

FREMONT ENVIRONMENTAL INC.

January 19, 2023

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Groundwater Data Submittal**
Harper Kona Pipeline
NESW Sec 21, T6N, R64W
Weld County, Colorado
Fremont Project No. C021-074
Facility #480529, Remediation # 20790

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the Harper Kona Pipeline site in Weld County, Colorado. The enclosed data describes the groundwater quality at the site during the recent quarterly sampling and monitoring event.

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.



Ethan Black, P.G.
Consultant

Enclosure

TABLE 1
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
HARPER KONA PIPELINE, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C021-074

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH-THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)	TOC ELEV (FT)	DTW (FT)	GW ELEV (FT)	LNAPL (FT)
MW-1	11/04/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	92.97	9.43	83.54	NP
	01/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		11.66	81.31	NP
	04/29/22	<1.0	<1.0	<1.0	3.9	<1.0	4.2	3.3		11.85	81.12	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		7.11	85.86	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		9.39	83.58	NP
MW-2	11/04/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	94.83	10.85	83.98	NP
	01/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		12.54	82.29	NP
	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		13.24	81.59	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.47	84.36	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.02	84.81	NP
MW-3	11/04/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	94.90	11.09	83.81	NP
	01/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		12.87	82.03	NP
MW-3R	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	94.70	13.39	81.31	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.23	84.47	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		9.75	84.95	NP
MW-4	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	98.26	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-5	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	98.39	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-6	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	98.38	13.78	84.60	NP
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-6R	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.51	15.94	82.57	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		14.84	83.67	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		13.89	84.62	NP

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH-THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)	TOC ELEV (FT)	DTW (FT)	GW ELEV (FT)	LNAPL (FT)
MW-7	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	100.00	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	IW	IW	IW	IW	IW	IW	IW		15.33	84.67	NP
MW-8	11/04/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	95.00	11.04	83.96	NP
	01/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		12.42	82.58	NP
	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		13.24	81.76	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.36	84.64	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		10.23	84.77	NP
MW-9	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	97.91	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-10	11/04/21	Dry	Dry	Dry	Dry	Dry	Dry	Dry	98.66	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry	Dry	Dry	Dry		Dry	Dry	Dry
MW-11	04/29/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.48	15.31	82.17	NP
	07/26/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		13.73	83.75	NP
	10/20/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		12.76	84.72	NP
Table 915-1 Limits		5	560	700	1,400	140	67	67				

Bold face values exceed the COGCC limits

NP - No Free Product

TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
HARPER KONA PIPELINE, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C021-074

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)	BARIUM (mg/L)
MW-1	11/04/21	1080	55.2	899	NA
	01/20/22	1360	35.4	499	0.0774
	04/29/22	1510	7.76	997	0.0453
	07/26/22	1620	64.0	898	0.0529
	10/20/22	1040	92.4	230	0.0409
MW-2	11/04/21	2550	187	2360	NA
	01/20/22	3670	392	1360	0.116
	04/29/22	3160	314	2000	0.0609
	07/26/22	2880	105	2180	0.0561
	10/20/22	2160	102	1240	0.0547
MW-3 MW-3R	11/04/21	2420	46.6	2360	NA
	01/20/22	IW	IW	IW	IW
	04/29/22	2240	42.4	1980	0.0305
	07/26/22	2580	46.6	1990	0.0234
	10/20/22	1930	59.4	1610	0.0195
MW-4	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-5	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-6	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)	BARIUM (mg/L)
MW-6R	04/29/22	2760	123	2550	0.0311
	07/26/22	3260	141	2800	0.0254
	10/20/22	2440	99.8	1950	0.0239
MW-7	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	IW	IW	IW	IW
MW-8	11/04/21	2820	106	2620	NA
	01/20/22	2720	63.6	1580	0.0819
	04/29/22	IW	IW	IW	IW
	07/26/22	2400	89.4	1840	0.0761
	10/20/22	2270	107	2080	0.0493
MW-9	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-10	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-11	04/29/22	2540	80.0	2360	0.0367
	07/26/22	2970	88.8	2560	0.0310
	10/20/22	2170	77.6	1910	0.0316
Table 915-1 Standards		<1.25 x local background	250 or 1.25x background	250 or 1.25x background	None
Reg. 41 Drinking Water Standard					2.0

Bold face values exceed the COGCC limits

NA - Not Analyzed

NAP - Not Applicable

IW - Insufficient Water

TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
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FREMONT PROJECT NO. C021-074

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	07/26/22	2880	105	2180	0.0561
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MW-3 MW-3R	11/04/21	2420	46.6	2360	NA
	01/20/22	IW	IW	IW	IW
	04/29/22	2240	42.4	1980	0.0305
	07/26/22	2580	46.6	1990	0.0234
	10/20/22	1930	59.4	1610	0.0195
MW-4	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-5	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-6	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry

SAMPLE LOCATION	DATE	TDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)	BARIUM (mg/L)
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MW-7	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	04/29/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	IW	IW	IW	IW
MW-8	11/04/21	2820	106	2620	NA
	01/20/22	2720	63.6	1580	0.0819
	04/29/22	IW	IW	IW	IW
	07/26/22	2400	89.4	1840	0.0761
	10/20/22	2270	107	2080	0.0493
MW-9	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-10	11/04/21	Dry	Dry	Dry	Dry
	01/20/22	Dry	Dry	Dry	Dry
	07/26/22	Dry	Dry	Dry	Dry
	10/20/22	Dry	Dry	Dry	Dry
MW-11	04/29/22	2540	80.0	2360	0.0367
	07/26/22	2970	88.8	2560	0.0310
	10/20/22	2170	77.6	1910	0.0316
Table 915-1 Standards		<1.25 x local background	250 or 1.25x background	250 or 1.25x background	None
Reg. 41 Drinking Water Standard					2.0

Bold face values exceed the COGCC limits

NA - Not Analyzed

NAP - Not Applicable

IW - Insufficient Water

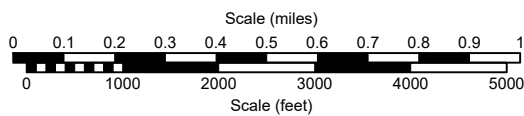
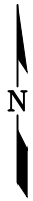
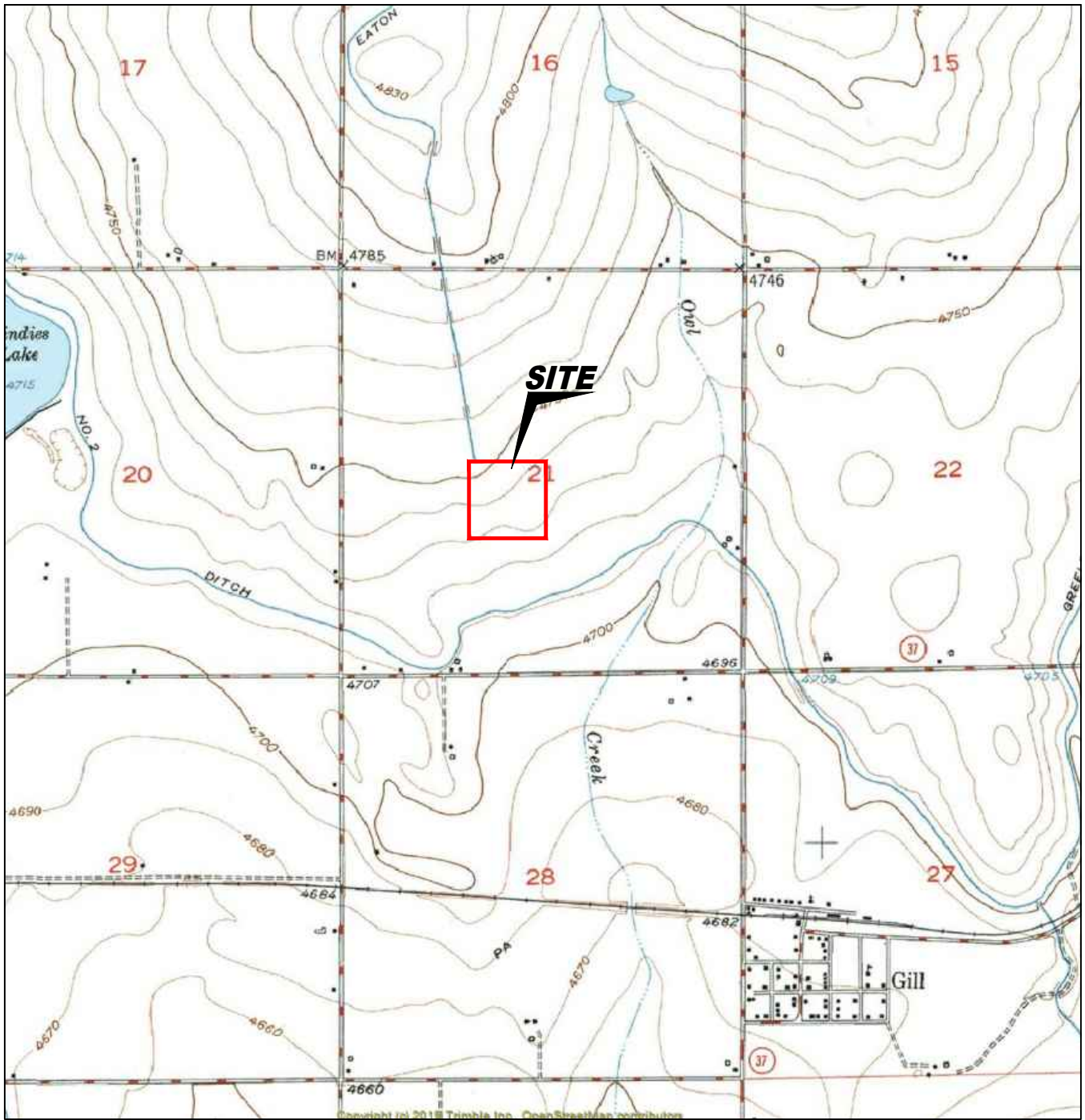
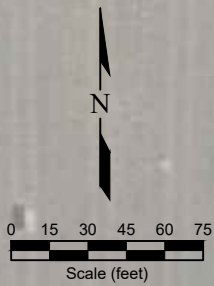
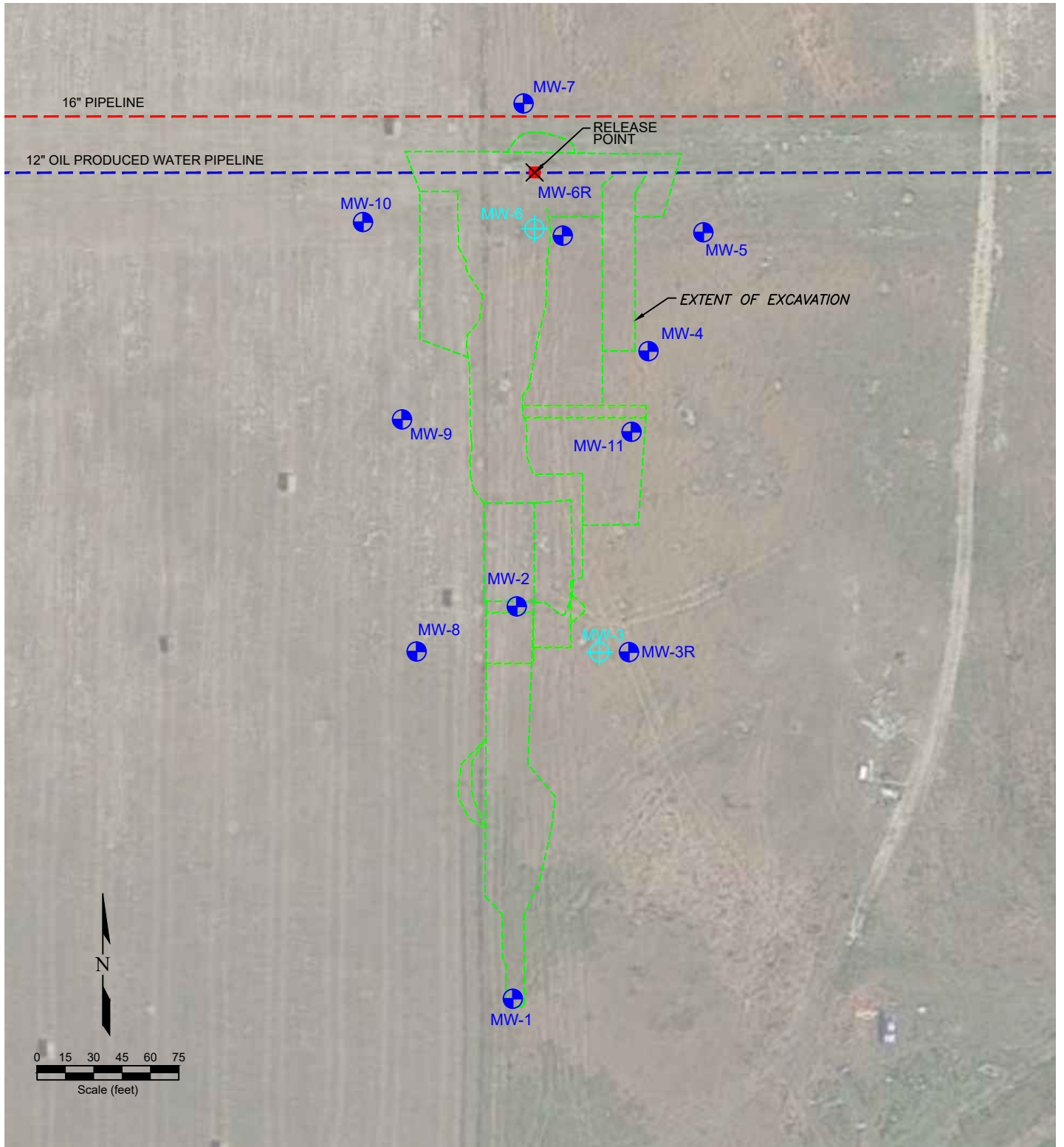









Figure 1
SITE LOCATION MAP

Noble Midstream, Inc.
Harper Pipeline Release
 NESW Sec. 21, T6N, R64W, 6th PM
 Weld County, Colorado

Project # C021-074	Prepared By	Drawn By TA	
Date 12/06/22	Reviewed By EB	Filename 21074T	



LEGEND

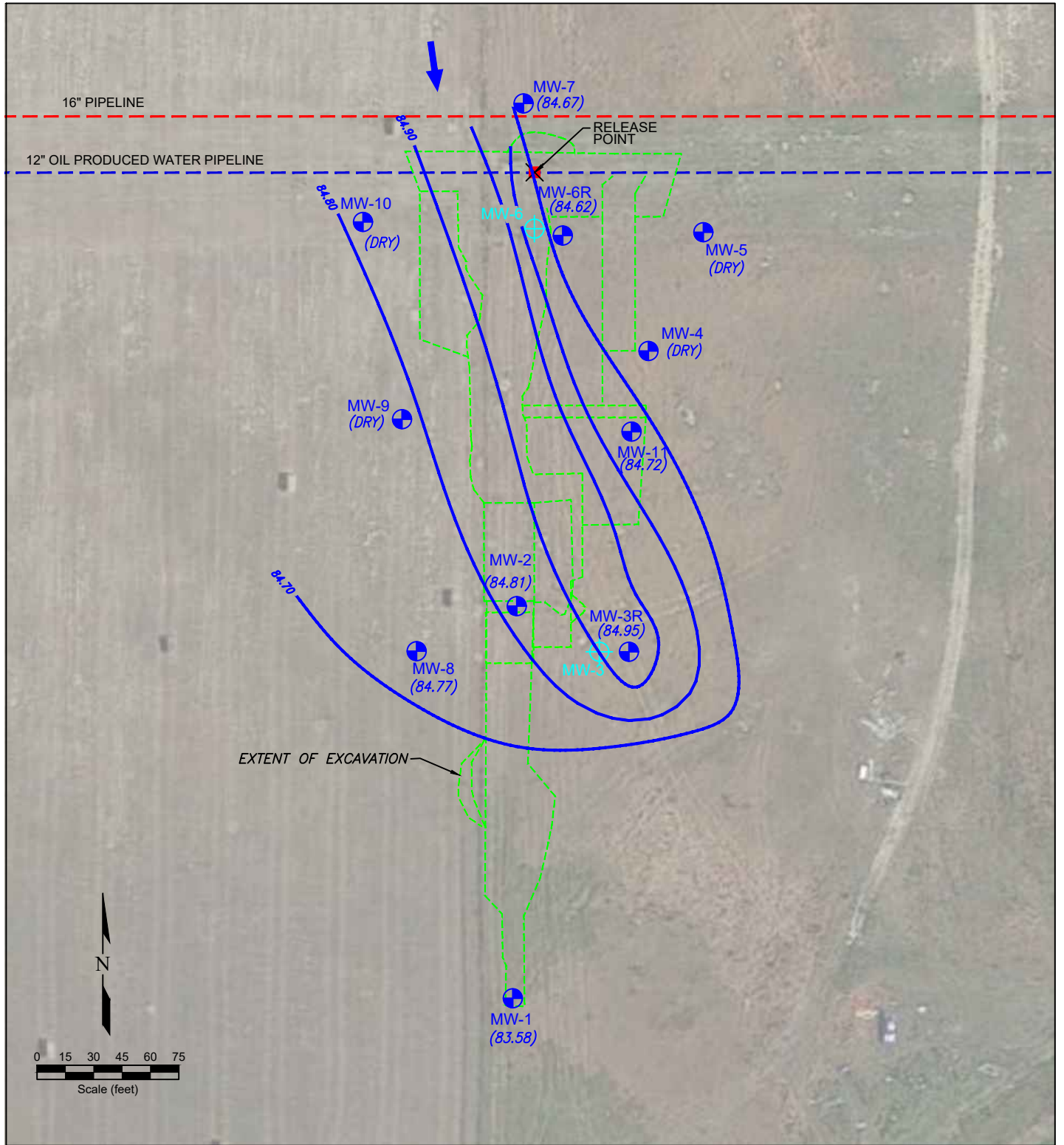
-  RELEASE POINT
-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  EXTENT OF EXCAVATION
-  12" OIL PRODUCED WATER PIPELINE
-  16" PIPELINE
-  FENCE LINE

**Figure 2
SITE MAP**

Noble Midstream, Inc.
 Harper Pipeline Release
 NESW Sec. 21, T6N, R64W, 6th PM
 Weld County, Colorado

Project No. CO21-074	Prepared by	Drawn by TA
Date 12/6/22	Reviewed by EB	Filename 21074QL





LEGEND





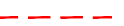







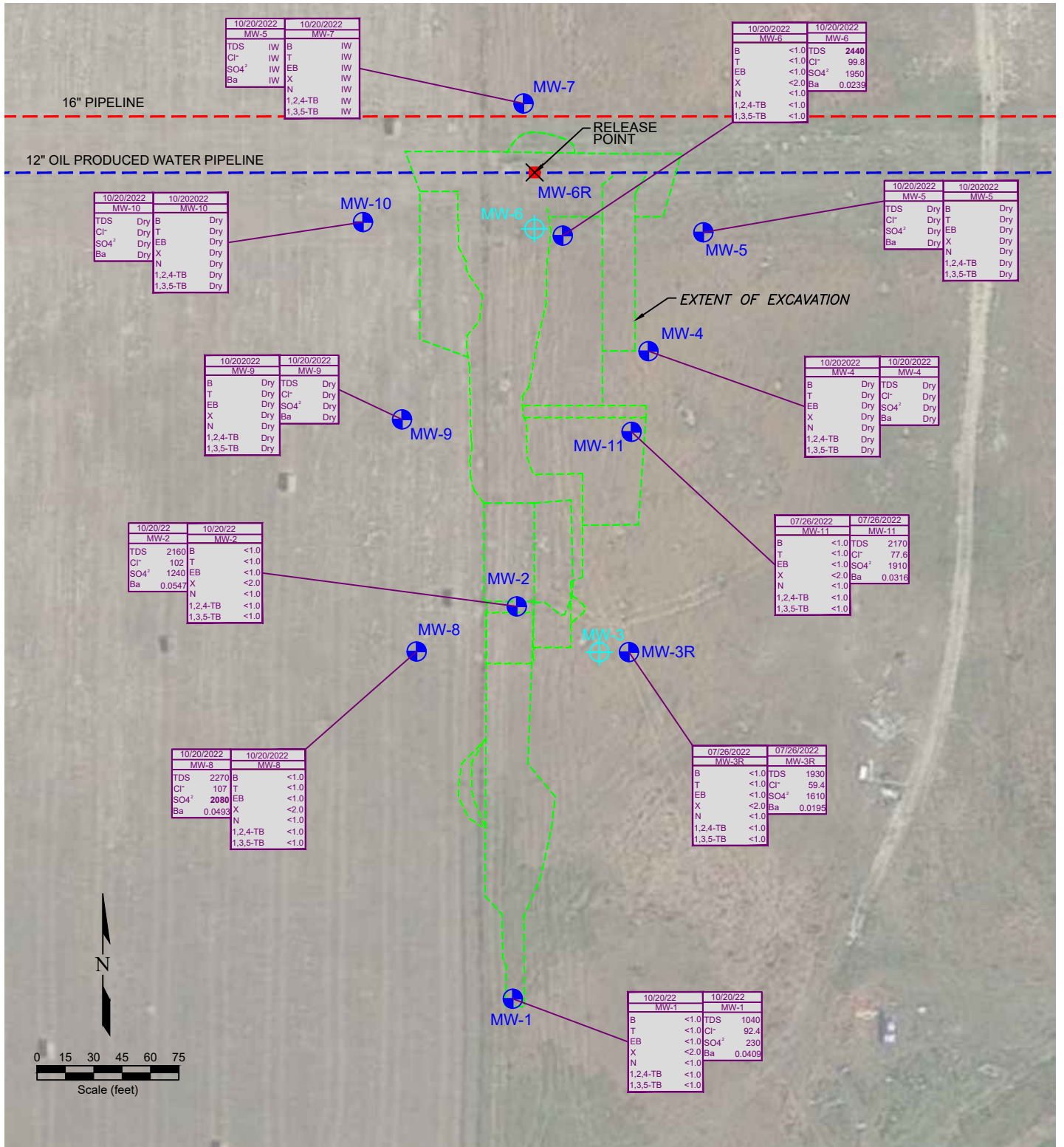
-  RELEASE POINT
-  MONITORING WELL
-  DESTROYED MONITORING WELL
-  EXTENT OF EXCAVATION
-  12" OIL PRODUCED WATER PIPELINE
-  16" PIPELINE
-  FENCE LINE
-  GROUND WATER ELEVATION (ft above arbitrary datum)
-  WATER TABLE CONTOUR
-  GROUND WATER FLOW DIRECTION
-  WATER SUPPLY NOT PRESENT
-  NOT USED IN CONTOURING

Figure 3
INFERRED GROUNDWATER CONTOUR MAP
 October 20, 2022

Noble Midstream, Inc.
 Harper Pipeline Release
 NESW Sec. 21, T6N, R64W, 6th PM
 Weld County, Colorado

Project No. CO21-074	Prepared by	Drawn by TA
Date 1/19/23	Reviewed by EB	Filename 21074QL





LEGEND

	RELEASE POINT		MONITORING WELL
	EXTENT OF EXCAVATION		DESTROYED MONITORING WELL
	12" OIL PRODUCED WATER PIPELINE		INSUFFICIENT WATER SUPPLY
	16" PIPELINE		WATER NOT PRESENT
	FENCE LINE		

<table border="1"> <thead> <tr><th>07/26/2022</th><th>MW-1</th></tr> </thead> <tbody> <tr><td>TDS</td><td>1620</td></tr> <tr><td>Cl⁻</td><td>64.0</td></tr> <tr><td>SO₄²⁻</td><td>898</td></tr> <tr><td>Ba</td><td>0.0529</td></tr> </tbody> </table>	07/26/2022	MW-1	TDS	1620	Cl ⁻	64.0	SO ₄ ²⁻	898	Ba	0.0529	DATE SAMPLED SAMPLE ID	<table border="1"> <thead> <tr><th>07/26/2022</th><th>MW-1</th></tr> </thead> <tbody> <tr><td>B</td><td><1.0</td></tr> <tr><td>T</td><td><1.0</td></tr> <tr><td>EB</td><td><1.0</td></tr> <tr><td>X</td><td><2.0</td></tr> <tr><td>N</td><td><1.0</td></tr> <tr><td>1,2,4-TB</td><td><1.0</td></tr> <tr><td>1,3,5-TB</td><td><1.0</td></tr> </tbody> </table>	07/26/2022	MW-1	B	<1.0	T	<1.0	EB	<1.0	X	<2.0	N	<1.0	1,2,4-TB	<1.0	1,3,5-TB	<1.0	DATE SAMPLED SAMPLE ID
07/26/2022	MW-1																												
TDS	1620																												
Cl ⁻	64.0																												
SO ₄ ²⁻	898																												
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07/26/2022	MW-1																												
B	<1.0																												
T	<1.0																												
EB	<1.0																												
X	<2.0																												
N	<1.0																												
1,2,4-TB	<1.0																												
1,3,5-TB	<1.0																												
	TOTAL DISSOLVED SOLIDS (mg/L)		BENZENE (ug/L)																										
	CHLORIDE ION (mg/L)		TOLUENE (ug/L)																										
	SULFATE ION (mg/L)		ETHYL BENZENE (ug/L)																										
	BARIIUM (mg/L)		TOTAL XYLENES (ug/L)																										
			NAPHTHALENE (ug/L)																										
			1,2,4-TRIMETHYLBENZENE (ug/L)																										
			1,3,5-TRIMETHYLBENZENE (ug/L)																										

Figure 4
GROUNDWATER CHEMISTRY MAP
October 20, 2022

Noble Midstream, Inc.
Harper Pipeline Release
NESW Sec. 21, T6N, R64W, 6th PM
Weld County, Colorado

Project No. CO21-074	Prepared by	Drawn by TA
Date 12/6/22	Reviewed by EB	Filename 21074QL



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 27, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Harper Kona
Work Order #2210426

Enclosed are the results of analyses for samples received by Summit Scientific on 10/24/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2210426-01	Water	10/20/22 00:00	10/24/22 16:00
MW-2	2210426-02	Water	10/20/22 00:00	10/24/22 16:00
MW-3R	2210426-03	Water	10/20/22 00:00	10/24/22 16:00
MW-6R	2210426-04	Water	10/20/22 00:00	10/24/22 16:00
MW-8	2210426-05	Water	10/20/22 00:00	10/24/22 16:00
MW-11	2210426-06	Water	10/20/22 00:00	10/24/22 16:00

Summit Scientific

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S₂

Sample Receipt Checklist

S2 Work Order# 2210426

Client: Framont Client Project ID: Noble-Happer Kona

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

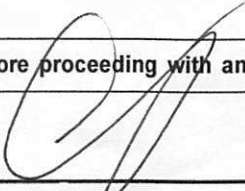
Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>awzll</i>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.


Custodian Printed Name

10-24-22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

MW-1
2210426-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFJ0736	10/26/22	10/27/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.0 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	40.9	1.00	ug/l	1	BFJ0665	10/25/22	10/25/22	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	92.4	12.0	mg/L	200	BFJ0724	10/26/22	10/27/22	EPA 300.0	
Sulfate	230	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

MW-1
2210426-01 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1040	10.0		mg/L	1	BFJ0671	10/25/22	10/25/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

MW-2
2210426-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0736	10/26/22	10/27/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		110 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.7 %		21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	54.7	1.00		ug/l	1	BFJ0665	10/25/22	10/25/22	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	102	12.0		mg/L	200	BFJ0724	10/26/22	10/27/22	EPA 300.0	
Sulfate	1240	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

MW-2
2210426-02 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2160	10.0		mg/L	1	BFJ0671	10/25/22	10/25/22	SM2540C	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

MW-3R
2210426-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0736	10/26/22	10/27/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		86.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.3 %		21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	19.5	1.00		ug/l	1	BFJ0665	10/25/22	10/25/22	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	59.4	12.0		mg/L	200	BFJ0724	10/26/22	10/27/22	EPA 300.0	
Sulfate	1610	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

MW-3R
2210426-03 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1930	10.0		mg/L	1	BFJ0671	10/25/22	10/25/22	SM2540C	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

MW-6R
2210426-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFJ0736	10/26/22	10/27/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		77.4 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	23.9	1.00	ug/l	1	BFJ0665	10/25/22	10/25/22	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	99.8	12.0	mg/L	200	BFJ0724	10/26/22	10/27/22	EPA 300.0	
Sulfate	1950	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

MW-6R
2210426-04 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2440	10.0		mg/L	1	BFJ0671	10/25/22	10/25/22	SM2540C	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

MW-8
2210426-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFJ0736	10/26/22	10/27/22	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		97.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		76.5 %		21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	49.3	1.00		ug/l	1	BFJ0665	10/25/22	10/25/22	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	107	12.0		mg/L	200	BFJ0724	10/26/22	10/27/22	EPA 300.0	
Sulfate	2080	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

MW-8
2210426-05 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2270	10.0		mg/L	1	BFJ0671	10/25/22	10/25/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

MW-11
2210426-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFJ0736	10/26/22	10/27/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.6 %	21-167		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	31.6	1.00	ug/l	1	BFJ0665	10/25/22	10/25/22	EPA 200.8	

Anions by EPA Method 300.0

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	77.6	12.0	mg/L	200	BFJ0724	10/26/22	10/27/22	EPA 300.0	
Sulfate	1910	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

MW-11
2210426-06 (Water)

Summit Scientific

Total Dissolved Solids by SM2540C

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2170	10.0		mg/L	1	BFJ0671	10/25/22	10/25/22	SM2540C	

Summit Scientific



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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/27/22 15:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFJ0736 - EPA 5030 Water MS

Blank (BFJ0736-BLK1)

Prepared & Analyzed: 10/26/22

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.6		"	13.3		94.3		23-173			
<i>Surrogate: Toluene-d8</i>	14.1		"	13.3		106		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	8.83		"	13.3		66.2		21-167			

LCS (BFJ0736-BS1)

Prepared & Analyzed: 10/26/22

Benzene	29.9	1.0	ug/l	41.7		71.8		51-132			
Toluene	39.0	1.0	"	41.7		93.7		51-138			
Ethylbenzene	38.6	1.0	"	41.7		92.5		58-146			
m,p-Xylene	80.9	2.0	"	83.3		97.1		57-144			
o-Xylene	40.0	1.0	"	41.7		96.0		53-146			
Naphthalene	32.6	1.0	"	41.7		78.2		70-130			
1,2,4-Trimethylbenzene	42.0	1.0	"	41.7		101		70-130			
1,3,5-Trimethylbenzene	43.1	1.0	"	41.7		103		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	6.54		"	13.3		49.1		23-173			
<i>Surrogate: Toluene-d8</i>	13.6		"	13.3		102		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	11.4		"	13.3		85.9		21-167			

Matrix Spike (BFJ0736-MS1)

Source: 2210380-01

Prepared & Analyzed: 10/26/22

Benzene	31.8	1.0	ug/l	41.7	ND	76.3		34-141			
Toluene	40.5	1.0	"	41.7	ND	97.1		27-151			
Ethylbenzene	39.6	1.0	"	41.7	ND	95.1		29-160			
m,p-Xylene	80.9	2.0	"	83.3	ND	97.1		20-166			
o-Xylene	41.3	1.0	"	41.7	ND	99.2		33-159			
Naphthalene	40.2	1.0	"	41.7	ND	96.5		70-130			
1,2,4-Trimethylbenzene	41.1	1.0	"	41.7	ND	98.7		70-130			
1,3,5-Trimethylbenzene	44.4	1.0	"	41.7	ND	107		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.6		"	13.3		94.7		23-173			
<i>Surrogate: Toluene-d8</i>	13.8		"	13.3		104		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.0		"	13.3		89.7		21-167			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch BFJ0736 - EPA 5030 Water MS

Matrix Spike Dup (BFJ0736-MSD1)	Source: 2210380-01			Prepared & Analyzed: 10/26/22						
Benzene	32.0	1.0	ug/l	41.7	ND	76.9	34-141	0.689	30	
Toluene	44.6	1.0	"	41.7	ND	107	27-151	9.69	30	
Ethylbenzene	39.1	1.0	"	41.7	ND	93.7	29-160	1.40	30	
m,p-Xylene	81.1	2.0	"	83.3	ND	97.3	20-166	0.185	30	
o-Xylene	41.1	1.0	"	41.7	ND	98.7	33-159	0.509	30	
Naphthalene	44.8	1.0	"	41.7	ND	107	70-130	10.8	30	
1,2,4-Trimethylbenzene	39.2	1.0	"	41.7	ND	94.0	70-130	4.88	30	
1,3,5-Trimethylbenzene	43.8	1.0	"	41.7	ND	105	70-130	1.29	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.0</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>15.0</i>		<i>"</i>	<i>13.3</i>		<i>112</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		<i>"</i>	<i>13.3</i>		<i>89.3</i>	<i>21-167</i>			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

Dissolved Metals by EPA Method 200.8 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch BFJ0665 - EPA 200.8

Blank (BFJ0665-BLK1)

Prepared & Analyzed: 10/25/22

Barium ND 1.00 ug/l

LCS (BFJ0665-BS1)

Prepared & Analyzed: 10/25/22

Barium 530 1.00 ug/l 500 106 85-115

Duplicate (BFJ0665-DUP1)

Source: 2210409-01

Prepared & Analyzed: 10/25/22

Barium 21.1 1.00 ug/l 23.0 8.66 20

Matrix Spike (BFJ0665-MS1)

Source: 2210409-01

Prepared & Analyzed: 10/25/22

Barium 555 1.00 ug/l 500 23.0 106 70-130

Matrix Spike Dup (BFJ0665-MSD1)

Source: 2210409-01

Prepared & Analyzed: 10/25/22

Barium 560 1.00 ug/l 500 23.0 107 70-130 0.870 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Harper Kona

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/27/22 15:36

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			Limits	RPD	Limit		

Batch BFJ0724 - General Preparation

Blank (BFJ0724-BLK1)

Prepared & Analyzed: 10/26/22

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BFJ0724-BS1)

Prepared & Analyzed: 10/26/22

Chloride	2.71	0.0600	mg/L	3.00	90.3	90-110		
Sulfate	15.3	0.300	"	15.0	102	90-110		

Duplicate (BFJ0724-DUP1)

Source: 2210368-27

Prepared & Analyzed: 10/26/22

Chloride	99.8	12.0	mg/L		85.2		15.8	20
Sulfate	1380	60.0	"		1400		1.23	20

Matrix Spike (BFJ0724-MS1)

Source: 2210368-27

Prepared & Analyzed: 10/26/22

Chloride	728	12.0	mg/L	600	85.2	107	80-120	
Sulfate	4830	60.0	"	3000	1400	115	80-120	

Summit Scientific

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