

FREMONT ENVIRONMENTAL INC.

April 20, 2021

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

Subject: **Wellhead and Flow Line Closure Data Submittal**
Dilka 22-6 Wellhead and Flow Line
API #05-123-23784
SENE Sec 6, T6N, R63W
Weld County, Colorado
Fremont Project No. C021-017
Remediation #16834

Dear Mr. Davidson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities at the Dilka 22-6 wellhead and flow line. The separator and tank battery remain in service for other wells in this area.

Since the soil concentrations for the samples collected adjacent to the wellhead and flow line meet the COGCC's Residential Table 915-1 soil screening levels, 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 and Flow Line Checklists
Tables
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	<input checked="" type="checkbox"/>	Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: Dilka 22-6, 305987		Date: 03/31/2021				Remediation Project #: 16834			
Associated Wells: 05-123-23784		Age of Site: spud 2006				Number of Photos Attached: 10			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.51698/-104.48167						Estimated Facility Size (acres): <1 ac.			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition, no indication of any issues									
USCS Soil Type: Silty fine sand					Estimated Depth to Groundwater: >20 feet				
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	05-123-23784								
Age	2006								
Condition of surface around wellhead	Clean								
PID Readings	0 ppm								
Condition of subsurface (staining present)	Clean								
PID Readings	max 8 ppm								
Sample taken? Location/Sample ID#	Yes, Floor @ 6 ft Y104008-01								
Photo Number(s)	#2, 7 and 8								
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: 8 ppm					Total number of samples submitted to lab for analysis: 1				
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent: NA					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:					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:									

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure	<input checked="" type="checkbox"/>	Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Dilka 22-6, #305987		Date: 03/31/2021			Remediation Project #: 16834			
Associated Wells: 05-123-23784		Age of Site: 2006			Number of Photos Attached: 10			
Starting point: (GPS coordinates and descriptions) Wellhead: 40.51698/-104.48167								
End point: (GPS coordinates and descriptions) Separator: 40.51908/-104.47982								
USCS Soil Type: Silty fine sand					Estimated Depth to Groundwater: >20 ft			
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								
Flowlines								
Flowline type	2" Steel							
Depth	4 ft							
Age	2006							
Length	996 ft							
Construction Material	Steel							
Were flowlines pulled?	Yes							
Visual Integrity of lines	Good condition							
Visual impacts if trenched	No impacts							
PID Readings if trenched	0 ppm							
Sample taken? Location/Sample ID#	Yes at separator Y104008-02							
Photo Number(s)	#3,4, 5, 6, 8, 9 and 10							
Other observations regarding on location flowlines: 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: 7					Total number of samples collected: 7			
Highest PID Reading: 0 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:					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:								

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
GREAT WESTERN OPERATING COMPANY
DILKA 22-6, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C021-017

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	3/31/2021	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S Wall 4 Ft	4	3/31/2021	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E Wall 4 Ft	4	3/31/2021	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
W Wall 4 Ft	4	3/31/2021	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Floor 6 Ft	6	3/31/2021	8	<0.002	0.0026	0.00346	0.0276	0.0238	0.00636	<0.0038	0.32	90.2	373
Separator 0.2 Ft	0.2	3/31/2021	0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.20	<50.0	<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

TABLE 2
SUMMARY OF FIELD OBSERVATIONS
GREAT WESTERN OPERATING COMPANY, LLC
DILKA 22-6, WELD COUNTY, COLORADO
FREMONT PROJECT C021-017

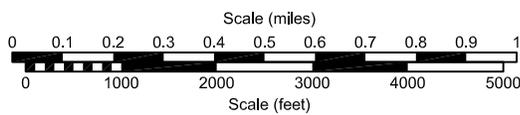
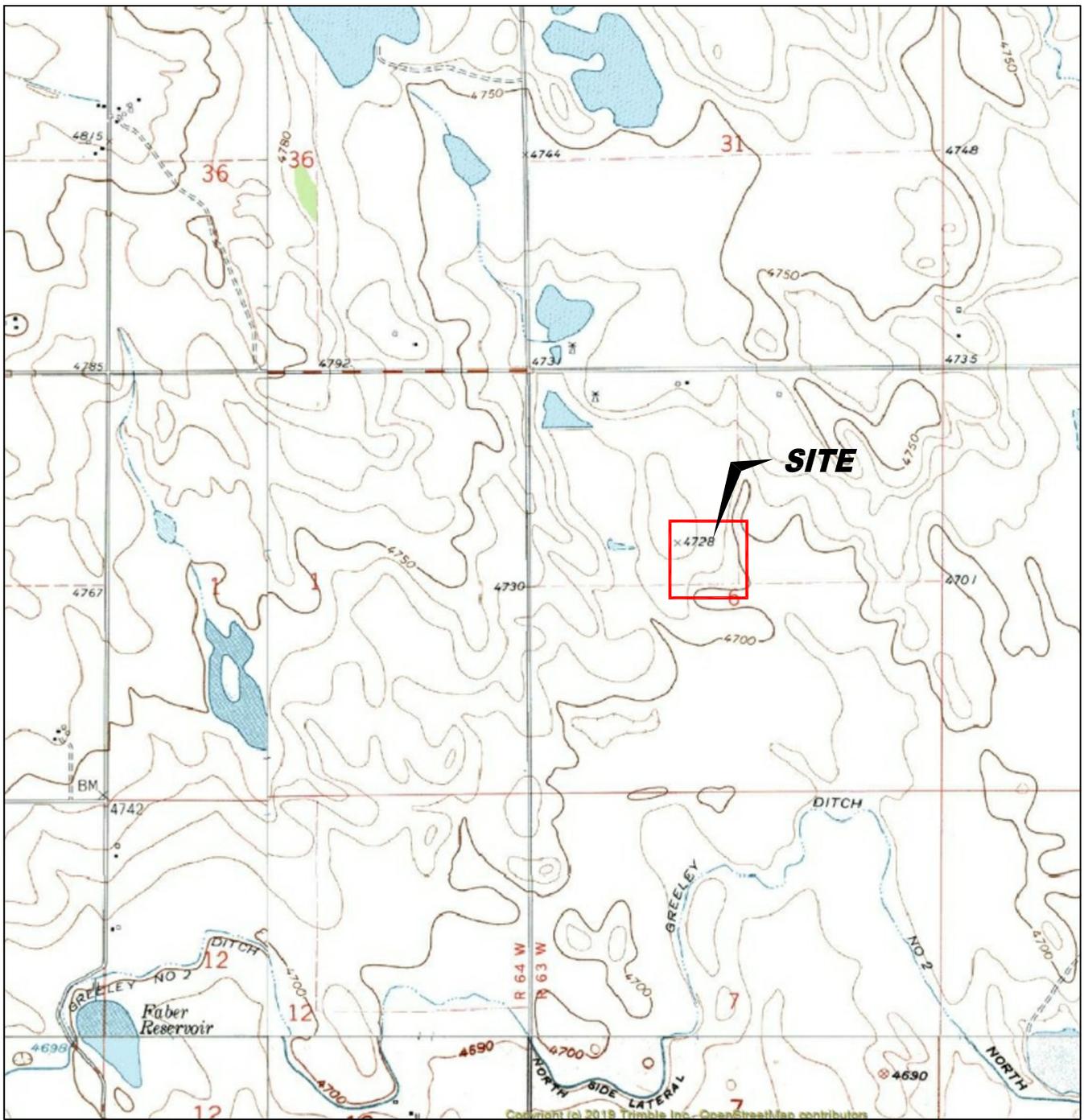
Location	Latitude	Longitude	PID Reading	Field Observations
Wellhead	40.51698	104.48167	8	Silty fine sand, moist, no impacts
Pothole - B	40.51752	104.48125	0	No soil impacts
Pothole - A	40.51801	104.48078	0	No soil impacts
Pothole - C	40.51863	104.48025	0	No soil impacts
Trench 1	NM	NM	0	No soil impacts, hard soil, forced to open trench to remove
Trench 2	NM	NM	0	No soil impacts, hard soil, forced to open trench to remove
Trench 3	NM	NM	0	No soil impacts, hard soil, forced to open trench to remove
Separator	40.51908	104.47982	0	No soil impacts, hard soil, forced to open trench to remove

NM - Not measured

TABLE 3
SUMMARY OF FLOW LINE CONDITION
GREAT WESTERN OPERATING COMPANY, LLC
DILKA 22-6 #6, WELD COUNTY, COLORADO
FREMONT PROJECT C021-017

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
Wellhead	Pothole B	256	2" Sch 40 welded steel pipe, TGF coating, good condition
Pothole - B	Pothole - A	256	2" Sch 40 welded steel pipe, TGF coating, good condition
Pothole - A	Pothole - C	274	2" Sch 40 welded steel pipe, TGF coating, good condition
Pothole - C	Trench 1	50	2" Sch 40 welded steel pipe, TGF coating, good condition
Trench 1	Trench 2	55	2" Sch 40 welded steel pipe, TGF coating, good condition
Trench 2	Trench 3	55	2" Sch 40 welded steel pipe, TGF coating, good condition
Trench 3	Separator	50	2" Sch 40 welded steel pipe, TGF coating, good condition

996 Total linear feet of flow line



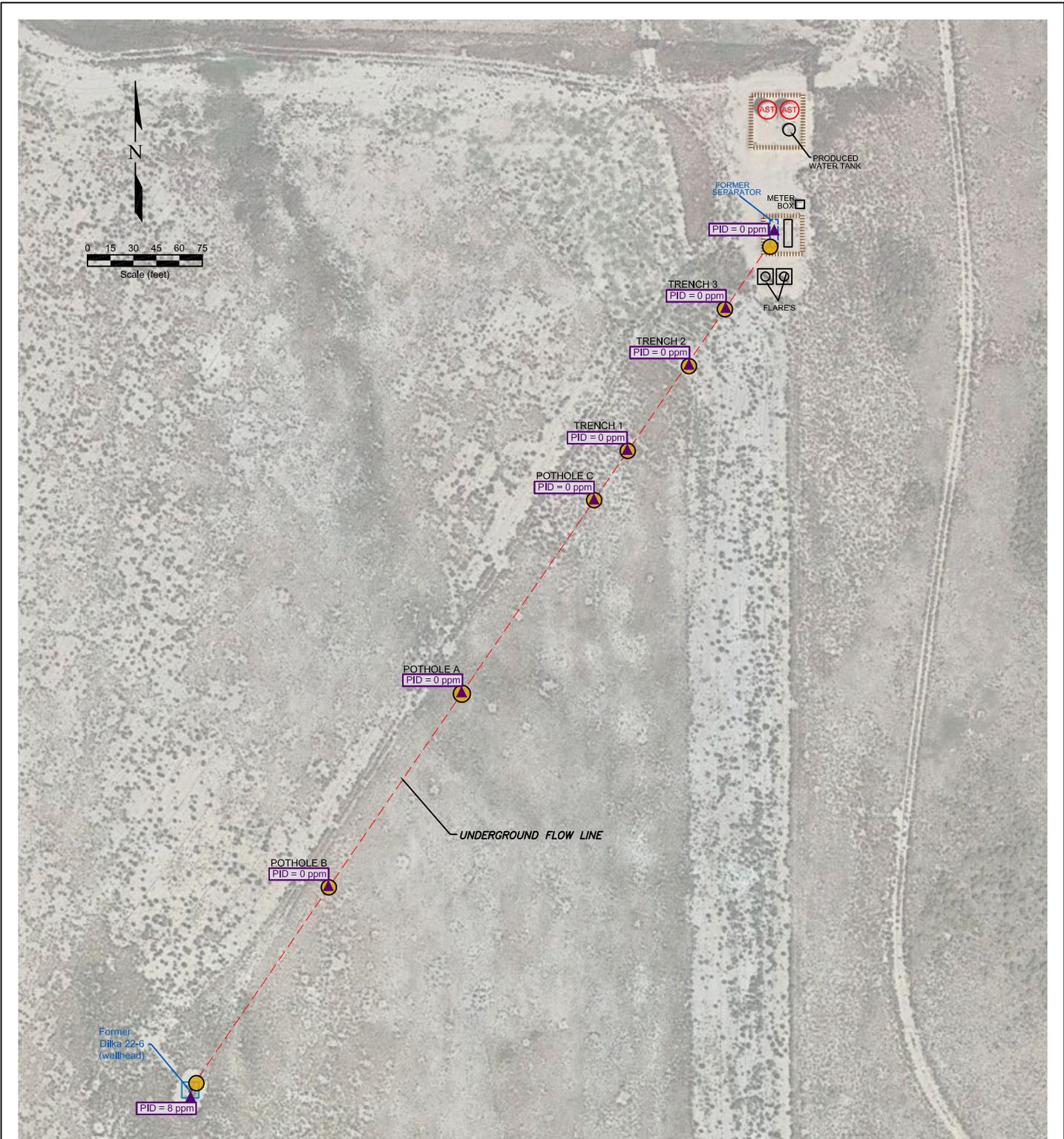
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Great Western Operating Company
Dilka 22-6 Wellhead and Flow Line
SENW Sec. 6, T6N, R63W 6th PM
Weld County, Colorado

Project Number C021-017	API Number 05-123-23784	Drawn By TA
Date 4/19/21	Reviewed by PH	Filename 21017T





LEGEND

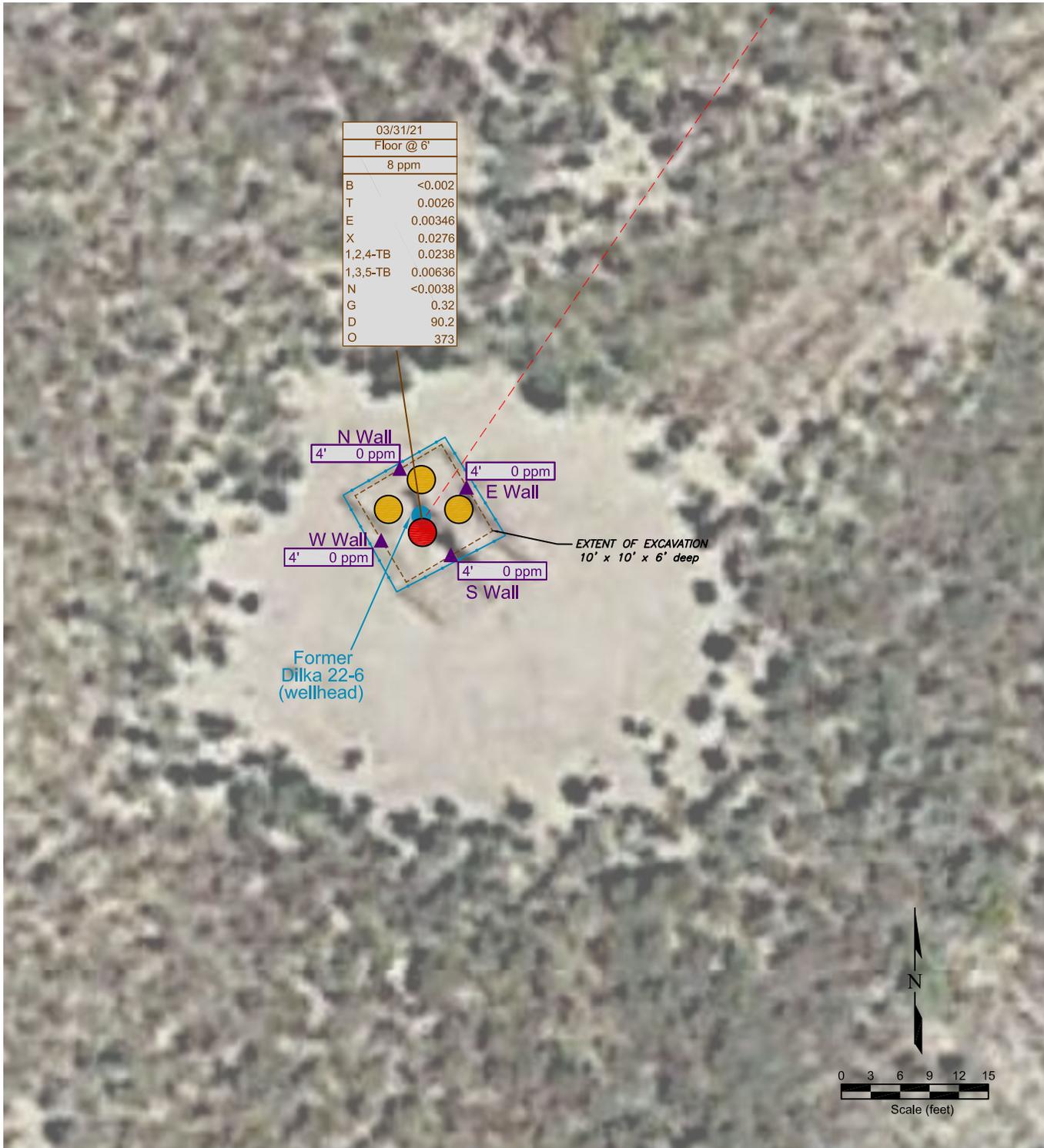
- WELLHEAD LOCATION
 - ▲ PID READING LOCATION
 - SOIL FIELD SCREENING SAMPLE LOCATION
 - PID = 8 ppm PID READING (ppm)
 - ABOVE GROUND STORAGE TANK
 - FORMER FORMER FACILITY
 - FENCE LINE
 - CONTAINMENT BERM
 - UNDERGROUND FLOW LINE
- PID = Photo Ionization Detection / ppm = parts per million

**Figure 2
SITE MAP**

**Great Western Operating Company
Dilka 22-6 Wellhead and Flow Line
SENW Sec. 6, T6N, R63W 6th PM
Weld County, Colorado**

Project Number C021-017	API Number 05-123-23784	Drawn By TA
Date 4/20/21	Reviewed by PH	Filename 21017Q





LEGEND

- ▲ PID READING LOCATION
- WELLHEAD LOCATION
- SOIL FIELD SCREENING SAMPLE LOCATION
- CONFIRMATION SOIL SAMPLE FOR LABORATORY ANALYSIS
- FENCELINE
- - - EXTENT OF EXCAVATION
- - - UNDERGROUND FLOWLINE
- FORMER FORMER FACILITY
- 4' 0 ppm PID READING (ppm)
- SAMPLE DEPTH (ft)

03/31/21	
DATE SAMPLED	
Floor @ 6'	
SAMPLE ID and DEPTH (ft)	
8 ppm	
PHOTO IONIZATION DETECTION (ppm)	
B	<0.002
BENZENE (mg/kg)	
T	0.0026
TOLUENE (mg/kg)	
E	0.00346
ETHYLBENZENE (mg/kg)	
X	0.0276
TOTAL XYLENES (mg/kg)	
1,2,4-TB	0.0238
1,2,4-TRIMETHYLBENZENE (mg/kg)	
1,3,5-TB	0.00636
1,3,5-TRIMETHYLBENZENE (mg/kg)	
N	<0.0038
NAPHTHALENE (mg/kg)	
G	0.32
TPH-GRO (mg/kg)	
D	90.2
TPH-DRO (mg/kg)	
O	373
TPH-ORO (mg/kg)	

PID = Photo Ionization Detection / ppm = parts per million

**Figure 3
SOIL SAMPLE LOCATIONS**

**Great Western Operating Company
Dilka 22-6 Wellhead and Flow Line
SEW Sec. 6, T6N, R63W 6th PM
Weld County, Colorado**

Project No. C021-017	Prepared by 05-123-23784	Drawn by TA
Date 4/19/21	Reviewed by PH	Filename 21017QQ





03/31/21	
Separator @ 0.2'	
0 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	<0.01
G	<0.20
D	<50.0
O	<200

LEGEND

- SOIL FIELD SCREENING SAMPLE LOCATION
- CONFIRMATION SOIL SAMPLE FOR LABORATORY ANALYSIS
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- FENCE LINE
- CONTAINMENT BERM
- UNDERGROUND FLOWLINE

03/31/21	
Separator @ 0.2'	
0 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	<0.01
G	<0.20
D	<50.0
O	<200

DATE SAMPLED	
SAMPLE ID and DEPTH (ft)	
PHOTO IONIZATION DETECTION (ppm)	
B	BENZENE (mg/kg)
T	TOLUENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
1,2,4-TB	1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TB	1,3,5-TRIMETHYLBENZENE (mg/kg)
N	NAPHTHALENE (mg/kg)
G	TPH-GRO (mg/kg)
D	TPH-DRO (mg/kg)
O	TPH-ORO (mg/kg)

(ppm) = parts per million

**Figure 4
SOIL SAMPLE LOCATIONS**

**Great Western Operating Company
Dilka 22-6 Wellhead and Flow Line
SENW Sec. 6, T6N, R63W 6th PM
Weld County, Colorado**

Project No. C021-017	API # 05-123-23784	Drawn by TA
Date 4/20/21	Reviewed by PH	Filename 21017QQQ





#1 - Dilka 22-6 Wellhead and Flowline Removal



#2 - Wellhead Prior to Cut & Cap. Soil Samples have been collected.



#3 - Looking Northeast at Pothole B as Pipe is Being Pulled Out.



#4 - 2-inch pipe was in good condition. Coating was TGF on ~Sch 40 steel pipe.



#5 - Looking Southwest at Pothole-A



#6 - Length of 2-inch Steel Pipe, No Failures Observed



#7 - Wellhead with Identifying Plate; No Soil Impacts Observed



#8 - Looking Southwest at Pothole-B, No Soil Impacts Observed



#9 - Looking Southwest at the Open Trench used for Pipe Removal



#10 - Looking Southwest at Open Trench



April 08, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - Dilka 22-6

Project Number - C021-017

Attached are your analytical results for GWOC - Dilka 22-6 received by Origins Laboratory, Inc. April 01, 2021. This project is associated with Origins project number Y104008-01.

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: C021-017
Project: GWOC - Dilka 22-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wellhead Floor 6ft	Y104008-01	Soil	March 31, 2021 0:00	04/01/2021 09:50
Separator 0.2ft	Y104008-02	Soil	March 31, 2021 0:00	04/01/2021 09:50

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.

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

Paul Henehan
 Project Number: C021-017
 Project: GWOC - Dilka 22-6

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

Sample Receipt Checklist

Origins Work Order: Y104008 Client: Fremont
 Client Project ID: Dilka 22-6

Checklist Completed by: JG Shipped Via: HA
 Date/Time Completed: 4/11/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 2.4 °C °C °C (Describe) _____
 Thermometer ID: 1003

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"/>		Missing sample times and date
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 NC, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.


 Reviewed by (Project Manager) 4/12/21
Date/Time Reviewed

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.

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

Paul Henehan
 Project Number: C021-017
 Project: GWOC - Dilka 22-6

Wellhead Floor 6ft
3/31/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104008-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	90.2	50.0	mg/kg	1	B1D0118	KDK	04/01/2021	04/01/2021	
Residual Range Organics (C28-C40)	373	200	"	"	"	KDK	"	"	

Surrogate: *o*-Terphenyl 80.7 % 50-150 " " "

GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0238	0.00200	mg/kg	1	B1D0117	TEM	04/01/2021	04/01/2021	
Naphthalene	ND	0.0100	"	"	"	TEM	"	"	U
1,3,5-Trimethylbenzene	0.00636	0.00200	"	"	"	TEM	"	"	
Benzene	ND	0.00200	"	"	"	TEM	"	"	U
Ethylbenzene	0.00346	0.00200	"	"	"	TEM	"	"	
Toluene	0.00260	0.00200	"	"	"	TEM	"	"	
Gasoline Range Hydrocarbons	0.324	0.200	"	"	"	TEM	"	"	
Xylenes, total	0.0276	0.00200	"	"	"	TEM	"	"	

Surrogate: 1,2-Dichloroethane-d4 84.9 % 70-130 " " "
 Surrogate: Toluene-d8 105 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 112 % 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.

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

Paul Henehan
 Project Number: C021-017
 Project: GWOC - Dilka 22-6

Separator 0.2ft
3/31/2021 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y104008-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1D0118	KDK	04/01/2021	04/01/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	KDK	"	"	U

Surrogate: <i>o</i> -Terphenyl	84.7 %	50-150			"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1D0117	TEM	04/01/2021	04/01/2021	U
Naphthalene	ND	0.0100	"	"	"	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	ND	0.200	"	"	"	TEM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	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: C021-017
 Project: GWOC - Dilka 22-6

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 B1D0117 - EPA 5030 (soil)

Blank (B1D0117-BLK1)

Prepared: 04/01/2021 Analyzed: 04/01/2021

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	91.6		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.4		70-130			

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

Paul Henehan
 Project Number: C021-017
 Project: GWOC - Dilka 22-6

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 B1D0117 - EPA 5030 (soil)

LCS (B1D0117-BS1)

Prepared: 04/01/2021 Analyzed: 04/01/2021

1,2,4-Trimethylbenzene	0.0549	0.00200	mg/kg	0.0500		110	70-130			
Naphthalene	0.0505	0.0100	"	0.0500		101	70-130			
1,3,5-Trimethylbenzene	0.0532	0.00200	"	0.0500		106	70-130			
Benzene	0.0493	0.00200	"	0.0500		98.6	70-130			
Ethylbenzene	0.0512	0.00200	"	0.0500		102	70-130			
m,p-Xylene	0.104	0.00400	"	0.100		104	70-130			
o-Xylene	0.0520	0.00200	"	0.0500		104	70-130			
Toluene	0.0491	0.00200	"	0.0500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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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 B1D0117 - EPA 5030 (soil)

Matrix Spike (B1D0117-MS1)	Source: Y104008-01			Prepared: 04/01/2021 Analyzed: 04/01/2021						
1,2,4-Trimethylbenzene	0.0707	0.00200	mg/kg	0.0500	0.0238	93.9	70-130			
Naphthalene	0.0354	0.0100	"	0.0500	0.00480	61.2	70-130			QM-07
1,3,5-Trimethylbenzene	0.0479	0.00200	"	0.0500	0.00636	83.0	70-130			
Benzene	0.0503	0.00200	"	0.0500	ND	101	70-130			
Ethylbenzene	0.0574	0.00200	"	0.0500	0.00346	108	70-130			
m,p-Xylene	0.123	0.00400	"	0.100	0.0166	107	70-130			
o-Xylene	0.0659	0.00200	"	0.0500	0.0110	110	70-130			
Toluene	0.0526	0.00200	"	0.0500	0.00260	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

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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 B1D0117 - EPA 5030 (soil)

Matrix Spike Dup (B1D0117-MSD1)	Source: Y104008-01			Prepared: 04/01/2021 Analyzed: 04/01/2021						
1,2,4-Trimethylbenzene	0.0718	0.00200	mg/kg	0.0500	0.0238	96.0	70-130	1.49	20	
Naphthalene	0.0361	0.0100	"	0.0500	0.00480	62.7	70-130	2.13	20	QM-07
1,3,5-Trimethylbenzene	0.0482	0.00200	"	0.0500	0.00636	83.7	70-130	0.749	20	
Benzene	0.0512	0.00200	"	0.0500	ND	102	70-130	1.81	20	
Ethylbenzene	0.0579	0.00200	"	0.0500	0.00346	109	70-130	0.902	20	
m,p-Xylene	0.125	0.00400	"	0.100	0.0166	108	70-130	0.952	20	
o-Xylene	0.0670	0.00200	"	0.0500	0.0110	112	70-130	1.66	20	
Toluene	0.0522	0.00200	"	0.0500	0.00260	99.1	70-130	0.840	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

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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 B1D0118 - EPA 3550B										
Blank (B1D0118-BLK1)										
					Prepared: 04/01/2021 Analyzed: 04/01/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		83.5	50-150			

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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 B1D0118 - EPA 3550B

LCS (B1D0118-BS1)

Prepared: 04/01/2021 Analyzed: 04/01/2021

Diesel (C10-C28)	794	50.0	mg/kg	1000		79.4	70-130			
Residual Range Organics (C28-C40)	809	200	"	1000		80.9	70-130			
Surrogate: o-Terphenyl	43		"	50.0		86.1	50-150			

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Paul Henehan
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 Project: GWOC - Dilka 22-6

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 B1D0118 - EPA 3550B

Matrix Spike (B1D0118-MS1)	Source: Y104008-01			Prepared: 04/01/2021 Analyzed: 04/01/2021						
Diesel (C10-C28)	728	50.0	mg/kg	1000	90.2	63.8	70-130			QM-07
Residual Range Organics (C28-C40)	980	200	"	1000	373	60.7	70-130			QM-07
Surrogate: o-Terphenyl	35		"	50.0		70.9	50-150			

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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 B1D0118 - EPA 3550B

Matrix Spike Dup (B1D0118-MSD1)	Source: Y104008-01			Prepared: 04/01/2021 Analyzed: 04/01/2021						
Diesel (C10-C28)	715	50.0	mg/kg	1000	90.2	62.5	70-130	1.83	35	QM-07
Residual Range Organics (C28-C40)	983	200	"	1000	373	61.0	70-130	0.303	35	QM-07
Surrogate: o-Terphenyl	36		"	50.0		72.0	50-150			

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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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