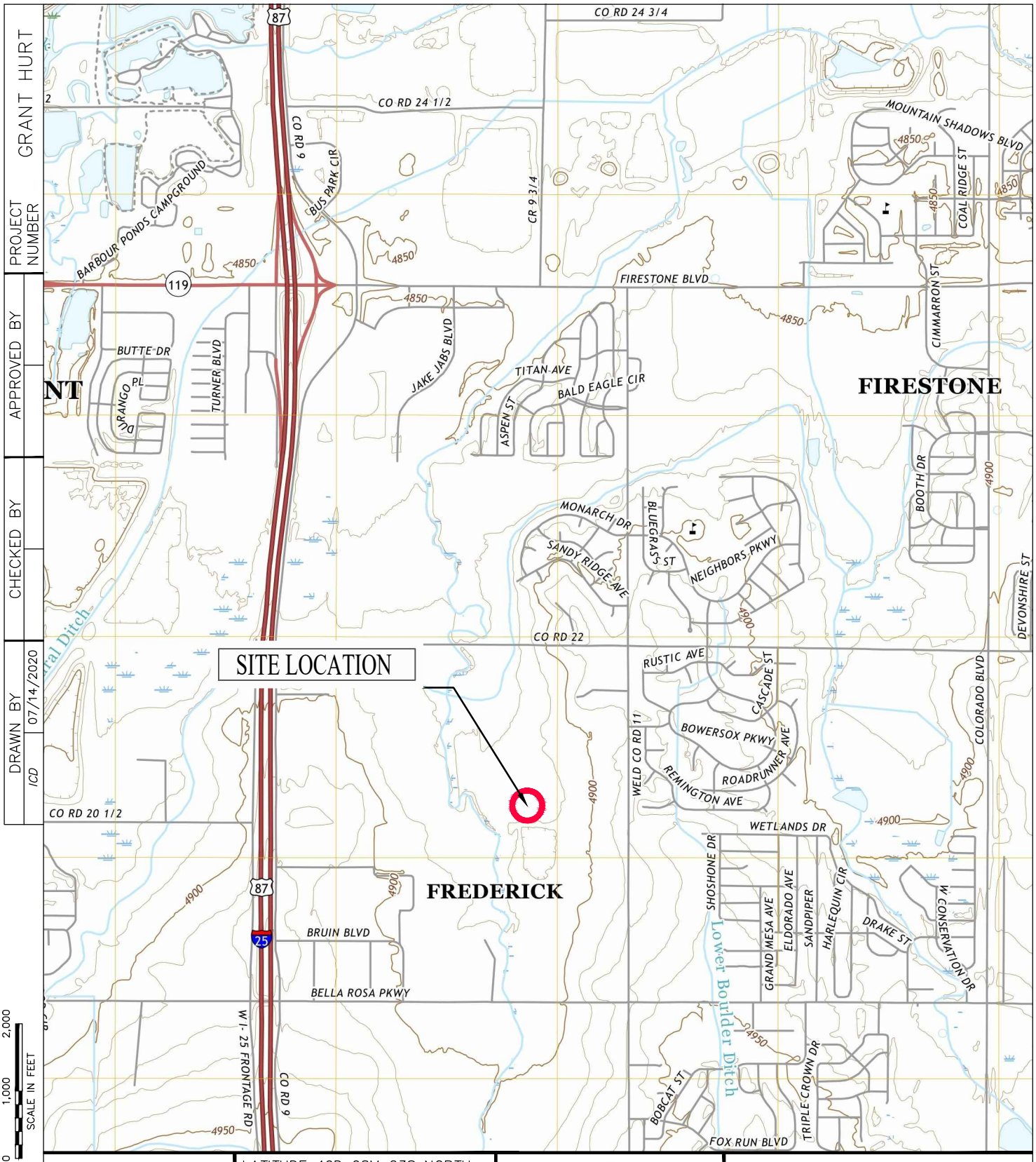

SITE

LATITUDE 40D 08M 23S NORTH
LONGITUDE 104D 57M 58S WEST

U.S. GEOLOGICAL SURVEY – 2019
7.5 MINUTE QUADRANGLE MAP
GOWANDA, COLORADO

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CRESTONE PEAK RESOURCES

GRANT–HURT 14H

FIGURE 1

SITE LOCATION MAP

40.13928, –104.96659
FIRESTONE, COLORADO

PROJECT NUMBER GRANT HURT

APPROVED BY

CHECKED BY

DRAWN BY ICD 1/24/2021

FILENAME GRANT_HURT_2004.DWG

BH-2		
06/17/20		
DP	5'	15'
B	<0.001	<0.001
T	<0.005	<0.005
E	<0.0025	<0.0025
X	<0.0065	<0.0065
TPH-g	<0.100	<0.100
TPH-d	<4.00	<4.00

BH-8		
12/16/20		
DP	11'	15'
B	<0.001	<0.001
T	<0.005	<0.005
E	<0.0025	<0.0025
X	<0.0065	<0.0065
TPH-g	<0.100	<0.100
TPH-d	<4.00	<4.00

BH-1		
06/17/20		
DP	1'	15'
B	<0.001	<0.001
T	<0.005	<0.005
E	<0.0025	<0.0025
X	<0.0065	<0.0065
TPH-g	0.277	<0.100
TPH-d	390	<4.00

BH-7			
12/16/20			
DP	6'	11'	15'
B	<0.001	<0.001	<0.001
T	<0.005	<0.005	<0.005
E	<0.0025	<0.0025	<0.0025
X	<0.0065	<0.0065	<0.0065
TPH-g	<0.100	<0.100	<0.100
TPH-d	<4.00	<4.00	<4.00

BH-3		
06/17/20		
DP	2'	15'
B	0.00147	<0.001
T	<0.005	<0.005
E	0.0130	<0.0025
X	0.137	<0.0065
TPH-g	74	<0.100
TPH-d	6.83	<4.00

BH-4		
06/17/20		
DP	3'	15'
B	<0.001	<0.001
T	<0.005	<0.005
E	<0.0025	<0.0025
X	0.0285	<0.0065
TPH-g	6.76	<0.100
TPH-d	30.4	<4.00

BH-5		
06/17/20		
DP	1'	15'
B	0.00168	<0.001
T	<0.005	<0.005
E	0.00498	<0.0025
X	0.0891	<0.0065
TPH-g	40.5	<0.100
TPH-d	169	<4.00

BH-6		
12/16/20		
DP	11'	15'
B	<0.001	<0.001
T	<0.005	<0.005
E	<0.0025	<0.0025
X	<0.0065	<0.0065
TPH-g	<0.100	<0.100
TPH-d	<4.00	<4.00

TMW-8/BH-8

TMW-7/BH-7

TMW-2/BH-2

TMW-1/BH-1

TMW-4/BH-4

TMW-3/BH-3

TMW-5/BH-5

TMW-6/BH-6

SOURCE: 2020 AERIAL PHOTOGRAPHY; © GOOGLE

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LEGEND

TMW-1/BH-1	MONITORING WELL/BORING LOCATION
	BERM
—x—x—x—x—	FENCE
B	BENZENE (mg/kg)
T	TOLUENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (mg/kg)
TPH-d	TOTAL PETROLEUM HYDROCARBONS AS DIESEL (mg/kg)
mg/kg	MILLIGRAMS PER KILOGRAM
<	NOT DETECTED ABOVE LIMIT NOTED
DP	DEPTH (FEET)

NOTES

1. LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: WGS 1984
   PROJECTION: TRANSVERSE MERCATOR

0 10 20

SCALE IN FEET

CRESTONE PEAK RESOURCES

FIGURE 2

SOIL SAMPLE LOCATION MAP

GRANT-HURT 14H
40.13928, -104.96659
FIRESTONE, COLORADO

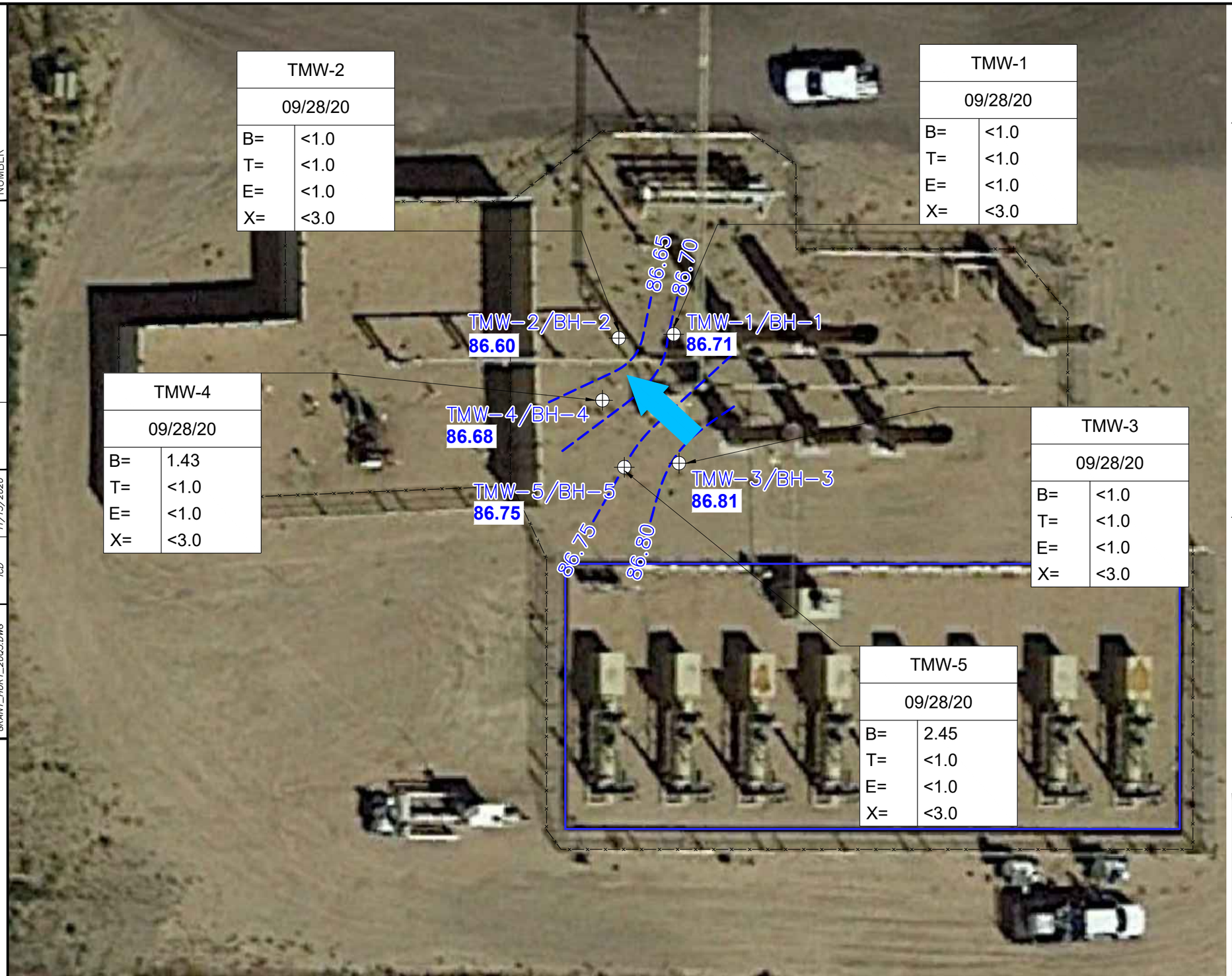
PROJECT NUMBER GRANT HURT

APPROVED BY

CHECKED BY

DRAWN BY ICD 11/13/2020

FILENAME GRANT_HURT_2003.DWG



SOURCE: 2020 AERIAL PHOTOGRAPHY; © GOOGLE

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LEGEND

TMW-1/ BH-1	MONITORING WELL/BORING LOCATION
	BERM
	FENCE
86.81	GROUNDWATER ELEVATION (FEET)
86.80	GROUNDWATER ELEVATION CONTOUR LINE (FEET)
	CONTOUR INTERVAL=0.05 FEET
	APPROXIMATE GROUNDWATER FLOW DIRECTION
B	BENZENE (µg/L)
T	TOLUENE (µg/L)
E	ETHYLBENZENE (µg/L)
X	TOTAL XYLENES (µg/L)
µg/L	MICROGRAMS PER LITER
<	NOT DETECTED ABOVE LIMIT NOTED

NOTES

1. LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: WGS 1984
   PROJECTION: TRANSVERSE MERCATOR

0 10 20
SCALE IN FEET

CRESTONE PEAK RESOURCES

FIGURE 3

GROUNDWATER MONITORING MAP
09/28/2020

GRANT-HURT 14H
40.13928, -104.96659
FIRESTONE, COLORADO

PROJECT NUMBER GRANT HURT

APPROVED BY

CHECKED BY

DRAWN BY ICD 1/24/2021

FILENAME GRANT_HURT_2004.DWG

TMW-2	
11/19/20	
B=	<1.0
T=	<1.0
E=	<1.0
X=	<3.0

TMW-8	
12/29/20	
B=	<1.0
T=	<1.0
E=	<1.0
X=	<3.0

TMW-1	
11/19/20	
B=	<1.0
T=	<1.0
E=	<1.0
X=	<3.0

TMW-7	
12/29/20	
B=	<1.0
T=	<1.0
E=	<1.0
X=	<3.0

TMW-4	
11/19/20	
B=	<1.0
T=	<1.0
E=	<1.0
X=	<3.0

TMW-3	
11/19/20	
B=	<1.0
T=	<1.0
E=	<1.0
X=	<3.0

TMW-5	
11/19/20	
B=	**13.3**
T=	<1.0
E=	4.77
X=	3.11

TMW-6	
12/29/20	
B=	<1.0
T=	<1.0
E=	<1.0
X=	<3.0

TMW-8/BH-8
85.32

TMW-7/BH-7
85.31

TMW-2/BH-2
85.81

TMW-1/BH-1
85.86

TMW-4/BH-4
85.87

TMW-5/BH-5
85.91

TMW-3/BH-3
85.96

TMW-6/BH-6
85.61

85.40

85.60

85.80

5.0

N

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S

LEGEND

TMW-1/BH-1	MONITORING WELL/BORING LOCATION
	BERM
	FENCE
86.81	GROUNDWATER ELEVATION (FEET)
86.80	GROUNDWATER ELEVATION CONTOUR LINE (FEET)
	CONTOUR INTERVAL=0.05 FEET
	APPROXIMATE GROUNDWATER FLOW DIRECTION
5.0	BENZENE ISOCONCENTRATION CONTOUR LINE (µg/L)
B	BENZENE (µg/L)
T	TOLUENE (µg/L)
E	ETHYLBENZENE (µg/L)
X	TOTAL XYLENES (µg/L)
µg/L	MICROGRAMS PER LITER
<	NOT DETECTED ABOVE LIMIT NOTED
	BOLD VALUES INDICATE EXCEEDANCE OF APPLICABLE STANDARDS

NOTES

1. LOCATIONS ARE APPROXIMATE
2. COORDINATE SYSTEM: WGS 1984 PROJECTION: TRANSVERSE MERCATOR
3. TMW-6, TMW-7 AND TMW-8 GAUGED AND SAMPLED ON 12/29/2020

0 10 20
SCALE IN FEET

SOURCE: 2020 AERIAL PHOTOGRAPHY; © GOOGLE

CRESTONE PEAK RESOURCES

FIGURE 4

GROUNDWATER MONITORING MAP
11/19/2020 AND 12/29/2020

GRANT-HURT 14H
40.13928, -104.96659
FIRESTONE, COLORADO

TABLE 1 - SOIL ANALYTICAL RESULTS
CRESTONE PEAK RESOURCES

Grant-Hurt 14H

Sample ID	Date	Rational	Depth Range (ft)	PID (ppm)	Benzene (mg/kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	Total TPH (mg/Kg)
COGCC Table 910-1 Limit					**0.17**	**85**	**100**	**175**	**500**	**500**	**500**
BH1 (1')	6/17/20	Boring	1	363.5	<0.001	<0.005	<0.0025	<0.0065	0.277	390	390.277
BH1 (15')	6/17/20	Boring	15	0	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH2 (5')	6/17/20	Boring	5	15.7	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH2 (15')	6/17/20	Boring	15	0	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH3 (2')	6/17/20	Boring	2	500.3	0.00147	<0.005	0.0130	0.137	74	6.83	80.83
BH3 (15')	6/17/20	Boring	15	0.7	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH4 (3')	6/17/20	Boring	3	289.9	<0.001	<0.005	<0.0025	0.0285	6.76	30.4	37.16
BH4 (15')	6/17/20	Boring	15	0.3	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH5 (1')	6/17/20	Boring	1	965.5	0.00168	<0.005	0.00498	0.0891	40.5	169	209.5
BH5 (15')	6/17/20	Boring	15	1.2	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH-6 (11')	12/16/20	Boring	11	11.2	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH-6 (15')	12/16/20	Boring	15	0	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH-7 (6')	12/16/20	Boring	6	80.3	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH-7 (11')	12/16/20	Boring	11	29.3	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH-7 (15')	12/16/20	Boring	15	0	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH-8 (11')	12/16/20	Boring	11	0.8	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00
BH-8 (15')	12/16/20	Boring	15	0	<0.001	<0.005	<0.0025	<0.0065	<0.100	<4.00	<4.00

NOTES:

mg/Kg - milligrams per kilogram

BOLD - indicates result exceeds the applicable standard

< - indicates result is less than the stated laboratory reporting limit

NM - Not Measured/Sampled

COGCC Table 910-1 - Colorado Oil and Gas Conservation Commission Table 910-1

Benzene, toluene, ethylbenzene, total xylenes and TPH-GRO analyzed by EPA Method 8260B.

TPH-DRO was analyzed by EPA Method 8015.

TABLE 2 - GROUNDWATER ELEVATION
CRESTONE PEAK RESOURCES

Grant-Hurt 14H

Well ID	Date	Top of Casing	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Temperature (°C)	Conductivity (µS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)	pH (SU)
TMW-1	6/23/20	100.00	10.76	89.24	19.91	1,586	-102.30	10.74	7.37
	9/28/20		13.29	86.71	18.70	1,422	27.00	0.94	14.34
	11/19/20		14.14	85.86	16.74	1,379	-62.70	1.92	7.31
TMW-2	6/23/20	100.01	11.05	88.96	19.95	1,126	-68.50	5.83	7.46
	9/28/20		13.41	86.60	17.96	1,563	5.60	0.81	14.63
	11/19/20		14.20	85.81	16.44	1,511	-115.30	1.25	9.22
TMW-3	6/23/20	100.25	10.92	89.33	21.43	1,573	-102.60	2.12	7.41
	9/28/20		13.44	86.81	19.10	1,612	-53.40	1.35	11.70
	11/19/20		14.29	85.96	16.66	1,499	-133.40	1.10	9.12
TMW-4	6/23/20	98.82	9.85	88.97	19.19	753	-68.60	11.34	7.16
	9/28/20		12.14	86.68	19.14	1,545	-102.20	0.50	15.37
	11/19/20		12.95	85.87	17.53	1,408	171.80	0.50	8.74
TMW-5	6/23/20	100.08	11.05	89.03	16.71	786	-134.80	11.09	7.48
	9/28/20		13.33	86.75	17.91	1,540	-31.90	1.68	13.56
	11/19/20		14.17	85.91	16.60	1,530	-172.60	0.75	8.97
TMW-6	12/29/20	100.06	14.45	85.61	NM	NM	NM	NM	NM
TMW-7	12/29/20	101.06	15.75	85.31	NM	NM	NM	NM	NM
TMW-8	12/29/20	100.07	14.75	85.32	NM	NM	NM	NM	NM

NOTES:

DES - Destroyed

NM - Not Measured

TABLE 3 - GROUNDWATER ANALYTICAL RESULTS
CRESTONE PEAK RESOURCES

Grant-Hurt 14H

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Limit		**5**	**560**	**700**	**1,400**
TMW-1	6/23/20	<2.0	<2.0	<2.0	<6.0
	9/28/20	<1.0	<1.0	<1.0	<3.0
	11/19/20	<1.0	<1.0	<1.0	<3.0
TMW-2	6/23/20	**287**	<20.0	<20.0	<60.0
	9/28/20	<1.0	<1.0	<1.0	<3.0
	11/19/20	<1.0	<1.0	<1.0	<3.0
TMW-3	6/23/20	2.59	<1.0	<1.0	<3.0
	9/28/20	<1.0	<1.0	<1.0	<3.0
	11/19/20	<1.0	<1.0	<1.0	<3.0
TMW-4	6/23/20	3.31	<1.0	<1.0	<3.0
	9/28/20	1.43	<1.0	<1.0	<3.0
	11/19/20	<1.0	<1.0	<1.0	<3.0
TMW-5	6/23/20	<2.0	<2.0	<2.0	<6.0
	9/28/20	2.45	<1.0	<1.0	<3.0
	11/19/20	**13.3**	<1.0	4.77	3.11
TMW-6	12/29/20	<1.0	<1.0	<1.0	<3.0
TMW-7	12/29/20	<1.0	<1.0	<1.0	<3.0
TMW-8	12/29/20	<1.0	<1.0	<1.0	<3.0

NOTES:

µg/L - micrograms per liter

BOLD - indicates result exceeds the applicable standard

< - indicates result is less than the stated laboratory reporting limit

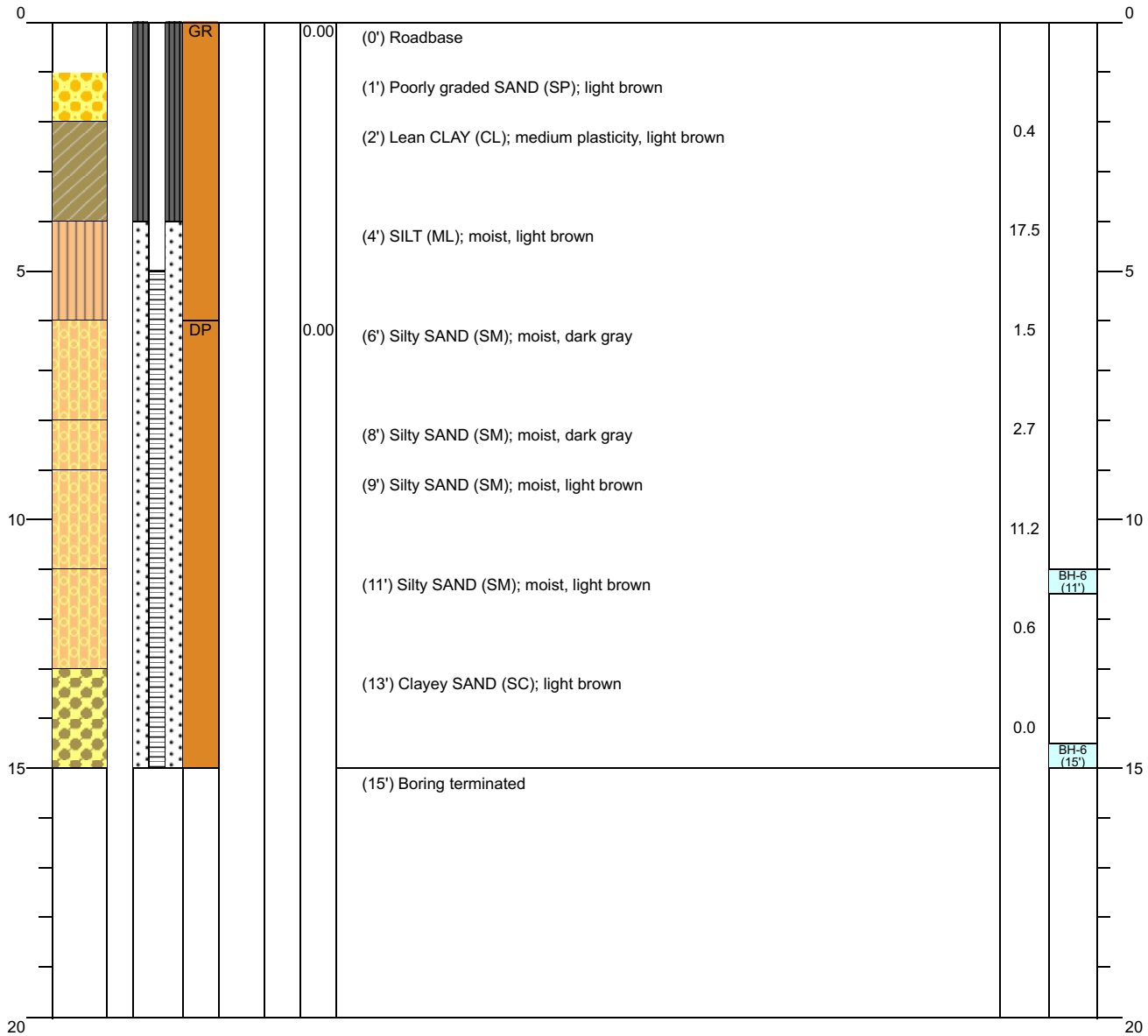
NS - Not Sampled

COGCC Table 910-1 - Colorado Oil and Gas Conservation Commission Table 910-1

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

CRESTONE PEAK RESOURCES	**Client:** Crestone Peak Resources **Project:** Grant-Hurt 14H **Address:** 40.13928, -104.96659, Firestone, CO	**WELL LOG** **Well No.** TMW-6 **Page:** 1 of 1

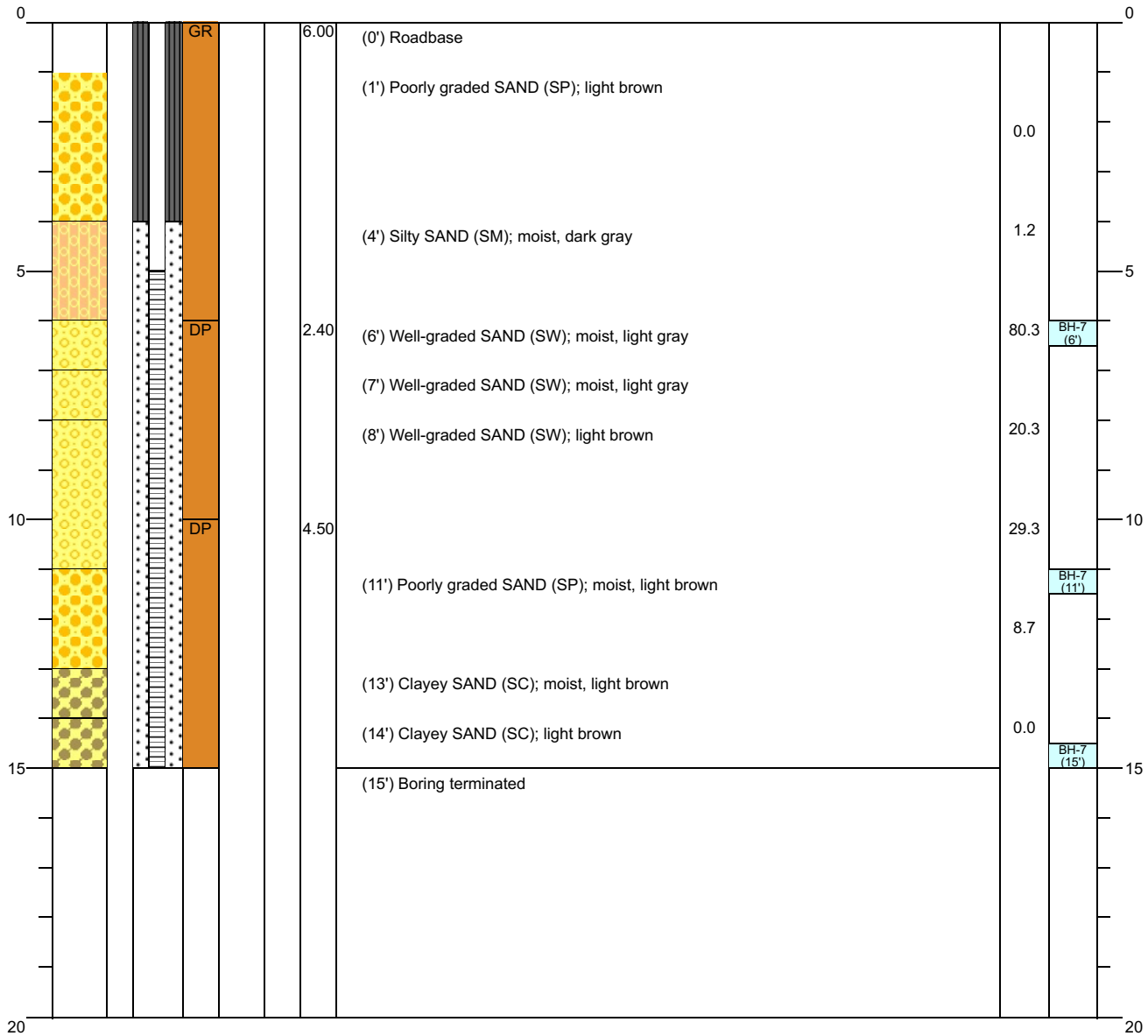
Drilling Start Date:	**12/16/20**	Boring Depth (ft):	**15.0**	Well Depth (ft):	**15.0**
Drilling End Date:	**12/16/20**	Boring Diameter (in):	**2.25**	Well Diameter (in):	**1.0**
Drilling Company:	**Remington Technologies**	Sampling Method(s):	**DP, GR**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**N/A**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**Geoprobe 7822DT**	DTW After Drilling (ft):	**N/A**	Screen Material:	**Sch 40 PVC Slotted**
Driller:	**Carlos Rivera**	Ground Surface Elev. (ft):		Seal Material(s):	**Bent. Chips**
Logged By:	**Ryan Millunzi**	Location (Lat, Long):		Filter Type:	**10/20 Washed Silica Sand**



NOTES:

CRESTONE PEAK RESOURCES	**Client:** Crestone Peak Resources **Project:** Grant-Hurt 14H **Address:** 40.13928, -104.96659, Firestone, CO	**WELL LOG** **Well No.** TMW-7 **Page:** 1 of 1

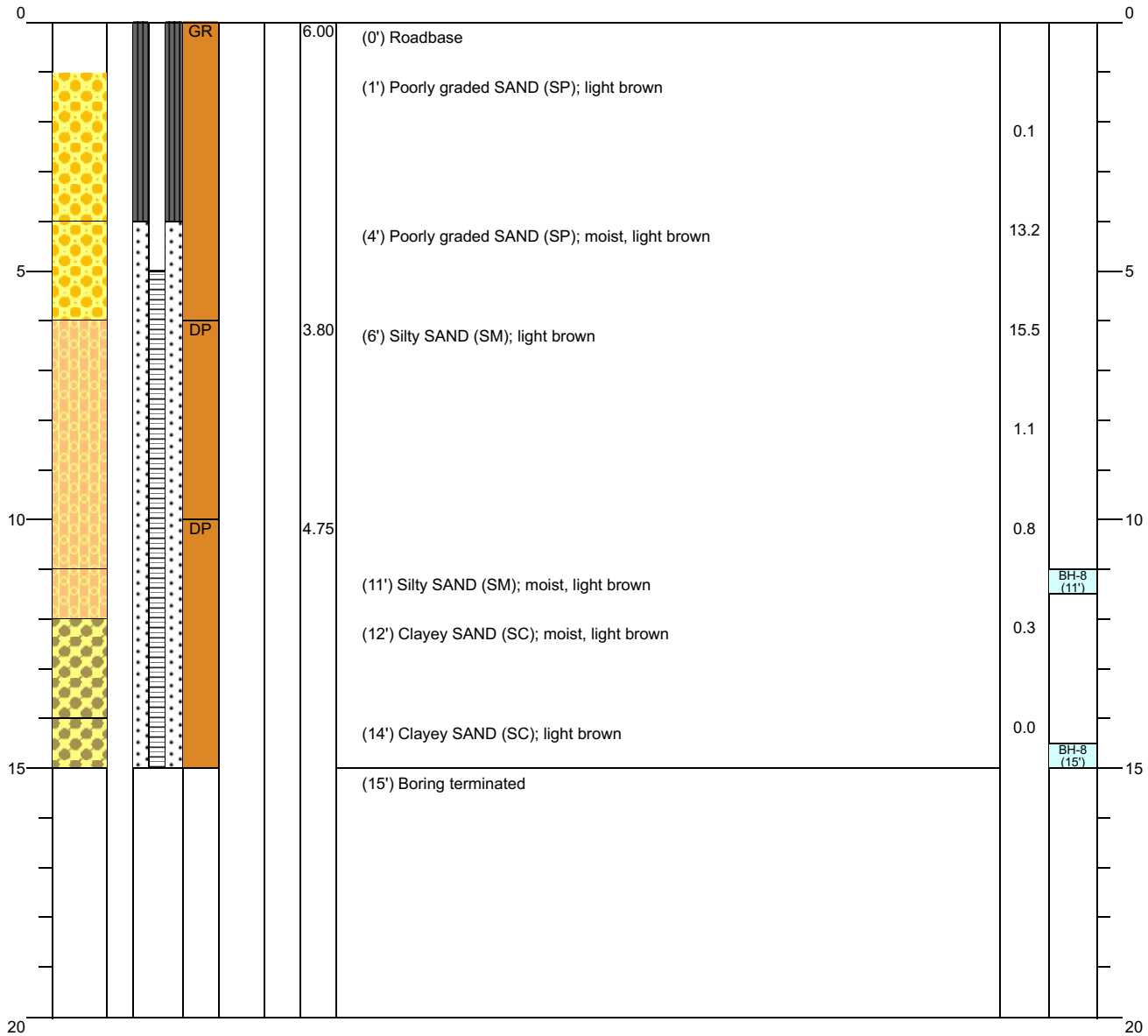
Drilling Start Date:	**12/16/20**	Boring Depth (ft):	**15.0**	Well Depth (ft):	**15.0**
Drilling End Date:	**12/16/20**	Boring Diameter (in):	**2.25**	Well Diameter (in):	**1.0**
Drilling Company:	**Remington Technologies**	Sampling Method(s):	**DP, GR**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**N/A**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**Geoprobe 7822DT**	DTW After Drilling (ft):	**N/A**	Screen Material:	**Sch 40 PVC Slotted**
Driller:	**Carlos Rivera**	Ground Surface Elev. (ft):		Seal Material(s):	**Bent. Chips**
Logged By:	**Ryan Mullanzi**	Location (Lat, Long):		Filter Type:	**10/20 Washed Silica Sand**



NOTES:

CRESTONE PEAK RESOURCES	**Client:** Crestone Peak Resources	**WELL LOG**
	Project: Grant-Hurt 14H	**Well No.** TMW-8
	Address: 40.13928, -104.96659, Firestone, CO	**Page:** 1 of 1

Drilling Start Date:	**12/16/20**	Boring Depth (ft):	**15.0**	Well Depth (ft):	**15.0**
Drilling End Date:	**12/16/20**	Boring Diameter (in):	**2.25**	Well Diameter (in):	**1.0**
Drilling Company:	**Remington Technologies**	Sampling Method(s):	**DP, GR**	Screen Slot (in):	**0.020**
Drilling Method:	**Direct Push**	DTW During Drilling (ft):	**N/A**	Riser Material:	**Sch 40 PVC**
Drilling Equipment:	**Geoprobe 7822DT**	DTW After Drilling (ft):	**N/A**	Screen Material:	**Sch 40 PVC Slotted**
Driller:	**Carlos Rivera**	Ground Surface Elev. (ft):		Seal Material(s):	**Bent. Chips**
Logged By:	**Ryan Millunzi**	Location (Lat, Long):		Filter Type:	**10/20 Washed Silica Sand**



NOTES:

CRESTONE PEAK RESOURCES

BORING AND WELL LOG LEGEND

LITHOLOGY	WATER LEVEL	WELL/BORING COMPLETION	Sample Type	DESCRIPTION
				ASPHALT
				CONCRETE
				BEDROCK
				IGNEOUS Rock
				METAMORPHIC Rock
				SEDIMENTARY Rock
				Well-graded GRAVEL (GW)
				Poorly graded GRAVEL (GP)
				Silty GRAVEL (GM)
				Clayey GRAVEL (GC)
				Well-graded GRAVEL with silt (GW-GM)
				Poorly graded GRAVEL with silt (GP-GM)
				Well-graded GRAVEL with clay (GW-GC)
				Poorly graded GRAVEL with clay (GP-GC)
				Well-graded SAND (SW)
				Poorly graded SAND (SP)
				Silty SAND (SM)
				Clayey SAND (SC)
				Well-graded SAND with silt (SW-SM)
				Poorly graded SAND with silt (SP-SM)
				Well-graded SAND with clay (SW-SC)
				Poorly graded SAND with clay (SP-SC)
				SILT (ML)
				Lean CLAY (CL)
				Organic SOIL (OL)
				Elastic SILT (MH)
				Fat CLAY (CH)
				Organic SOIL (OH)
				Organic SOIL (OL/OH)
				PEAT (PT)
				Volume Descriptors:
				Trace = <5%
				Few = 5-10%
				Little = 15-25%
				Some = 30-45%
				Mostly = >=50%
	▽			Water Level During Drilling
	▼			Water Level at End of Drilling/in Completed Well
				Cap
				Riser
				Screen
				End Plug
				Annular Seal (Bentonite-Cement Grout, Bentonite Slurry/Chips/Pellets/Powder, Other)
				Sanitary Seal (Bentonite Slurry/Chips/Pellets/Powder, Other)
				Filter Pack (Sand, Gravel, Other)
				Backfill
			GR	Grab
			EN	Encore
			SS	Split Spoon
			SH	Shelby Tube
			CO	Core Barrel
			DP	Direct Push
			ID	Lab Sample and ID

NOTES:

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

October 09, 2020

Crestone Peak Resources

Sample Delivery Group:	L1268767
Samples Received:	10/01/2020
Project Number:	CRESTONE PEAK RESOUR
Description:	Grant Hurt 14H

Report To: Lonnie Dent
10188 E. I-25 Frontage Road
Fireston, CO, CO 80504

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

TABLE OF CONTENTS

TMW-1 L1268767-01 GW

Collected by: Jeff Carlo
Collected date/time: 09/28/20 15:30
Received date/time: 10/01/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1556175	1	10/08/20 19:47	10/08/20 19:47	BMB	Mt. Juliet, TN

TMW-2 L1268767-02 GW

Collected by: Jeff Carlo
Collected date/time: 09/28/20 15:38
Received date/time: 10/01/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1556175	1	10/08/20 20:06	10/08/20 20:06	BMB	Mt. Juliet, TN

TMW-3 L1268767-03 GW

Collected by: Jeff Carlo
Collected date/time: 09/28/20 15:13
Received date/time: 10/01/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1556175	1	10/08/20 20:51	10/08/20 20:51	BMB	Mt. Juliet, TN

TMW-4 L1268767-04 GW

Collected by: Jeff Carlo
Collected date/time: 09/28/20 15:45
Received date/time: 10/01/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1556175	1	10/08/20 22:27	10/08/20 22:27	BMB	Mt. Juliet, TN

TMW-5 L1268767-05 GW

Collected by: Jeff Carlo
Collected date/time: 09/28/20 15:20
Received date/time: 10/01/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1556175	1	10/08/20 22:46	10/08/20 22:46	BMB	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	10/08/2020 19:47	WG1556175
Toluene	ND		0.00100	1	10/08/2020 19:47	WG1556175
Ethylbenzene	ND		0.00100	1	10/08/2020 19:47	WG1556175
o-Xylene	ND		0.00100	1	10/08/2020 19:47	WG1556175
m&p-Xylene	ND		0.00200	1	10/08/2020 19:47	WG1556175
Total Xylenes	ND		0.00300	1	10/08/2020 19:47	WG1556175
(S) Toluene-d8	*102*		*80.0-120*		*10/08/2020 19:47*	WG1556175
(S) 4-Bromofluorobenzene	*103*		*77.0-126*		*10/08/2020 19:47*	WG1556175
(S) 1,2-Dichloroethane-d4	*107*		*70.0-130*		*10/08/2020 19:47*	WG1556175

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	10/08/2020 20:06	WG1556175
Toluene	ND		0.00100	1	10/08/2020 20:06	WG1556175
Ethylbenzene	ND		0.00100	1	10/08/2020 20:06	WG1556175
o-Xylene	ND		0.00100	1	10/08/2020 20:06	WG1556175
m&p-Xylene	ND		0.00200	1	10/08/2020 20:06	WG1556175
Total Xylenes	ND		0.00300	1	10/08/2020 20:06	WG1556175
(S) Toluene-d8	*106*		*80.0-120*		*10/08/2020 20:06*	WG1556175
(S) 4-Bromofluorobenzene	*105*		*77.0-126*		*10/08/2020 20:06*	WG1556175
(S) 1,2-Dichloroethane-d4	*104*		*70.0-130*		*10/08/2020 20:06*	WG1556175

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	10/08/2020 20:51	WG1556175
Toluene	ND		0.00100	1	10/08/2020 20:51	WG1556175
Ethylbenzene	ND		0.00100	1	10/08/2020 20:51	WG1556175
o-Xylene	ND		0.00100	1	10/08/2020 20:51	WG1556175
m&p-Xylene	ND		0.00200	1	10/08/2020 20:51	WG1556175
Total Xylenes	ND		0.00300	1	10/08/2020 20:51	WG1556175
(S) Toluene-d8	*106*		*80.0-120*		*10/08/2020 20:51*	WG1556175
(S) 4-Bromofluorobenzene	*121*		*77.0-126*		*10/08/2020 20:51*	WG1556175
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*10/08/2020 20:51*	WG1556175

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.00143		0.00100	1	10/08/2020 22:27	WG1556175
Toluene	ND		0.00100	1	10/08/2020 22:27	WG1556175
Ethylbenzene	ND		0.00100	1	10/08/2020 22:27	WG1556175
o-Xylene	ND		0.00100	1	10/08/2020 22:27	WG1556175
m&p-Xylene	ND		0.00200	1	10/08/2020 22:27	WG1556175
Total Xylenes	ND		0.00300	1	10/08/2020 22:27	WG1556175
(S) Toluene-d8	*91.6*		*80.0-120*		*10/08/2020 22:27*	WG1556175
(S) 4-Bromofluorobenzene	*118*		*77.0-126*		*10/08/2020 22:27*	WG1556175
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*10/08/2020 22:27*	WG1556175

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.00245		0.00100	1	10/08/2020 22:46	WG1556175
Toluene	ND		0.00100	1	10/08/2020 22:46	WG1556175
Ethylbenzene	ND		0.00100	1	10/08/2020 22:46	WG1556175
o-Xylene	0.00179		0.00100	1	10/08/2020 22:46	WG1556175
m&p-Xylene	ND		0.00200	1	10/08/2020 22:46	WG1556175
Total Xylenes	ND		0.00300	1	10/08/2020 22:46	WG1556175
(S) Toluene-d8	*97.5*		*80.0-120*		*10/08/2020 22:46*	WG1556175
(S) 4-Bromofluorobenzene	*95.9*		*77.0-126*		*10/08/2020 22:46*	WG1556175
(S) 1,2-Dichloroethane-d4	*83.8*		*70.0-130*		*10/08/2020 22:46*	WG1556175

Method Blank (MB)

(MB) R3579698-1 10/08/20 18:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3579698-2 10/09/20 03:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00509	102	70.0-123	
Ethylbenzene	0.00500	0.00509	102	79.0-123	
Toluene	0.00500	0.00519	104	79.0-120	
Xylenes, Total	0.0150	0.0153	102	79.0-123	
o-Xylene	0.00500	0.00508	102	80.0-122	
m&p-Xylenes	0.0100	0.0102	102	80.0-122	
(S) Toluene-d8			*104*	*80.0-120*	
(S) 4-Bromofluorobenzene			*102*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*107*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

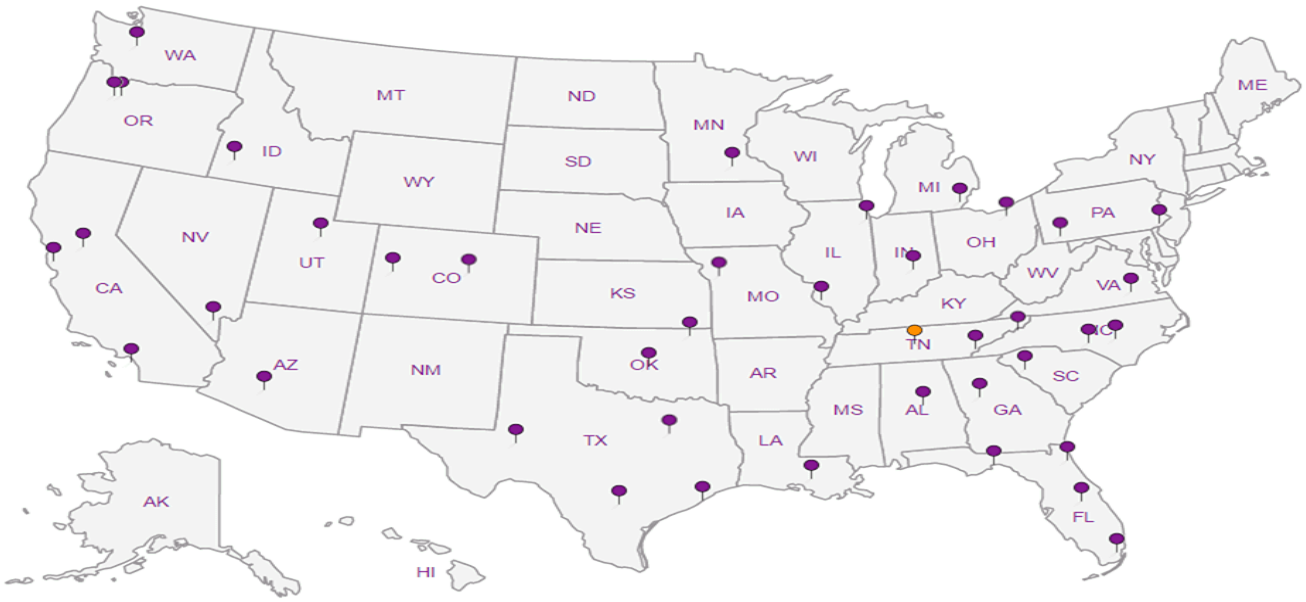
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Crestone Peak Resources

10188 E. I-25 Frontage Road
Firestone, CO 80504

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1268767

F044

Acctnum: CREPEAFCO

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Report to: **Lonnie Dent, Jeff Carlo**

Email To: **ldent@remingtontech.net; jcarlo**

Project Description: **Grant Hurt 14H**

City/State Collected: **40.13928, -104.96659**

Phone: **970-278-1646**
Fax: **970-278-1645**

Client Project # **Crestone Peak Resources**

Lab Project #

Collected by (print): **Jeff Carlo**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: **Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX	Remarks	Sample # (lab only)
TMW-1	Grab	GW		9/28/20	15:30	3	X		-01
TMW-2	Grab	GW		9/28/20	15:38	3	X		-02
TMW-3	Grab	GW		9/28/20	15:13	3	X		-03
TMW-4	Grab	GW		9/28/20	15:45	3	X		-04
TMW-5	Grab	GW		9/28/20	15:20	3	X		-05

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 1275 8606 3654

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Alyssa Lemmo	9/30/20	3:15	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Kristy Quiles

Trip Blank Received: Yes / (No) HCL / MeoH TBR
0

Temp: °C Bottles Received:
1.3+.2=1.5 15

Date: 10/01/2020 Time: 09:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 31, 2020

Crestone Peak Resources

Sample Delivery Group:	L1298764
Samples Received:	12/18/2020
Project Number:	CREASTONE PEAK RESOU
Description:	Grant-Hurt 14H

Report To: Jeff Carlo
1801 California Street
Denver, CO 80202

Entire Report Reviewed By:

Jason Romer
Project Manager

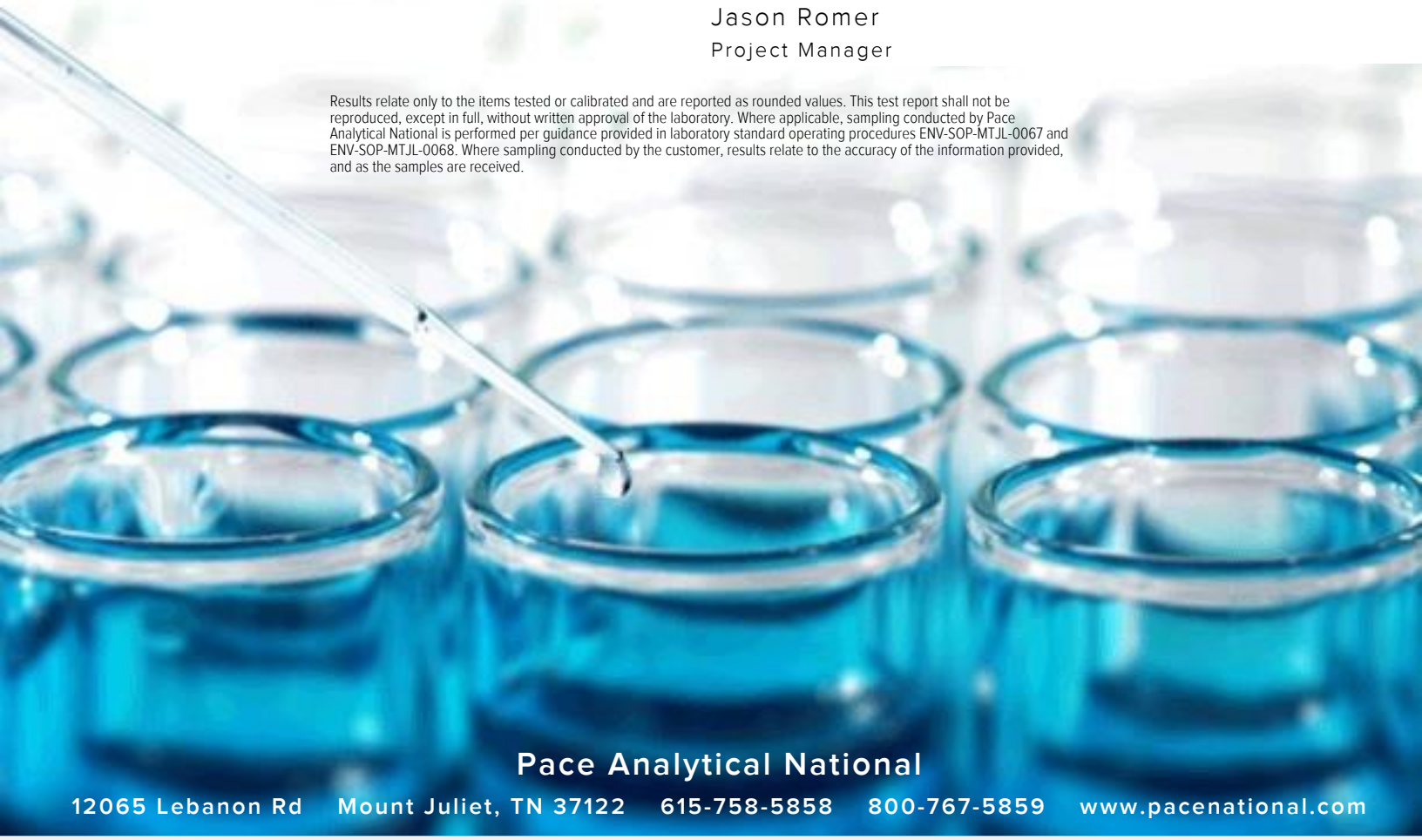


TABLE OF CONTENTS

BH-6 (11') L1298764-01 Solid

Collected by: Ryan Millunzi | Collected date/time: 12/16/20 11:00 | Received date/time: 12/18/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597314	1	12/23/20 08:45	12/24/20 17:36	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1596593	1	12/23/20 08:45	12/23/20 14:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598588	1	12/29/20 23:11	12/30/20 21:26	CAG	Mt. Juliet, TN

BH-6 (15') L1298764-02 Solid

Collected by: Ryan Millunzi | Collected date/time: 12/16/20 11:15 | Received date/time: 12/18/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597314	1	12/23/20 08:45	12/24/20 17:57	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1596593	1	12/23/20 08:45	12/23/20 14:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598588	1	12/29/20 23:11	12/30/20 08:49	CAG	Mt. Juliet, TN

BH-7 (6') L1298764-03 Solid

Collected by: Ryan Millunzi | Collected date/time: 12/16/20 11:50 | Received date/time: 12/18/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597314	1	12/23/20 08:45	12/24/20 18:18	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1596593	1	12/23/20 08:45	12/23/20 14:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598588	1	12/29/20 23:11	12/30/20 22:43	CAG	Mt. Juliet, TN

BH-7 (11') L1298764-04 Solid

Collected by: Ryan Millunzi | Collected date/time: 12/16/20 12:00 | Received date/time: 12/18/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597314	1	12/23/20 08:45	12/24/20 18:39	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1596593	1	12/23/20 08:45	12/23/20 14:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598588	1	12/29/20 23:11	12/30/20 20:23	CAG	Mt. Juliet, TN

BH-7 (15') L1298764-05 Solid

Collected by: Ryan Millunzi | Collected date/time: 12/16/20 12:10 | Received date/time: 12/18/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597314	1	12/23/20 08:45	12/24/20 19:00	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1596593	1	12/23/20 08:45	12/23/20 15:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598588	1	12/29/20 23:11	12/30/20 20:35	CAG	Mt. Juliet, TN

BH-8 (11') L1298764-06 Solid

Collected by: Ryan Millunzi | Collected date/time: 12/16/20 12:35 | Received date/time: 12/18/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597314	1	12/23/20 08:45	12/24/20 19:21	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1596593	1	12/23/20 08:45	12/23/20 15:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598588	1	12/29/20 23:11	12/30/20 20:48	CAG	Mt. Juliet, TN

BH-8 (15') L1298764-07 Solid

Collected by: Ryan Millunzi
Collected date/time: 12/16/20 12:45
Received date/time: 12/18/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1597314	1	12/23/20 08:45	12/24/20 19:42	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1596593	1	12/23/20 08:45	12/23/20 15:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1598588	1	12/29/20 23:11	12/30/20 21:01	CAG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	12/24/2020 17:36	WG1597314
(S) a,a,a-Trifluorotoluene(FID)	*106*		*77.0-120*		*12/24/2020 17:36*	WG1597314

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	12/23/2020 14:00	WG1596593
Toluene	ND		0.00500	1	12/23/2020 14:00	WG1596593
Ethylbenzene	ND		0.00250	1	12/23/2020 14:00	WG1596593
Total Xylenes	ND		0.00650	1	12/23/2020 14:00	WG1596593
(S) Toluene-d8	*104*		*75.0-131*		*12/23/2020 14:00*	WG1596593
(S) 4-Bromofluorobenzene	*95.8*		*67.0-138*		*12/23/2020 14:00*	WG1596593
(S) 1,2-Dichloroethane-d4	*94.4*		*70.0-130*		*12/23/2020 14:00*	WG1596593

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	12/30/2020 21:26	WG1598588
(S) o-Terphenyl	*58.1*		*18.0-148*		*12/30/2020 21:26*	WG1598588

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	12/24/2020 17:57	WG1597314
(S) a,a,a-Trifluorotoluene(FID)	*109*		*77.0-120*		*12/24/2020 17:57*	WG1597314

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	12/23/2020 14:19	WG1596593
Toluene	ND		0.00500	1	12/23/2020 14:19	WG1596593
Ethylbenzene	ND		0.00250	1	12/23/2020 14:19	WG1596593
Total Xylenes	ND		0.00650	1	12/23/2020 14:19	WG1596593
(S) Toluene-d8	*102*		*75.0-131*		*12/23/2020 14:19*	WG1596593
(S) 4-Bromofluorobenzene	*94.8*		*67.0-138*		*12/23/2020 14:19*	WG1596593
(S) 1,2-Dichloroethane-d4	*93.2*		*70.0-130*		*12/23/2020 14:19*	WG1596593

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	12/30/2020 08:49	WG1598588
(S) o-Terphenyl	*64.7*		*18.0-148*		*12/30/2020 08:49*	WG1598588

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	12/24/2020 18:18	WG1597314
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-120*		*12/24/2020 18:18*	WG1597314

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	12/23/2020 14:38	WG1596593
Toluene	ND		0.00500	1	12/23/2020 14:38	WG1596593
Ethylbenzene	ND		0.00250	1	12/23/2020 14:38	WG1596593
Total Xylenes	ND		0.00650	1	12/23/2020 14:38	WG1596593
(S) Toluene-d8	*102*		*75.0-131*		*12/23/2020 14:38*	WG1596593
(S) 4-Bromofluorobenzene	*93.6*		*67.0-138*		*12/23/2020 14:38*	WG1596593
(S) 1,2-Dichloroethane-d4	*92.0*		*70.0-130*		*12/23/2020 14:38*	WG1596593

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	12/30/2020 22:43	WG1598588
(S) o-Terphenyl	*60.8*		*18.0-148*		*12/30/2020 22:43*	WG1598588

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	12/24/2020 18:39	WG1597314
(S) a,a,a-Trifluorotoluene(FID)	*106*		*77.0-120*		*12/24/2020 18:39*	WG1597314

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	12/23/2020 14:57	WG1596593
Toluene	ND		0.00500	1	12/23/2020 14:57	WG1596593
Ethylbenzene	ND		0.00250	1	12/23/2020 14:57	WG1596593
Total Xylenes	ND		0.00650	1	12/23/2020 14:57	WG1596593
(S) Toluene-d8	*105*		*75.0-131*		*12/23/2020 14:57*	WG1596593
(S) 4-Bromofluorobenzene	*95.1*		*67.0-138*		*12/23/2020 14:57*	WG1596593
(S) 1,2-Dichloroethane-d4	*90.9*		*70.0-130*		*12/23/2020 14:57*	WG1596593

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	12/30/2020 20:23	WG1598588
(S) o-Terphenyl	*62.2*		*18.0-148*		*12/30/2020 20:23*	WG1598588

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	12/24/2020 19:00	WG1597314
(S) a,a,a-Trifluorotoluene(FID)	*106*		*77.0-120*		*12/24/2020 19:00*	WG1597314

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	12/23/2020 15:16	WG1596593
Toluene	ND		0.00500	1	12/23/2020 15:16	WG1596593
Ethylbenzene	ND		0.00250	1	12/23/2020 15:16	WG1596593
Total Xylenes	ND		0.00650	1	12/23/2020 15:16	WG1596593
(S) Toluene-d8	*102*		*75.0-131*		*12/23/2020 15:16*	WG1596593
(S) 4-Bromofluorobenzene	*94.1*		*67.0-138*		*12/23/2020 15:16*	WG1596593
(S) 1,2-Dichloroethane-d4	*90.9*		*70.0-130*		*12/23/2020 15:16*	WG1596593

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	12/30/2020 20:35	WG1598588
(S) o-Terphenyl	*66.6*		*18.0-148*		*12/30/2020 20:35*	WG1598588

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	12/24/2020 19:21	WG1597314
(S) a,a,a-Trifluorotoluene(FID)	*106*		*77.0-120*		*12/24/2020 19:21*	WG1597314

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	12/23/2020 15:35	WG1596593
Toluene	ND		0.00500	1	12/23/2020 15:35	WG1596593
Ethylbenzene	ND		0.00250	1	12/23/2020 15:35	WG1596593
Total Xylenes	ND		0.00650	1	12/23/2020 15:35	WG1596593
(S) Toluene-d8	*105*		*75.0-131*		*12/23/2020 15:35*	WG1596593
(S) 4-Bromofluorobenzene	*96.0*		*67.0-138*		*12/23/2020 15:35*	WG1596593
(S) 1,2-Dichloroethane-d4	*92.1*		*70.0-130*		*12/23/2020 15:35*	WG1596593

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	12/30/2020 20:48	WG1598588
(S) o-Terphenyl	*62.8*		*18.0-148*		*12/30/2020 20:48*	WG1598588

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	12/24/2020 19:42	WG1597314
(S) a,a,a-Trifluorotoluene(FID)	*108*		*77.0-120*		*12/24/2020 19:42*	WG1597314

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	12/23/2020 15:54	WG1596593
Toluene	ND		0.00500	1	12/23/2020 15:54	WG1596593
Ethylbenzene	ND		0.00250	1	12/23/2020 15:54	WG1596593
Total Xylenes	ND		0.00650	1	12/23/2020 15:54	WG1596593
(S) Toluene-d8	*103*		*75.0-131*		*12/23/2020 15:54*	WG1596593
(S) 4-Bromofluorobenzene	*95.1*		*67.0-138*		*12/23/2020 15:54*	WG1596593
(S) 1,2-Dichloroethane-d4	*93.5*		*70.0-130*		*12/23/2020 15:54*	WG1596593

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		4.00	1	12/30/2020 21:01	WG1598588
(S) o-Terphenyl	*59.9*		*18.0-148*		*12/30/2020 21:01*	WG1598588

Method Blank (MB)

(MB) R3608387-2 12/24/20 12:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0386	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3608387-1 12/24/20 11:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.08	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*109*	*77.0-120*	

L1298408-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1298408-06 12/24/20 15:28 • (MS) R3608387-3 12/24/20 20:03 • (MSD) R3608387-4 12/24/20 20:24

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	103	ND	116	102	112	97.9	25	10.0-151			12.8	28
(S) a,a,a-Trifluorotoluene(FID)					*103*	*103*		*77.0-120*				

Method Blank (MB)

(MB) R3607502-3 12/23/20 08:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*103*			*75.0-131*
(S) 4-Bromofluorobenzene	*94.2*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*92.5*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3607502-1 12/23/20 07:40 • (LCSD) R3607502-2 12/23/20 07:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.128	0.136	102	109	70.0-123			6.06	20
Ethylbenzene	0.125	0.135	0.139	108	111	74.0-126			2.92	20
Toluene	0.125	0.133	0.135	106	108	75.0-121			1.49	20
Xylenes, Total	0.375	0.396	0.404	106	108	72.0-127			2.00	20
(S) Toluene-d8				*102*	*102*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.7*	*92.3*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*99.0*	*99.1*	*70.0-130*				

L1298732-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1298732-02 12/23/20 11:11 • (MS) R3607502-4 12/23/20 16:51 • (MSD) R3607502-5 12/23/20 17:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	ND	0.109	0.108	87.9	87.1	1	10.0-149			0.922	37
Ethylbenzene	0.125	ND	0.111	0.109	89.5	87.9	1	10.0-160			1.82	38
Toluene	0.125	ND	0.108	0.107	87.1	86.3	1	10.0-156			0.930	38
Xylenes, Total	0.373	ND	0.329	0.326	88.4	87.6	1	10.0-160			0.916	38
(S) Toluene-d8					*99.1*	*101*		*75.0-131*				
(S) 4-Bromofluorobenzene					*92.9*	*93.1*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*95.4*	*93.8*		*70.0-130*				

Method Blank (MB)

(MB) R3608298-1 12/30/20 08:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	*53.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3608298-2 12/30/20 08:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) High Fraction	50.0	35.1	70.2	50.0-150	
(S) o-Terphenyl			*57.5*	*18.0-148*	

L1298764-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1298764-01 12/30/20 21:26 • (MS) R3608298-3 12/30/20 21:39 • (MSD) R3608298-4 12/30/20 21:52

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	50.0	ND	33.0	36.7	66.0	73.4	1	50.0-150			10.6	20
(S) o-Terphenyl					*72.5*	*78.4*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

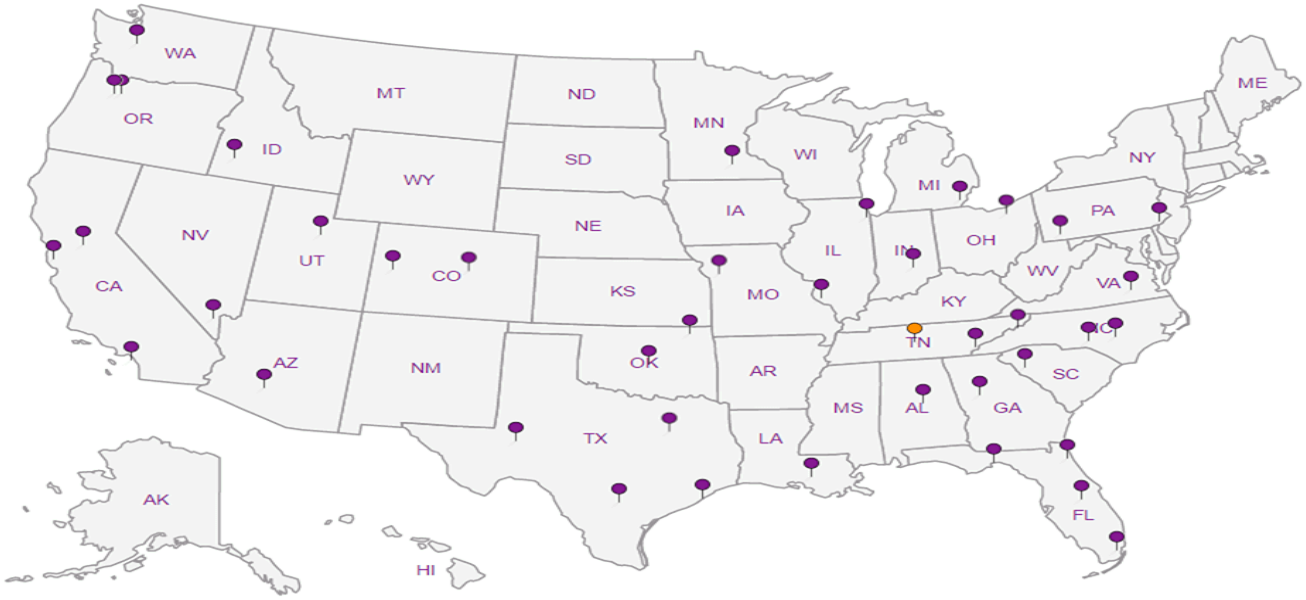
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Crestone Peak Resources

10188 E. I-25 Frontage Road
Firestone, CO 80504

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Lonnie Dent, Jeff Carlo**

Email To: **ldent@remingtontech.net; jcarlo**

Project Description: **Grant-Hurt 14H**

City/State Collected: **40.13928, -104.96659**

Phone: **970-278-1646**
Fax: **970-278-1645**

Client Project # **Crestone Peak Resources**

Lab Project #

L # L1298764

H119

Collected by (print): **Ryan Millunzi**

Site/Facility ID #

P.O. #

Acctnum: **CREPEAFCO**

Template:

Prelogin:

TSR:

PB:

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed: **Standard**

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX	TVPH	TEPH	Remarks	Sample # (lab only)
BH-6 (11')	Grab	SS		12/16/20	11:00	1	X	X	X		-01
BH-6 (15')	Grab	SS		12/16/20	11:15	1	X	X	X		02
BH-7 (6')	Grab	SS		12/16/20	11:50	1	X	X	X		03
BH-7 (11')	Grab	SS		12/16/20	12:00	1	X	X	X		04
BH-7 (15')	Grab	SS		12/16/20	12:10	1	X	X	X		05
BH-8 (11')	Grab	SS		12/16/20	12:35	1	X	X	X		06
BH-8 (15')	Grab	SS		12/16/20	12:45	1	X	X	X		07
											08

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 1275 8605 8832

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	12/17/20	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.4 °C Bottles Received: 7
				2.6-1-2.5
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12/18/20 Time: 11:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 02, 2020

Crestone Peak Resources

Sample Delivery Group:	L1289103
Samples Received:	11/21/2020
Project Number:	
Description:	Grant-Hurt 14H

Report To: Lonnie Dent
10188 E. I-25 Frontage Road
Fireston, CO, CO 80504

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

TABLE OF CONTENTS

TMW-1 L1289103-01 GW

Collected by: Jeff Carlo
Collected date/time: 11/19/20 13:21
Received date/time: 11/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584311	1	12/01/20 01:08	12/01/20 01:08	JHH	Mt. Juliet, TN

TMW-2 L1289103-02 GW

Collected by: Jeff Carlo
Collected date/time: 11/19/20 13:27
Received date/time: 11/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584311	1	12/01/20 01:28	12/01/20 01:28	JHH	Mt. Juliet, TN

TMW-3 L1289103-03 GW

Collected by: Jeff Carlo
Collected date/time: 11/19/20 13:33
Received date/time: 11/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584311	1	12/01/20 01:49	12/01/20 01:49	JHH	Mt. Juliet, TN

TMW-4 L1289103-04 GW

Collected by: Jeff Carlo
Collected date/time: 11/19/20 13:42
Received date/time: 11/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1584311	1	12/01/20 02:09	12/01/20 02:09	JHH	Mt. Juliet, TN

TMW-5 L1289103-05 GW

Collected by: Jeff Carlo
Collected date/time: 11/19/20 13:47
Received date/time: 11/21/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1583924	1	11/30/20 04:02	11/30/20 04:02	JHH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	12/01/2020 01:08	WG1584311
Toluene	ND		0.00100	1	12/01/2020 01:08	WG1584311
Ethylbenzene	ND		0.00100	1	12/01/2020 01:08	WG1584311
o-Xylene	ND		0.00100	1	12/01/2020 01:08	WG1584311
m&p-Xylene	ND		0.00200	1	12/01/2020 01:08	WG1584311
Total Xylenes	ND		0.00300	1	12/01/2020 01:08	WG1584311
(S) Toluene-d8	*109*		*80.0-120*		*12/01/2020 01:08*	WG1584311
(S) 4-Bromofluorobenzene	*95.3*		*77.0-126*		*12/01/2020 01:08*	WG1584311
(S) 1,2-Dichloroethane-d4	*96.6*		*70.0-130*		*12/01/2020 01:08*	WG1584311

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	12/01/2020 01:28	WG1584311
Toluene	ND		0.00100	1	12/01/2020 01:28	WG1584311
Ethylbenzene	ND		0.00100	1	12/01/2020 01:28	WG1584311
o-Xylene	ND		0.00100	1	12/01/2020 01:28	WG1584311
m&p-Xylene	ND		0.00200	1	12/01/2020 01:28	WG1584311
Total Xylenes	ND		0.00300	1	12/01/2020 01:28	WG1584311
(S) Toluene-d8	*105*		*80.0-120*		*12/01/2020 01:28*	WG1584311
(S) 4-Bromofluorobenzene	*94.4*		*77.0-126*		*12/01/2020 01:28*	WG1584311
(S) 1,2-Dichloroethane-d4	*105*		*70.0-130*		*12/01/2020 01:28*	WG1584311

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	12/01/2020 01:49	WG1584311
Toluene	ND		0.00100	1	12/01/2020 01:49	WG1584311
Ethylbenzene	ND		0.00100	1	12/01/2020 01:49	WG1584311
o-Xylene	ND		0.00100	1	12/01/2020 01:49	WG1584311
m&p-Xylene	ND		0.00200	1	12/01/2020 01:49	WG1584311
Total Xylenes	ND		0.00300	1	12/01/2020 01:49	WG1584311
(S) Toluene-d8	*103*		*80.0-120*		*12/01/2020 01:49*	WG1584311
(S) 4-Bromofluorobenzene	*93.2*		*77.0-126*		*12/01/2020 01:49*	WG1584311
(S) 1,2-Dichloroethane-d4	*107*		*70.0-130*		*12/01/2020 01:49*	WG1584311

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	12/01/2020 02:09	WG1584311
Toluene	ND		0.00100	1	12/01/2020 02:09	WG1584311
Ethylbenzene	ND		0.00100	1	12/01/2020 02:09	WG1584311
o-Xylene	ND		0.00100	1	12/01/2020 02:09	WG1584311
m&p-Xylene	ND		0.00200	1	12/01/2020 02:09	WG1584311
Total Xylenes	ND		0.00300	1	12/01/2020 02:09	WG1584311
(S) Toluene-d8	*110*		*80.0-120*		*12/01/2020 02:09*	WG1584311
(S) 4-Bromofluorobenzene	*97.7*		*77.0-126*		*12/01/2020 02:09*	WG1584311
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*12/01/2020 02:09*	WG1584311

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0133		0.00100	1	11/30/2020 04:02	WG1583924
Toluene	ND		0.00100	1	11/30/2020 04:02	WG1583924
Ethylbenzene	0.00477		0.00100	1	11/30/2020 04:02	WG1583924
o-Xylene	0.00237		0.00100	1	11/30/2020 04:02	WG1583924
m&p-Xylene	ND		0.00200	1	11/30/2020 04:02	WG1583924
Total Xylenes	0.00311		0.00300	1	11/30/2020 04:02	WG1583924
(S) Toluene-d8	*91.6*		*80.0-120*		*11/30/2020 04:02*	WG1583924
(S) 4-Bromofluorobenzene	*97.1*		*77.0-126*		*11/30/2020 04:02*	WG1583924
(S) 1,2-Dichloroethane-d4	*97.8*		*70.0-130*		*11/30/2020 04:02*	WG1583924

Method Blank (MB)

(MB) R3599001-3 11/29/20 23:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylene	U		0.000430	0.00200
(S) Toluene-d8	*97.0*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*98.9*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3599001-1 11/29/20 22:54 • (LCSD) R3599001-2 11/29/20 23:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00588	0.00585	118	117	70.0-123			0.512	20
Ethylbenzene	0.00500	0.00485	0.00482	97.0	96.4	79.0-123			0.620	20
Toluene	0.00500	0.00487	0.00489	97.4	97.8	79.0-120			0.410	20
Xylenes, Total	0.0150	0.0142	0.0142	94.7	94.7	79.0-123			0.000	20
o-Xylene	0.00500	0.00464	0.00465	92.8	93.0	80.0-122			0.215	20
m&p-Xylene	0.0100	0.00959	0.00957	95.9	95.7	80.0-122			0.209	20
(S) Toluene-d8				*92.9*	*94.4*	*80.0-120*				
(S) 4-Bromofluorobenzene				*100*	*102*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*99.6*	*102*	*70.0-130*				

Method Blank (MB)

(MB) R3598919-2 11/30/20 16:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*112*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*96.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3598919-1 11/30/20 15:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00499	99.8	70.0-123	
Ethylbenzene	0.00500	0.00473	94.6	79.0-123	
Toluene	0.00500	0.00507	101	79.0-120	
Xylenes, Total	0.0150	0.0140	93.3	79.0-123	
o-Xylene	0.00500	0.00463	92.6	80.0-122	
m&p-Xylenes	0.0100	0.00932	93.2	80.0-122	
(S) Toluene-d8			*107*	*80.0-120*	
(S) 4-Bromofluorobenzene			*97.7*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*99.5*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

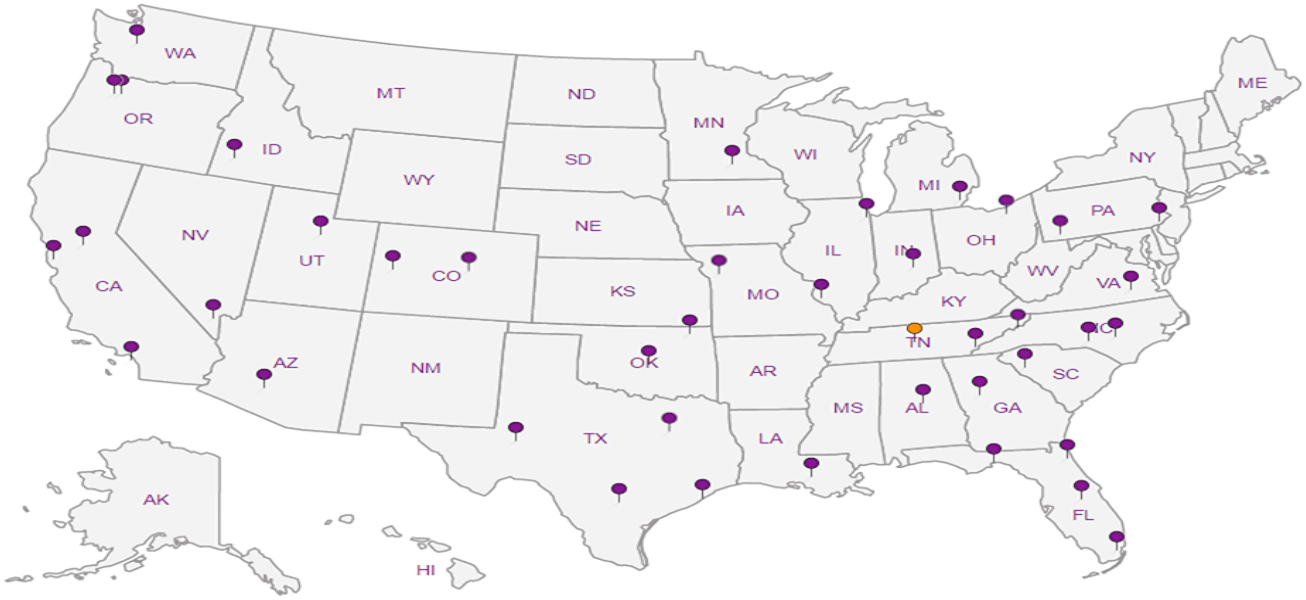
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Crestone Peak Resources

10188 E. I-25 Frontage Road
Firestone, CO 80504

Billing Information:

Report to: **Lonnie Dent, Jeff Carlo**

Email To: **ldent@remingtontech.net; jcarlo**

Project Description: **Grant-Hurt 14H**

City/State Collected: **40.13928, -104.96659**

Phone: **970-278-1646**
Fax: **970-278-1645**

Client Project #

Lab Project #

Collected by (print): **Jeff Carlo**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: **Standard**

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 8260	Remarks	Sample # (lab only)
TMW-1	Grab	GW	NA	11/19/20	1321	3	X		-01
TMW-2	Grab	GW	NA	11/19/20	1327	2	X		02
TMW-3	Grab	GW	NA	11/19/20	1333	3	X		03
TMW-4	Grab	GW	NA	11/19/20	1342	2	X		04
TMW-5	Grab	GW	NA	11/19/20	1347	3	X		05

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L1289103

G105

Acctnum: **CREPEAFCO**

Template:

Prelogin:

TSR:

PB:

Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 1380 7994 8937

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	11/20/20	1430		0	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.2 °C Bottles Received: 13	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/21/2020 Time: 09:00	Hold: Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

January 12, 2021

Crestone Peak Resources

Sample Delivery Group:	L1302727
Samples Received:	01/05/2021
Project Number:	CRESTONE PEAK RECOUR
Description:	Grant Hurt 14H

Report To: Lonnie Dent
10188 E. I-25 Frontage Road
Fireston, CO, CO 80504

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

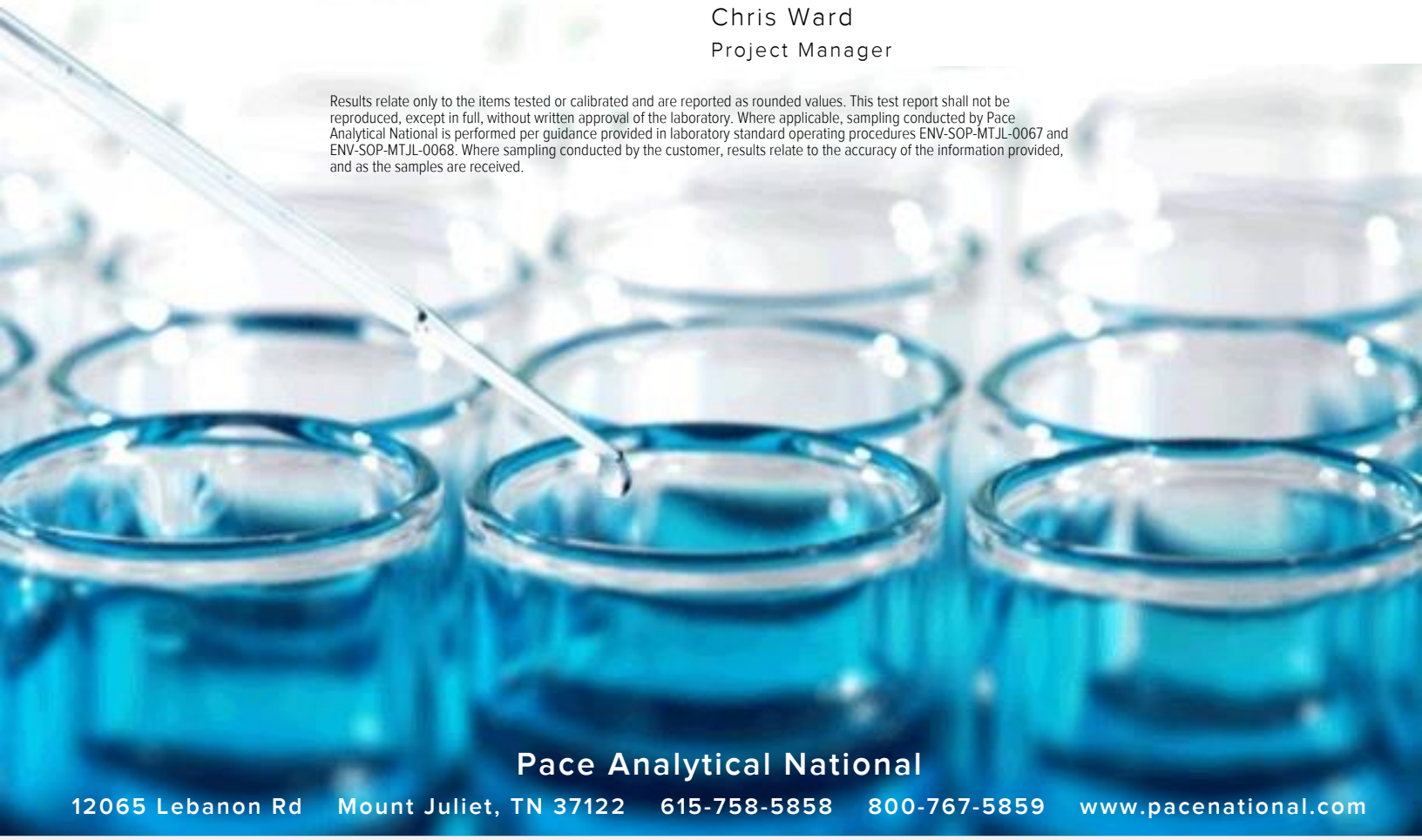


TABLE OF CONTENTS

TMW-6 L1302727-01 GW

Collected by: Joe Fletcher
Collected date/time: 12/29/20 13:10
Received date/time: 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601814	1	01/07/21 06:16	01/07/21 06:16	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1603720	1	01/12/21 00:18	01/12/21 00:18	ACG	Mt. Juliet, TN

TMW-7 L1302727-02 GW

Collected by: Joe Fletcher
Collected date/time: 12/29/20 13:10
Received date/time: 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601814	1	01/07/21 06:36	01/07/21 06:36	JCP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1603720	1	01/12/21 00:39	01/12/21 00:39	ACG	Mt. Juliet, TN

TMW-8 L1302727-03 GW

Collected by: Joe Fletcher
Collected date/time: 12/29/20 12:50
Received date/time: 01/05/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1602409	1	01/08/21 05:52	01/08/21 05:52	JHH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	01/12/2021 00:18	WG1603720
Toluene	ND		0.00100	1	01/07/2021 06:16	WG1601814
Ethylbenzene	ND		0.00100	1	01/07/2021 06:16	WG1601814
o-Xylene	ND		0.00100	1	01/07/2021 06:16	WG1601814
m&p-Xylene	ND		0.00200	1	01/07/2021 06:16	WG1601814
Total Xylenes	ND		0.00300	1	01/07/2021 06:16	WG1601814
(S) Toluene-d8	*108*		*80.0-120*		*01/07/2021 06:16*	WG1601814
(S) Toluene-d8	*102*		*80.0-120*		*01/12/2021 00:18*	WG1603720
(S) 4-Bromofluorobenzene	*101*		*77.0-126*		*01/07/2021 06:16*	WG1601814
(S) 4-Bromofluorobenzene	*98.3*		*77.0-126*		*01/12/2021 00:18*	WG1603720
(S) 1,2-Dichloroethane-d4	*90.3*		*70.0-130*		*01/07/2021 06:16*	WG1601814
(S) 1,2-Dichloroethane-d4	*114*		*70.0-130*		*01/12/2021 00:18*	WG1603720

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	01/12/2021 00:39	WG1603720
Toluene	ND		0.00100	1	01/07/2021 06:36	WG1601814
Ethylbenzene	ND		0.00100	1	01/07/2021 06:36	WG1601814
o-Xylene	ND		0.00100	1	01/07/2021 06:36	WG1601814
m&p-Xylene	ND		0.00200	1	01/07/2021 06:36	WG1601814
Total Xylenes	ND		0.00300	1	01/07/2021 06:36	WG1601814
(S) Toluene-d8	*110*		*80.0-120*		*01/07/2021 06:36*	WG1601814
(S) Toluene-d8	*102*		*80.0-120*		*01/12/2021 00:39*	WG1603720
(S) 4-Bromofluorobenzene	*104*		*77.0-126*		*01/07/2021 06:36*	WG1601814
(S) 4-Bromofluorobenzene	*96.9*		*77.0-126*		*01/12/2021 00:39*	WG1603720
(S) 1,2-Dichloroethane-d4	*91.0*		*70.0-130*		*01/07/2021 06:36*	WG1601814
(S) 1,2-Dichloroethane-d4	*115*		*70.0-130*		*01/12/2021 00:39*	WG1603720

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.00100	1	01/08/2021 05:52	WG1602409
Toluene	ND		0.00100	1	01/08/2021 05:52	WG1602409
Ethylbenzene	ND		0.00100	1	01/08/2021 05:52	WG1602409
o-Xylene	ND		0.00100	1	01/08/2021 05:52	WG1602409
m&p-Xylene	ND		0.00200	1	01/08/2021 05:52	WG1602409
Total Xylenes	ND		0.00300	1	01/08/2021 05:52	WG1602409
(S) Toluene-d8	*114*		*80.0-120*		*01/08/2021 05:52*	WG1602409
(S) 4-Bromofluorobenzene	*106*		*77.0-126*		*01/08/2021 05:52*	WG1602409
(S) 1,2-Dichloroethane-d4	*79.3*		*70.0-130*		*01/08/2021 05:52*	WG1602409

Method Blank (MB)

(MB) R3610696-2 01/07/21 02:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*96.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3610696-1 01/07/21 01:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00512	102	79.0-123	
Toluene	0.00500	0.00464	92.8	79.0-120	
Xylenes, Total	0.0150	0.0148	98.7	79.0-123	
o-Xylene	0.00500	0.00486	97.2	80.0-122	
m&p-Xylenes	0.0100	0.00994	99.4	80.0-122	
(S) Toluene-d8			*102*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*91.7*	*70.0-130*	

Method Blank (MB)

(MB) R3610860-2 01/07/21 20:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
o-Xylene	U		0.000174	0.00100
m&p-Xylenes	U		0.000430	0.00200
(S) Toluene-d8	*114*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*79.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3610860-1 01/07/21 19:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00449	89.8	70.0-123	
Ethylbenzene	0.00500	0.00482	96.4	79.0-123	
Toluene	0.00500	0.00500	100	79.0-120	
Xylenes, Total	0.0150	0.0151	101	79.0-123	
o-Xylene	0.00500	0.00509	102	80.0-122	
m&p-Xylenes	0.0100	0.00996	99.6	80.0-122	
(S) Toluene-d8			*109*	*80.0-120*	
(S) 4-Bromofluorobenzene			*103*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*80.6*	*70.0-130*	

Method Blank (MB)

(MB) R3611683-3 01/11/21 19:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.0*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3611683-1 01/11/21 18:05 • (LCSD) R3611683-2 01/11/21 18:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00540	0.00528	108	106	70.0-123			2.25	20
(S) Toluene-d8				*107*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*96.1*	*95.0*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*119*	*116*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA

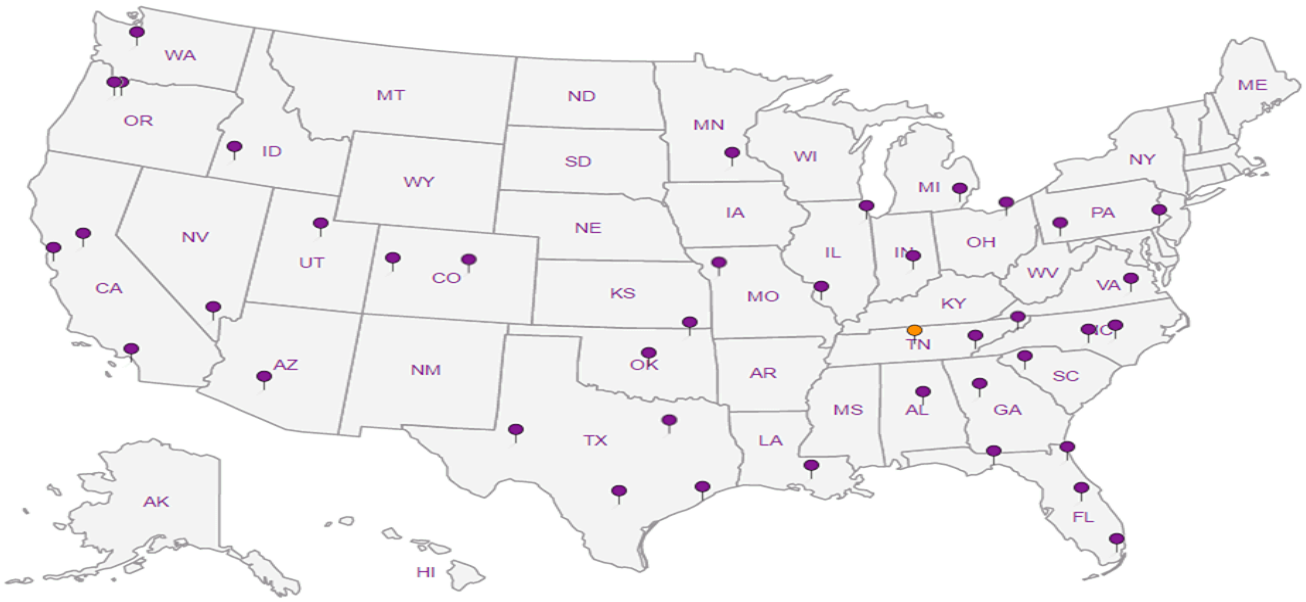
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Crestone Peak Resources

10188 E. I-25 Frontage Road
Firestone, CO 80504

Billing Information:

Report to: **Lonnie Dent, Jeff Carlo**

Email To: **ldent@remingtontech.net; jcarlo**

Project Description: **Grant Hurt 14H**

City/State Collected: **40.140137, -104.966349**

Phone: **970-278-1646**
Fax: **970-278-1645**

Client Project #: **Crestone Peak Resources**

Lab Project #

Collected by (print): **Joe Fletcher**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed: **Standard**

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX
TMW-6	Grab	GW		12/29/20	13:10	3	X
TMW-7	Grab	GW		12/29/20	13:30	3	X
TMW-8	Grab	GW		12/29/20	12:50	3	X

Chain of Custody Page 1 of 1

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 1302727
Table F084

Acctnum: **CREPEAFCO**
Template:
Prelogin:
TSR:
PB:

Shipped Via:

Remarks	Sample # (lab only)
	01
	02
	03

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 1380 7994 8823

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
[signature]	12/30/20	1400			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.8 °C Bottles Received: 9	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Olivia Tuma	Date: 11/5/21 Time: 930	Hold: / Condition: NCF / OK