

FREMONT ENVIRONMENTAL INC.

April 16, 2021

Mr. Jason Davidson
Great Western Operating Company, LLC
1001 17th Street, Suite 2000
Denver, CO 80202

Subject: **Wellhead Closure Data Submittal**
Heinze 31-44 Wellhead
API #05-123-24929
SESE Sec 31, T7N, R63W
Weld County, Colorado
Fremont Project No. C021-016
Remediation #16818

Dear Mr. Davidson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities at the Heinze 31-44 wellhead. Removal of the associated flow line was postponed until the Fall of 2021 so the landowner could complete the crop harvest.

Since the soil concentrations for the sample collected adjacent to the wellhead meet the relevant Table 915-1 standards, no additional site investigation or remediation is required at this site.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,
FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Attachments:
Wellhead Checklist
Table
Figures
Photos
Laboratory Report

1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

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: Heinze 31-44		Date: 04/06/2021					Remediation Project #: 16818		
Associated Wells: 05-123-24929		Age of Site: Spud 2008					Number of Photos Attached: 4		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.52487/-104.47231							Estimated Facility Size (acres): 0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition, no housekeeping issues, wellhead surrounded by alfalfa field									
USCS Soil Type: Silty sand				Estimated Depth to Groundwater: 114 ft in adjacent well in 1998					
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	05-123-24929								
Age	spud 2008								
Condition of surface around wellhead	No issues								
PID Readings	0 ppm								
Condition of subsurface (staining present)	No staining								
PID Readings	max PID = 38 ppm								
Sample taken? Location/Sample ID#	Floor sample at 6 ft								
Photo Number(s)	#1 to #4								
Other observations regarding wellheads: None									
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: 38 ppm				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="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: NA				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered: NA				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:									

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
HEINZE 31-44, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C021-016

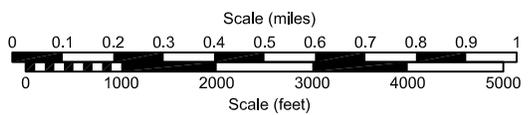
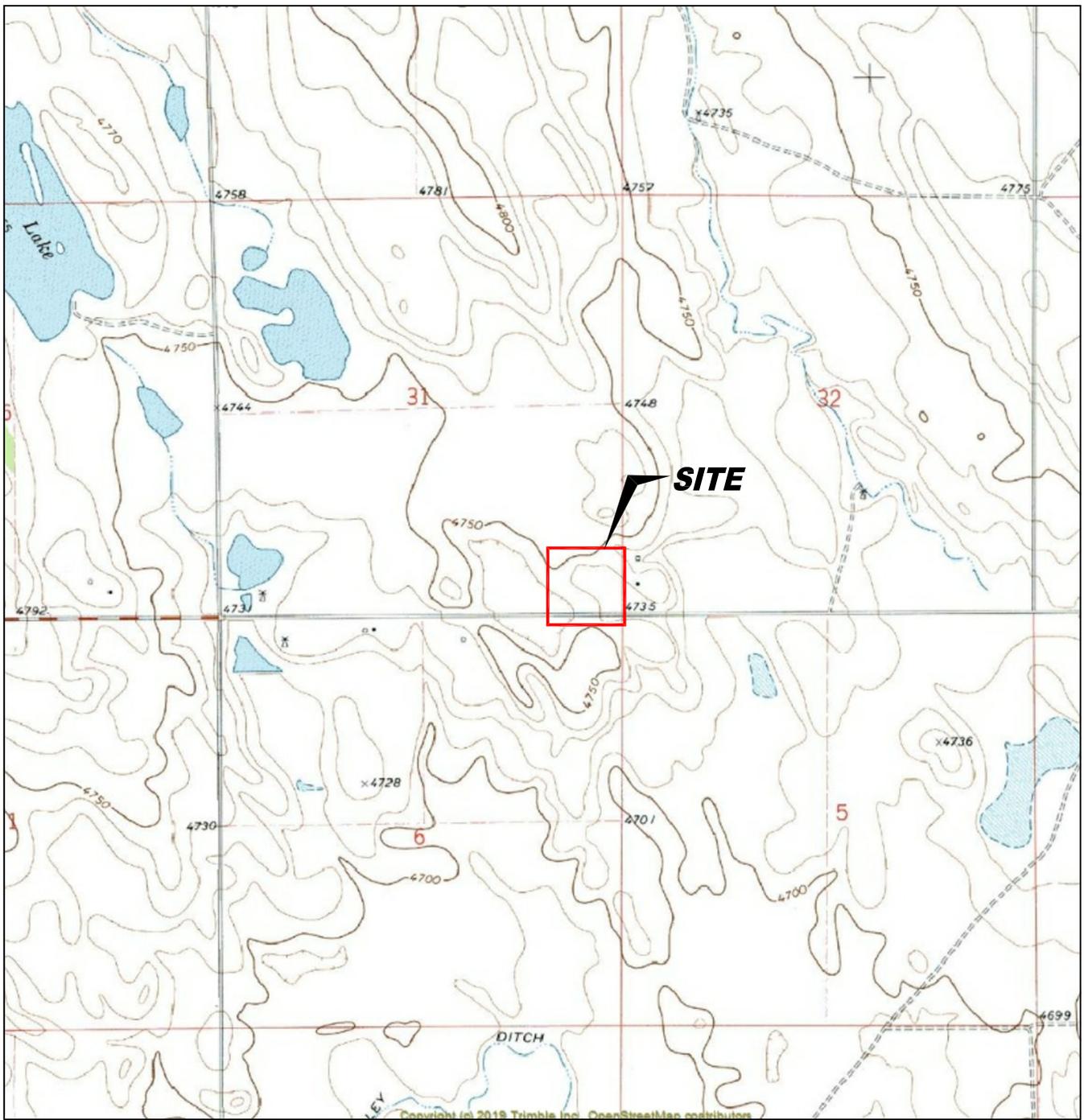
Sample	Depth (ft)	Date Sampled	PID (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
N Wall 4 Ft	4	4/6/2021	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S Wall 4 Ft	4	4/6/2021	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E Wall 4 Ft	4	4/6/2021	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W Wall 4 Ft	4	4/6/2021	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Floor 6 Ft	6	4/6/2021	38	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.0038	7.21	206	<200
COGCC Table 915-1 Limits (Residential SSL)				1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)				0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500*	500*	500*

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed



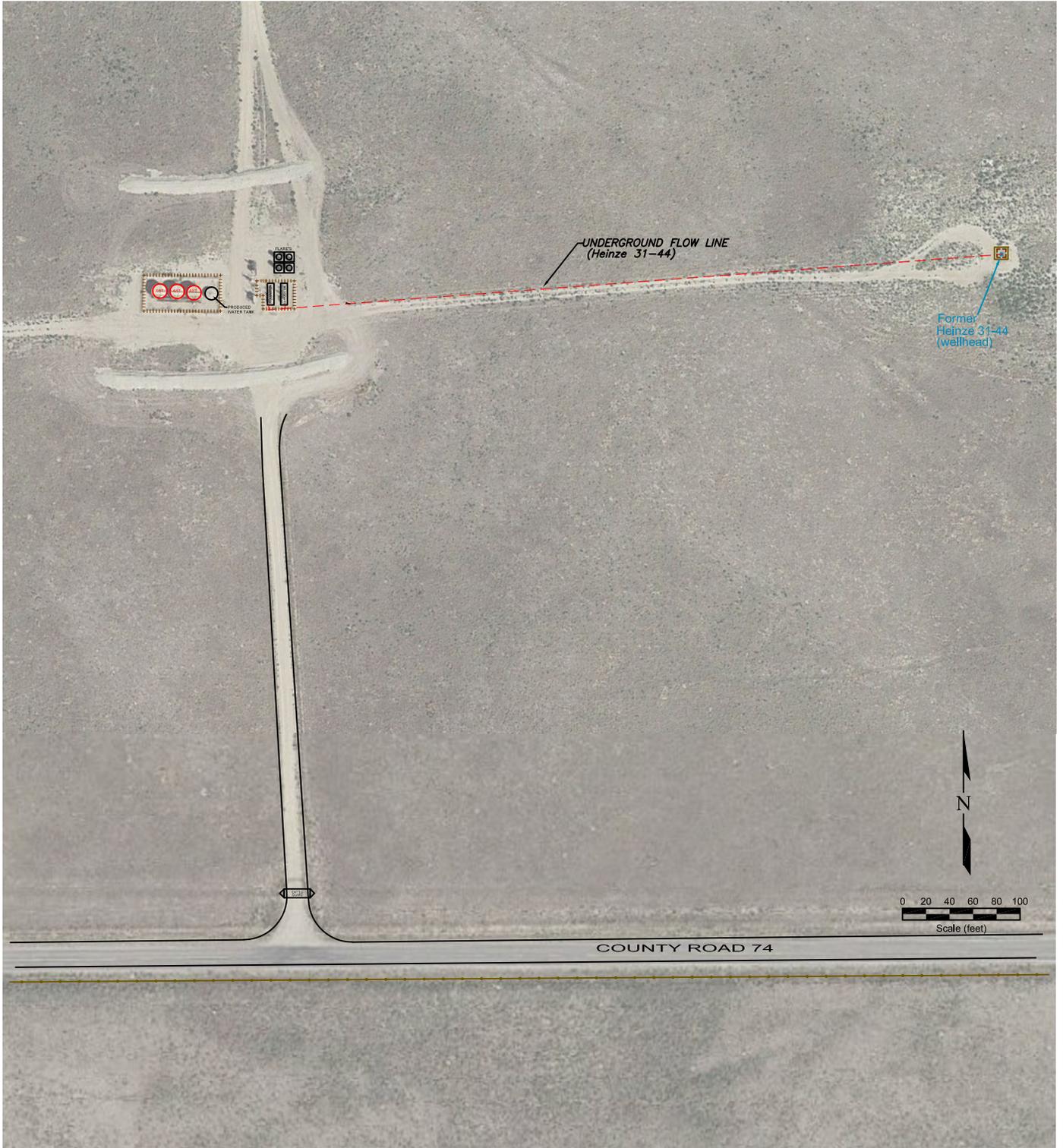
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Great Western Operating Company
Heinze 31-44 Wellhead & Flow Line
SESE Sec. 31, T7N, R63W 6th PM
Weld County, Colorado

Project Number C021-016	API Number 05-123-24929	Facility ID 289847
Date 4/16/21	Reviewed by PH	Filename 21016T





LEGEND

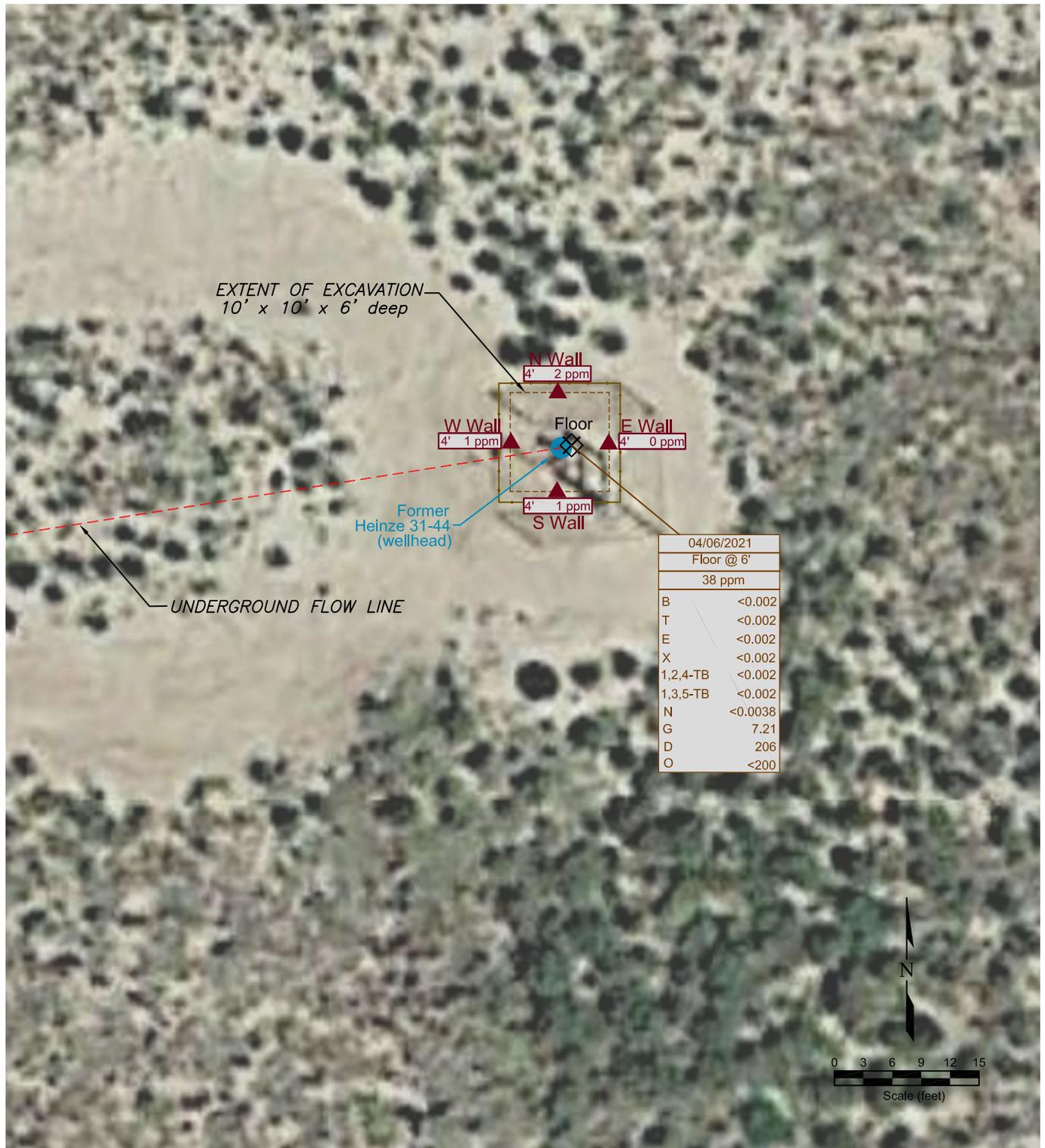
-  WELLHEAD LOCATION
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY
-  FENCE LINE
-  CONTAINMENT BERM
-  CONTAINMENT WALL
-  EXTENT OF EXCAVATION
-  UNDERGROUND FLOW LINE

Figure 2
SITE MAP

Great Western Operating Company
Heinze 31-44 Wellhead & Flow Line
 SESE Sec. 31, T7N, R63W 6th PM
 Weld County, Colorado

Project Number C021-016	API Number 05-123-24929	Facility ID 289847
Date 4/16/21	Reviewed by PH	Filename 21016Q





04/06/2021	
Floor @ 6'	
38 ppm	
B	<0.002
T	<0.002
E	<0.002
X	<0.002
1,2,4-TB	<0.002
1,3,5-TB	<0.002
N	<0.0038
G	7.21
D	206
O	<200



LEGEND

●	WELLHEAD LOCATION	04/06/2021	DATE SAMPLED
⊠	SOIL SAMPLE LOCATION	Floor @ 6'	SAMPLE ID and DEPTH (ft)
▲	PID READING LOCATION	38 ppm	PHOTO IONIZATION DETECTION (ppm)
—	FENCELINE	B <0.002	BENZENE (mg/kg)
- - -	EXTENT OF EXCAVATION	T <0.002	TOLUENE (mg/kg)
- - -	UNDERGROUND FLOW LINE	E <0.002	ETHYLBENZENE (mg/kg)
4' 2 ppm	SAMPLE DEPTH (ft)	X <0.002	TOTAL XYLENES (mg/kg)
	PID READING (ppm)	1,2,4-TB <0.002	1,2,4-TRIMETHYLBENZENE (mg/kg)
		1,3,5-TB <0.002	1,3,5-TRIMETHYLBENZENE (mg/kg)
		N <0.0038	NAPHTHALENE (mg/kg)
		G 7.21	TPH-GRO (mg/kg)
		D 206	TPH-DRO (mg/kg)
		O <200	TPH-ORO (mg/kg)

(ppm) = parts per million

Figure 3
SOIL CHEMISTRY WITH PID READINGS MAP
 April 6, 2021
Great Western Operating Company
Heinze 31-44 Wellhead & Flow Line
 SESE Sec. 31, T7N, R63W 6th PM
 Weld County, Colorado

Project Number C021-016	API Number 05-123-24929	Facility ID 289847
Date 4/16/21	Reviewed by PH	Filename 21016QQ





#1- Looking East at Heinze 31-44 Wellhead After Cutting and Capping



#2 - Looking South at Heinze 31-44



#3 - Looking West at Heinze 31-44



#4 - Looking North at Heinze 31-44



April 13, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - Heinze 31-44

Project Number - [none]

Attached are your analytical results for GWOC - Heinze 31-44 received by Origins Laboratory, Inc. April 07, 2021. This project is associated with Origins project number Y104111-01.

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

Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: [none]
Project: GWOC - Heinze 31-44

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wellhead Floor 6ft	Y104111-01	Soil	April 6, 2021 0:00	04/07/2021 10:00

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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

Sample Receipt Checklist

Origins Work Order: Y104111 Client: Fremont
 Client Project ID: Heinze 31-44

Checklist Completed by: JG Shipped Via: LD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 4/7/21 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.6 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T003

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"/>		No sample time
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

Reviewed by Jm (Project Manager) Date/Time Reviewed 4-8-21

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

Wellhead Floor 6ft
4/6/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104111-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	206	50.0	mg/kg	1	B1D0819	KDK	04/08/2021	04/09/2021	
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: *o*-Terphenyl 72.8 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1D0703	TEM	04/07/2021	04/07/2021	U
Naphthalene	ND	0.00380	"	"	"	TEM	"	"	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	TEM	"	"	U
Toluene	ND	0.00200	"	"	"	TEM	"	"	U
Gasoline Range Hydrocarbons	7.21	0.200	"	"	"	TEM	"	"	
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 93.5 % 70-130 " " "
 Surrogate: Toluene-d8 112 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)

Blank (B1D0703-BLK1)

Prepared: 04/07/2021 Analyzed: 04/07/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	87.6		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	113		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.4		70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)

LCS (B1D0703-BS1)

Prepared: 04/07/2021 Analyzed: 04/07/2021

1,2,4-Trimethylbenzene	0.0590	0.00200	mg/kg	0.0500		118	70-130			
Naphthalene	0.0537	0.0100	"	0.0500		107	70-130			
1,3,5-Trimethylbenzene	0.0579	0.00200	"	0.0500		116	70-130			
Benzene	0.0410	0.00200	"	0.0500		81.9	70-130			
Ethylbenzene	0.0570	0.00200	"	0.0500		114	70-130			
m,p-Xylene	0.113	0.00400	"	0.100		113	70-130			
o-Xylene	0.0571	0.00200	"	0.0500		114	70-130			
Toluene	0.0517	0.00200	"	0.0500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.6	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)

Matrix Spike (B1D0703-MS1)	Source: Y104111-01			Prepared: 04/07/2021 Analyzed: 04/07/2021						
1,2,4-Trimethylbenzene	0.0661	0.00200	mg/kg	0.0500	0.000480	131	70-130			QM-07
Naphthalene	0.0663	0.0100	"	0.0500	0.00322	126	70-130			
1,3,5-Trimethylbenzene	0.0655	0.00200	"	0.0500	0.000440	130	70-130			
Benzene	0.0472	0.00200	"	0.0500	ND	94.4	70-130			
Ethylbenzene	0.0659	0.00200	"	0.0500	ND	132	70-130			QM-07
m,p-Xylene	0.130	0.00400	"	0.100	ND	130	70-130			
o-Xylene	0.0670	0.00200	"	0.0500	ND	134	70-130			QM-07
Toluene	0.0584	0.00200	"	0.0500	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0703 - EPA 5030 (soil)

Matrix Spike Dup (B1D0703-MSD1)	Source: Y104111-01			Prepared: 04/07/2021 Analyzed: 04/07/2021						
1,2,4-Trimethylbenzene	0.0681	0.00200	mg/kg	0.0500	0.000480	135	70-130	3.01	20	QM-07
Naphthalene	0.0700	0.0100	"	0.0500	0.00322	134	70-130	5.43	20	QM-07
1,3,5-Trimethylbenzene	0.0673	0.00200	"	0.0500	0.000440	134	70-130	2.68	20	QM-07
Benzene	0.0494	0.00200	"	0.0500	ND	98.7	70-130	4.47	20	
Ethylbenzene	0.0674	0.00200	"	0.0500	ND	135	70-130	2.25	20	QM-07
m,p-Xylene	0.134	0.00400	"	0.100	ND	134	70-130	2.64	20	QM-07
o-Xylene	0.0684	0.00200	"	0.0500	ND	137	70-130	2.04	20	QM-07
Toluene	0.0599	0.00200	"	0.0500	ND	120	70-130	2.47	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.7	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B										
Blank (B1D0819-BLK1)										
					Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	25.0		73.7	50-150			

Origins Laboratory, Inc.



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Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B

LCS (B1D0819-BS1)

Prepared: 04/08/2021 Analyzed: 04/08/2021

Diesel (C10-C28)	891	50.0	mg/kg	1000		89.1	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000		92.3	70-130			
Surrogate: o-Terphenyl	40		"	50.0		79.9	50-150			

Origins Laboratory, Inc.



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 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B										
Matrix Spike (B1D0819-MS1)		Source: Y104134-05			Prepared: 04/08/2021 Analyzed: 04/08/2021					
Diesel (C10-C28)	1730	50.0	mg/kg	1000	1200	53.1	70-130			QM-07
Residual Range Organics (C28-C40)	1130	200	"	1000	241	88.7	70-130			
Surrogate: o-Terphenyl	37		"	50.0		74.5	50-150			

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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.

Fremont Environmental
 8305 6th St, PO Box 1289
 Wellington CO 80549

Paul Henehan
 Project Number: [none]
 Project: GWOC - Heinze 31-44

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 B1D0819 - EPA 3550B

Matrix Spike Dup (B1D0819-MSD1)	Source: Y104134-05			Prepared: 04/08/2021 Analyzed: 04/08/2021						
Diesel (C10-C28)	1850	50.0	mg/kg	1000	1200	65.0	70-130	6.64	35	QM-07
Residual Range Organics (C28-C40)	1160	200	"	1000	241	91.6	70-130	2.51	35	
Surrogate: o-Terphenyl	39		"	50.0		77.2	50-150			

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Paul Henehan
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Project: GWOC - Heinze 31-44

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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Jen Pellegrini For Noelle Doyle Mathis, President