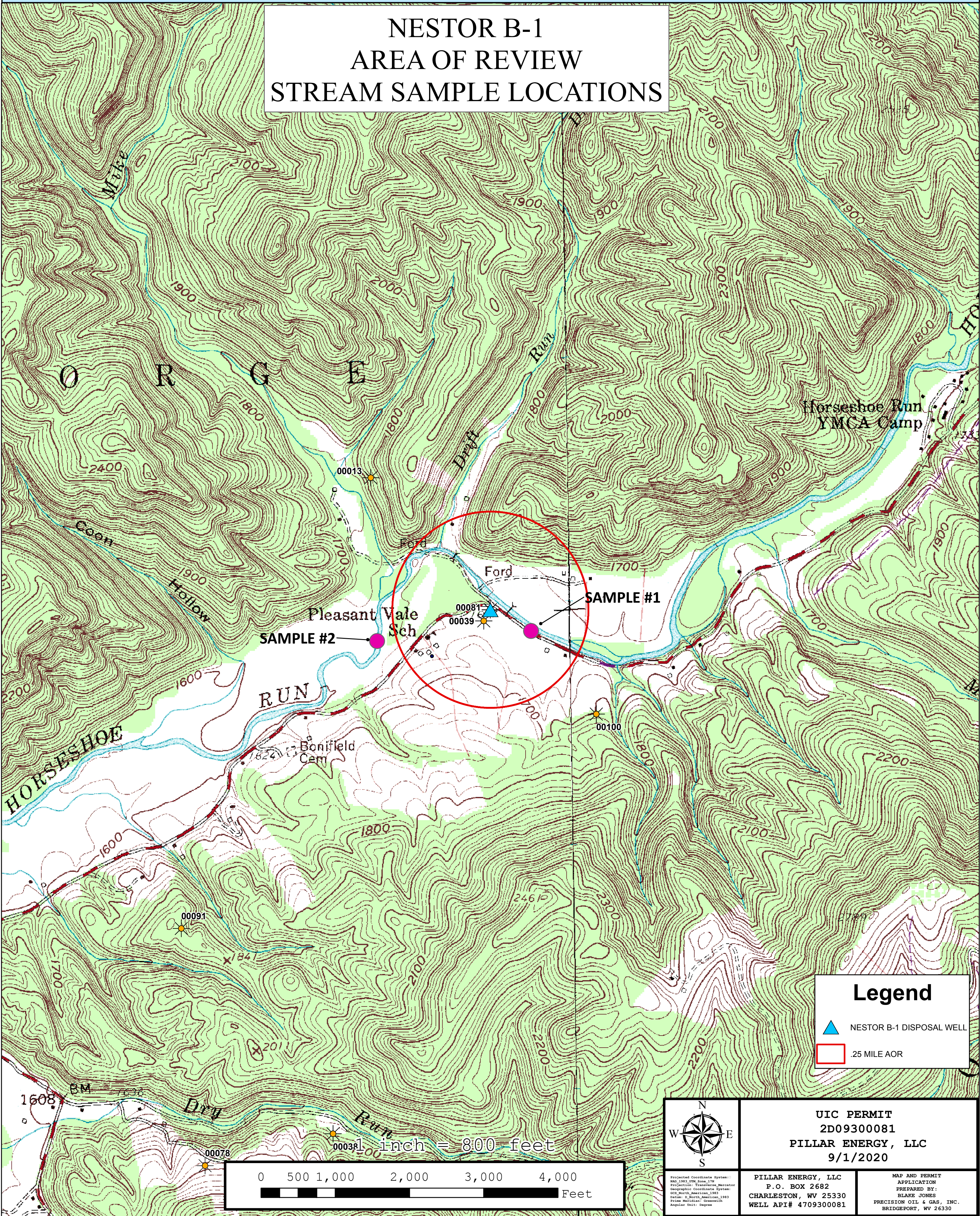
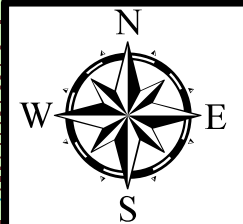


NESTOR B-1
AREA OF REVIEW
STREAM SAMPLE LOCATIONS

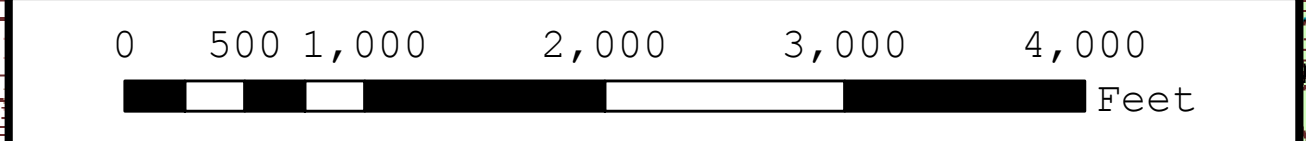


Legend

- NESTOR B-1 DISPOSAL WELL
- .25 MILE AOR



UIC PERMIT
2D09300081
PILLAR ENERGY, LLC
9/1/2020



Projected Coordinate System:
NAD 1983 UTM Zone 17N
Projection: Transverse Mercator
Geographic Coordinate System:
GCS North American 1983
Datum: North American 1983
Prime Meridian: Greenwich
Angular Unit: Degree

PILLAR ENERGY, LLC
P.O. BOX 2682
CHARLESTON, WV 25330
WELL API# 4709300081

MAP AND PERMIT
APPLICATION
PREPARED BY:
BLAKE JONES
PRECISION OIL & GAS, INC.
BRIDGEPORT, WV 26330

Sturm Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: PRECISION OIL & GAS, INC.

DATE/TIME SAMPLED:* 07-17-20 0700

SAMPLE ID: #1

DATE/TIME RECEIVED: 07-17-20 1115

SAMPLED BY: B. JONES

LABORATORY ID: POG 200717-1
PACE: #20082

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST	
pH	O	7.4	units	SM 22 nd 4500 H B	.1	2.-10.	07-20-20 1012	HN
TSS		U	mg/L	USGS I-3765-85	4	4	07-21-20 0404	EK
TDS		49	mg/L	USGS I-1750-85	4	4	07-21-20 0404	EK
SO ₄		6.10 J	mg/L	EPA 300.0 Rev 2.1-1993	1.0	10.	07-24-20 1608	MM
Cl ⁻		1.90	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	07-24-20 1608	MM
TOC		5.1	mg/L	SM22 nd 5310B	2.0	5.0	07-23-20 1717	LM
Br		U	mg/L	EPA 300.0 Rev 2.1-1993	.10	.50	07-27-20 1910	DC
Sr		.028 J	mg/L	EPA 200.7 Rev 4.4-1994	.002	.05	07-23-20 1105	DB
Ba		.031 J	mg/L	EPA 200.7 Rev 4.4-1994	.003	.05	07-20-20 1902	DB
Fe		.05 J	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	07-20-20 1902	DB
Mn		.002 J	mg/L	EPA 200.7 Rev 4.4-1994	.002	.05	07-20-20 1902	DB
Al		U	mg/L	EPA 200.7 Rev 4.4-1994	.04	.25	07-20-20 1902	DB
As		U	mg/L	EPA 200.9	.0025	.005	07-20-20 1419	RC
Na		1.71	mg/L	EPA 200.7 Rev 4.4-1994	.05	.50	07-20-20 1902	DB
Ca		7.75	mg/L	EPA 200.7 Rev 4.4-1994	.15	.50	07-20-20 1902	DB

*Client Provided

**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and/or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136.141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136.141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved



Sturm Environmental Services

VICTORIA L. HOOPS, PRESIDENT

COMPANY: PRECISION OIL & GAS, INC.

DATE/TIME SAMPLED:* 07-17-20 0800

SAMPLE ID: #2

DATE/TIME RECEIVED: 07-17-20 1115

SAMPLED BY: B. JONES

LABORATORY ID: POG 200717-2
PACE: #20083

PARAMETER	TEST RESULTS	UNITS	METHOD	METHOD DETECTION LIMIT	MINIMUM REPORTING LIMIT	DATE/TIME ANALYZED	ANALYST	
pH	O	7.1	units	SM 22 nd 4500 H B	.1	2.-10.	07-20-20 1012	HN
TSS		U	mg/L	USGS I-3765-85	4	4	07-21-20 0404	EK
TDS		40	mg/L	USGS I-1750-85	4	4	07-21-20 0404	EK
SO ₄		6.37 J	mg/L	EPA 300.0 Rev 2.1-1993	1.0	10.	07-24-20 1608	MM
Cl ⁻		1.55	mg/L	EPA 300.0 Rev 2.1-1993	1.0	1.0	07-24-20 1608	MM
TOC		3.5 J	mg/L	SM22 nd 5310B	2.0	5.0	07-23-20 1717	LM
Br		U	mg/L	EPA 300.0 Rev 2.1-1993	.10	.50	07-27-20 1910	DC
Sr		.023 J	mg/L	EPA 200.7 Rev 4.4-1994	.002	.05	07-23-20 1105	DB
Ba		.031 J	mg/L	EPA 200.7 Rev 4.4-1994	.003	.05	07-20-20 1902	DB
Fe		U	mg/L	EPA 200.7 Rev 4.4-1994	.05	.25	07-20-20 1902	DB
Mn		.004 J	mg/L	EPA 200.7 Rev 4.4-1994	.002	.05	07-20-20 1902	DB
Al		U	mg/L	EPA 200.7 Rev 4.4-1994	.04	.25	07-20-20 1902	DB
As		U	mg/L	EPA 200.9	.0025	.005	07-20-20 1419	RC
Na		1.76	mg/L	EPA 200.7 Rev 4.4-1994	.05	.50	07-20-20 1902	DB
Ca		6.19	mg/L	EPA 200.7 Rev 4.4-1994	.15	.50	07-20-20 1902	DB

*Client Provided

**See Attached. The following results meet or exceed requirements and standards set forth by the certifying authority except where noted.

Data Qualifiers

- B Analyte found in reagent blank. Indicates possible reagent or background contamination.
- E Estimated Reported value exceeded calibration range.
- J Reported value is an estimate because concentration is less than reporting limit.
- PND Precision not determined.
- R Sample results rejected because of gross deficiencies in QC or method performance. Re-sampling and/or re-analysis is necessary.
- RND Recovery not determined.
- U Compound was analyzed for, but not detected.
- O Out of holding. Time does not meet 40 CFR 136/141 compliance.
- T This result is not supported by our certification ID.
- A Does not meet 40 CFR 136/141 compliance.
- C Does not meet 47 CSR 32 compliance.

Narrative:

Approved



Sturm Environmental Services

STURM ENVIRONMENTAL
BRUSHY FORK ROAD
BRIDGEPORT, WV 26330
PHONE: 304-623-6549
FAX: 304-623-6552

STURM ENVIRONMENTAL SERVICES
610 D STREET
SO. CHARLESTON, WV 25303
PHONE: 304-744-9864
FAX: 304-744-7866

MAILING ADDRESSES ARE LISTED BELOW

REPORT TO: Client Name:

BILL TO: Client Name:

SAMS

Address:

Address:

City/State/Zip:

City/State/Zip:

Contact Person:

Contact Person:

Telephone Number:

Telephone Number:

Email Address:

Email Address:

Sampler Name: (Print)

Purchase Order #:

Project Name:

TURN AROUND TIME:

Special Reporting:

RUSH (pre-scheduled surcharges may apply) Please Check One

Sample ID / Description

COMPOSITE SAMPLE

GRAB SAMPLE

PRESERVATIVE

MATRIX

METHOD/ANALYSES

of Bottles

Field pH

Flow (gpm, cfs, mgd)
circle one

Field Conductivity

Field DO

Field Chlorine (mg/L or ug/L)
circle one

Field Temp (F or C) circle

START DATE
START TIME
END DATE
END TIME

DATE
TIME
Ice

OTHER
Na₂S₂O₃ TOLFC
HCl
NaOH
H₂SO₄ Plastic
H₂SO₄ Glass
None
HNO₃

Groundwater
Wastewater
Drinking Water
Sludge
Soil
Other (specify):

Stream Sample
See Attached

of Bottles

Field pH

Flow (gpm, cfs, mgd)
circle one

Field Conductivity

Field DO

Field Chlorine (mg/L or ug/L)
circle one

Field Temp (F or C) circle

#1
#2

7/17 7AM X
7/17 8AM X

X
X
X
X
X
X

X
X
X
X
X
X

300

Comments

Records retained for 5 years

Laboratory Comments:

Temperature Upon Receipt?

Bottles Preserved?

Temp upon Receipt?

LY

N

I

Requested by:

Date

Time

Received by:

Date

Time

Temperature Upon Receipt?

Bottles Preserved?

Temp upon Receipt?

Requested by:

Date

Time

Received by:

Date

Time

Temperature Upon Receipt?

Bottles Preserved?

Temp upon Receipt?

Requested by:

Date

Time

Received by:

Date

Time

Temperature Upon Receipt?

Bottles Preserved?

Temp upon Receipt?

Requested by:

Date

Time

Received by:

Date

Time

Temperature Upon Receipt?

Bottles Preserved?

Temp upon Receipt?

Chloride	TPH-GRO
Bromide	TPH-DRO
Strontium	TPH-ORO
Barium	Benzene (B)
Iron	Ethylbenzene (E)
Manganese	Toluene (T)
Aluminum	Total Xylenes (X)
Arsenic	Total Dissolved Solids (TDS)
Sodium	Total Organic Carbon (TOC)
Calcium	Total Suspended Solids (TSS)
Sulfate	pH

July 29, 2020

Missy Hoops
STURM ENVIRONMENTAL SERVICES
P O BOX 650
Bridgeport, WV 26330

RE: Project: 20082 & 20083
Pace Project No.: 7335678
PRECISION OIL & GAS

Dear Missy Hoops:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - WestVirginia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Todd Crone
todd.crone@pacelabs.com
800-999-0105
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

PRECISION OIL & GAS

Project: 20082 & 20083
#1 #3
Pace Project No.: 7335678

Pace Analytical Services Beaver

225 Industrial Park Drive, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM

North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

PRECISION OIL & GAS

Project: 20082 & 20083

Pace Project No.: 7335678

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7335678001	20082 #1	Water	07/17/20 07:00	07/21/20 17:25
7335678002	20083 #3	Water	07/17/20 08:00	07/21/20 17:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

PRECISION OIL & GAS

Project: 20082 & 20083

Pace Project No.: 7335678

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7335678001	20082 #1	EPA 8015C	MRF	3	PASI-BVWV
		EPA 8015C	RAB1	2	PASI-BVWV
		EPA 8260B	RAB1	9	PASI-BVWV
7335678002	20083 #3	EPA 8015C	MRF	3	PASI-BVWV
		EPA 8015C	RAB1	2	PASI-BVWV
		EPA 8260B	RAB1	9	PASI-BVWV

PASI-BVWV = Pace Analytical Services - WestVirginia

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

PRECISION OIL & GAS
Project: 20082 & 20083
Pace Project No.: 7335678

Sample: 20082 #1	Lab ID: 7335678001	Collected: 07/17/20 07:00	Received: 07/21/20 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS DRO Water	Analytical Method: EPA 8015C Preparation Method: EPA 3535A Pace Analytical Services - WestVirginia							
DRO (C10-C28)	ND	ug/L	229	1	07/22/20 09:22	07/22/20 22:13		
ORO (C20-C40)	ND	ug/L	229	1	07/22/20 09:22	07/22/20 22:13		
<i>Surrogates</i>								
o-Terphenyl (S)	50	%	14-126	1	07/22/20 09:22	07/22/20 22:13	84-15-1	
8015C GCV GRO Water	Analytical Method: EPA 8015C Pace Analytical Services - WestVirginia							
GRO (C06-C10)	ND	mg/L	0.50	1		07/28/20 18:29		
<i>Surrogates</i>								
2,5-Dibromotoluene (S)	105	%	49-147	1		07/28/20 18:29		
8260 MSV UST	Analytical Method: EPA 8260B Pace Analytical Services - WestVirginia							
Benzene	ND	ug/L	1.0	1		07/22/20 12:37	71-43-2	
Toluene	ND	ug/L	1.0	1		07/22/20 12:37	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/22/20 12:37	100-41-4	
m&p-Xylene	ND	ug/L	2.0	1		07/22/20 12:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/22/20 12:37	95-47-6	
<i>Surrogates</i>								
Dibromofluoromethane (S)	104	%	70-130	1		07/22/20 12:37	1868-53-7	
Toluene-d8 (S)	107	%	70-130	1		07/22/20 12:37	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130	1		07/22/20 12:37	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		07/22/20 12:37	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

PRECISION OIL & GAS

Project: 20082 & 20083
Pace Project No.: 7335678

Sample: 20083 #3	Lab ID: 7335678002	Collected: 07/17/20 08:00	Received: 07/21/20 17:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015C GCS DRO Water								
Analytical Method: EPA 8015C Preparation Method: EPA 3535A								
Pace Analytical Services - WestVirginia								
DRO (C10-C28)	ND	ug/L	224	1	07/22/20 09:22	07/22/20 22:43		
ORO (C20-C40)	ND	ug/L	224	1	07/22/20 09:22	07/22/20 22:43		
<i>Surrogates</i>								
o-Terphenyl (S)	54	%	14-126	1	07/22/20 09:22	07/22/20 22:43	84-15-1	
8015C GCV GRO Water								
Analytical Method: EPA 8015C								
Pace Analytical Services - WestVirginia								
GRO (C06-C10)	ND	mg/L	0.50	1		07/28/20 18:59		
<i>Surrogates</i>								
2,5-Dibromotoluene (S)	102	%	49-147	1		07/28/20 18:59		
8260 MSV UST								
Analytical Method: EPA 8260B								
Pace Analytical Services - WestVirginia								
Benzene	ND	ug/L	1.0	1		07/22/20 12:59	71-43-2	
Toluene	ND	ug/L	1.0	1		07/22/20 12:59	108-88-3	
Ethylbenzene	ND	ug/L	1.0	1		07/22/20 12:59	100-41-4	
m&p-Xylene	ND	ug/L	2.0	1		07/22/20 12:59	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		07/22/20 12:59	95-47-6	
<i>Surrogates</i>								
Dibromofluoromethane (S)	102	%	70-130	1		07/22/20 12:59	1868-53-7	
Toluene-d8 (S)	108	%	70-130	1		07/22/20 12:59	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130	1		07/22/20 12:59	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		07/22/20 12:59	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

PRECISION OIL & GAS

Project: 20082 & 20083
#1 #3
Pace Project No.: 7335678

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

PRECISION OIL & GAS

Project: 20082 & 20083

Pace Project No.: 7335678

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7335678001	20082 #1	EPA 3535A	35250	EPA 8015C	35345
7335678002	20083 #3	EPA 3535A	35250	EPA 8015C	35345
7335678001	20082 #1	EPA 8015C	35943		
7335678002	20083 #3	EPA 8015C	35943		
7335678001	20082 #1	EPA 8260B	35212		
7335678002	20083 #3	EPA 8260B	35212		

REPORT OF LABORATORY ANALYSIS

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LIMS73 Lab Sample Condition Upon Receipt (West Virginia)

WO#: 7335678

PM: DTC Due Date: 07/31/20
 CLIENT: STURMENVSER



Client Name: _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box/Containers Present: yes no

Seals intact: yes no

Thermometer Used _____ Type of Ice: Wet Blue None

Cooler Temperature _____ Observed Temp 4.5 °C Correction Factor: -0.3 °C Final Temp: 4.2 °C

Comments: _____

pH paper Lot#	Date and initials of person examining contents: <u>FW 7-22-20</u>
---------------	---

	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:	/			4.
Sample Labels match COC: -Includes date/time/ID	/		/	5. <u>GRO & BtoX labels are blank</u>
Matrix: <u>liquid</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used: -Pace Containers Used:	/			10.
Containers Intact:	/			11.
Orthophosphate field filtered:			/	12.
Hex Cr Aqueous sample field filtered: -pH adjusted within 24 hours? (if yes, indicate acid lot #)			/	13.
Filtered volume received for Dissolved tests:			/	14.
All containers have been checked for preservation: exceptions: VOA, coliform, O&G, LL Mercury, Non-aqueous matrix			/	15.
All containers meet method preservation requirements:			/	Initial when completed: <u>FW</u> Date/time samples provided to lab: <u>7-22-20</u>
Tests not preserved:				
Headspace in VOA Vials:		/		16.
Trip Blank Present:		/		17.
Trip Blank Custody Seals Present:		/		Initial when completed: <u>FW</u> Date: <u>7-22-20</u>

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in reports.
 *PM review is documented electronically in LIMS, when the Project Manager closes the SRF Review schedule in LIMS. The status may be reviewed in the Status section of the Workorder Edit Screen.

Sturm Environmental Services

STURM ENVIRONMENTAL
BRUSHY FORK ROAD,
BRIDGEPORT, WV 26330
PHONE: 304-623-6549
FAX: 304-623-6552

STURM ENVIRONMENTAL SERVICES
610 D STREET
SO. CHARLESTON, WV 25303
PHONE: 304-744-9864
FAX: 304-744-7866

MAILING ADDRESSES ARE LISTED BELOW

REPORT TO: Client Name: Precision Oil + Gas
Address: PO Box 804
City/State/Zip: Bridgeport, WV
Contact Person: Blake Jones
Telephone Number: 304-709-8382 Fax No. _____
Email Address: bjones@2@gmail.com
Sampler Name: (Print) Blake Jones
Project Name: Pillar - Stream Sample
Special Reporting: Email Results Fax Results

BILL TO: Client Name: SAH2
Address: _____
City/State/Zip: _____
Contact Person: _____
Telephone Number: _____ Fax No. _____
Email Address: _____
Purchase Order #: _____
TURN AROUND TIME: Standard Rush (pre-scheduled; surcharges may apply) Please Check One
Date Needed _____

1 DAY 2 DAY 3 DAY

Sample ID / Description	COMPOSITE SAMPLE		GRAB SAMPLE		PRESERVATIVE								MATRIX		METHOD/ANALYSES														
	START DATE	START TIME	END DATE	END TIME	DATE	TIME	Ice	OTHER	Na ₂ S ₂ O ₃	HCl	NaOH	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	None	HNO ₃	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	# of Bottles	Field pH	Flow (gpm, cfs, mgd) circle one	Field Conductivity	Field DO	Field Chlorine (mg/L or ug/L) circle one	Field Temp (F° or C°) circle	
#1					7/17	7AM	X	X				X			X							X							
#2					7/17	8AM	X	X				X			X							X							

Laboratory Comments: _____
Temperature Upon Receipt: _____
Bottles Preserved? _____

Records retained for 5 years

Requested by: Michaelson Date: 7/17/20 Time: 11:15AM Received by: KL Date: 7-17-20 Time: 1115