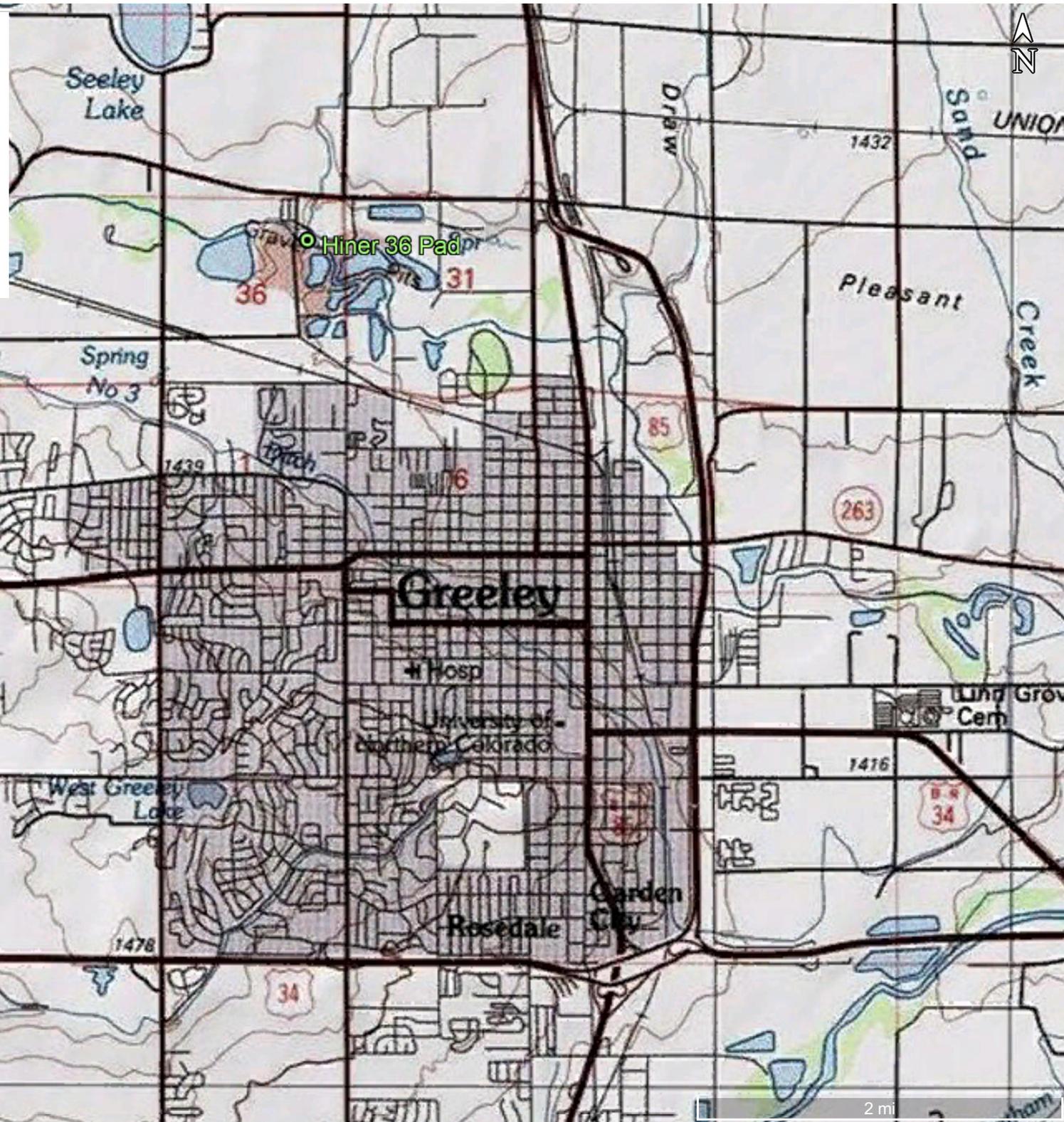
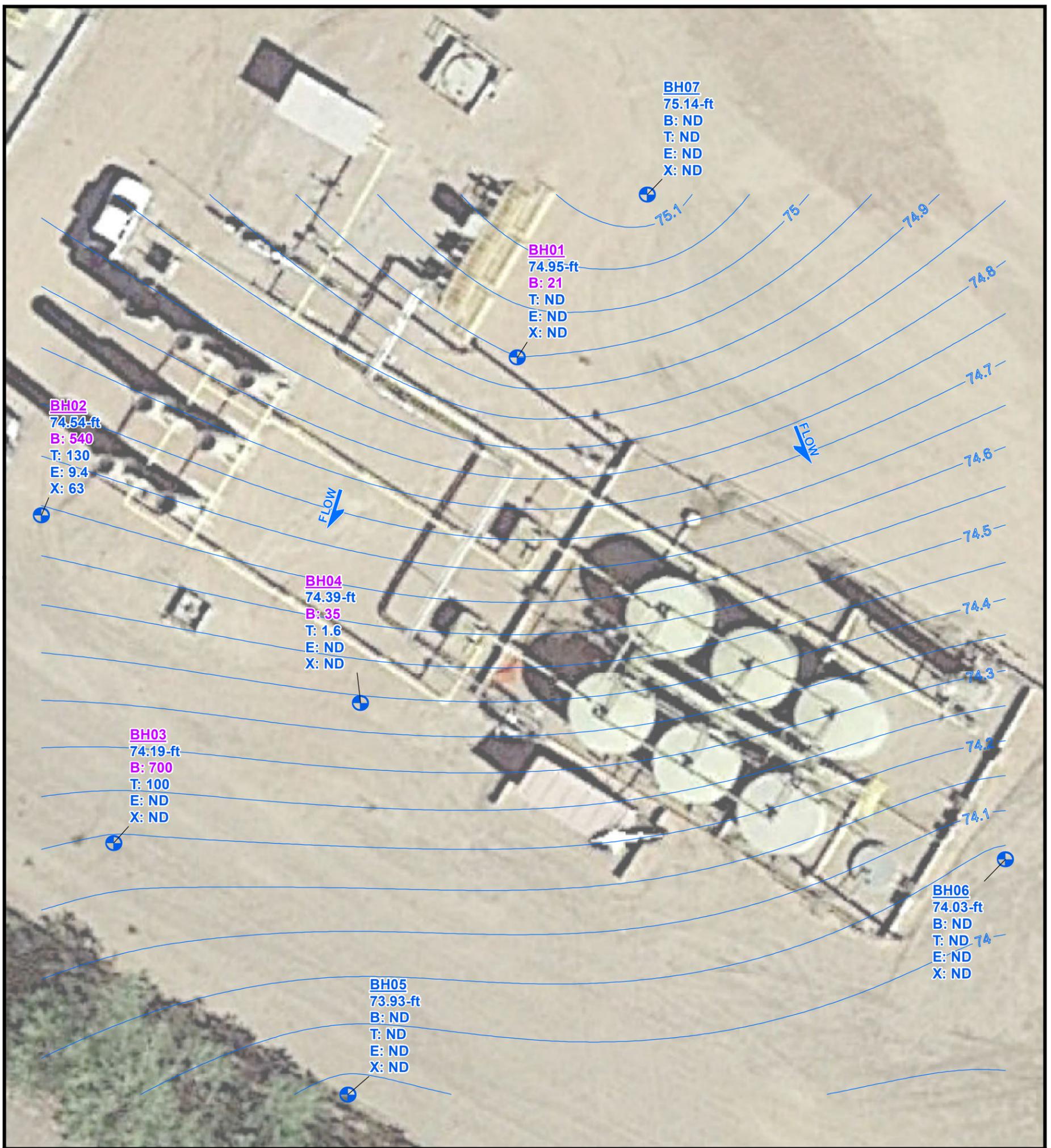




Topographic Location
Map
"Hiner Tank Battery"





**Extraction Oil & Gas
Hiner 36 Tank Battery
COGCC Location ID: 446538
Temporary Monitoring Well Layout &
GW Elevations for the
2/21/2020 Sampling Event**

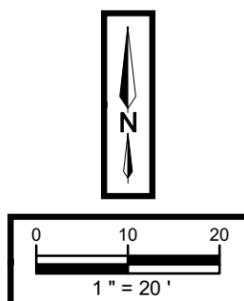
Legal Description: NENE, Sec 36, T6N R66W
County: Weld
Land Use: Non-Cropland
Topography: Not Available
Run-Off Risk: Low
Soil Type: Aquolls and Aquents
Receiving Waters: Cache la Poudre River



- BH01**
80.60-ft
- Temp. Monitoring Well Location & Relative GW Elevation
- Estimated Groundwater Contour
- Estimated Groundwater Flow Direction

* Sample ID in Purple font indicates a regulatory exceedance.

* Concentration Units in ug/L.
* ND - Non-Detect



Sample ID	Latitude NAD83	Longitude NAD83
BH01	40.449073	-104.719683
BH02	40.448991	-104.720012
BH03	40.448818	-104.719963
BH04	40.448891	-104.719792
BH05	40.448684	-104.719802
BH06	40.448807	-104.719347
BH07	40.449160	-104.719593

Spatial data collected for this project was acquired using a GPS with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. To accurately reflect field conditions, illustrated data may have been manually corrected in order to fit with the aerial imagery reference points and other collected data points.



Laboratory Results Summary Table - Groundwater Hiner 36 Pad

			Organic Compounds (µg/L)			
COGCC Allowable Concentration (Water)			5	1,000	700	10,000
Location	Sample Date	Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes - total
Hiner 36 Pad	2/21/20	BH01	21	<1.0	<1.0	<2.0
Hiner 36 Pad	2/21/20	BH02	540	130	9.4	63
Hiner 36 Pad	2/21/20	BH03	700	100	<1.0	<2.0
Hiner 36 Pad	2/21/20	BH04	35	1.6	<1.0	<2.0
Hiner 36 Pad	2/21/20	BH05	<1.0	<1.0	<1.0	<2.0
Hiner 36 Pad	2/21/20	BH06	<1.0	<1.0	<1.0	<2.0
Hiner 36 Pad	2/21/20	BH07	<1.0	<1.0	<1.0	<2.0

Attachment A

Laboratory Analytical Report

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 28, 2020

Maggie Graham
Extraction Oil&Gas
370 17th Street Suite 5300
Denver, CO 80202

RE: Hiner 36

Work Order #2002214

Enclosed are the results of analyses for samples received by Summit Scientific on 02/21/20 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01	2002214-01	Water	02/21/20 15:15	02/21/20 16:00
BH02	2002214-02	Water	02/21/20 14:10	02/21/20 16:00
BH03	2002214-03	Water	02/21/20 14:40	02/21/20 16:00
BH04	2002214-04	Water	02/21/20 14:20	02/21/20 16:00
BH05	2002214-05	Water	02/21/20 13:47	02/21/20 16:00
BH06	2002214-06	Water	02/21/20 13:30	02/21/20 16:00
BH07	2002214-07	Water	02/21/20 15:00	02/21/20 16:00

Summit Scientific

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Summit Scientific - 2002214

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: APEX Companies, LLC
Address: 176 Cole Blvd. Suite 250
City/State/Zip: Lakewood, Colorado 80101
Phone: 720-501-5065 Fax: _____
Sampler Name: Kevin Ambrose, Sage Maker

Project Manager: Maggie Graham 720-501-5065; 907-538-7699c
E-Mail: DenverRemediation@ApexCos.onmicrosoft.com kgjensen@Extraction05.com
Project Name: Hiner 36 blard@Extraction05.com
Project Number: 744.2001.01 - 440538

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:						Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)							
BH01	2/21/20	1515	3	X				X										Call Maggie Graham with questions
BH02	↓	1410	↓	↓				↓										
BH03	↓	1440	↓	↓				↓										
BH04	↓	1420	↓	↓				↓										
BH05	↓	1347	↓	↓				↓										
BH06	↓	1330	↓	↓				↓										
BH07	↓	1500	↓	↓				↓										
Relinquished by: <u>[Signature]</u> Date/Time: <u>2/21/20 16:00</u>				Received by: <u>[Signature]</u> Date/Time: <u>02-21-2020 16:00</u>				Turn Around Time (Check)						Notes				
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>						Circle applicable regulatory agency: COGOC/ CDPHE				
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____				Sample Integrity: Temperature Upon Receipt: <u>8.3</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Client Name: <u>XOG</u>				

Sample Receipt Checklist

S2 Work Order 2002214

Client: Apex/XOG Client Project ID: Hiner 36

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

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C)	8.3
-----------	-----

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			On Ice
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	✓			HCl
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any): 				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

MP
Custodian Printed Name or Initials

Muri Premer
Signature of Custodian

2/21/20
Date/Time



Extraction Oil&Gas
 370 17th Street Suite 5300
 Denver CO, 80202

Project: Hiner 36
 Project Number: 744.2001.01-446538
 Project Manager: Maggie Graham

Reported:
 02/28/20 15:19

BH01
2002214-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/20 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	21	1.0	ug/l	1	2002234	02/24/20	02/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/21/20 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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.



Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

BH02
2002214-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/20 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	540	10	ug/l	10	2002234	02/24/20	02/25/20	EPA 8260B	
Toluene	130	1.0	"	1	"	"	"	"	
Ethylbenzene	9.4	1.0	"	"	"	"	"	"	
Xylenes (total)	63	2.0	"	"	"	"	"	"	

Date Sampled: **02/21/20 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	21-167		"	"	"	"	

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

BH03
2002214-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/20 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	700	10		ug/l	10	2002234	02/24/20	02/25/20	EPA 8260B	
Toluene	100	1.0		"	1	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **02/21/20 14:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		78.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		94.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %		21-167		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

BH04
2002214-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/20 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	35	1.0		ug/l	1	2002234	02/24/20	02/25/20	EPA 8260B	
Toluene	1.6	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **02/21/20 14:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		108 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Summit Scientific



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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

BH05
2002214-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/20 13:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2002234	02/24/20	02/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **02/21/20 13:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		113 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		21-167		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas
 370 17th Street Suite 5300
 Denver CO, 80202

Project: Hiner 36
 Project Number: 744.2001.01-446538
 Project Manager: Maggie Graham

Reported:
 02/28/20 15:19

BH06
2002214-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/20 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2002234	02/24/20	02/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **02/21/20 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas
 370 17th Street Suite 5300
 Denver CO, 80202

Project: Hiner 36
 Project Number: 744.2001.01-446538
 Project Manager: Maggie Graham

Reported:
 02/28/20 15:19

BH07
2002214-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/21/20 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2002234	02/24/20	02/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **02/21/20 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		115 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		93.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

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 2002234 - EPA 5030 Water MS

Blank (2002234-BLK1)

Prepared: 02/24/20 Analyzed: 02/25/20

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		104		23-173			
Surrogate: Toluene-d8	12.4		"	13.3		92.7		20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102		21-167			

LCS (2002234-BS1)

Prepared: 02/24/20 Analyzed: 02/25/20

Benzene	34.4	1.0	ug/l	33.3		103		51-132			
Toluene	36.1	1.0	"	33.3		108		51-138			
Ethylbenzene	39.5	1.0	"	33.3		118		58-146			
m,p-Xylene	70.4	2.0	"	66.7		106		57-144			
o-Xylene	37.8	1.0	"	33.3		114		53-146			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101		23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.0		20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.1		21-167			

Matrix Spike (2002234-MS1)

Source: 2002194-41

Prepared: 02/24/20 Analyzed: 02/25/20

Benzene	33.8	1.0	ug/l	33.3	ND	101		34-141			
Toluene	35.1	1.0	"	33.3	ND	105		27-151			
Ethylbenzene	38.4	1.0	"	33.3	ND	115		29-160			
m,p-Xylene	68.4	2.0	"	66.7	ND	103		20-166			
o-Xylene	36.7	1.0	"	33.3	ND	110		33-159			
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.3		106		23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.9		20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.1		21-167			

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

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

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

Batch 2002234 - EPA 5030 Water MS

Matrix Spike Dup (2002234-MSD1)

Source: 2002194-41

Prepared: 02/24/20 Analyzed: 02/25/20

Benzene	34.8	1.0	ug/l	33.3	ND	105	34-141	3.00	30	
Toluene	36.2	1.0	"	33.3	ND	109	27-151	3.28	30	
Ethylbenzene	40.1	1.0	"	33.3	ND	120	29-160	4.26	30	
m,p-Xylene	71.6	2.0	"	66.7	ND	107	20-166	4.53	30	
o-Xylene	38.4	1.0	"	33.3	ND	115	33-159	4.52	30	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.5	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	21-167			

Summit Scientific

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Extraction Oil&Gas
370 17th Street Suite 5300
Denver CO, 80202

Project: Hiner 36
Project Number: 744.2001.01-446538
Project Manager: Maggie Graham

Reported:
02/28/20 15:19

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference