

**Prospect Energy LLC**

Sample Delivery Group: L1674179

Samples Received: 11/06/2023

Project Number:

Description: 30-7

Report To: Mary Griggs  
1036 Country Club Drive  
Castle Rock, CO 80108

Entire Report Reviewed By:

**[Preliminary Report]**

Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

# TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
FC-PWP L1674179-01	5
Gl: Glossary of Terms	7
Al: Accreditations & Locations	8
Sc: Sample Chain of Custody	9

<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Gl
<sup>7</sup> Al
<sup>8</sup> Sc

# SAMPLE SUMMARY

FC-PWP L1674179-01 GW

Collected by  
Mary Griggs

Collected date/time  
11/03/23 10:00

Received date/time  
11/06/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2165847	1	11/07/23 09:01	11/07/23 09:41	MM	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2015	WG2166401	1	11/07/23 16:28	11/07/23 18:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2166444	1	11/08/23 15:13	11/08/23 15:13	BJM	Mt. Juliet, TN
Wet Chemistry by Method 3500Cr C-2011	WG2165052	1	11/07/23 07:12	11/07/23 07:12	SET	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG2166338	1	11/07/23 08:48	11/07/23 16:20	UNP	Mt. Juliet, TN
Wet Chemistry by Method 9040C	WG2166023	1	11/07/23 13:35	11/07/23 13:35	EPW	Mt. Juliet, TN
Wet Chemistry by Method 9050A	WG2165825	1	11/08/23 13:52	11/08/23 13:52	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2165861	10	11/08/23 09:31	11/08/23 09:31	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2165861	100	11/08/23 09:44	11/08/23 09:44	GEB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2166265	10	11/08/23 07:18	11/08/23 11:25	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2165626	100	11/07/23 00:43	11/07/23 00:43	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2165655	100	11/07/23 02:08	11/07/23 02:08	GLN	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Gl

<sup>7</sup>Al

<sup>8</sup>Sc

# CASE NARRATIVE

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.

## [Preliminary Report]

Chris Ward  
Project Manager



## Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Dissolved Solids	6760		200	1	11/07/2023 09:41	WG2165847

## Gravimetric Analysis by Method 2540 D-2015

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	3.70		2.50	1	11/07/2023 18:20	WG2166401

## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Alkalinity	1250		20.0	1	11/08/2023 15:13	WG2166444

## Sample Narrative:

L1674179-01 WG2166444: Endpoint pH 4.5 Headspace

## Wet Chemistry by Method 3500Cr C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Hexavalent Chromium	ND	J6	0.000500	1	11/07/2023 07:12	WG2165052

## Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Phosphorus, Total	ND		0.100	1	11/07/2023 16:20	WG2166338

## Wet Chemistry by Method 9040C

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.26	T8	1	11/07/2023 13:35	WG2166023

## Sample Narrative:

L1674179-01 WG2166023: 7.26 at 19.6C

## Wet Chemistry by Method 9050A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	13700		10.0	1	11/08/2023 13:52	WG2165825

## Sample Narrative:

L1674179-01 WG2165825: at 25C

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Bromide	ND		10.0	10	11/08/2023 09:31	WG2165861
Chloride	2010		100	100	11/08/2023 09:44	WG2165861
Fluoride	ND		1.50	10	11/08/2023 09:31	WG2165861
Nitrate as (N)	ND	T8	1.00	10	11/08/2023 09:31	WG2165861
Nitrite as (N)	ND	T8	1.00	10	11/08/2023 09:31	WG2165861
Sulfate	3270		500	100	11/08/2023 09:44	WG2165861



## Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.0200	10	11/08/2023 11:25	WG2166265
Barium	0.166		0.0200	10	11/08/2023 11:25	WG2166265
Boron	3.98		0.300	10	11/08/2023 11:25	WG2166265
Cadmium	ND		0.0100	10	11/08/2023 11:25	WG2166265
Copper	ND		0.0500	10	11/08/2023 11:25	WG2166265
Lead	ND		0.0200	10	11/08/2023 11:25	WG2166265
Nickel	ND		0.0200	10	11/08/2023 11:25	WG2166265
Selenium	ND		0.0200	10	11/08/2023 11:25	WG2166265
Silver	ND		0.0200	10	11/08/2023 11:25	WG2166265
Zinc	ND		0.250	10	11/08/2023 11:25	WG2166265

<sup>1</sup>Cp<sup>2</sup>Tc<sup>3</sup>Ss<sup>4</sup>Cn<sup>5</sup>Sr<sup>6</sup>Gl<sup>7</sup>Al<sup>8</sup>Sc

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	27.6		10.0	100	11/07/2023 00:43	WG2165626
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	102		78.0-120		11/07/2023 00:43	WG2165626

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	3.06		0.100	100	11/07/2023 02:08	WG2165655
Toluene	4.10		0.100	100	11/07/2023 02:08	WG2165655
Ethylbenzene	0.356		0.100	100	11/07/2023 02:08	WG2165655
Xylenes, Total	1.58		0.300	100	11/07/2023 02:08	WG2165655
Naphthalene	ND		0.500	100	11/07/2023 02:08	WG2165655
1,2,4-Trimethylbenzene	0.205		0.100	100	11/07/2023 02:08	WG2165655
1,3,5-Trimethylbenzene	ND		0.100	100	11/07/2023 02:08	WG2165655
(S) Toluene-d8	106		80.0-120		11/07/2023 02:08	WG2165655
(S) 4-Bromofluorobenzene	94.5		77.0-126		11/07/2023 02:08	WG2165655
(S) 1,2-Dichloroethane-d4	108		70.0-130		11/07/2023 02:08	WG2165655

# GLOSSARY OF TERMS

## 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

ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
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.
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.
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

J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.



# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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	LA000356
Kentucky <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

\* 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 Analytical.





Company Name/Address: <b>Prospect Energy LLC</b>  1036 Country Club Drive Castle Rock, CO 80108			Billing Information: <b>Mary Griggs</b> 1036 Country Club Drive Castle Rock, CO 80108			Analysis / Container / Preservative <div style="display: flex; justify-content: space-between;"> <span>Pres Chk</span> <span>78</span> </div>										Chain of Custody Page ____ of ____   <b>MT JULIET, TN</b> <small>12065 Lebanon Rd Mount Juliet, TN 37122          Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubs/pes-standard-terms.pdf">https://info.pacelabs.com/hubs/pes-standard-terms.pdf</a></small>	
Report to: <b>Mary Griggs</b>			Email To: <b>griggs.mary@comcast.net;prospectenergy@iclo</b>														
Project Description: <b>30-57</b>			City/State Collected: <b>FT Collins CO</b>			Please Circle: PT MT CT ET											
Phone: <b>303-912-8292</b>		Client Project #		Lab Project # <b>PROENECRCO-915</b>													
Collected by (print): <b>Mary Griggs</b>		Site/Facility ID #		P.O. #													
Collected by (signature): <b>Mary Griggs</b>		Rush? (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #													
Immediately Packed on Ice N ____ Y ____		Date Results Needed		No. of Cntrs													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs										
<b>FC-PWP</b>		<b>G</b>	<b>GW</b>	<b>-</b>	<b>11/3/23</b>	<b>10:00</b>	<b>16</b>										

11/6-NCF-L1674179 PROENECRCO TD

R0/R1

Time estimate: oh Time spent: oh

Members

-  Troy Dunlap (responsible)
-  CW Chris Ward
-  SG Shane Gambill

- ☒ Parameter(s) past holding time
- ☒ Temperature not in range
- ☐ Improper container type
- ☐ pH not in range
- ☐ Insufficient sample volume
- ☐ Sample is biphasic
- ☐ Vials received with headspace
- ☐ Broken container
- ☐ Sufficient sample remains
- ☐ If broken container: Insufficient packing material around container
- ☐ If broken container: Insufficient packing material inside cooler
- ☐ If broken container: Improper handling by carrier: \_\_\_\_\_
- ☐ If broken container: Sample was frozen
- ☐ If broken container: Container lid not intact
- ☐ Client informed by Call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: \_\_\_\_\_
- ☐ PM initials: \_\_\_\_\_
- ☐ Client Contact: \_\_\_\_\_

Comments

- Troy Dunlap

6 November 2023 11:15 AM

1.) Received out of temperature at 14.1°C, 16.1°C and 15.0°C. FedEx Saturday Shipping Label.

2.) NITRATE and NITRITE are out of hold.

3.) Client is requesting Same Day Rush. Please confirm if same Day is needed.
- Shane Gambill

6 November 2023 12:51 PM

1) Run samples outside of temperature.

2) Run Nitrate and Nitrite out of holding time.

3) Please run as R2 due 11/08
- Troy Dunlap

6 November 2023 2:09 PM

Done.