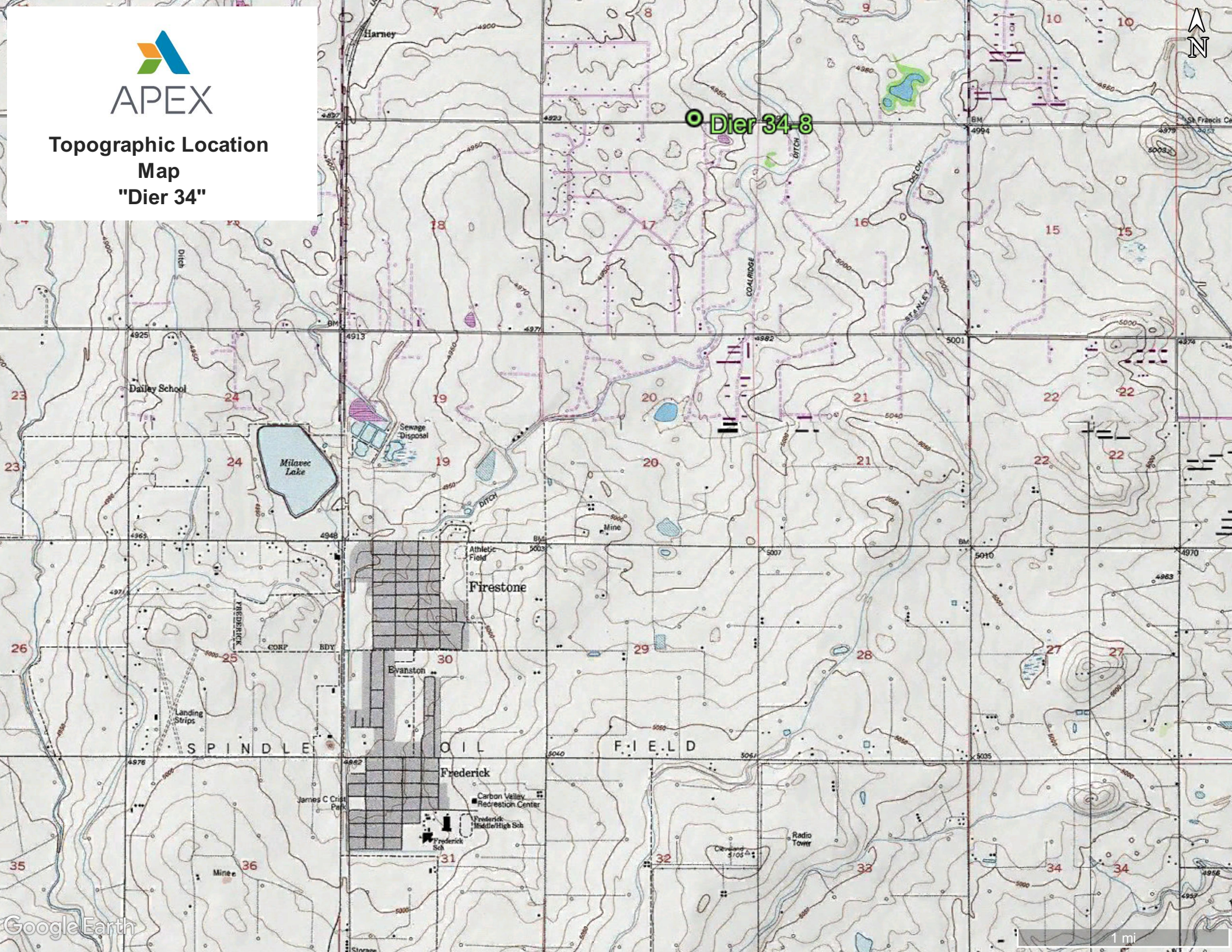
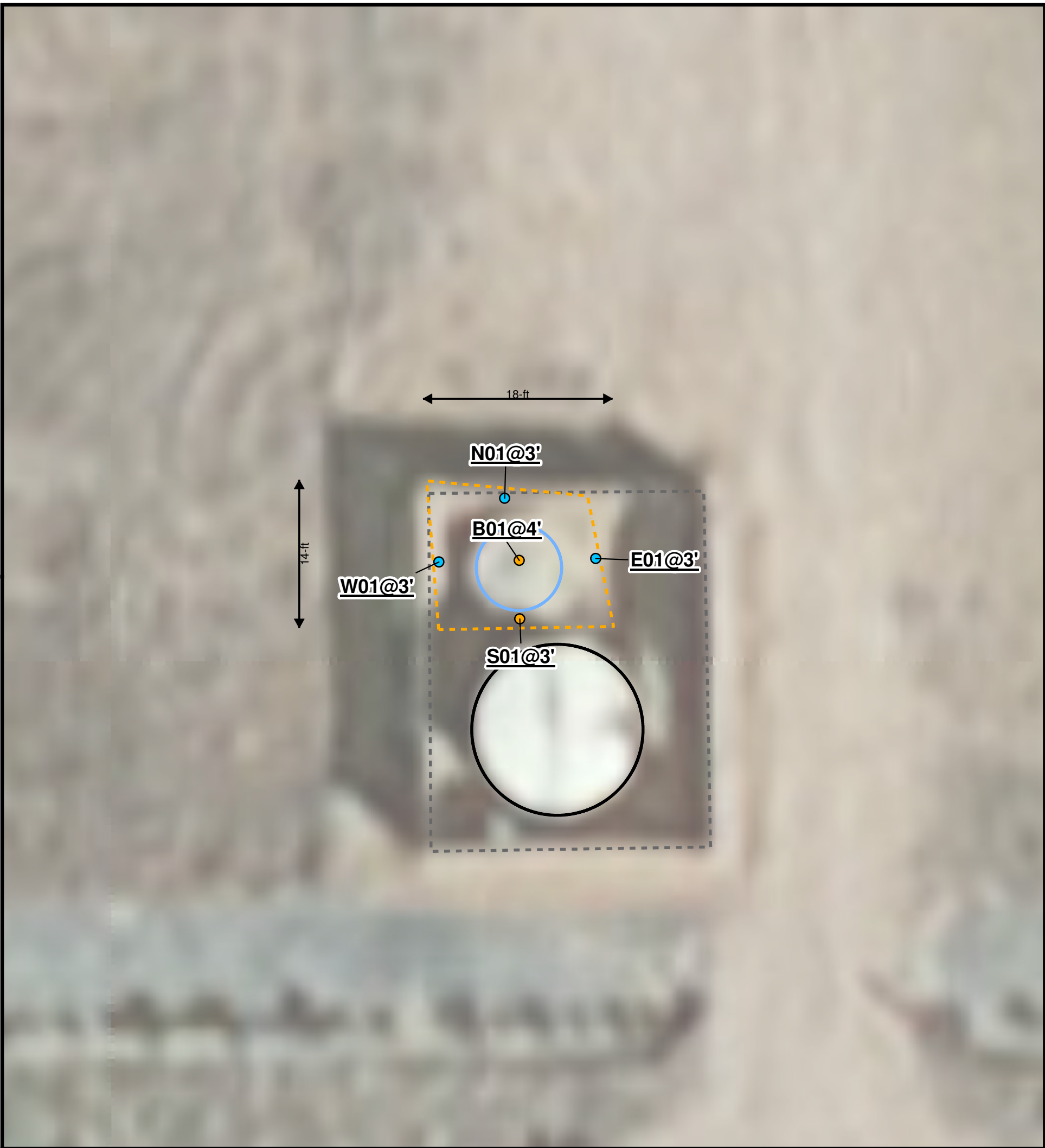




Topographic Location
Map
"Dier 34"





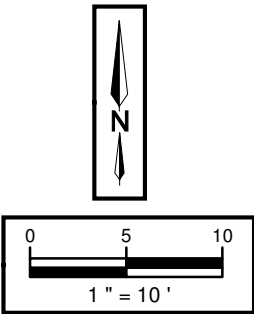
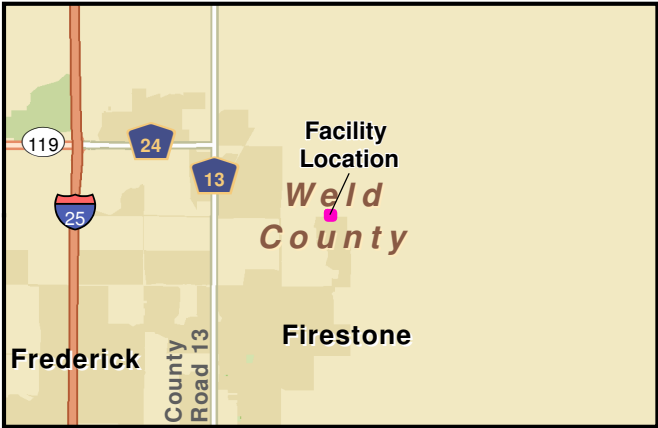
Crestone Peak Resources
Dier 34-8
COGCC Location ID: 330836
Site Diagram

Legal Description: SWSE, Sec 8, T2N R67W
County: Weld
Land Use: Cropland
Topography: 0-3% Slopes
Run-Off Risk: Very low
Soil Type: Vona loamy sand
Receiving Waters: Coal Ridge Ditch

- Soil Sample - With Lab Analysis (12/9/2019)
- Soil Sample - Field Screening Analysis (12/9/2019)
- Excavation Extent (12/9/2019)
- Crude Oil Tank
- Former Produced Water Vessel
- Former Secondary Containment



Sample ID	Latitude NAD83	Longitude NAD83
N01@3'	40.145863	-104.910377
E01@3'	40.145847	-104.910346
S01@3'	40.145831	-104.910372
W01@3'	40.145846	-104.910400
B01@4'	40.145846	-104.910372



SOIL SAMPLE RESULTS									
Sample Date	Sample ID	Organics (mg/kg)					(mmhos/cm)	Units	(pH Units)
		TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (Specific Conductance) (<4 mmhos/cm or 2x background)	SAF (Sodium Adsorption Ratio) (calculation)	pH
12/9/19	B01@4	<50	<0.0020	<0.0050	<0.0050	<0.010			
12/9/19	S01@3	2.3	<0.0020	<0.0050	<0.0050	0.012	0.165	0.537	6.98

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 - Soil Dier 34

			Organics (mg/kg)					(mmhos/cm)	Units	(pH Units)
COGCC Allowable Concentration (Soil) -->			500	0.17	85	100	175	4	12	(6-9)
Location	Sample Date	Sample ID	TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (Specific Conductance) (<4 mmhos/cm or 2x background)	SAR (Sodium Adsorption Ratio) (calculation)	pH
Dier 34	12/9/19	B01@4	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
Dier 34	12/9/19	S01@3	2.3	<0.0020	<0.0050	<0.0050	0.012	0.165	0.537	6.98

Attachment A

Laboratory Analytical Report

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 10, 2019

Maggie Graham
Apex Companies
176 Cole Blvd. Suite 250
Lakewood, CO 80101
RE: CPR - Dier 34

Enclosed are the results of analyses for samples received by Summit Scientific on 12/09/19 14:52. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@4	1912130-01	Soil	12/09/19 13:15	12/09/19 14:52
S01@3	1912130-05	Soil	12/09/19 13:25	12/09/19 14:52

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.

1912130

Page 1 of 1

Project Number: TBN

www.s2scientific.com

Sample Receipt Checklist

S2 Work Order 1912130

Client: Apex/CPR Client Project ID: Dier 34

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

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

Temp (°C)	<u>4.6</u>
-----------	------------

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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same Day</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<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.

AT
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

12-9-19, 1452
Date/Time



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

B01@4
1912130-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/09/19 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1912110	12/09/19	12/09/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/09/19 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/09/19 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1912111	"	12/09/19	EPA 8015M	

Date Sampled: **12/09/19 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		91.2 %	30-150		"	"	"	"	

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.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

S01@3
1912130-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1912110	12/09/19	12/09/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.012	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.3	0.50	"	"	"	"	"	"	

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1912111	"	12/09/19	EPA 8015M	

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		90.7 %	30-150		"	"	"	"	

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	407	11.2	mg/kg dry	1	1912099	12/09/19	12/09/19	EPA 6020B	
Magnesium	260	5.61	"	"	"	"	"	"	
Sodium	56.4	5.61	"	"	"	"	"	"	

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34
Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

S01@3
1912130-05 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis

Calculated Analysis

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.537	0.100	units	1	1912115	12/10/19	12/10/19	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	1912109	12/09/19	12/10/19	Calculation	
pH	6.98		pH Units	"	1912108	"	12/09/19	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/09/19 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.165	0.0100	mmhos/cm	1	1912106	12/09/19	12/09/19	EPA 120.1	

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.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1912110 - EPA 5030 Soil MS

Blank (1912110-BLK1)

Prepared: 12/09/19 Analyzed: 12/10/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0430		"	0.0400		108	20-170			
Surrogate: 4-Bromofluorobenzene	0.0463		"	0.0400		116	21-167			

LCS (1912110-BS1)

Prepared: 12/09/19 Analyzed: 12/10/19

Benzene	0.0743	0.0020	mg/kg	0.100		74.3	70-130			
Toluene	0.0844	0.0050	"	0.100		84.4	70-130			
Ethylbenzene	0.0884	0.0050	"	0.100		88.4	70-130			
m,p-Xylene	0.160	0.010	"	0.200		79.9	70-130			
o-Xylene	0.0801	0.0050	"	0.100		80.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0357		"	0.0400		89.3	23-173			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	21-167			

Matrix Spike (1912110-MS1)

Source: 1912130-01

Prepared: 12/09/19 Analyzed: 12/10/19

Benzene	0.0752	0.0020	mg/kg	0.100	ND	75.2	70-130			
Toluene	0.0851	0.0050	"	0.100	ND	85.1	70-130			
Ethylbenzene	0.0910	0.0050	"	0.100	ND	91.0	70-130			
m,p-Xylene	0.165	0.010	"	0.200	ND	82.4	70-130			
o-Xylene	0.0835	0.0050	"	0.100	ND	83.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.6	23-173			
Surrogate: Toluene-d8	0.0418		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400		107	21-167			

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

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

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

Batch 1912110 - EPA 5030 Soil MS

Matrix Spike Dup (1912110-MSD1)	Source: 1912130-01			Prepared: 12/09/19 Analyzed: 12/10/19						
Benzene	0.0764	0.0020	mg/kg	0.100	ND	76.4	70-130	1.70	30	
Toluene	0.0866	0.0050	"	0.100	ND	86.6	70-130	1.71	30	
Ethylbenzene	0.0948	0.0050	"	0.100	ND	94.8	70-130	4.07	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.5	70-130	3.68	30	
o-Xylene	0.0853	0.0050	"	0.100	ND	85.3	70-130	2.20	30	
Surrogate: 1,2-Dichloroethane-d4	0.0352		"	0.0400		88.1	23-173			
Surrogate: Toluene-d8	0.0417		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	21-167			

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1912111 - EPA 3550A

Blank (1912111-BLK1)

Prepared & Analyzed: 12/09/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1912111-BS1)

Prepared & Analyzed: 12/09/19

C10-C28 (DRO) 528 50 mg/kg 500 106 70-130

Matrix Spike (1912111-MS1)

Source: 1912130-01

Prepared: 12/09/19 Analyzed: 12/10/19

C10-C28 (DRO) 512 50 mg/kg 500 17.5 99.0 70-130

Matrix Spike Dup (1912111-MSD1)

Source: 1912130-01

Prepared: 12/09/19 Analyzed: 12/10/19

C10-C28 (DRO) 512 50 mg/kg 500 17.5 99.0 70-130 0.00878 20

Summit Scientific

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Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

Summit Scientific

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

Batch 1912099 - General Preparation

Blank (1912099-BLK1)

Prepared & Analyzed: 12/09/19

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

LCS (1912099-BS1)

Prepared & Analyzed: 12/09/19

Calcium	558	10.0	mg/kg wet	500	112	70-130
Magnesium	567	5.00	"	500	113	70-130
Sodium	538	5.00	"	500	108	70-130

Duplicate (1912099-DUP1)

Source: 1912130-05

Prepared & Analyzed: 12/09/19

Calcium	431	11.2	mg/kg dry	407	5.78	20
Magnesium	266	5.61	"	260	2.21	20
Sodium	58.0	5.61	"	56.4	2.77	20

Matrix Spike (1912099-MS1)

Source: 1912130-05

Prepared & Analyzed: 12/09/19

Calcium	878	11.2	mg/kg dry	561	407	83.9	70-130
Magnesium	787	5.61	"	561	260	93.9	70-130
Sodium	586	5.61	"	561	56.4	94.4	70-130

Matrix Spike Dup (1912099-MSD1)

Source: 1912130-05

Prepared & Analyzed: 12/09/19

Calcium	874	11.2	mg/kg dry	561	407	83.3	70-130	0.412	25
Magnesium	758	5.61	"	561	260	88.9	70-130	3.67	25
Sodium	570	5.61	"	561	56.4	91.6	70-130	2.73	25

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.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1912108 - General Preparation

LCS (1912108-BS1)

Prepared & Analyzed: 12/09/19

pH	9.19		pH Units	9.18	100	95-105
----	------	--	----------	------	-----	--------

Duplicate (1912108-DUP1)

Source: 1912130-05

Prepared & Analyzed: 12/09/19

pH	7.00		pH Units	6.98		0.286	20
----	------	--	----------	------	--	-------	----

Batch 1912109 - General Preparation

Duplicate (1912109-DUP1)

Source: 1912130-05

Prepared: 12/09/19 Analyzed: 12/10/19

% Solids	89.1		%	89.2		0.112	20
----------	------	--	---	------	--	-------	----

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.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch 1912106 - General Preparation

Blank (1912106-BLK1)

Prepared & Analyzed: 12/09/19

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1912106-BS1)

Prepared & Analyzed: 12/09/19

Specific Conductance (EC) 0.744 0.0100 mmhos/cm 0.750 99.1 90-110

Duplicate (1912106-DUP1)

Source: 1912130-05

Prepared & Analyzed: 12/09/19

Specific Conductance (EC) 0.199 0.0100 mmhos/cm 0.165 18.3 20

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.



Apex Companies
176 Cole Blvd. Suite 250
Lakewood CO, 80101

Project: CPR - Dier 34

Project Number: [none]
Project Manager: Maggie Graham

Reported:
12/10/19 08:57

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