



Facility Closure Investigation and Environmental Summary

Pioneer USX Y07-08D Wellhead

ECMC Remediation Project #26206

Weld County, Colorado

Attachments:

Figure 1 – General Location Map

Figure 2 – Wellhead Soil Sample and Field Screening Locations

Table 1 – Soil Sample and Field Screening Location Information

Table 2 – Soil Analytical Results Summary Table – Volatile Organics

Table 3 – Soil Analytical Results Summary Table – PAHs

Table 4 – Soil Analytical Results Summary Table – Soil Suitability

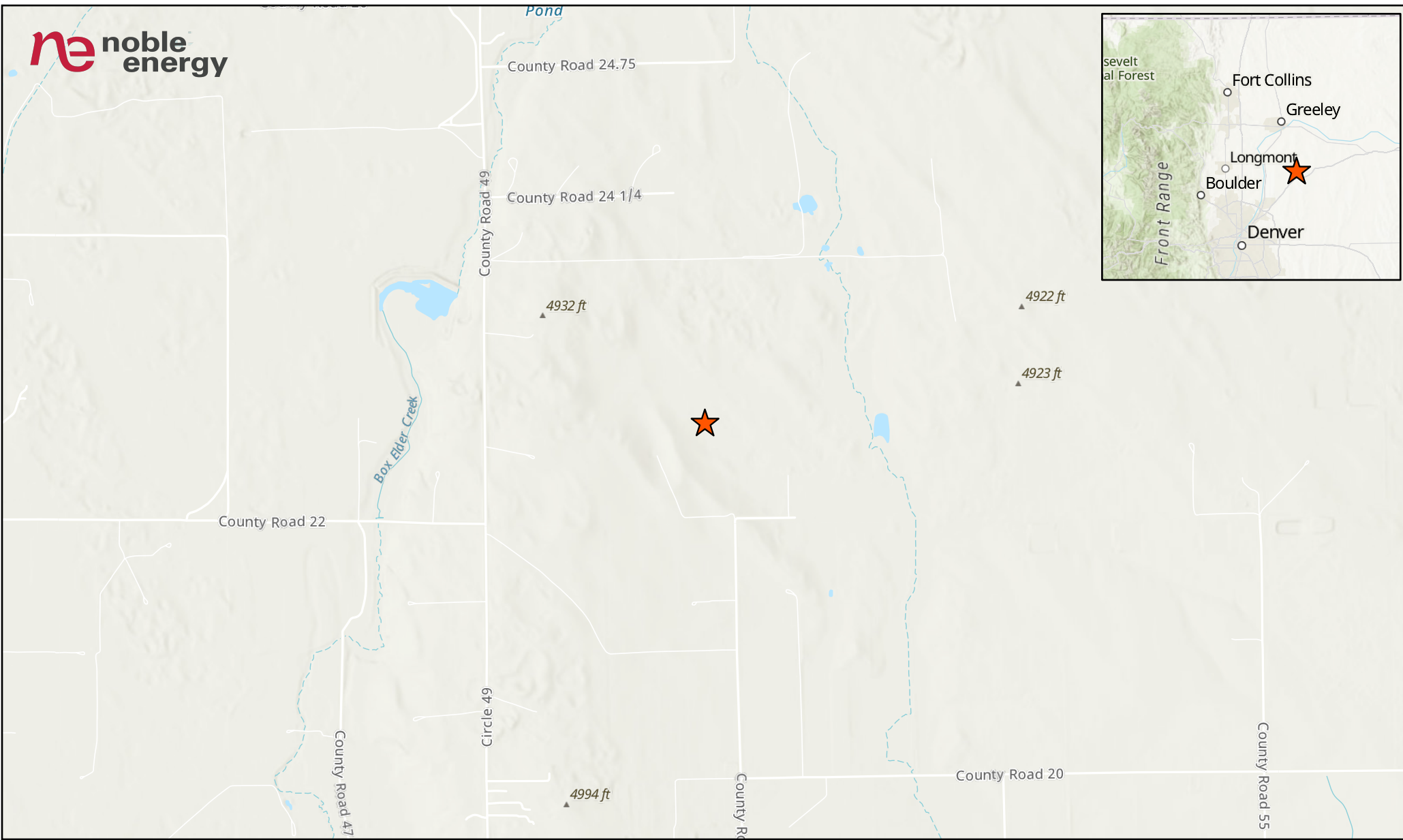
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

Site Location

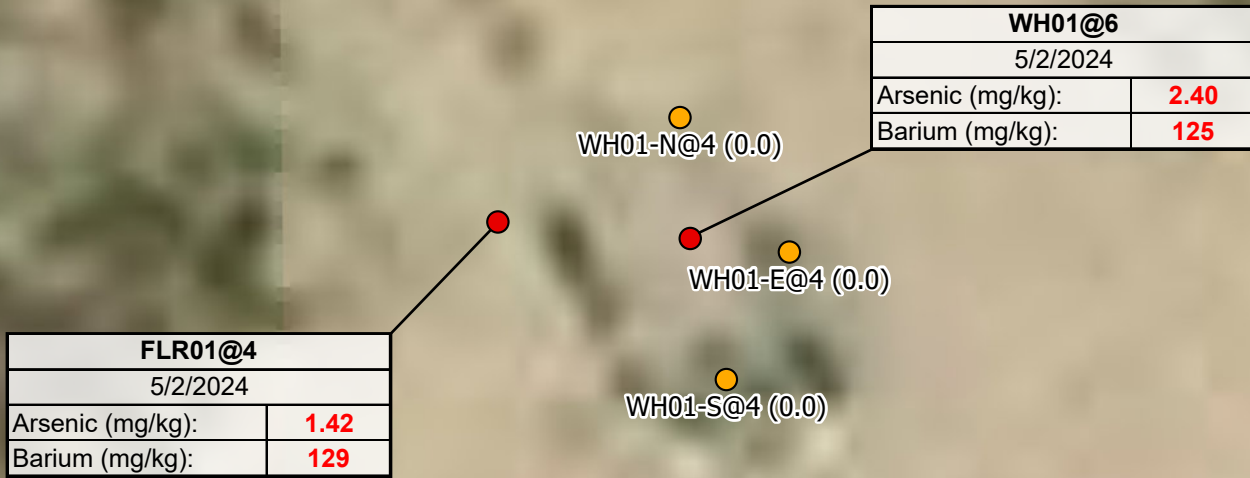
0 0.5 1 Miles
1 inch = 0.5 Mile

Project No:	024-172
Map By:	JW
Date:	06/29/2024

PIONEER USX Y07-08D WELLHEAD
GENERAL LOCATION MAP
 NOBLE ENERGY
 NE 1/4 SE 1/4 SECTION 7
 T2N R64W, 6TH PM
 WELD COUNTY, COLORADO

1843 Sunlight Dr.
 Longmont, CO 80504
 303.378.4036

Figure
1



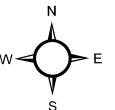
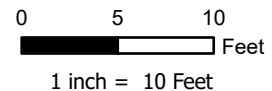
LABEL LEGEND
 XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
 FLR: FLOWLINE RISER SAMPLE
RED: ABOVE ECMC TABLE 915-1 GWSSL

Maxar, Microsoft

Legend

- Soil Sample
- Screening Location

NOTES:
 - Sample Label (PID Result in ppm)
 - ppm = parts per million
 - PID = photoionization detector



Project No: 024-172
 Map By: JW
 Date: 06/28/2024

**PIONEER USX Y07-08D WELLHEAD
 SOIL SAMPLE AND FIELD SCREENING LOCATIONS**
 NOBLE ENERGY
 NE 1/4 SE 1/4 SECTION 7
 T2N R64W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Drive
 Longmont, CO 80504
 303.378.4036

Figure
 2

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
PIONEER USX Y07-08D WELLHEAD, WELD COUNTY, COLORADO
REM # 26206

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	5/2/2024	6	40.150921	-104.587021	0.0
FLR01@4	5/2/2024	4	40.150924	-104.587057	0.0
WH01-S@4	5/2/2024	4	40.150901	-104.587015	0.0
WH01-N@4	5/2/2024	4	40.150939	-104.587023	0.0
WH01-E@4	5/2/2024	4	40.150919	-104.587003	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

ppm = Parts per million

ft-bgs = feet below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
PIONEER USX Y07-08D WELLHEAD, WELD COUNTY, COLORADO
REM # 26206

Sample ID	Sample Date	Depth (ft-bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH01@6	5/2/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	5/2/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
 2. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
- ft-bgs = feet below ground surface
mg/kg = milligrams per kilogram

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
PIONEER USX Y07-08D WELLHEAD, WELD COUNTY, COLORADO
REM # 26206

Sample ID	Sample Date	Depth (ft-bgs)	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)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH01@6	5/2/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
FLR01@4	5/2/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
ft-bgs = feet below ground surface
mg/kg = milligrams per kilogram

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
PIONEER USX Y07-08D WELLHEAD, WELD COUNTY, COLORADO
REM # 26206

Sample ID	Sample Date	Depth (ft-bgs)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH01@6	5/2/2024	6	8.12	1.80	1.11	0.501
FLR01@4	5/2/2024	4	8.26	1.40	1.27	0.515

ft-bgs = feet below ground surface

EC = Electrical Conductivity

SAR = Sodium absorption ratio

mmhos/cm = millimeters of mercury per centimeter

mg/L = milligrams per liter

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
PIONEER USX Y07-08D WELLHEAD, WELD COUNTY, COLORADO
REM # 26206

Sample ID	Sample Date	Depth (ft-bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH01@6	5/2/2024	6	2.40	125	<0.0884	<0.127*	<8.84	5.49	5.99	<0.230	0.120	<32.7
FLR01@4	5/2/2024	4	1.42	129	<0.0933	<0.182*	<9.33	3.72	3.23	<0.243	0.0979	<34.5

1. Red values exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- * Indicates laboratory reporting or minimum detection limit in excess of SSL
- ft-bgs = feet below ground surface
mg/kg = milligrams per kilogram

**ATTACHMENT A
PHOTOGRAPHIC LOG**

Pioneer USX Y07-08D Wellhead Photographic Log



Pioneer USX Y07-08D Wellhead Photographic Log



Pioneer USX Y07-08D Wellhead Photographic Log



Pioneer USX Y07-08D Wellhead Photographic Log



**ATTACHMENT B
FACILITY CLOSURE CHECKLISTS**

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: Pioneer USX Y07-08D, 423306		Date: 05/02/2024						Remediation Project #: 26206	
Associated Wells: NA		Age of Site: 06/18/2011- spud date						Number of Photos Attached: 4	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.150940 / -104.587062							Estimated Facility Size (acres): ~0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Overall good									
USCS Soil Type: Silty Sand (SM)				Estimated Depth to Groundwater: Unknown as none encountered					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered									
Wellhead(s)									
Well API	05-123-33553								
Age	06/18/2011- spud date								
Condition of surface around wellhead	Good								
PID Readings	0.0 ppm								
Condition of subsurface (staining present)	Good								
PID Readings	0.0 ppm								
Sample taken? Location/Sample ID#	WH01@6, FLR01@4								
Photo Number(s)	1-4								
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 5				Total number of samples collected: 5					
Highest PID Reading: 0.0 ppm				Total number of samples submitted to lab for analysis: 2					
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="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									

**ATTACHMENT C
LABORATORY ANALYTICAL REPORTS**

May 20, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Pioneer USX Y07-08D Project Number - [none]

Attached are your analytical results for Chevron - Pioneer USX Y07-08D received by Origins Laboratory, Inc. May 03, 2024. This project is associated with Origins project number Y405140-01.

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



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Pioneer USX Y07-08D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	Y405140-01	Soil	May 2, 2024 8:00	05/03/2024 17:10
FLR01@4	Y405140-02	Soil	May 2, 2024 8:05	05/03/2024 17:10

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.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Pioneer USX Y07-08D

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4405140

Client: Entrada

Checklist Completed by: TSH/STH

Client Project ID: Pioneer USX

Date/time completed: 5/16/12

Shipped Via: HD
(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 / 9.5 °C

(Describe)

Thermometer ID: 1005

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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: JB (Project Manager)

Date/Time Reviewed: 5/17/12

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

WH01@6'
5/2/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405140-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.501		0.100	mg/L	1	B4E0711	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0801	05/08/2024	05/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0727	05/07/2024	05/10/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

WH01@6'
 5/2/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405140-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.9 %		70-130			B4E07 27	05/07/2024	05/10/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	26.7	0.499	meq/L	10	[CALC]		05/07/2024	05/08/2024	
Magnesium	6.34	0.823	"	"	"		"	"	
Sodium	4.51	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E0734		05/07/2024	05/09/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	Ua
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

WH01@6'
 5/2/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405140-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E0734	05/07/2024	05/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	87.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.12			pH Units	1	B4E0721	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	1.11		0.0100	SAR	1	B4E0716	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.80		0.00500	mmhos/cm	1	B4E0721	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

WH01@6'
 5/2/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405140-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.40		0.256	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
Barium	125		8.84	"	"	"	"	"	
Cadmium	ND		0.0884	"	"	"	"	"	
Copper	ND		8.84	"	"	"	"	"	
Lead	5.49		0.884	"	"	"	"	"	
Nickel	5.99		0.884	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	0.120		0.0884	"	"	"	"	"	
Zinc	ND		32.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.127	0.317	mg/kg dry	1	2609023	05/08/2024	05/09/2024	U
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Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

FLR01@4
 5/2/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405140-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.515		0.0983	mg/L	1	B4E0712	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0801	05/08/2024	05/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0727	05/07/2024	05/10/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

FLR01@4
 5/2/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405140-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.2 %		70-130			B4E07 27	05/07/2024	05/10/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	16.3		0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024	
Magnesium	3.87		0.823	"	"	"	"	"	
Sodium	4.02		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0734	05/07/2024	05/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

FLR01@4
 5/2/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405140-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E0734	05/07/2024	05/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	83.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4E0721	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	1.27		0.0100	SAR	1	B4E0716	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.40		0.00500	mmhos/cm	1	B4E0721	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

FLR01@4

5/2/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405140-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.42		0.271	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
Barium	129		9.33	"	"	"	"	"	
Cadmium	ND		0.0933	"	"	"	"	"	
Copper	ND		9.33	"	"	"	"	"	
Lead	3.72		0.933	"	"	"	"	"	
Nickel	3.23		0.933	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	0.0979		0.0933	"	"	"	"	"	
Zinc	ND		34.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.182	0.456	mg/kg dry	1	2609023	05/08/2024	05/09/2024	U
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Entrada Consulting Group
 330 Grand Ave. Unit C
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0727 - EPA 5030 (soil)

Blank (B4E0727-BLK1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0727 - EPA 5030 (soil)

LCS (B4E0727-BS1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100		97.5	70-130			
1,3,5-Trimethylbenzene	0.0982	0.00200	"	0.100		98.2	70-130			
Benzene	0.0975	0.00200	"	0.100		97.5	70-130			
Ethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0957	0.00200	"	0.100		95.7	70-130			
o-Xylene	0.0938	0.00200	"	0.100		93.8	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0727 - EPA 5030 (soil)

Matrix Spike (B4E0727-MS1)	Source: Y405138-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
1,2,4-Trimethylbenzene	0.0761	0.00200	mg/kg	0.100	ND	76.1	70-130			
1,3,5-Trimethylbenzene	0.0760	0.00200	"	0.100	0.000680	75.3	70-130			
Benzene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
Ethylbenzene	0.0747	0.00200	"	0.100	ND	74.7	70-130			
Naphthalene	0.0825	0.00380	"	0.100	ND	82.5	70-130			
Toluene	0.0768	0.00200	"	0.100	ND	76.8	70-130			
o-Xylene	0.0742	0.00200	"	0.100	ND	74.2	70-130			
m,p-Xylene	0.146	0.00400	"	0.200	ND	73.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0727 - EPA 5030 (soil)

Matrix Spike Dup (B4E0727-MSD1)	Source: Y405138-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	ND	91.5	70-130	18.4	20	
1,3,5-Trimethylbenzene	0.0910	0.00200	"	0.100	0.000680	90.3	70-130	18.0	20	
Benzene	0.0949	0.00200	"	0.100	ND	94.9	70-130	16.1	20	
Ethylbenzene	0.0896	0.00200	"	0.100	ND	89.6	70-130	18.2	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	20.1	20	QR-02
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130	16.6	20	
o-Xylene	0.0894	0.00200	"	0.100	ND	89.4	70-130	18.6	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130	18.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0801 - EPA 3550B										
Blank (B4E0801-BLK1)					Prepared: 05/08/2024 Analyzed: 05/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		90.5	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Pioneer USX Y07-08D

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 B4E0801 - EPA 3550B

LCS (B4E0801-BS1)

Prepared: 05/08/2024 Analyzed: 05/10/2024

Diesel (C10-C28)	902	50.0	mg/kg	1000		90.2	70-130			
Residual Range Organics (C28-C40)	945	200	"	1000		94.5	70-130			
Surrogate: o-Terphenyl	60		"	49.8		121	50-150			

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 330 Grand Ave. Unit C
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0801 - EPA 3550B

Matrix Spike (B4E0801-MS1)	Source: Y405140-01			Prepared: 05/08/2024 Analyzed: 05/10/2024						
Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.2	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0801 - EPA 3550B										
Matrix Spike Dup (B4E0801-MSD1)					Source: Y405140-01					Prepared: 05/08/2024 Analyzed: 05/10/2024
Diesel (C10-C28)	939	50.0	mg/kg	1000	ND	93.9	70-130	4.42	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	1.24	35	
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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 330 Grand Ave. Unit C
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0650 - EPA 3050B

Blank (B4E0650-BLK1)

Prepared: 05/06/2024 Analyzed: 05/09/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4E0650-BS1)

Prepared: 05/06/2024 Analyzed: 05/09/2024

Arsenic	4.72	0.290	mg/kg	5.00		94.5	80-120			
Barium	499	10.0	"	500		99.9	80-120			
Cadmium	5.04	0.100	"	5.00		101	80-120			
Copper	42.3	10.0	"	50.0		84.5	80-120			
Lead	5.02	1.00	"	5.00		100	80-120			
Nickel	4.61	1.00	"	5.00		92.2	80-120			
Selenium	9.13	0.260	"	9.50		96.1	80-120			
Silver	4.63	0.100	"	5.00		92.7	80-120			
Zinc	47.4	37.0	"	50.0		94.7	80-120			

Matrix Spike (B4E0650-MS1)

Source: Y405176-03

Prepared: 05/06/2024 Analyzed: 05/09/2024

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0650 - EPA 3050B

Matrix Spike (B4E0650-MS1)		Source: Y405176-03			Prepared: 05/06/2024 Analyzed: 05/09/2024					
Arsenic	7.45	0.279	mg/kg	4.80	2.82	96.5	75-125			
Barium	706	9.60	"	480	165	113	75-125			
Cadmium	4.82	0.0960	"	4.80	0.205	96.1	75-125			
Copper	55.3	9.60	"	48.0	9.12	96.1	75-125			
Lead	15.7	0.960	"	4.80	11.1	96.1	75-125			
Nickel	17.0	0.960	"	4.80	12.4	95.9	75-125			
Selenium	7.64	0.250	"	9.12	0.286	80.5	75-125			
Silver	4.34	0.0960	"	4.80	0.0947	88.4	75-125			
Zinc	86.6	35.5	"	48.0	43.4	89.9	75-125			

Matrix Spike Dup (B4E0650-MSD1)		Source: Y405176-03			Prepared: 05/06/2024 Analyzed: 05/09/2024					
Arsenic	7.74	0.271	mg/kg	4.68	2.82	105	75-125	3.83	20	
Barium	546	9.35	"	468	165	81.6	75-125	25.5	20	QR-02
Cadmium	4.68	0.0935	"	4.68	0.205	95.7	75-125	2.95	20	
Copper	53.7	9.35	"	46.8	9.12	95.3	75-125	2.92	20	
Lead	15.4	0.935	"	4.68	11.1	92.5	75-125	1.85	20	
Nickel	16.8	0.935	"	4.68	12.4	93.8	75-125	1.29	20	
Selenium	7.77	0.243	"	8.89	0.286	84.2	75-125	1.73	20	
Silver	4.16	0.0935	"	4.68	0.0947	87.0	75-125	4.24	20	
Zinc	85.7	34.6	"	46.8	43.4	90.4	75-125	1.01	20	

Origins Laboratory, Inc.



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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0734 - EPA 3580

Blank (B4E0734-BLK1)

Prepared: 05/07/2024 Analyzed: 05/09/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	170		"	200		87.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.2	60-130			

LCS (B4E0734-BS1)

Prepared: 05/07/2024 Analyzed: 05/09/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.3	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.6	70-130			
Acenaphthene	0.195	0.020	"	0.200		97.6	70-130			
Anthracene	0.191	0.020	"	0.200		95.7	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0734 - EPA 3580

LCS (B4E0734-BS1)

Prepared: 05/07/2024 Analyzed: 05/09/2024

Benzo (a) anthracene	0.187	0.005	mg/kg	0.200		93.6	70-130			
Benzo (a) pyrene	0.187	0.020	"	0.200		93.7	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.5	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200		97.4	70-130			
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.6	70-130			
Chrysene	0.188	0.020	"	0.200		93.9	70-130			
Dibenz (a,h) anthracene	0.218	0.020	"	0.200		109	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.3	70-130			
Fluorene	0.197	0.020	"	0.200		98.5	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		97.1	70-130			
Naphthalene	0.195	0.002	"	0.200		97.3	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.5	70-130			
Pyrene	0.167	0.020	"	0.200		83.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		94.6	60-130			
Surrogate: Pyrene-d10	170		"	200		85.5	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.9	60-130			

Matrix Spike (B4E0734-MS1)

Source: Y405113-01

Prepared: 05/07/2024 Analyzed: 05/09/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.001	94.0	70-130			
2-Methylnaphthalene	0.189	0.002	"	0.200	0.002	93.6	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	98.1	70-130			
Anthracene	0.196	0.020	"	0.200	0.001	97.1	70-130			
Benzo (a) anthracene	0.194	0.005	"	0.200	0.007	93.5	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200	0.011	94.1	70-130			
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.013	94.0	70-130			
Benzo (g,h,i) perylene	0.229	0.020	"	0.200	0.017	106	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0734 - EPA 3580

Matrix Spike (B4E0734-MS1)		Source: Y405113-01			Prepared: 05/07/2024 Analyzed: 05/09/2024					
Benzo (k) fluoranthene	0.185	0.020	mg/kg	0.200	0.005	90.1	70-130			
Chrysene	0.196	0.020	"	0.200	0.009	93.4	70-130			
Dibenz (a,h) anthracene	0.224	0.020	"	0.200	0.002	111	70-130			
Fluoranthene	0.225	0.020	"	0.200	0.014	106	70-130			
Fluorene	0.201	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200	0.011	99.6	70-130			
Naphthalene	0.199	0.002	"	0.200	ND	99.6	70-130			
Phenanthrene	0.192	0.020	"	0.200	0.004	94.4	70-130			
Pyrene	0.171	0.020	"	0.200	0.009	80.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Pyrene-d10	160		"	200		80.9	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

Matrix Spike Dup (B4E0734-MSD1)		Source: Y405113-01			Prepared: 05/07/2024 Analyzed: 05/09/2024					
1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	0.001	94.4	70-130	0.379	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	0.002	93.7	70-130	0.153	20	
Acenaphthene	0.196	0.020	"	0.200	ND	97.8	70-130	0.317	20	
Anthracene	0.197	0.020	"	0.200	0.001	97.5	70-130	0.398	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	0.007	92.0	70-130	1.52	20	
Benzo (a) pyrene	0.209	0.020	"	0.200	0.011	99.0	70-130	4.84	20	
Benzo (b) fluoranthene	0.202	0.020	"	0.200	0.013	94.9	70-130	0.909	20	
Benzo (g,h,i) perylene	0.239	0.020	"	0.200	0.017	111	70-130	3.88	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	0.005	98.1	70-130	8.27	20	
Chrysene	0.201	0.020	"	0.200	0.009	95.9	70-130	2.51	20	
Dibenz (a,h) anthracene	0.237	0.020	"	0.200	0.002	118	70-130	5.84	20	
Fluoranthene	0.220	0.020	"	0.200	0.014	103	70-130	2.08	20	

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0734 - EPA 3580

Matrix Spike Dup (B4E0734-MSD1)	Source: Y405113-01			Prepared: 05/07/2024 Analyzed: 05/09/2024						
Fluorene	0.199	0.020	mg/kg	0.200	ND	99.6	70-130	1.10	20	
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	0.011	103	70-130	3.52	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.7	70-130	0.893	20	
Phenanthrene	0.192	0.020	"	0.200	0.004	94.1	70-130	0.291	20	
Pyrene	0.168	0.020	"	0.200	0.009	79.3	70-130	1.68	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	160		"	200		80.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0711 - DTPA Sorbitol Preparation										
Blank (B4E0711-BLK1)					Prepared: 05/07/2024 Analyzed: 05/08/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4E0711-DUP1)		Source: Y405106-13			Prepared: 05/07/2024 Analyzed: 05/08/2024					
Boron	ND	0.100	mg/L		ND				50	
Batch B4E0712 - DTPA Sorbitol Preparation										
Blank (B4E0712-BLK1)					Prepared: 05/07/2024 Analyzed: 05/10/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4E0712-DUP1)		Source: Y405140-02			Prepared: 05/07/2024 Analyzed: 05/10/2024					
Boron	0.539	0.101	mg/L		0.515			4.60	50	
Batch B4E0716 - Saturated Paste Metals										
Blank (B4E0716-BLK1)					Prepared: 05/07/2024 Analyzed: 05/08/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4E0716-DUP1)		Source: Y405138-01			Prepared: 05/07/2024 Analyzed: 05/08/2024					
SAR	ND	0.0100	SAR		4.24				200	
Calcium PPM	111	10.0	mg/L		91.3			19.1	50	
Magnesium PPM	45.9	10.0	"		39.0			16.3	50	
Sodium PPM	200	10.0	"		192			3.96	50	

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

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 B4E0721 - Saturated Paste pH/EC

Blank (B4E0721-BLK1)

Prepared: 05/07/2024 Analyzed: 05/08/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4E0721-DUP1)

Source: Y405138-01

Prepared: 05/07/2024 Analyzed: 05/08/2024

Specific Conductance (EC)	1.43	0.00500	mmhos/cm		1.26		12.6	25	
pH	8.28		pH Units		8.31		0.362	25	

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Pioneer USX Y07-08D

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2609023 - SW846 3060A										
BLANK (1205727546-BLK)					Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	ND	0.387	mg/kg				-			U
LCS (1205727547-BKS)					Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	3.87	0.390	mg/kg	3.90		99.2	80-120			
DUP (1205727548 D)					Source: 666471001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	ND	0.263	mg/kg dry		<0.105		0-50	N/A	50	U
MS (1205727549 S)					Source: 666471001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	1.91	0.263	mg/kg dry	2.63	<0.105	71.7	75-125			
DUP (1205727550 D)					Source: 666490001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	ND	0.250	mg/kg dry		<0.100		0-50	N/A	50	U
MS (1205727551 S)					Source: 666490001 Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	2.29	0.250	mg/kg dry	2.50	<0.100	89.4	75-125			
ILCS (1205727552-ILCS)					Prepared: 05/08/2024 Analyzed: 05/09/2024					
Hexavalent Chromium	7.95	0.390	mg/kg	7.83		102	80-120			

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Pioneer USX Y07-08D

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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