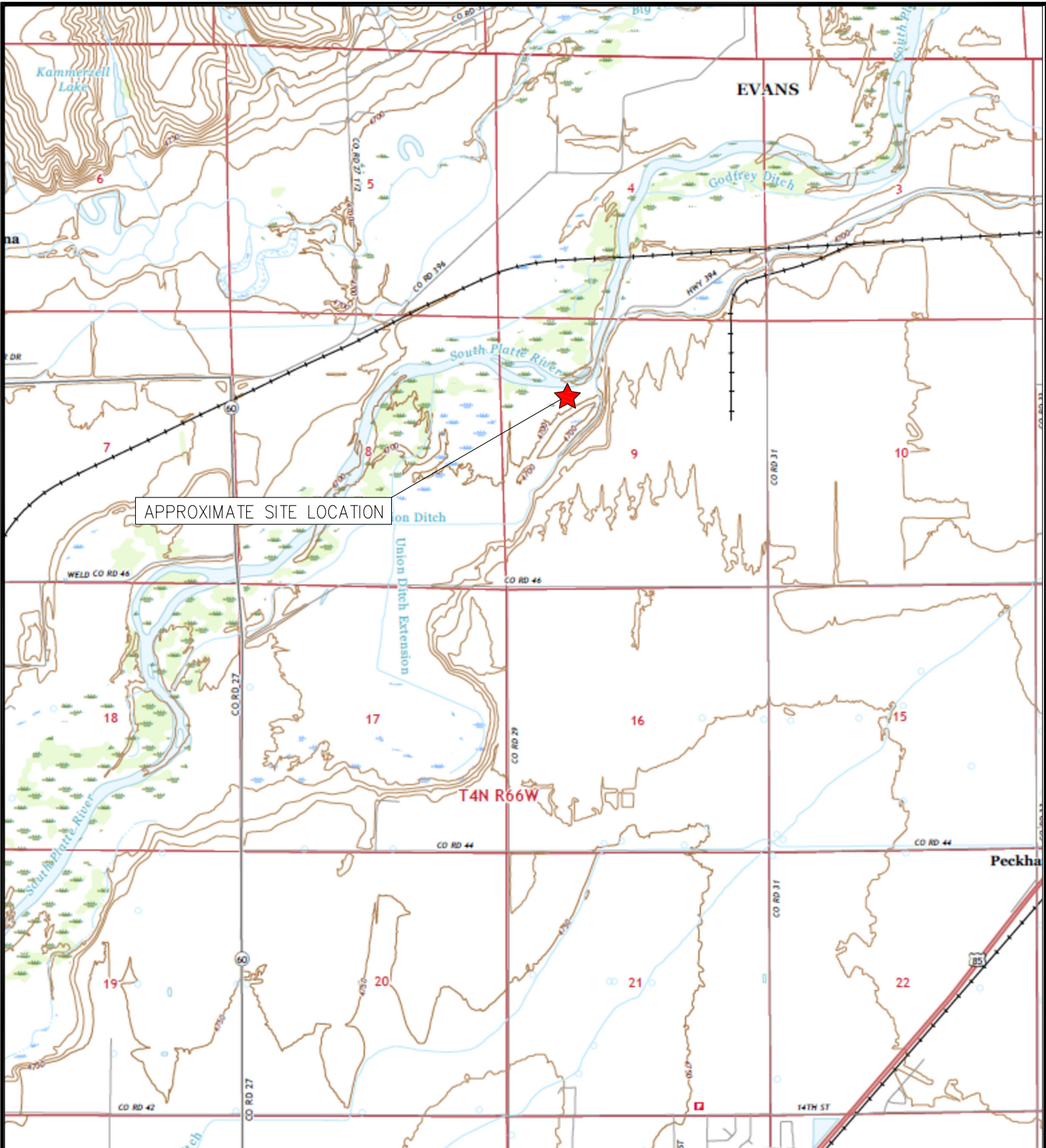
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Sample Location Map

Figure 4: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 FIVE RIVERS USX K #09-21D
 CLOSURE ASSESSMENT
 40.329219 / -104.787754
 SE¼ NW¼ SEC.9 T4N R66W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30547
 REMEDIATION # 29932



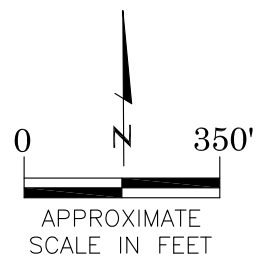
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



LEGEND

- FORMER FIVE RIVERS USX K #09-21D WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 FIVE RIVERS USX K #09-21D
 CLOSURE ASSESSMENT
 40.329219 / -104.787754
 SE¼ NW¼ SEC.9 T4N R66W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30547
 REMEDIATION # 29932

FIGURE NO.
 2

DRAWN BY:
 RS



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LEGEND

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

SAMPLE LOCATION MAP
FIVE RIVERS USX K #09-21D
CLOSURE ASSESSMENT
40.329219 / -104.787754
SE¼ NW¼ SEC.9 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-30547
REMEDATION # 29932

FIGURE NO.
3

DRAWN BY:
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BACKGROUND-01@2'
01/08/24
2'
Brn= 0.172
EC = 0.405
SAR= 0.782
pH = **8.32**

WH-FS-01@6'
01/08/24
6'
(BRL)

WH-SS-01
WH-SS-04
WH-SS-02
WH-FS-01
WH-SS-03

LEGEND

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

PARAMETERS

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

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

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

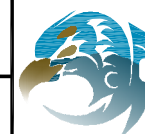
NOTES:
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
FIVE RIVERS USX K #09-21D
CLOSURE ASSESSMENT
40.329219 / -104.787754
SE¼ NW¼ SEC.9 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-30547
REMEDIAL # 29932

FIGURE NO.
4

DRAWN BY:
RS



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8000 W 44th Ave, Wheat Ridge, CO 80033
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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
FIVE RIVERS USX K #09-21D
CLOSURE ASSESSMENT
40.329219 / -104.787754
SE¼ NW¼ SEC.9 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-30547
REMEDIAION # 29932

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 6' (40.329222 / -104.787765)	01/08/24	6	1.5	Y
WH-SS-01 @ 5' (40.329232 / -104.787765)	01/08/24	5	0.7	N
WH-SS-02 @ 5' (40.329222 / -104.787755)	01/08/24	5	1.1	N
WH-SS-03 @ 5' (40.329212 / -104.787765)	01/08/24	5	0.9	N
WH-SS-04 @ 5' (40.329222 / -104.787774)	01/08/24	5	0.8	N
WH-N @ 0.5' (40.329242 / -104.787765)	01/08/24	0.5	0.4	N
WH-E @ 0.5' (40.329222 / -104.787741)	01/08/24	0.5	0.7	N
WH-S @ 0.5' (40.329202 / -104.787765)	01/08/24	0.5	0.6	N
WH-W @ 0.5' (40.329222 / -104.787790)	01/08/24	0.5	0.6	N
Background-01 @ 2' (40.329288 / -104.787804)	01/08/24	2	0.7	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
FIVE RIVERS USX K #09-21D
CLOSURE ASSESSMENT
40.329219 / -104.787754
SE¼ NW¼ SEC.9 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-30547
REMEDATION # 29932

Sample Location			WH-FS-01 @ 6'		Background-01 @ 2'	
(Latitude / Longitude)			(40.329222 / -104.787765)		(40.329288 / -104.787804)	
Sample Date			1/8/2024		1/8/2024	
Sample Depth			6'		2'	
PID Reading (ppm-v)			1.5		0.7	
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs			
VOCs						
Benzene	mg/kg	1.2	0.0026	<0.00200	NA	
Toluene	mg/kg	490	0.69	<0.00200	NA	
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	NA	
Total Xylenes	mg/kg	58	9.9	<0.00200	NA	
Naphthalene	mg/kg	2	0.0038	<0.00380	NA	
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	NA	
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	NA	
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	<0.200	NA	
TPH-DRO	mg/kg	500	--	<25.0	NA	
TPH-RRO	mg/kg	500	--	<100	NA	
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	<0.002	NA	
2-Methyl-naphthalene	mg/kg	24	0.019	<0.002	NA	
Acenaphthene	mg/kg	360	0.55	<0.020	NA	
Anthracene	mg/kg	1800	5.8	<0.020	NA	
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.005	NA	
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.020	NA	
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.020	NA	
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.020	NA	
Chrysene	mg/kg	110	9	<0.020	NA	
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.020	NA	
Fluoranthene	mg/kg	240	8.9	<0.020	NA	
Fluorene	mg/kg	240	0.54	<0.020	NA	
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.020	NA	
Pyrene	mg/kg	180	1.3	<0.020	NA	
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	<0.0993	0.172	
pH	standard unit	6-8.3	--	8.10	8.32	
Sodium Adsorption Ratio (SAR)	--	<6	--	0.115	0.782	
Specific Conductance (EC)	mmhos/cm	<4	--	0.143	0.405	
ECMC = Energy & Carbon Management Commission						
mg/kg = milligrams per kilogram		NA - Not Analyzed		VOCs - Volatile Organic Compounds		
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels				
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels				
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				
Notes:						
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.						
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.						



ATTACHMENT A

Photo Log

Five Rivers USX K #09-21D
API # 05-123-30547
Remediation # 29932

Closure Assessment

January 2024



Wellhead Excavation – 01/08/24



Looking northeast

No petroleum hydrocarbon staining or odor observed



Looking south

No petroleum hydrocarbon staining or odor observed

Wellhead Surface – 01/08/24



Looking northwest

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



Looking northeast

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

Wellhead Surface – 01/08/24



Looking southeast

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



Looking southwest

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



ATTACHMENT B

Laboratory Analytical Report



January 16, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Five Rivers USX K #09-21D Project Number - [none]

Attached are your analytical results for Noble - Five Rivers USX K #09-21D received by Origins Laboratory, Inc. January 08, 2024. This project is associated with Origins project number Y401157-01.

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 - Five Rivers USX K #09-21D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y401157-01	Soil	January 8, 2024 15:40	01/08/2024 17:35
Background-01@2'	Y401157-02	Soil	January 8, 2024 15:55	01/08/2024 17:35

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1401157

Client: Eagle

Client Project ID: Five Rivers

Checklist Completed by: 7811/18/15

Shipped Via: HL

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

Date/time completed: 1/8/24

Airbill #: N/A

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

☐ Water ☐ Other:

Cooler Number/Temperature: 1,24 °C

(Describe)

Thermometer ID: 70041

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 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 NaAsO ₂ +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)

1/9/24
Date/Time Reviewed

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

WH-FS-01@6'

1/8/2024 3:40:00PM

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

Origins Laboratory, Inc.
Y401157-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0993	mg/L	1	B4A1012	ACC	01/10/2024	01/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4A0904	ZZZ	01/09/2024	01/09/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4A0829	HKS	01/08/2024	01/08/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HKS	"	"	U
Naphthalene	ND	0.00380	"	"	"	HKS	"	"	U
Toluene	ND	0.00200	"	"	"	HKS	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HKS	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HKS	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	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 - Five Rivers USX K #09-21D

WH-FS-01@6'

1/8/2024 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401157-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.883	0.499	meq/L	10	[CALC]	ACC	01/09/2024	01/10/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4A1029	Windo	01/10/2024	01/11/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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 - Five Rivers USX K #09-21D

WH-FS-01@6'

1/8/2024 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401157-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	97.9 %	60-130			B4A10 29		01/10/2024	01/11/2024	
Surrogate: Anthracene-d10	106 %	60-130			"		"	"	
Surrogate: Pyrene-d10	99.3 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.10		pH Units	1	B4A0915	EAL	01/09/2024	01/10/2024	
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SAR by 20B Saturated Paste

SAR	0.115	0.0100	SAR	1	B4A0912	ACC	01/09/2024	01/10/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.143	0.00500	mmhos/cm	1	B4A0915	EAL	01/09/2024	01/10/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

Background-01@2'
1/8/2024 3:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401157-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.172	0.0995	mg/L	1	B4A1012	ACC	01/10/2024	01/11/2024
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Metals by Saturated Paste by EPA 6010

Calcium	1.39	0.499	meq/L	10	[CALC]	ACC	01/09/2024	01/10/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	0.746	0.435	"	"	"	ACC	"	"

pH in Soil by 9045D

pH	8.32		pH Units	1	B4A0915	EAL	01/09/2024	01/10/2024
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SAR by 20B Saturated Paste

SAR	0.782	0.0100	SAR	1	B4A0912	ACC	01/09/2024	01/10/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.405	0.00500	mmhos/cm	1	B4A0915	EAL	01/09/2024	01/10/2024
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

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 B4A0829 - EPA 5030 (soil)										
Blank (B4A0829-BLK1)					Prepared: 01/08/2024 Analyzed: 01/08/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	86.9		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 - Five Rivers USX K #09-21D

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 B4A0829 - EPA 5030 (soil)										
LCS (B4A0829-BS1)					Prepared: 01/08/2024 Analyzed: 01/08/2024					
1,2,4-Trimethylbenzene	0.0920	0.00200	mg/kg	0.100		92.0	70-130			
1,3,5-Trimethylbenzene	0.0913	0.00200	"	0.100		91.3	70-130			
Benzene	0.0992	0.00200	"	0.100		99.2	70-130			
Ethylbenzene	0.0910	0.00200	"	0.100		91.0	70-130			
Naphthalene	0.0889	0.00380	"	0.100		88.9	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.0859	0.00200	"	0.100		85.9	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.7	70-130			

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 - Five Rivers USX K #09-21D

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 B4A0829 - EPA 5030 (soil)										
Matrix Spike (B4A0829-MS1)		Source: Y401150-01			Prepared: 01/08/2024 Analyzed: 01/08/2024					
1,2,4-Trimethylbenzene	0.0891	0.00200	mg/kg	0.100	ND	89.1	70-130			
1,3,5-Trimethylbenzene	0.0873	0.00200	"	0.100	ND	87.3	70-130			
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Ethylbenzene	0.0854	0.00200	"	0.100	ND	85.4	70-130			
Naphthalene	0.0904	0.00380	"	0.100	ND	90.4	70-130			
Toluene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
o-Xylene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.1	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 - Five Rivers USX K #09-21D

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 B4A0829 - EPA 5030 (soil)										
Matrix Spike Dup (B4A0829-MSD1)			Source: Y401150-01		Prepared: 01/08/2024 Analyzed: 01/08/2024					
1,2,4-Trimethylbenzene	0.0910	0.00200	mg/kg	0.100	ND	91.0	70-130	2.04	20	
1,3,5-Trimethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130	3.18	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	3.44	20	
Ethylbenzene	0.0911	0.00200	"	0.100	ND	91.1	70-130	6.48	20	
Naphthalene	0.0932	0.00380	"	0.100	ND	93.2	70-130	2.98	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	5.22	20	
o-Xylene	0.0895	0.00200	"	0.100	ND	89.5	70-130	4.20	20	
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.3	70-130	5.37	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.7	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 - Five Rivers USX K #09-21D

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 B4A0904 - EPA 3550B										
Blank (B4A0904-BLK1)					Prepared: 01/09/2024 Analyzed: 01/09/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		89.9	50-150			

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

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 B4A0904 - EPA 3550B

LCS (B4A0904-BS1)

Prepared: 01/09/2024 Analyzed: 01/09/2024

Diesel (C10-C28)	852	50.0	mg/kg	1000		85.2	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000		95.3	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.0	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

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 B4A0904 - EPA 3550B										
Matrix Spike (B4A0904-MS1)		Source: Y401131-01			Prepared: 01/09/2024 Analyzed: 01/09/2024					
Diesel (C10-C28)	845	50.0	mg/kg	1000	ND	84.5	70-130			
Residual Range Organics (C28-C40)	986	200	"	1000	ND	98.6	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	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 - Five Rivers USX K #09-21D

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 B4A0904 - EPA 3550B

Matrix Spike Dup (B4A0904-MSD1)		Source: Y401131-01			Prepared: 01/09/2024 Analyzed: 01/09/2024					
Diesel (C10-C28)	877	50.0	mg/kg	1000	ND	87.7	70-130	3.68	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	2.88	35	
Surrogate: o-Terphenyl	43		"	49.8		85.7	50-150			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

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

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4A1029 - EPA 3580

Blank (B4A1029-BLK1)

Prepared: 01/10/2024 Analyzed: 01/11/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		97.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	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 - Five Rivers USX K #09-21D

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 B4A1029 - EPA 3580

LCS (B4A1029-BS1)

Prepared: 01/10/2024 Analyzed: 01/11/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.5	70-130
2-Methylnaphthalene	0.192	0.002	"	0.200		95.8	70-130
Acenaphthene	0.185	0.020	"	0.200		92.3	70-130
Anthracene	0.187	0.020	"	0.200		93.5	70-130
Benzo (a) anthracene	0.191	0.005	"	0.200		95.5	70-130
Benzo (a) pyrene	0.209	0.020	"	0.200		104	70-130
Benzo (b) fluoranthene	0.192	0.020	"	0.200		95.8	70-130
Benzo (g,h,i) perylene	0.196	0.020	"	0.200		98.1	70-130
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.5	70-130
Chrysene	0.187	0.020	"	0.200		93.7	70-130
Dibenz (a,h) anthracene	0.190	0.020	"	0.200		95.1	70-130
Fluoranthene	0.190	0.020	"	0.200		95.1	70-130
Fluorene	0.178	0.020	"	0.200		88.8	70-130
Indeno (1,2,3-cd) pyrene	0.187	0.020	"	0.200		93.5	70-130
Naphthalene	0.195	0.002	"	0.200		97.3	70-130
Phenanthrene	0.201	0.020	"	0.200		101	70-130
Pyrene	0.188	0.020	"	0.200		93.9	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130
Surrogate: Anthracene-d10	210		"	200		105	60-130
Surrogate: Pyrene-d10	200		"	200		98.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.3	60-130

Matrix Spike (B4A1029-MS1)

Source: Y401135-01

Prepared: 01/10/2024 Analyzed: 01/11/2024

1-Methylnaphthalene	0.203	0.002	mg/kg	0.200	ND	101	70-130
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130
Acenaphthene	0.192	0.020	"	0.200	ND	96.2	70-130
Anthracene	0.203	0.020	"	0.200	0.002	101	70-130

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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

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 B4A1029 - EPA 3580

Matrix Spike (B4A1029-MS1)		Source: Y401135-01			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Benzo (a) anthracene	0.210	0.005	mg/kg	0.200	ND	105	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200	0.0006	102	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	ND	103	70-130			
Benzo (k) fluoranthene	0.197	0.020	"	0.200	ND	98.7	70-130			
Chrysene	0.196	0.020	"	0.200	ND	98.0	70-130			
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.212	0.020	"	0.200	0.0007	106	70-130			
Fluorene	0.186	0.020	"	0.200	ND	93.2	70-130			
Indeno (1,2,3-cd) pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.210	0.020	"	0.200	ND	105	70-130			
Pyrene	0.185	0.020	"	0.200	ND	92.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike Dup (B4A1029-MSD1)		Source: Y401135-01			Prepared: 01/10/2024 Analyzed: 01/11/2024					
1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	1.43	20	
2-Methylnaphthalene	0.204	0.002	"	0.200	ND	102	70-130	1.84	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.6	70-130	1.42	20	
Anthracene	0.207	0.020	"	0.200	0.002	103	70-130	1.98	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	ND	100	70-130	4.49	20	
Benzo (a) pyrene	0.222	0.020	"	0.200	ND	111	70-130	1.23	20	
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.0006	106	70-130	4.58	20	
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	ND	109	70-130	5.35	20	

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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A1029 - EPA 3580										
Matrix Spike Dup (B4A1029-MSD1)		Source: Y401135-01			Prepared: 01/10/2024 Analyzed: 01/11/2024					
Benzo (k) fluoranthene	0.214	0.020	mg/kg	0.200	ND	107	70-130	7.89	20	
Chrysene	0.200	0.020	"	0.200	ND	100	70-130	2.05	20	
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	ND	110	70-130	6.50	20	
Fluoranthene	0.217	0.020	"	0.200	0.0007	108	70-130	2.42	20	
Fluorene	0.185	0.020	"	0.200	ND	92.7	70-130	0.538	20	
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	ND	103	70-130	3.14	20	
Naphthalene	0.203	0.002	"	0.200	ND	101	70-130	0.180	20	
Phenanthrene	0.216	0.020	"	0.200	ND	108	70-130	3.01	20	
Pyrene	0.184	0.020	"	0.200	ND	92.1	70-130	0.182	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	210		"	200		107	60-130			
Surrogate: Pyrene-d10	180		"	200		90.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Five Rivers USX K #09-21D

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 B4A0912 - Saturated Paste Metals

Blank (B4A0912-BLK1)

Prepared: 01/09/2024 Analyzed: 01/10/2024

SAR	ND	0.0100	SAR
Calcium PPM	ND	1.00	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	1.00	"

Duplicate (B4A0912-DUP1)

Source: Y401131-01

Prepared: 01/09/2024 Analyzed: 01/10/2024

Calcium PPM	41.6	10.0	mg/L	39.1	6.22	50
SAR	ND	0.0100	SAR	0.211		200
Magnesium PPM	3.68	10.0	mg/L	3.51	4.73	50
Sodium PPM	7.47	10.0	"	5.13	37.1	50

Batch B4A1012 - DTPA Sorbitol Preparation

Blank (B4A1012-BLK1)

Prepared: 01/10/2024 Analyzed: 01/11/2024

Boron	ND	0.100	mg/L
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Duplicate (B4A1012-DUP1)

Source: Y401135-01

Prepared: 01/10/2024 Analyzed: 01/11/2024

Boron	0.869	0.0996	mg/L	0.860	1.12	50
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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 - Five Rivers USX K #09-21D

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4A0915 - Saturated Paste pH/EC										
Blank (B4A0915-BLK1)					Prepared: 01/09/2024 Analyzed: 01/10/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4A0915-DUP1)					Source: Y401131-01 Prepared: 01/09/2024 Analyzed: 01/10/2024					
Specific Conductance (EC)	0.283	0.00500	mmhos/cm		0.256			9.90	25	
pH	8.28		pH Units		8.29			0.121	25	

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8000 W 44th Ave

Wheat Ridge CO 80033

Andrew Newberry

Project Number: [none]

Project: Noble - Five Rivers USX K #09-21D

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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