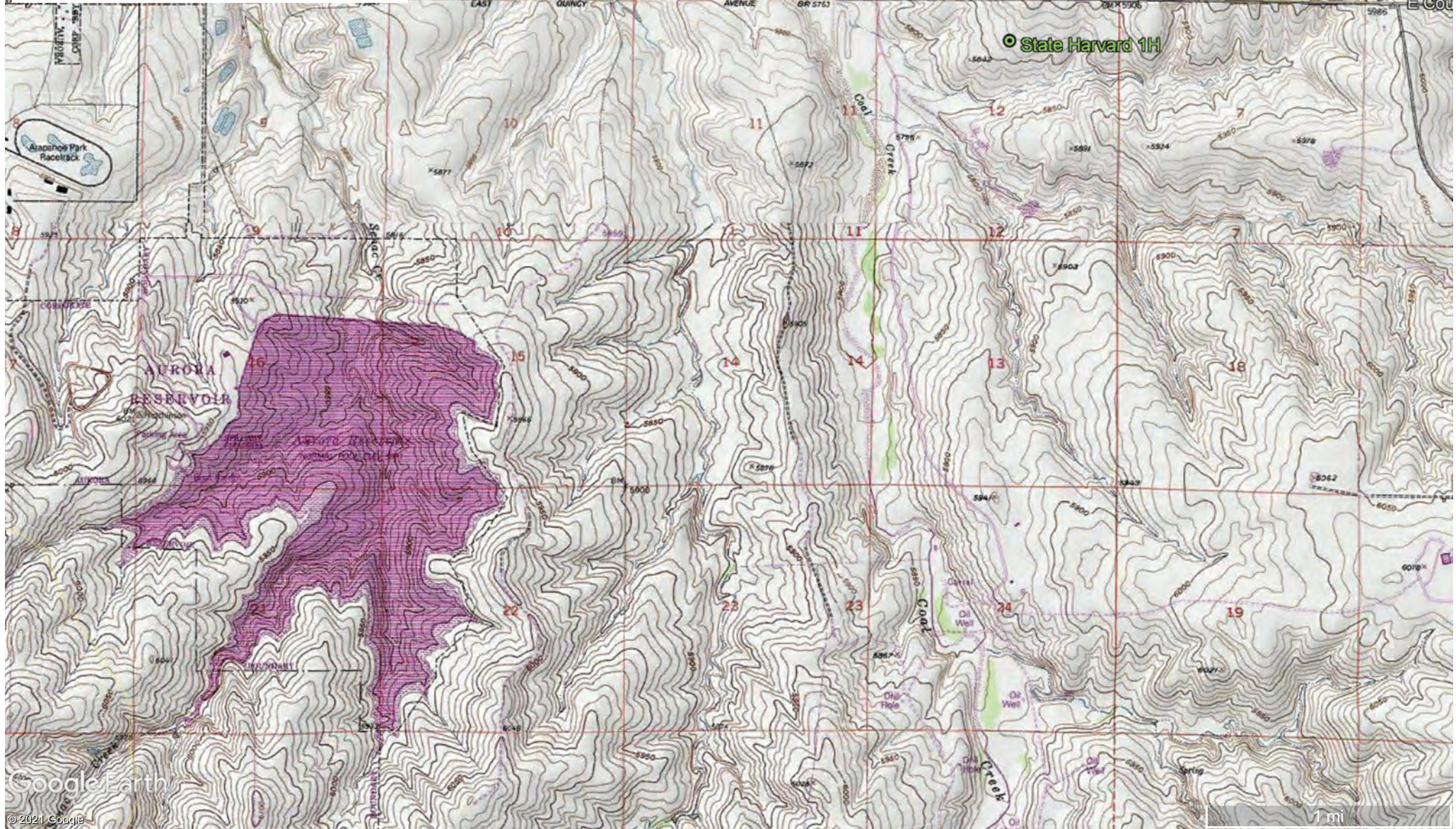




Topographic Location Map State Harvard 1H



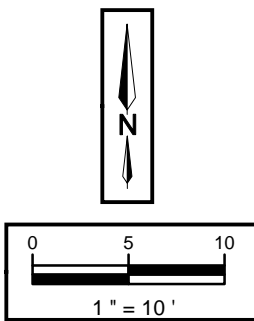


**Crestone Peak Resources
State Harvard 1H
COGCC Location ID: 436051
Site Diagram**

Legal Description: NWNE, Sec 12, T5S R65W
 County: Arapahoe
 Land Use: Non-cropland
 Topography: 3-5% Slopes
 Run-Off Risk: Low
 Soil Type: Bressner-Truckton sandy loams
 Receiving Waters: Unnamed trib

- Soil Sample (4/6/2021)
- Soil Sample (4/22/2021)
- Soil Sample (5/11/2021)
- Soil Sample (5/18/2021)
- Excavation Extent (4/6/2021)
- Excavation Extent (4/22/2021)
- Excavation Extent (5/11/2021)

* Sample ID in Purple font indicates a regulatory exceedance.



Sample ID	Latitude NAD83	Longitude NAD83
BKG01@6"	39.635465	-104.612010
S01@2"	39.635815	-104.612124
E01@2"	39.635830	-104.612105
W01@2"	39.635817	-104.612142
N01@4"	39.635840	-104.612131
B01@1.5'	39.635835	-104.612127
N02@1'	39.635846	-104.612133
B02@2.5'	39.635830	-104.612129
W02@1'	39.635815	-104.612150
B03@3.5'	39.635847	-104.612139
N03@2'	39.635857	-104.612147
B04@6'	39.635846	-104.612127



Sample Date	Sample ID	Organic Compounds in Soils (mg/kg)								Soil Suitability for Reclamation			
		TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Electrical Conductivity (EC) (by saturated paste method) (mmhos/cm)	Sodium Adsorption Ratio (SAR) (by saturated paste method) (Calculation)	pH (by saturated paste method) (pH Units)	Boron (hot water soluble soil extract) (mg/L)
4/6/2021	N01@4"	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0038	4.74	30.1	8.40	1.41	
4/6/2021	E01@2"	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0038	0.695	1.35	8.31	0.0868	
4/6/2021	S01@2"	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0038	1.84	0.890	8.05	0.0521	
4/6/2021	W01@2"	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0038	21.9	19.3	7.64	0.706	
4/6/2021	B01@1.5'	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0038	26.2	82.7	8.01	3.32	
4/22/2021	N02@1'	NA	NA	NA	NA	NA	NA	NA	8.13	6.28	NA	NA	
4/22/2021	W02@1'	NA	NA	NA	NA	NA	NA	NA	0.538	2.05	NA	NA	
4/22/2021	B02@2.5'	NA	NA	NA	NA	NA	NA	NA	5.02	31.9	NA	3.54	
5/11/2021	B03@3.5'	NA	NA	NA	NA	NA	NA	NA	12.8	2.18	NA	0.441	
5/11/2021	N03@2'	NA	NA	NA	NA	NA	NA	NA	0.856	2.3	NA	0.393	
5/18/2021	B04@6'	NA	NA	NA	NA	NA	NA	NA	2.22	NA	NA	NA	

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.



Description:

20210406 - Initial Excavation Overview



Description:

20210406 - Failed Equipment Replaced



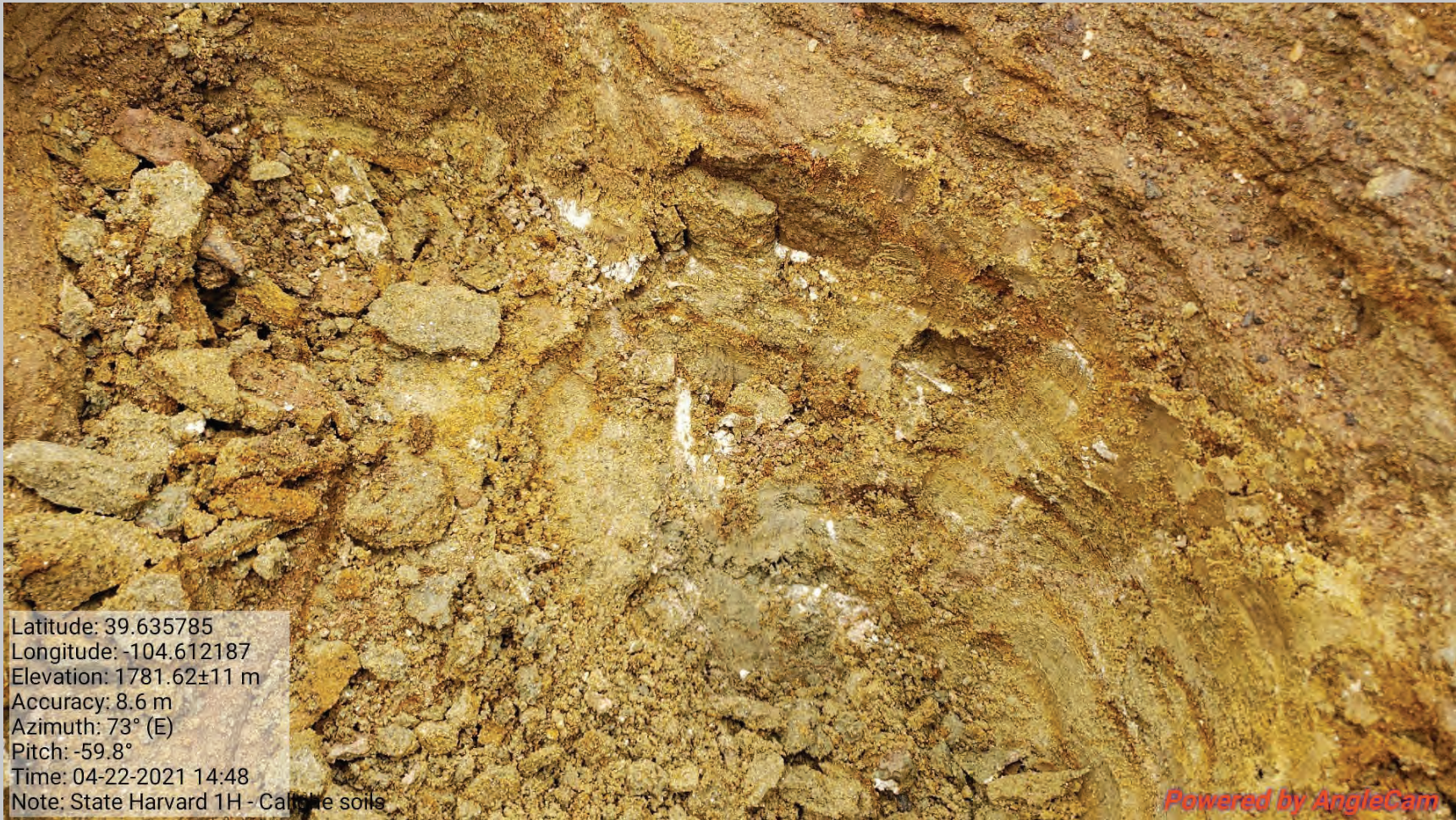
Description:

20210406 - Sample B01@1.5'



Description:

20210422 - Additional Excavation Overview

**Description:**

20210422 - White staining in sandy soils, potential natural caliche.

**Description:**

20210511 - Additional Excavation Overview. Sample location N03@2 visible on sidewall.



Latitude: 39.635852
Longitude: -104.612134
Elevation: 1786.33 m
Accuracy: 1.0 m
Azimuth: 83° (E)
Pitch: -42.5° (1.4°)
Time: 05-11-2021 11:54
Note: State Harvard 1H B03

Powered by AngleCam

Description:

20210511 - Excavation base. Standing water in excavation is from recent heavy rains



Description:

20210518 - Final Excavation extents overview. Standing water from continued rain.



Description:

20210518 - Hand Auger sample location for delineating vertical extents of elevated EC.



**Laboratory Results Summary Table
State Harvard 1H
Soil Samples**

Location	Sample Date	Sample ID	Organic Compounds in Soils (mg/kg)											Soil Suitability for Reclamation			
			TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-ORO (C28-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes (sum of o-, m- and p- isomers = total xylenes)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Naphthalene	Electrical Conductivity (EC) (by saturated paste method) (mmhos/cm)	Sodium Adsorption Ratio (SAR) (by saturated paste method) (Calculation)	pH (by saturated paste method) (pH Units)	Boron (hot water soluble soil extract) (mg/L)
COGCC Allowable Concentration (Soil) -->			500				1.2/0.0026(M)	490/0.69(M)	5.8/0.78(M)	58/9.9(M)	30/0.0081(R)	27/0.0087(R)	2/0.0038(R)	<4	<6	(6-8.3)	2
State Harvard 1H	4/6/2021	N01@4"	<50	<0.50	<50	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	4.74	30.1	8.40	1.41
State Harvard 1H	4/6/2021	E01@2"	<50	<0.50	<50	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.695	1.35	8.31	0.0868
State Harvard 1H	4/6/2021	S01@2"	<50	<0.50	<50	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	1.84	0.890	8.05	0.0521
State Harvard 1H	4/6/2021	W01@2"	<50	<0.50	<50	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	21.9	19.3	7.64	0.706
State Harvard 1H	4/6/2021	B01@1.5'	<50	<0.50	<50	<50	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	26.2	82.7	8.01	3.32
State Harvard 1H	4/6/2021	BKG01@6"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0038	0.513	0.273	8.56	0.122
State Harvard 1H	4/22/2021	N02@1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.13	6.28	NA	NA
State Harvard 1H	4/22/2021	W02@1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.538	2.05	NA	NA
State Harvard 1H	4/22/2021	B02@2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.02	31.9	NA	3.54
State Harvard 1H	5/11/2021	B03@3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.8	2.18	NA	0.441
State Harvard 1H	5/11/2021	N03@2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.856	2.3	NA	0.393
State Harvard 1H	5/18/2021	B04@6'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.22	NA	NA	NA

Legend:
 COGCC - Colorado Oil and Gas Conservation Commission
 Orange Highlight - COGCC Table 915-1 TPH, BTEX, organic, metal exceedance
 Yellow Highlight - COGCC Table 915-1 inorganic exceedance
 Grey Highlight - below laboratory detection limit
 Light Blue Highlight - exceedance of protection of groundwater soil screening level concentrations risk based (R) or MCL based (M)
 MCL - maximum contaminant level
 NA - not analyzed
 mg/kg - milligrams per kilogram
 mmhos/cm - millimhos per centimeter

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 15, 2021

Maggie Graham
Apex Companies
176 Cole Blvd. Suite 250
Lakewood, CO 80101
RE: CPR - State Harvard 1H
Work Order #2104083

Enclosed are the results of analyses for samples received by Summit Scientific on 04/06/21 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', is written over a light gray rectangular background.

Paul Shrewsbury
President



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

Project: CPR - State Harvard 1H

Project Number: [none]

Project Manager: Maggie Graham

Reported:
04/15/21 07:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@4"	2104083-01	Soil	04/06/21 13:00	04/06/21 15:20
E01@2"	2104083-02	Soil	04/06/21 13:05	04/06/21 15:20
S01@2"	2104083-03	Soil	04/06/21 13:10	04/06/21 15:20
W01@2"	2104083-04	Soil	04/06/21 12:55	04/06/21 15:20
B01@1.5'	2104083-05	Soil	04/06/21 12:50	04/06/21 15:20
BKG01@2"	2104083-06	Soil	04/06/21 13:15	04/06/21 15:20

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.

2104083

Summit Scientific

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: Chris Lattes

Project Manager: Maggie Graham 720-501-5065
E-Mail: DenverRemediation@ApexCos.onmicrosoft.com
Project Name: CAR - state Harvard's 14
Project Number: TBD

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)						
<u>NG1 @</u>	<u>4/6/21</u>	<u>13:00</u>	<u>2</u>						<input checked="" type="checkbox"/>								
<u>EQ1 @</u>		<u>13:05</u>	<u>2</u>						<input checked="" type="checkbox"/>								
<u>SO1 @</u>		<u>13:10</u>	<u>2</u>						<input checked="" type="checkbox"/>								
<u>WO1 @</u>		<u>12:55</u>	<u>2</u>						<input checked="" type="checkbox"/>								
<u>BO1 @</u>		<u>12:50</u>	<u>2</u>						<input checked="" type="checkbox"/>								
<u>BK6 q1 @</u>	<u>4/6/21</u>	<u>13:15</u>	<u>2</u>						<input checked="" type="checkbox"/>								
Relinquished by: <u>Chris Lattes</u> Date/Time: <u>4/6/21 15:20</u>				Received by: <u>[Signature]</u> Date/Time: <u>4-6-21 15:20</u>				Turn Around Time (Check)				Notes					
Relinquished by:				Received by:				Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/>				Circle applicable regulatory agency:					
Relinquished by:				Received by:				24 Hours <input type="checkbox"/> Standard <input type="checkbox"/>				COGCC CDPHE					
Relinquished by:				Received in Lab by:				48 Hours <input type="checkbox"/>				Client Name: <u>ON ICE</u>					
								Sample Integrity: Temperature Upon Receipt: <u>11.4</u>									
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									

Standard Turn on BK6

Sample Receipt Checklist

S2 Work Order 2104083

Client: CPR/Apex Client Project ID _____ State Harvard 1H

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

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

Temp (°C)	11.4
-----------	------

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?	✓			One same day
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			✓	
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?			✓	
<u>Additional Comments (if any):</u> 				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

MP
Custodian Printed Name or Initials

Muri Premier
Signature of Custodian

4/6/21
Date/Time



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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

N01@4"
2104083-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0205	04/12/21	04/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0187	04/12/21	04/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

N01@4"
2104083-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	1.41	0.0100	mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.5	0.0569	mg/L dry	1	BED0208	04/12/21	04/14/21	EPA 6020B	
Magnesium	7.29	0.0569	"	"	"	"	"	"	
Sodium	745	0.0569	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	30.1	0.100	units	1	BED0253	04/14/21	04/14/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.9		%	1	BED0197	04/12/21	04/13/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.74	0.0100	mmhos/cm	1	BED0239	04/13/21	04/13/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

N01@4"
2104083-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/06/21 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.40		pH Units	1	BED0240	04/13/21	04/13/21	EPA 9045D	

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

E01@2"
2104083-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0262	04/14/21	04/14/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		88.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0263	04/14/21	04/14/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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 - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

E01@2''
2104083-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0868	0.0100	mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.5	0.0607	mg/L dry	1	BED0208	04/12/21	04/14/21	EPA 6020B	
Magnesium	12.1	0.0607	"	"	"	"	"	"	
Sodium	41.0	0.0607	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.100	units	1	BED0253	04/14/21	04/14/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BED0197	04/12/21	04/13/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.695	0.0100	mmhos/cm	1	BED0239	04/13/21	04/13/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

E01@2''
2104083-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/06/21 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.31		pH Units	1	BED0240	04/13/21	04/13/21	EPA 9045D	

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

S01@2"
2104083-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0205	04/12/21	04/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0187	04/12/21	04/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

S01@2"
2104083-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0521	0.0100	mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	130	0.0533	mg/L dry	1	BED0208	04/12/21	04/14/21	EPA 6020B	
Magnesium	43.6	0.0533	"	"	"	"	"	"	
Sodium	45.9	0.0533	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.890	0.100	units	1	BED0253	04/14/21	04/14/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BED0197	04/12/21	04/13/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.84	0.0100	mmhos/cm	1	BED0239	04/13/21	04/13/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Summit Scientific

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S₂

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

Project: CPR - State Harvard 1H

Project Number: [none]

Project Manager: Maggie Graham

Reported:
04/15/21 07:13

S01@2"
2104083-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/06/21 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.05			pH Units	1	BED0240	04/13/21	04/13/21	EPA 9045D	

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

W01@2"
2104083-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0205	04/12/21	04/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0187	04/12/21	04/13/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.5 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

W01@2"
2104083-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.706	0.0100	mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	999	0.0544	mg/L dry	1	BED0208	04/12/21	04/14/21	EPA 6020B	
Magnesium	187	0.0544	"	"	"	"	"	"	
Sodium	2530	0.0544	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	19.3	0.100	units	1	BED0253	04/14/21	04/14/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BED0197	04/12/21	04/13/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	21.9	0.0100	mmhos/cm	1	BED0239	04/13/21	04/13/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

W01@2"
2104083-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/06/21 12:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.64		pH Units	1	BED0240	04/13/21	04/13/21	EPA 9045D	

Summit Scientific

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

Project: CPR - State Harvard IH

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

B01@1.5'
2104083-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BED0092	04/06/21	04/06/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		87.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BED0093	04/06/21	04/06/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.3 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

B01@1.5'
2104083-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	3.32	0.0100		mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.588	0.267		mg/kg dry	1	BED0166	04/09/21	04/09/21	EPA 6020B	
Barium	56.5	0.535		"	"	"	"	"	"	
Cadmium	ND	0.267		"	"	"	"	"	"	
Copper	7.98	0.535		"	"	"	"	"	"	
Lead	8.92	0.267		"	"	"	"	"	"	
Nickel	6.70	0.535		"	"	"	"	"	"	
Selenium	0.996	0.348		"	"	"	"	"	"	
Silver	ND	0.0267		"	"	"	"	"	"	
Zinc	41.9	0.535		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BED0192	04/12/21	04/12/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	294	0.0668		mg/L dry	1	BED0208	04/12/21	04/14/21	EPA 6020B	
Magnesium	50.8	0.0668		"	"	"	"	"	"	
Sodium	5840	0.0668		"	"	"	"	"	"	

Summit Scientific

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

Project: CPR - State Harvard IH

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

B01@1.5'
2104083-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	82.7	0.100	units	1	BED0253	04/14/21	04/14/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.8		%	1	BED0127	04/08/21	04/08/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	26.2	0.0100	mmhos/cm	1	BED0239	04/13/21	04/13/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/06/21 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BED0240	"	04/13/21	EPA 9045D	

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

BKG01@2"
2104083-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.122	0.0100	mg/L	1	BED0193	04/12/21	04/12/21	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.26	0.225	mg/kg dry	1	BED0136	04/08/21	04/09/21	EPA 6020B	
Barium	120	0.450	"	"	"	"	"	"	
Cadmium	ND	0.225	"	"	"	"	"	"	
Copper	13.7	0.450	"	"	"	"	"	"	
Lead	13.2	0.225	"	"	"	"	"	"	
Nickel	8.63	0.450	"	"	"	"	"	"	
Selenium	1.09	0.293	"	"	"	"	"	"	
Silver	0.0571	0.0225	"	"	"	"	"	"	
Zinc	64.7	0.450	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BED0144	04/07/21	04/08/21	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	59.4	0.0563	mg/L dry	1	BED0208	04/12/21	04/14/21	EPA 6020B	
Magnesium	11.5	0.0563	"	"	"	"	"	"	
Sodium	8.77	0.0563	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

BKG01@2"
2104083-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.273	0.100	units	1	BED0253	04/14/21	04/14/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.8		%	1	BED0197	04/12/21	04/13/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.513	0.0100	mmhos/cm	1	BED0239	04/13/21	04/13/21	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **04/06/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BED0240	"	04/13/21	EPA 9045D	

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

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 BED0092 - EPA 5030 Soil MS

Blank (BED0092-BLK1)

Prepared & Analyzed: 04/06/21

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0406		"	0.0400		102		23-173			
<i>Surrogate: Toluene-d8</i>	0.0328		"	0.0400		82.0		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0308		"	0.0400		76.9		21-167			

LCS (BED0092-BS1)

Prepared: 04/06/21 Analyzed: 04/07/21

Benzene	0.102	0.0020	mg/kg	0.100		102		70-130			
Toluene	0.0955	0.0050	"	0.100		95.5		70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115		70-130			
m,p-Xylene	0.229	0.010	"	0.200		115		70-130			
o-Xylene	0.119	0.0050	"	0.100		119		70-130			
1,2,4-Trimethylbenzene	0.112	0.0050	"	0.100		112		70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100		107		70-130			
Naphthalene	0.0940	0.0038	"	0.100		94.0		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0429		"	0.0400		107		23-173			
<i>Surrogate: Toluene-d8</i>	0.0329		"	0.0400		82.3		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0306		"	0.0400		76.4		21-167			

Matrix Spike (BED0092-MS1)

Source: 2104082-01

Prepared: 04/06/21 Analyzed: 04/07/21

Benzene	0.102	0.0020	mg/kg	0.100	ND	102		70-130			
Toluene	0.0961	0.0050	"	0.100	ND	96.1		70-130			
Ethylbenzene	0.114	0.0050	"	0.100	ND	114		70-130			
m,p-Xylene	0.229	0.010	"	0.200	0.00396	113		70-130			
o-Xylene	0.120	0.0050	"	0.100	ND	120		70-130			
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100	ND	115		70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107		70-130			
Naphthalene	0.115	0.0038	"	0.100	ND	115		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0433		"	0.0400		108		23-173			
<i>Surrogate: Toluene-d8</i>	0.0329		"	0.0400		82.2		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0300		"	0.0400		75.1		21-167			

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

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		

Batch BED0092 - EPA 5030 Soil MS

Matrix Spike Dup (BED0092-MSD1)	Source: 2104082-01			Prepared: 04/06/21 Analyzed: 04/07/21						
Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130	0.206	30	
Toluene	0.0961	0.0050	"	0.100	ND	96.1	70-130	0.0312	30	
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130	1.25	30	
m,p-Xylene	0.226	0.010	"	0.200	0.00396	111	70-130	1.53	30	
o-Xylene	0.117	0.0050	"	0.100	ND	117	70-130	2.50	30	
1,2,4-Trimethylbenzene	0.114	0.0050	"	0.100	ND	114	70-130	1.34	30	
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	0.837	30	
Naphthalene	0.0990	0.0038	"	0.100	ND	99.0	70-130	14.9	30	
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0400		113	23-173			
Surrogate: Toluene-d8	0.0333		"	0.0400		83.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0307		"	0.0400		76.7	21-167			

Batch BED0205 - EPA 5030 Soil MS

Blank (BED0205-BLK1)	Prepared & Analyzed: 04/12/21									
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0305		"	0.0400		76.4	23-173			
Surrogate: Toluene-d8	0.0419		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

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 BED0205 - EPA 5030 Soil MS

LCS (BED0205-BS1)

Prepared & Analyzed: 04/12/21

Benzene	0.0812	0.0020	mg/kg	0.100		81.2	70-130			
Toluene	0.0907	0.0050	"	0.100		90.7	70-130			
Ethylbenzene	0.101	0.0050	"	0.100		101	70-130			
m,p-Xylene	0.174	0.010	"	0.200		87.2	70-130			
o-Xylene	0.0857	0.0050	"	0.100		85.7	70-130			
1,2,4-Trimethylbenzene	0.0880	0.0050	"	0.100		88.0	70-130			
1,3,5-Trimethylbenzene	0.0853	0.0050	"	0.100		85.3	70-130			
Naphthalene	0.0783	0.0038	"	0.100		78.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0251		"	0.0400		62.7	23-173			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		93.9	21-167			

Matrix Spike (BED0205-MS1)

Source: 2104179-01

Prepared & Analyzed: 04/12/21

Benzene	0.0750	0.0020	mg/kg	0.100	ND	75.0	70-130			
Toluene	0.0830	0.0050	"	0.100	ND	83.0	70-130			
Ethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.155	0.010	"	0.200	ND	77.6	70-130			
o-Xylene	0.0787	0.0050	"	0.100	ND	78.7	70-130			
1,2,4-Trimethylbenzene	0.0814	0.0050	"	0.100	ND	81.4	70-130			
1,3,5-Trimethylbenzene	0.0764	0.0050	"	0.100	ND	76.4	70-130			
Naphthalene	0.0934	0.0038	"	0.100	ND	93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0267		"	0.0400		66.8	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.5	21-167			

Matrix Spike Dup (BED0205-MSD1)

Source: 2104179-01

Prepared & Analyzed: 04/12/21

Benzene	0.0732	0.0020	mg/kg	0.100	ND	73.2	70-130	2.43	30	
Toluene	0.0767	0.0050	"	0.100	ND	76.7	70-130	7.92	30	
Ethylbenzene	0.0856	0.0050	"	0.100	ND	85.6	70-130	2.76	30	
m,p-Xylene	0.150	0.010	"	0.200	ND	75.2	70-130	3.10	30	
o-Xylene	0.0762	0.0050	"	0.100	ND	76.2	70-130	3.18	30	
1,2,4-Trimethylbenzene	0.0781	0.0050	"	0.100	ND	78.1	70-130	4.14	30	
1,3,5-Trimethylbenzene	0.0740	0.0050	"	0.100	ND	74.0	70-130	3.15	30	
Naphthalene	0.0968	0.0038	"	0.100	ND	96.8	70-130	3.63	30	
Surrogate: 1,2-Dichloroethane-d4	0.0295		"	0.0400		73.6	23-173			
Surrogate: Toluene-d8	0.0361		"	0.0400		90.2	20-170			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.1	21-167			

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

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 BED0262 - EPA 5030 Soil MS

Blank (BED0262-BLK1)

Prepared & Analyzed: 04/14/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0265		"	0.0400		66.2	23-173			
<i>Surrogate: Toluene-d8</i>	0.0491		"	0.0400		123	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	21-167			

LCS (BED0262-BS1)

Prepared & Analyzed: 04/14/21

Benzene	0.0777	0.0020	mg/kg	0.100		77.7	70-130			
Toluene	0.107	0.0050	"	0.100		107	70-130			
Ethylbenzene	0.100	0.0050	"	0.100		100	70-130			
m,p-Xylene	0.179	0.010	"	0.200		89.7	70-130			
o-Xylene	0.0898	0.0050	"	0.100		89.8	70-130			
1,2,4-Trimethylbenzene	0.0923	0.0050	"	0.100		92.3	70-130			
1,3,5-Trimethylbenzene	0.0887	0.0050	"	0.100		88.7	70-130			
Naphthalene	0.0779	0.0038	"	0.100		77.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0219		"	0.0400		54.8	23-173			
<i>Surrogate: Toluene-d8</i>	0.0432		"	0.0400		108	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0389		"	0.0400		97.2	21-167			

Matrix Spike (BED0262-MS1)

Source: 2104227-01

Prepared & Analyzed: 04/14/21

Benzene	0.0755	0.0020	mg/kg	0.100	ND	75.5	70-130			
Toluene	0.0918	0.0050	"	0.100	ND	91.8	70-130			
Ethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130			
m,p-Xylene	0.164	0.010	"	0.200	ND	82.0	70-130			
o-Xylene	0.0819	0.0050	"	0.100	ND	81.9	70-130			
1,2,4-Trimethylbenzene	0.0856	0.0050	"	0.100	ND	85.6	70-130			
1,3,5-Trimethylbenzene	0.0821	0.0050	"	0.100	ND	82.1	70-130			
Naphthalene	0.0873	0.0038	"	0.100	ND	87.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0261		"	0.0400		65.2	23-173			
<i>Surrogate: Toluene-d8</i>	0.0418		"	0.0400		104	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0380		"	0.0400		94.9	21-167			

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

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 BED0262 - EPA 5030 Soil MS

Matrix Spike Dup (BED0262-MSD1)	Source: 2104227-01			Prepared & Analyzed: 04/14/21						
Benzene	0.0805	0.0020	mg/kg	0.100	ND	80.5	70-130	6.31	30	
Toluene	0.0952	0.0050	"	0.100	ND	95.2	70-130	3.69	30	
Ethylbenzene	0.0977	0.0050	"	0.100	ND	97.7	70-130	4.72	30	
m,p-Xylene	0.172	0.010	"	0.200	ND	85.8	70-130	4.60	30	
o-Xylene	0.0876	0.0050	"	0.100	ND	87.6	70-130	6.73	30	
1,2,4-Trimethylbenzene	0.0891	0.0050	"	0.100	ND	89.1	70-130	4.09	30	
1,3,5-Trimethylbenzene	0.0850	0.0050	"	0.100	ND	85.0	70-130	3.45	30	
Naphthalene	0.0967	0.0038	"	0.100	ND	96.7	70-130	10.2	30	
Surrogate: 1,2-Dichloroethane-d4	0.0268		"	0.0400		67.0	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	21-167			

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BED0093 - EPA 3550A

Blank (BED0093-BLK1)

Prepared: 04/06/21 Analyzed: 04/07/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BED0093-BS1)

Prepared: 04/06/21 Analyzed: 04/07/21

C10-C28 (DRO)	588	50	mg/kg	500	118	70-130				
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Matrix Spike (BED0093-MS1)

Source: 2104082-01

Prepared: 04/06/21 Analyzed: 04/07/21

C10-C28 (DRO)	477	50	mg/kg	500	ND	95.5	70-130			
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Matrix Spike Dup (BED0093-MSD1)

Source: 2104082-01

Prepared: 04/06/21 Analyzed: 04/07/21

C10-C28 (DRO)	532	50	mg/kg	500	ND	106	70-130	10.8	20	
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Batch BED0187 - EPA 3550A

Blank (BED0187-BLK1)

Prepared & Analyzed: 04/12/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BED0187-BS1)

Prepared & Analyzed: 04/12/21

C10-C28 (DRO)	424	50	mg/kg	500	84.7	70-130				
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Matrix Spike (BED0187-MS1)

Source: 2104083-01

Prepared & Analyzed: 04/12/21

C10-C28 (DRO)	458	50	mg/kg	500	13.0	89.1	70-130			
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Matrix Spike Dup (BED0187-MSD1)

Source: 2104083-01

Prepared: 04/12/21 Analyzed: 04/13/21

C10-C28 (DRO)	471	50	mg/kg	500	13.0	91.6	70-130	2.72	20	
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Apex Companies
 176 Cole Blvd. Suite 250
 Lakewood CO, 80101

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BED0263 - EPA 3550A

Blank (BED0263-BLK1)

Prepared & Analyzed: 04/14/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BED0263-BS1)

Prepared & Analyzed: 04/14/21

C10-C28 (DRO)	357	50	mg/kg	500	71.4	70-130				
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Matrix Spike (BED0263-MS1)

Source: 2104227-01

Prepared & Analyzed: 04/14/21

C10-C28 (DRO)	513	50	mg/kg	500	13.2	100	70-130			
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Matrix Spike Dup (BED0263-MSD1)

Source: 2104227-01

Prepared & Analyzed: 04/14/21

C10-C28 (DRO)	505	50	mg/kg	500	13.2	98.4	70-130	1.66	20	
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Apex Companies
 176 Cole Blvd. Suite 250
 Lakewood CO, 80101

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BED0193 - EPA 3050B

Blank (BED0193-BLK1)				Prepared & Analyzed: 04/12/21							
Boron	ND	0.0100	mg/L								
LCS (BED0193-BS1)				Prepared & Analyzed: 04/12/21							
Boron	5.70	0.0100	mg/L	5.00	114	80-120					
Duplicate (BED0193-DUP1)				Source: 2103425-03		Prepared & Analyzed: 04/12/21					
Boron	0.300	0.0100	mg/L	0.310			3.37	20			
Matrix Spike (BED0193-MS1)				Source: 2103425-03		Prepared & Analyzed: 04/12/21					
Boron	6.09	0.0100	mg/L	5.00	0.310	116	75-125				
Matrix Spike Dup (BED0193-MSD1)				Source: 2103425-03		Prepared & Analyzed: 04/12/21					
Boron	6.11	0.0100	mg/L	5.00	0.310	116	75-125	0.296	25		

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0136 - EPA 3050B

Blank (BED0136-BLK1)

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Selenium	ND	0.260	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						

LCS (BED0136-BS1)

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	37.2	0.200	mg/kg wet	40.0	93.0	80-120
Barium	33.8	0.400	"	40.0	84.6	80-120
Cadmium	1.88	0.200	"	2.00	93.9	80-120
Copper	34.9	0.400	"	40.0	87.1	80-120
Lead	17.4	0.200	"	20.0	86.9	80-120
Nickel	33.7	0.400	"	40.0	84.1	80-120
Selenium	3.34	0.260	"	4.00	83.5	80-120
Silver	1.79	0.0200	"	2.00	89.6	80-120
Zinc	38.5	0.400	"	40.0	96.3	80-120

Duplicate (BED0136-DUP1)

Source: 2103388-18

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	2.35	0.215	mg/kg dry	1.75	29.4	30
Barium	49.1	0.430	"	41.6	16.4	30
Cadmium	0.119	0.215	"	0.0996	17.9	30
Copper	4.23	0.430	"	3.64	15.1	30
Lead	5.43	0.215	"	5.10	6.26	30
Nickel	3.62	0.430	"	3.37	7.33	30
Selenium	0.508	0.280	"	0.473	6.99	30
Silver	0.0202	0.0215	"	0.0193	4.64	30
Zinc	19.2	0.430	"	17.2	11.1	30

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

Project: CPR - State Harvard IH

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0136 - EPA 3050B

Matrix Spike (BED0136-MS1)

Source: 2103388-18

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	49.9	0.215	mg/kg dry	43.0	1.75	112	75-125			
Barium	95.2	0.430	"	43.0	41.6	125	75-125			
Cadmium	2.38	0.215	"	2.15	0.0996	106	75-125			
Copper	50.6	0.430	"	43.0	3.64	109	75-125			
Lead	31.7	0.215	"	21.5	5.10	124	75-125			
Nickel	50.0	0.430	"	43.0	3.37	108	75-125			
Selenium	5.11	0.280	"	4.30	0.473	108	75-125			
Silver	2.54	0.0215	"	2.15	0.0193	117	75-125			
Zinc	56.7	0.430	"	43.0	17.2	91.9	75-125			

Matrix Spike Dup (BED0136-MSD1)

Source: 2103388-18

Prepared: 04/08/21 Analyzed: 04/09/21

Arsenic	39.9	0.215	mg/kg dry	43.0	1.75	88.5	75-125	22.4	25
Barium	94.9	0.430	"	43.0	41.6	124	75-125	0.360	25
Cadmium	2.34	0.215	"	2.15	0.0996	104	75-125	2.02	25
Copper	43.0	0.430	"	43.0	3.64	91.4	75-125	16.3	25
Lead	32.0	0.215	"	21.5	5.10	125	75-125	1.11	25
Nickel	42.1	0.430	"	43.0	3.37	90.1	75-125	17.1	25
Selenium	4.15	0.280	"	4.30	0.473	85.5	75-125	20.6	25
Silver	2.34	0.0215	"	2.15	0.0193	108	75-125	7.93	25
Zinc	58.0	0.430	"	43.0	17.2	95.0	75-125	2.30	25

Batch BED0166 - EPA 3050B

Blank (BED0166-BLK1)

Prepared & Analyzed: 04/09/21

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Selenium	ND	0.260	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						

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 - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0166 - EPA 3050B

LCS (BED0166-BS1)

Prepared & Analyzed: 04/09/21

Arsenic	36.0	0.200	mg/kg wet	40.0		90.0	80-120			
Barium	40.9	0.400	"	40.0		102	80-120			
Cadmium	1.98	0.200	"	2.00		99.2	80-120			
Copper	39.2	0.400	"	40.0		98.1	80-120			
Lead	19.7	0.200	"	20.0		98.3	80-120			
Nickel	42.0	0.400	"	40.0		105	80-120			
Selenium	3.86	0.260	"	4.00		96.5	80-120			
Silver	1.94	0.0200	"	2.00		97.2	80-120			
Zinc	39.7	0.400	"	40.0		99.3	80-120			

Duplicate (BED0166-DUP1)

Source: 2103237-08

Prepared & Analyzed: 04/09/21

Arsenic	1.62	0.238	mg/kg dry		1.70			4.97	30
Barium	43.0	0.475	"		53.0			20.9	30
Cadmium	0.0581	0.238	"		0.0664			13.4	30
Copper	5.07	0.475	"		6.69			27.5	30
Lead	3.17	0.238	"		4.16			27.0	30
Nickel	5.69	0.475	"		7.53			27.8	30
Selenium	0.416	0.309	"		0.407			2.17	30
Silver	0.0463	0.0238	"		0.0446			3.75	30
Zinc	19.6	0.475	"		24.5			22.2	30

Matrix Spike (BED0166-MS1)

Source: 2103237-08

Prepared: 04/09/21 Analyzed: 04/12/21

Arsenic	39.4	0.238	mg/kg dry	47.5	1.70	79.4	75-125
Barium	91.3	0.475	"	47.5	53.0	80.5	75-125
Cadmium	2.35	0.238	"	2.38	0.0664	96.0	75-125
Copper	44.5	0.475	"	47.5	6.69	79.6	75-125
Lead	24.9	0.238	"	23.8	4.16	87.1	75-125
Nickel	46.2	0.475	"	47.5	7.53	81.5	75-125
Selenium	4.35	0.309	"	4.75	0.407	83.0	75-125
Silver	2.26	0.0238	"	2.38	0.0446	93.1	75-125
Zinc	68.8	0.475	"	47.5	24.5	93.1	75-125

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BED0166 - EPA 3050B

Matrix Spike Dup (BED0166-MSD1)	Source: 2103237-08			Prepared: 04/09/21		Analyzed: 04/12/21					
Arsenic	46.4	0.238	mg/kg dry	47.5	1.70	94.0	75-125	16.2	25		
Barium	90.1	0.475	"	47.5	53.0	78.0	75-125	1.32	25		
Cadmium	2.32	0.238	"	2.38	0.0664	94.7	75-125	1.35	25		
Copper	47.3	0.475	"	47.5	6.69	85.5	75-125	6.17	25		
Lead	24.8	0.238	"	23.8	4.16	86.9	75-125	0.195	25		
Nickel	49.0	0.475	"	47.5	7.53	87.3	75-125	5.84	25		
Selenium	4.35	0.309	"	4.75	0.407	82.9	75-125	0.0876	25		
Silver	2.23	0.0238	"	2.38	0.0446	92.0	75-125	1.15	25		
Zinc	67.7	0.475	"	47.5	24.5	90.9	75-125	1.55	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 - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BED0144 - 3060A Mod

Blank (BED0144-BLK1)											
											Prepared: 04/07/21 Analyzed: 04/08/21
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BED0144-BS1)											
											Prepared: 04/07/21 Analyzed: 04/08/21
Chromium, Hexavalent	25.5	0.30	mg/kg wet	25.0		102	80-120				
Duplicate (BED0144-DUP1)											
											Source: 2103406-03 Prepared: 04/07/21 Analyzed: 04/08/21
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND						20
Matrix Spike (BED0144-MS1)											
											Source: 2103406-03 Prepared: 04/07/21 Analyzed: 04/08/21
Chromium, Hexavalent	27.5	0.30	mg/kg dry	26.4	ND	104	75-125				
Matrix Spike Dup (BED0144-MSD1)											
											Source: 2103406-03 Prepared: 04/07/21 Analyzed: 04/08/21
Chromium, Hexavalent	27.5	0.30	mg/kg dry	26.4	ND	104	75-125	0.00			20

Batch BED0192 - 3060A Mod

Blank (BED0192-BLK1)											
											Prepared & Analyzed: 04/12/21
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BED0192-BS1)											
											Prepared & Analyzed: 04/12/21
Chromium, Hexavalent	24.2	0.30	mg/kg wet	25.0		97.0	80-120				
Duplicate (BED0192-DUP1)											
											Source: 2104083-05 Prepared & Analyzed: 04/12/21
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND						20
Matrix Spike (BED0192-MS1)											
											Source: 2104083-05 Prepared & Analyzed: 04/12/21
Chromium, Hexavalent	31.8	0.30	mg/kg dry	33.4	ND	95.0	75-125				

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BED0192 - 3060A Mod

Matrix Spike Dup (BED0192-MSD1)

Source: 2104083-05

Prepared & Analyzed: 04/12/21

Chromium, Hexavalent	31.8	0.30	mg/kg dry	33.4	ND	95.0	75-125	0.00	20	
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Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0208 - General Preparation

Blank (BED0208-BLK1)

Prepared: 04/12/21 Analyzed: 04/14/21

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BED0208-BS1)

Prepared: 04/12/21 Analyzed: 04/14/21

Calcium	5.36	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.14	0.0500	"	5.00	103	70-130
Sodium	4.88	0.0500	"	5.00	97.6	70-130

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

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

Summit Scientific

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

Batch BED0127 - General Preparation

Duplicate (BED0127-DUP1)		Source: 2104005-03			Prepared & Analyzed: 04/08/21						
% Solids	75.4		%		75.2				0.267	20	

Batch BED0197 - General Preparation

Duplicate (BED0197-DUP1)		Source: 2103237-08			Prepared: 04/12/21 Analyzed: 04/13/21						
% Solids	86.1		%		84.2				2.30	20	

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/15/21 07:13

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0239 - General Preparation

Blank (BED0239-BLK1)

Prepared & Analyzed: 04/13/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BED0239-BS1)

Prepared & Analyzed: 04/13/21

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 90-110

Duplicate (BED0239-DUP1)

Source: 2104083-01

Prepared & Analyzed: 04/13/21

Specific Conductance (EC) 4.76 0.0100 mmhos/cm 4.74 0.316 20

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/15/21 07:13

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0240 - General Preparation

LCS (BED0240-BS1)

Prepared & Analyzed: 04/13/21

pH	9.31	pH Units	9.21	101	95-105
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Duplicate (BED0240-DUP1)

Source: 2104083-01

Prepared & Analyzed: 04/13/21

pH	8.44	pH Units	8.40	0.475	20
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Summit Scientific

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

Project: CPR - State Harvard IH

Project Number: [none]

Project Manager: Maggie Graham

Reported:
04/15/21 07:13

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 30, 2021

Maggie Graham

Apex Companies

176 Cole Blvd. Suite 250

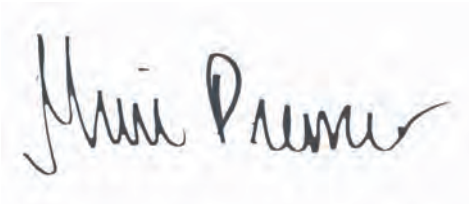
Lakewood, CO 80101

RE: CPR - State Harvard 1H

Work Order #2104354

Enclosed are the results of analyses for samples received by Summit Scientific on 04/22/21 16:20. 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



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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/30/21 14:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@1	2104354-01	Soil	04/22/21 14:40	04/22/21 16:20
W02@1	2104354-02	Soil	04/22/21 14:50	04/22/21 16:20
B02@2.5	2104354-03	Soil	04/22/21 13:00	04/22/21 16:20

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.

Sample Receipt Checklist

S2 Work Order 2104354

Client: Apex/CPD Client Project ID: State Harvard IH

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

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

Temp (°C)	14.9°
-----------	-------

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"/>	a/c
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"/>	Same Day
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 checked="" type="checkbox"/> AT	<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

4-22-21
Date/Time



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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/30/21 14:51

N02@1
2104354-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/22/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	469	0.0661	mg/L dry	1	BED0477	04/28/21	04/29/21	EPA 6020B	
Magnesium	139	0.0661	"	"	"	"	"	"	
Sodium	603	0.0661	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/22/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.28	0.00100	units	1	BED0519	04/30/21	04/30/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/22/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.6		%	1	BED0474	04/28/21	04/28/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/22/21 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	8.13	0.0100	mmhos/cm	1	BED0499	04/29/21	04/29/21	EPA 120.1	

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/30/21 14:51

W02@1
2104354-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/22/21 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	31.5	0.0671	mg/L dry	1	BED0477	04/28/21	04/29/21	EPA 6020B	
Magnesium	9.71	0.0671	"	"	"	"	"	"	
Sodium	51.3	0.0671	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/22/21 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.05	0.00100	units	1	BED0519	04/30/21	04/30/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/22/21 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	74.5		%	1	BED0474	04/28/21	04/28/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/22/21 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.538	0.0100	mmhos/cm	1	BED0499	04/29/21	04/29/21	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 - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
04/30/21 14:51

B02@2.5
2104354-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/22/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	3.54	0.0100	mg/L	1	BED0403	04/23/21	04/26/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **04/22/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.8	0.0728	mg/L dry	1	BED0477	04/28/21	04/29/21	EPA 6020B	
Magnesium	11.1	0.0728	"	"	"	"	"	"	
Sodium	883	0.0728	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/22/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	31.9	0.00100	units	1	BED0519	04/30/21	04/30/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/22/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	68.7		%	1	BED0474	04/28/21	04/28/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/22/21 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.02	0.0100	mmhos/cm	1	BED0499	04/29/21	04/29/21	EPA 120.1	

Summit Scientific

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

Project: CPR - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/30/21 14:51

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BED0403 - EPA 3050B

Blank (BED0403-BLK1)

Prepared: 04/23/21 Analyzed: 04/25/21

Boron ND 0.0100 mg/L

LCS (BED0403-BS1)

Prepared: 04/23/21 Analyzed: 04/25/21

Boron 5.41 0.0100 mg/L 5.00 108 80-120

Duplicate (BED0403-DUP1)

Source: 2104144-06

Prepared: 04/23/21 Analyzed: 04/25/21

Boron 0.305 0.0100 mg/L 0.302 0.953 20

Matrix Spike (BED0403-MS1)

Source: 2104144-06

Prepared: 04/23/21 Analyzed: 04/25/21

Boron 5.19 0.0100 mg/L 5.00 0.302 97.8 75-125

Matrix Spike Dup (BED0403-MSD1)

Source: 2104144-06

Prepared: 04/23/21 Analyzed: 04/25/21

Boron 4.74 0.0100 mg/L 5.00 0.302 88.8 75-125 9.07 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 - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/30/21 14:51

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0477 - General Preparation

Blank (BED0477-BLK1)

Prepared: 04/28/21 Analyzed: 04/29/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BED0477-BS1)

Prepared: 04/28/21 Analyzed: 04/29/21

Calcium	5.43	0.0500	mg/L wet	5.00	109	70-130				
Magnesium	5.23	0.0500	"	5.00	105	70-130				
Sodium	4.88	0.0500	"	5.00	97.5	70-130				

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 - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/30/21 14:51

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

Summit Scientific

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

Batch BED0474 - General Preparation

Duplicate (BED0474-DUP1)		Source: 2104327-02		Prepared & Analyzed: 04/28/21							
% Solids	87.7		%		87.3				0.441	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 - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 04/30/21 14:51

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BED0499 - General Preparation

Blank (BED0499-BLK1)

Prepared & Analyzed: 04/29/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BED0499-BS1)

Prepared & Analyzed: 04/29/21

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 90-110

Duplicate (BED0499-DUP1)

Source: 2103484-05

Prepared & Analyzed: 04/29/21

Specific Conductance (EC) 0.394 0.0100 mmhos/cm 0.392 0.432 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 - State Harvard IH

Project Number: [none]

Project Manager: Maggie Graham

Reported:
04/30/21 14:51

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 13, 2021

Maggie Graham

Apex Companies

176 Cole Blvd. Suite 250

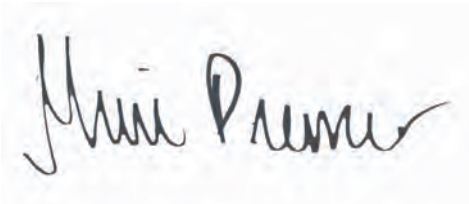
Lakewood, CO 80101

RE: CPR - State Harvard 1H

Work Order #2105121

Enclosed are the results of analyses for samples received by Summit Scientific on 05/11/21 13:15. 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

S₂

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

Project: CPR - State Harvard IH

Project Number: [none]

Project Manager: Maggie Graham

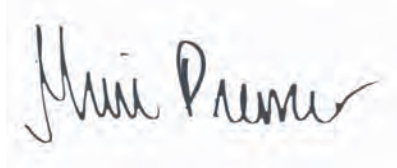
Reported:
05/13/21 15:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@3.5	2105121-01	Soil	05/11/21 10:30	05/11/21 13:15
N03@2	2105121-02	Soil	05/11/21 10:45	05/11/21 13:15

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.



Sample Receipt Checklist

S2 Work Order 2105121

Client: Apex/CPR Client Project ID: State Harvard IH

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

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

Temp (°C)	10.4
-----------	------

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?	/			Same Day
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			/	
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.

AT
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

5-11-21
Date/Time



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

Project: CPR - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
05/13/21 15:35

B03@3.5
2105121-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/11/21 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.441	0.0100	mg/L	1	BEE0186	05/12/21	05/13/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/11/21 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1740	0.0665	mg/L dry	1	BEE0171	05/11/21	05/13/21	EPA 6020B	
Magnesium	445	0.0665	"	"	"	"	"	"	
Sodium	394	0.0665	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/11/21 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.18	0.00100	units	1	BEE0229	05/13/21	05/13/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/11/21 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.1		%	1	BEE0195	05/12/21	05/13/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/11/21 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	12.8	0.0100	mmhos/cm	1	BEE0202	05/12/21	05/12/21	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 - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
05/13/21 15:35

N03@2
2105121-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/11/21 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.393	0.0100	mg/L	1	BEE0186	05/12/21	05/13/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/11/21 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.2	0.0624	mg/L dry	1	BEE0171	05/11/21	05/13/21	EPA 6020B	
Magnesium	20.8	0.0624	"	"	"	"	"	"	
Sodium	87.0	0.0624	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/11/21 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.30	0.00100	units	1	BEE0229	05/13/21	05/13/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/11/21 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BEE0195	05/12/21	05/13/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/11/21 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.856	0.0100	mmhos/cm	1	BEE0202	05/12/21	05/12/21	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 - State Harvard 1H

Project Number: [none]
Project Manager: Maggie Graham

Reported:
05/13/21 15:35

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BEE0186 - EPA 3050B

Blank (BEE0186-BLK1)

Prepared: 05/12/21 Analyzed: 05/13/21

Boron ND 0.0100 mg/L

Duplicate (BEE0186-DUP1)

Source: 2105105-01

Prepared: 05/12/21 Analyzed: 05/13/21

Boron 0.176 0.0100 mg/L 0.187 6.19 20

Matrix Spike (BEE0186-MS1)

Source: 2105105-01

Prepared: 05/12/21 Analyzed: 05/13/21

Boron 5.64 0.0100 mg/L 5.00 0.187 109 75-125

Matrix Spike Dup (BEE0186-MSD1)

Source: 2105105-01

Prepared: 05/12/21 Analyzed: 05/13/21

Boron 5.92 0.0100 mg/L 5.00 0.187 115 75-125 4.82 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 - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 05/13/21 15:35

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEE0171 - General Preparation

Blank (BEE0171-BLK1)

Prepared: 05/11/21 Analyzed: 05/13/21

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BEE0171-BS1)

Prepared: 05/11/21 Analyzed: 05/13/21

Calcium	5.29	0.0500	mg/L wet	5.00	106	70-130				
Magnesium	5.02	0.0500	"	5.00	100	70-130				
Sodium	5.21	0.0500	"	5.00	104	70-130				

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 - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 05/13/21 15:35

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

Summit Scientific

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

Batch BEE0195 - General Preparation

Duplicate (BEE0195-DUP1)	Source: 2105106-01	Prepared: 05/12/21	Analyzed: 05/13/21
% Solids	83.4	%	83.3
			0.0923
			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 - State Harvard 1H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 05/13/21 15:35

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BEE0202 - General Preparation

Blank (BEE0202-BLK1)

Prepared & Analyzed: 05/12/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEE0202-BS1)

Prepared & Analyzed: 05/12/21

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 90-110

Duplicate (BEE0202-DUP1)

Source: 2105098-01

Prepared & Analyzed: 05/12/21

Specific Conductance (EC) 2.26 0.0100 mmhos/cm 2.28 0.484 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 - State Harvard 1H

Project Number: [none]

Project Manager: Maggie Graham

Reported:
05/13/21 15:35

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

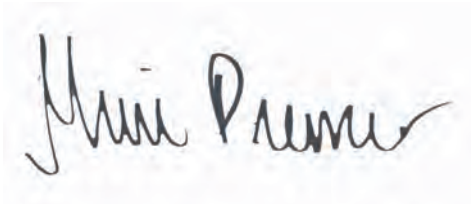
303.277.9310

May 21, 2021

Maggie Graham
Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie, WY 82070
RE: State Harvard 1-H
Work Order #2105282

Enclosed are the results of analyses for samples received by Summit Scientific on 05/18/21 16:20. 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 and is positioned above the typed name and title.

Muri Premer For Paul Shrewsbury
President



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: State Harvard 1-H

Project Number: [none]

Project Manager: Maggie Graham

Reported:
05/21/21 10:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B04@6'	2105282-01	Soil	05/18/21 10:20	05/18/21 16:20

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.

Sample Receipt Checklist

S2 Work Order 2105282
 Client: Apex Client Project ID State Harvard 1-H
 Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

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

Temp (°C)	5
-----------	---

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?	✓			Same day.
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			✓	
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.

JB
 Custodian Printed Name or Initials

Jack Br
 Signature of Custodian

5/18/21
 Date/Time



Crestone Peak Resources
 2020 E. Grand Avenue, Suite 515
 Laramie WY, 82070

Project: State Harvard 1-H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 05/21/21 10:03

B04@6'
2105282-01 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/18/21 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.22	0.0100	mmhos/cm	1	BEE0377	05/20/21	05/20/21	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.



Crestone Peak Resources
 2020 E. Grand Avenue, Suite 515
 Laramie WY, 82070

Project: State Harvard 1-H

Project Number: [none]
 Project Manager: Maggie Graham

Reported:
 05/21/21 10:03

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BEE0377 - General Preparation

Blank (BEE0377-BLK1)

Prepared & Analyzed: 05/20/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEE0377-BS1)

Prepared & Analyzed: 05/20/21

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 102 90-110

Duplicate (BEE0377-DUP1)

Source: 2105282-01

Prepared & Analyzed: 05/20/21

Specific Conductance (EC) 2.22 0.0100 mmhos/cm 2.22 0.180 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.



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: State Harvard 1-H
Project Number: [none]
Project Manager: Maggie Graham

Reported:
05/21/21 10:03

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