

FIGURES

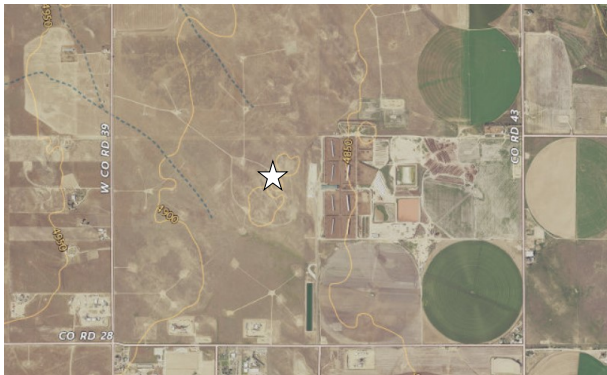
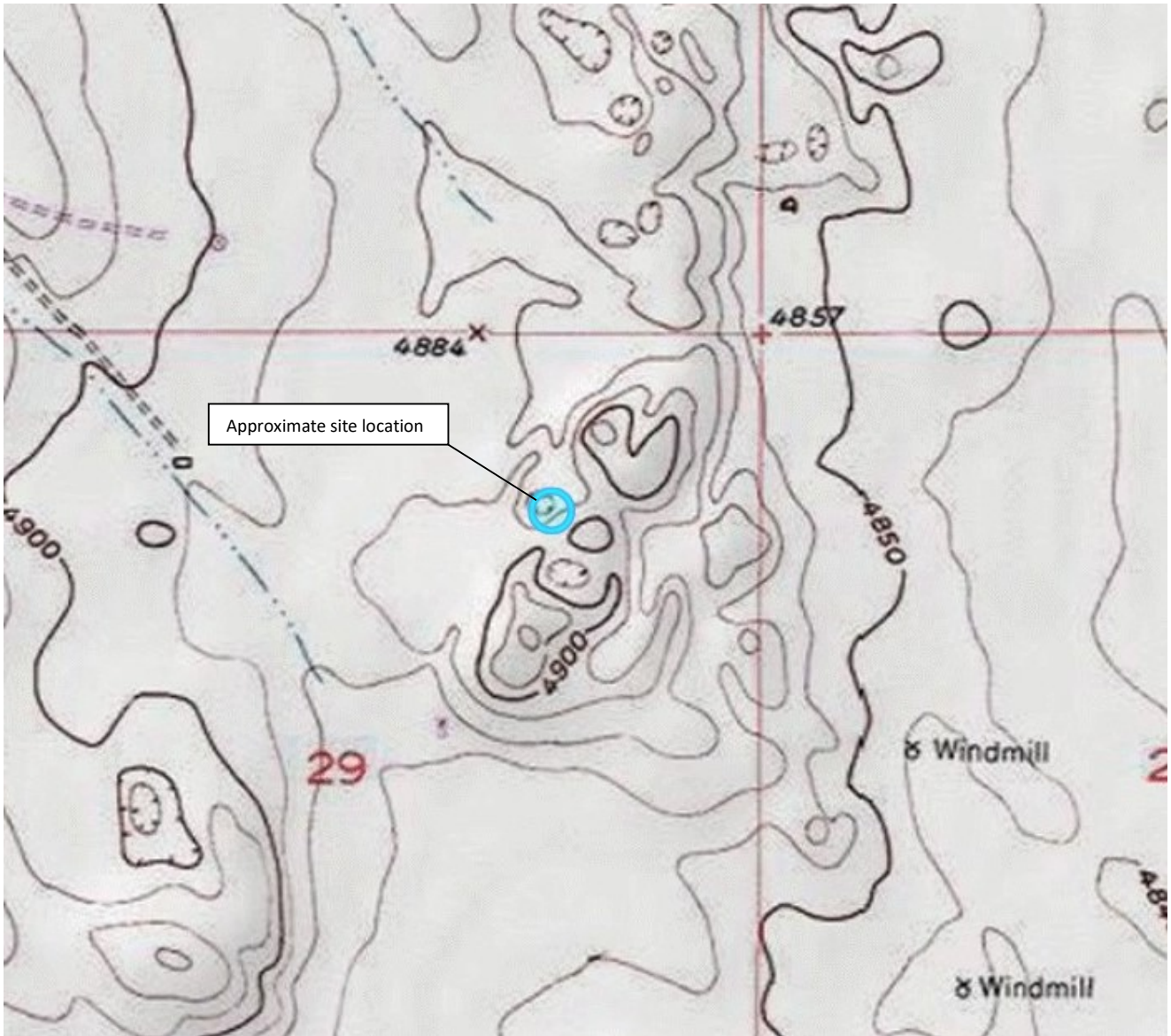


Figure 1

Site Location Map
Kerr-McGee Oil and Gas Onshore LP
Roy 41-29
 NENE Sec. 29-T3N-R65W
 Weld County, Colorado



Source: USGS 7.5 Minute Topographic Map, Milton Reservoir, CO Quadrangle

Drawn By: AM Date: 08/14/2023



Legend

- Approximate dig area
- Approximate extent of the release
- + Approximate soil sample location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 15 ft. 30 ft.

Image Source: Google Earth 06/2021

DATE:	March 13, 2024
DESIGNED BY:	D. Coloccia
DRAWN BY:	B. Bates



EAGLE
ENVIRONMENTAL
CONSULTING, LLC

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

Kerr-McGee Oil and Gas Onshore LP
Roy 41-29 Reclamation Active Release
 NENE Sec.29-T3N-R65W
 Weld County, Colorado

Screening and Sample
Location Map

Figure
2

TABLES

TABLE 1
 ROY 41-29
 SOIL SAMPLE FIELD DATA SUMMARY TABLE
 KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
<i>Reclamation Soil Samples</i>							
REC Waste Characterization-05 @ 6"	03/12/24	0.5	2.2	HC Staining	N/O	40.2005906, -104.6826752	Y

Notes:

bgs = below ground surface
 PID = photoionization detector
 ppm-v = parts per million by volume
BOLD = ECMC Table 915-1 exceedance

N/S = No Staining
 N/O = No Odor
 HC = hydrocarbon

TABLE 2
ROY 41-29
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>ECMC standards for soil (mg/kg)</i> ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>ECMC standards for soil (mg/kg)</i> ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Reclamation Soil Samples											
REC Waste Characterization-05 @ 6"	03/12/24	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	38.8	<100	0.007	<0.00200	<0.00200

Notes:

⁽¹⁾ ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

TABLE 3
ROY 41-29
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
<i>ECMC standards for soil (mg/kg)⁽¹⁾</i>		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
<i>ECMC standards for soil (mg/kg)⁽²⁾</i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Reclamation Soil Samples															
REC Waste Characterization-05 @ 6"	03/12/24	0.032	0.044	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

**ATTACHMENT A
LABORATORY DATA**



March 13, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - Roy 41-29

Project Number - [none]

Attached are your analytical results for KMG - Roy 41-29 received by Origins Laboratory, Inc. March 12, 2024. This project is associated with Origins project number Y403329-01.

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

Dan Coloccia
Project Number: [none]
Project: KMG - Roy 41-29

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
REC Waste Characterization-05@6"	Y403329-01	Soil	March 12, 2024 10:50	03/12/2024 16:45

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 403329

Client: Eagle

Client Project ID: Roy 41-29

Checklist Completed by: EHS/SA

Shipped Via: HO

Date/time completed: 3/12/24

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

Airbill #: N/A

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

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

Thermometer ID: 1004

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

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

[Signature]
 Reviewed by (Project Manager)

3/12/24
 Date/Time Reviewed

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

:C Waste Characterization-05@
3/12/2024 10:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403329-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	38.8	25.0	mg/kg	1	B4C1228	ADM	03/12/2024	03/13/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ADM	"	"	U
<i>Surrogate: o-Terphenyl</i>	98.8 %	50-150			"	"	"	"	

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4C1234	ZZZ	03/12/2024	03/13/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130			"	"	"	"	
<i>Surrogate: Toluene-d8</i>	101 %	70-130			"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %	70-130			"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.032	0.002	mg/kg	1	B4C1236	Windo	03/12/2024	03/12/2024	
2-Methylnaphthalene	0.044	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

:C Waste Characterization-05@
3/12/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y403329-01 (Soil)

PAH by EPA 8270E

Anthracene	ND	0.020	mg/kg	1	B4C1236	Windo	03/12/2024	03/12/2024	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
Naphthalene	0.007	0.002	"	"	"	Windo	"	"	
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10	102 %	60-130			"	"	"	
Surrogate: Anthracene-d10	110 %	60-130			"	"	"	
Surrogate: Pyrene-d10	88.5 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.9 %	60-130			"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1228 - EPA 3550B										
Blank (B4C1228-BLK1)										
					Prepared: 03/12/2024 Analyzed: 03/12/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	32		"	24.9		129	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1228 - EPA 3550B										
LCS (B4C1228-BS1)					Prepared: 03/12/2024 Analyzed: 03/13/2024					
Diesel (C10-C28)	999	50.0	mg/kg	1000		99.9	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000		115	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1228 - EPA 3550B

Matrix Spike (B4C1228-MS1)	Source: Y403320-01			Prepared: 03/12/2024 Analyzed: 03/12/2024						
Diesel (C10-C28)	1290	50.0	mg/kg	1000	373	91.3	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000	ND	124	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1228 - EPA 3550B										
Matrix Spike Dup (B4C1228-MSD1)					Source: Y403320-01					Prepared: 03/12/2024 Analyzed: 03/12/2024
Diesel (C10-C28)	1250	50.0	mg/kg	1000	373	87.7	70-130	2.84	35	
Residual Range Organics (C28-C40)	1170	200	"	1000	ND	117	70-130	6.21	35	
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1234 - EPA 5030 (soil)

Blank (B4C1234-BLK1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

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	0.11		"	0.125	89.8		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.9		70-130			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1234 - EPA 5030 (soil)

LCS (B4C1234-BS1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.115	0.00380	"	0.100		115	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	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.5	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1234 - EPA 5030 (soil)

Matrix Spike (B4C1234-MS1)	Source: Y403321-01			Prepared: 03/12/2024 Analyzed: 03/12/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Benzene	0.100	0.00200	"	0.100	ND	100	70-130			
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Naphthalene	0.0995	0.00380	"	0.100	ND	99.5	70-130			
Toluene	0.106	0.00200	"	0.100	ND	106	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1234 - EPA 5030 (soil)

Matrix Spike Dup (B4C1234-MSD1)	Source: Y403321-01			Prepared: 03/12/2024 Analyzed: 03/12/2024						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	5.41	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	5.02	20	
Benzene	0.0978	0.00200	"	0.100	ND	97.8	70-130	2.34	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	4.94	20	
Naphthalene	0.100	0.00380	"	0.100	ND	100	70-130	0.681	20	
Toluene	0.102	0.00200	"	0.100	ND	102	70-130	4.47	20	
o-Xylene	0.0992	0.00200	"	0.100	ND	99.2	70-130	4.44	20	
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130	4.95	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1236 - EPA 3580

Blank (B4C1236-BLK1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

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		99.5	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.3	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1236 - EPA 3580

LCS (B4C1236-BS1)

Prepared: 03/12/2024 Analyzed: 03/12/2024

1-Methylnaphthalene	0.173	0.002	mg/kg	0.200		86.4	70-130			
2-Methylnaphthalene	0.174	0.002	"	0.200		87.1	70-130			
Acenaphthene	0.182	0.020	"	0.200		91.1	70-130			
Anthracene	0.186	0.020	"	0.200		93.2	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200		91.5	70-130			
Benzo (a) pyrene	0.170	0.020	"	0.200		85.2	70-130			
Benzo (b) fluoranthene	0.173	0.020	"	0.200		86.4	70-130			
Benzo (g,h,i) perylene	0.177	0.020	"	0.200		88.7	70-130			
Benzo (k) fluoranthene	0.164	0.020	"	0.200		81.8	70-130			
Chrysene	0.173	0.020	"	0.200		86.7	70-130			
Dibenz (a,h) anthracene	0.174	0.020	"	0.200		87.1	70-130			
Fluoranthene	0.184	0.020	"	0.200		91.9	70-130			
Fluorene	0.182	0.020	"	0.200		91.2	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		88.0	70-130			
Naphthalene	0.178	0.002	"	0.200		89.0	70-130			
Phenanthrene	0.185	0.020	"	0.200		92.3	70-130			
Pyrene	0.166	0.020	"	0.200		82.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	180		"	200		92.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.7	60-130			

Matrix Spike (B4C1236-MS1)

Source: Y403315-01

Prepared: 03/12/2024 Analyzed: 03/12/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.3	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200	ND	94.6	70-130			
Acenaphthene	0.195	0.020	"	0.200	ND	97.7	70-130			
Anthracene	0.195	0.020	"	0.200	0.0005	97.1	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1236 - EPA 3580

Matrix Spike (B4C1236-MS1)	Source: Y403315-01			Prepared: 03/12/2024 Analyzed: 03/12/2024						
Benzo (a) anthracene	0.184	0.005	mg/kg	0.200	ND	91.9	70-130			
Benzo (a) pyrene	0.181	0.020	"	0.200	ND	90.7	70-130			
Benzo (b) fluoranthene	0.187	0.020	"	0.200	0.002	92.3	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	0.0005	96.4	70-130			
Benzo (k) fluoranthene	0.181	0.020	"	0.200	0.002	89.8	70-130			
Chrysene	0.184	0.020	"	0.200	0.001	91.6	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200	ND	95.9	70-130			
Fluoranthene	0.202	0.020	"	0.200	ND	101	70-130			
Fluorene	0.194	0.020	"	0.200	ND	96.9	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	0.002	95.1	70-130			
Naphthalene	0.197	0.002	"	0.200	0.003	96.6	70-130			
Phenanthrene	0.196	0.020	"	0.200	ND	98.1	70-130			
Pyrene	0.175	0.020	"	0.200	ND	87.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	180		"	200		90.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.0	60-130			

Matrix Spike Dup (B4C1236-MSD1)	Source: Y403315-01			Prepared: 03/12/2024 Analyzed: 03/12/2024						
1-Methylnaphthalene	0.170	0.002	mg/kg	0.200	ND	85.0	70-130	10.4	20	
2-Methylnaphthalene	0.170	0.002	"	0.200	ND	85.2	70-130	10.5	20	
Acenaphthene	0.175	0.020	"	0.200	ND	87.7	70-130	10.8	20	
Anthracene	0.181	0.020	"	0.200	0.0005	90.1	70-130	7.45	20	
Benzo (a) anthracene	0.173	0.005	"	0.200	ND	86.6	70-130	5.95	20	
Benzo (a) pyrene	0.169	0.020	"	0.200	ND	84.3	70-130	7.32	20	
Benzo (b) fluoranthene	0.177	0.020	"	0.200	0.002	87.6	70-130	5.15	20	
Benzo (g,h,i) perylene	0.172	0.020	"	0.200	0.0005	85.8	70-130	11.6	20	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - Roy 41-29

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 B4C1236 - EPA 3580

Matrix Spike Dup (B4C1236-MSD1)	Source: Y403315-01			Prepared: 03/12/2024 Analyzed: 03/12/2024						
Benzo (k) fluoranthene	0.156	0.020	mg/kg	0.200	0.002	77.0	70-130	15.1	20	
Chrysene	0.166	0.020	"	0.200	0.001	82.4	70-130	10.5	20	
Dibenz (a,h) anthracene	0.174	0.020	"	0.200	ND	86.8	70-130	10.0	20	
Fluoranthene	0.185	0.020	"	0.200	ND	92.4	70-130	8.75	20	
Fluorene	0.177	0.020	"	0.200	ND	88.6	70-130	8.91	20	
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200	0.002	85.4	70-130	10.7	20	
Naphthalene	0.176	0.002	"	0.200	0.003	86.5	70-130	10.8	20	
Phenanthrene	0.182	0.020	"	0.200	ND	90.8	70-130	7.67	20	
Pyrene	0.158	0.020	"	0.200	ND	78.8	70-130	10.6	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	180		"	200		89.9	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.4	60-130			

Origins Laboratory, Inc.



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

Dan Coloccia
Project Number: [none]
Project: KMG - Roy 41-29

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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ATTACHMENT B
FIELD NOTES AND PHOTOGRAPHIC LOG



Wellhead Closure Checklist 2

Project	Occidental Petroleum
ID	412428
Survey Date	12/14/2023
User	Austin Razo
Additional Attachments (Optional)	
Site Name	Roy 41-29
Remediation Project #	31194

Wellhead Information

Weather	
Client	
Location	
Latitude	40.200633
Longitude	-104.682539
General Condition of Site	
USCS Soil Type	
Estimated Depth to Groundwater	
Hydrocarbon Impacted Soils / Spills	
Salt Crusted Soils or Impacted Vegetation	

Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
R1	12/14/2023	12:47 PM	WH-B01@6'	0.1	N.S		N.O			Wellhead	
R2	12/14/2023	12:49 PM	WH-N01@5'	0.1	N.S		N.O			Wellhead	
R3	12/14/2023	12:51 PM	WH-E01@5'	0.4	N.S		N.O			Wellhead	
R4	12/14/2023	12:53 PM	WH-W01@5'	0.3	N.S		N.O			Wellhead	
R5	12/14/2023	12:55 PM	WHS-N01@3"	0.2	N.S		N.O			Wellhead Surface	
R6	12/14/2023	12:57 PM	WHS-E01@3"	0.1	N.S		N.O			Wellhead Surface	
R7	12/14/2023	12:59 PM	WHS-W01@3"	0.1	N.S		N.O			Wellhead Surface	
R8	12/14/2023	01:01 PM	FL-B01@4'	0.6	N.S		N.O			Flowline at Wellhead	
R9	12/14/2023	01:21 PM	WH-BG01@3'	0.4	N.S		N.O			Wellhead Background	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Direction	Equipment Name	Other Equipment Type
R10	12/14/2023	01:23 PM	WH-BG01@6'	0.5	N.S		N.O			Wellhead Background	
R11	12/14/2023	01:25 PM	WH-BG02@3'	0.2	N.S		N.O			Wellhead Background	
R12	12/14/2023	01:27 PM	WH-BG02@6'	0.4	N.S		N.O			Wellhead Background	
R13	12/14/2023	01:29 PM	WH-BG03@3'	0.4	N.S		N.O			Wellhead Background	
R14	12/14/2023	01:31 PM	WH-BG03@6'	0.8	N.S		N.O			Wellhead Background	
R15	12/14/2023	01:33 PM	WH-BG04@3'	0.2	N.S		N.O			Wellhead Background	
R16	12/14/2023	01:35 PM	WH-BG04@6'	0.5	N.S		N.O			Wellhead Background	
R17	12/29/2023	02:20 PM	FL-B02 @ 3'	1.9	N.S		N.O			Flowline at Separator	
R18	12/29/2023	02:48 PM	FL-B03 @ 4'	0.7	N.S		N.O			Flowline	
R19	12/29/2023	02:50 PM	FL-B04 @ 4'	0.4	N.S		N.O			Flowline	
R20	12/29/2023	02:52 PM	FL-B05 @ 4'	0.2	N.S		N.O			Flowline	
R21	01/04/2024	12:10 PM	WH-B01-01@6'	0.2	N.S		N.O			Wellhead	
R22	03/12/2024	10:50 AM	REC Waste Characterization-05@6"	2.2	HC Staining		N.O			Other	REC W

Photo(s)

R1 - P1



Facing west

R3 - P1



Facing east

R9 - P1



Facing North

R11 - P1



Facing East

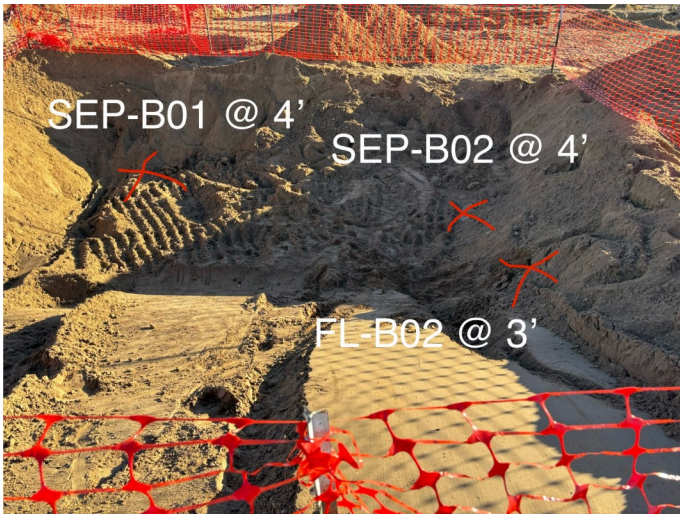
R13 - P1



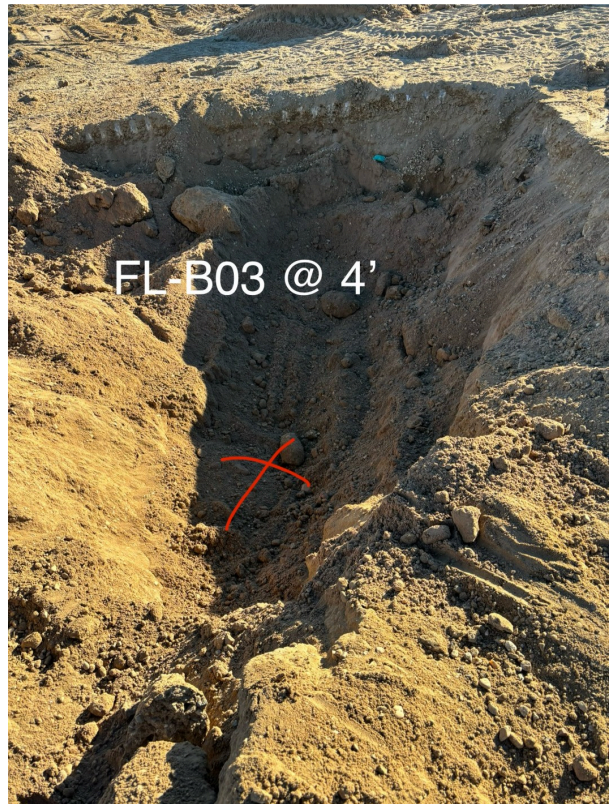
R15 - P1



R17 - P1



R18 - P1



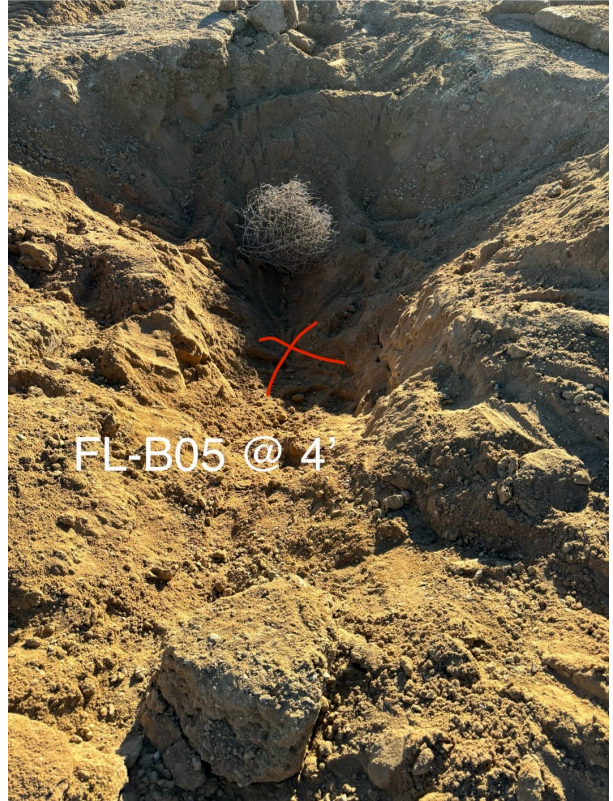
Looking east

R19 - P1



Looking south

R20 - P1



Looking south

R21 - P1



Looking east

R22 - P1



Looking south

Other observations regarding wellheads

Summary

Was impacted soil identified?	No
Total number of soil samples field screened	22
Total number of soil samples collected	22
Highest PID Reading	2.2
Total number of soil samples submitted to lab for analysis	13
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	
Date Groundwater was encountered	
Commencement date of removal	
Sheen on groundwater?	
Free product observed?	
Volume of groundwater removed prior to sampling	
Volume of groundwater removed post sampling	
Total volume of groundwater removed	
Total number of groundwater samples collected	
Total number of groundwater samples submitted to lab for analysis	

ATTACHMENT C
STATE NOTIFICATION

Fw: State Reportable Release 24 Hour Notification - ROY 41-29

Bartoszek, Jaron <Jaron_Bartoszek@oxy.com>

Wed 3/13/2024 3:32 PM

To: Daniel Coloccia <dcoloccia@eagle-enviro.com>; Brandon VanHorn <bvanhorn@eagle-enviro.com>; Allie McNall <amcnall@eagle-enviro.com>

Cc: Mickelson, Erik <Erik_Mickelson@oxy.com>; Ochoa, Ariana <Ariana_Ochoa@oxy.com>; Riemer, Joseph <Joseph_Riemer@oxy.com>; Bugarin, Eve M <Eve_Bugarin@oxy.com>

***** ATTENTION! - [EXTERNAL EMAIL] ***** This message originated from outside of our organization. Treat hyperlinks and attachments in this email with caution. ***

FYI

Jaron Bartoszek, Environmental Advisor

HSE Rockies, Occidental Petroleum Corporation

| Mobile 970.515.0055 | Platteville, CO 80651

Zero In™ at oxy.com

From: Bartoszek, Jaron <Jaron_Bartoszek@oxy.com>**Sent:** Wednesday, March 13, 2024 3:31 PM**To:** alexander.ahmadian@state.co.us <alexander.ahmadian@state.co.us>; 'Jason Maxey (jmaxey@weldgov.com)' <jmaxey@weldgov.com>; 'Roy Rudisill (rrudisill@co.weld.co.us)' <rrudisill@co.weld.co.us>**Cc:** Scranton, Lynna <Lynna_Scranton@oxy.com>; Mickelson, Erik <Erik_Mickelson@oxy.com>; Rowley, Taylor <Taylor_Rowley@oxy.com>; Bugarin, Eve M <Eve_Bugarin@oxy.com>; Riemer, Joseph <Joseph_Riemer@oxy.com>; Lytle, Andy <Andrew_Lytle@oxy.com>; Jobe, Don <Don_Jobe@oxy.com>; Grage, Mark <Mark_Grage@oxy.com>; Neely, Dewey (Platteville) <Dewey_Neely2@oxy.com>; Brice, Jennifer <Jennifer_Brice@oxy.com>; Coleman, Julie <Julie_Coleman@oxy.com>; Wells, Matt <Matthew_Wells@oxy.com>; Mathes, Robert <Robert_Mathes@oxy.com>; Hamlin, Mark G <Mark_Hamlin@oxy.com>; Ochoa, Ariana <Ariana_Ochoa@oxy.com>; Bartoszek, Jaron <Jaron_Bartoszek@oxy.com>**Subject:** State Reportable Release 24 Hour Notification - ROY 41-29

Good afternoon,

We identified a state reportable release following identification of impacted soil of an unknown volume during reclamation activities at the former wellhead. This release is not an active release. Excavation activities are currently on-going and a Form 19 Release Report is forthcoming. This release did not threaten Waters of the State, Public Water System, residences or occupied structures, livestock, wildlife, air quality, or publicly-maintained roads.

The following have been notified via specified method below:

- Weld County contacted via electronic mail
- Surface Owner notification in process

The Environmental Release/Incident Report Hotline and Colorado Parks and Wildlife were not contacted as this release did not trigger notification requirements per 912.b.(2)B.

Location Details:

- Facility Name: ROY 41-29 Wellhead
- Location: NENE 29 3N 65W
- Latitude/Longitude: 40.200597 / -104.682686
- Facility ID: 05-123-25846

Please let me know if you have any questions,

Thank you,

Jaron Bartoszek, Environmental Advisor

HSE Rockies, Occidental Petroleum Corporation

| Mobile 970.515.0055 | Platteville, CO 80651

Zero In™ at oxy.com