

Prospect Energy LLC

Sample Delivery Group: L1677724

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:



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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

FC-PWP L1677724-01 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
Metals (ICPMS) by Method 6020	WG2171699	10	11/16/23 01:12	11/16/23 10:52	JPD	Mt. Juliet, TN

¹Cp ${}^2\text{Tc}$ 3S_s ${}^4\text{Cn}$ ${}^5\text{Sr}$ ${}^6\text{Qc}$ ${}^7\text{Gf}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

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.



Chris Ward
Project Manager

Project Narrative

Continuation of L1674179

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Calcium	179		10.0	10	11/16/2023 10:52	WG2171699
Iron	ND		1.00	10	11/16/2023 10:52	WG2171699
Magnesium	17.6		10.0	10	11/16/2023 10:52	WG2171699
Manganese	0.0767		0.0500	10	11/16/2023 10:52	WG2171699
Potassium	ND		20.0	10	11/16/2023 10:52	WG2171699
Sodium	3030		20.0	10	11/16/2023 10:52	WG2171699
Strontium	9.35		0.100	10	11/16/2023 10:52	WG2171699

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4000623-1 11/16/23 10:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Calcium	U		0.0936	1.00
Iron	U		0.0281	0.100
Magnesium	U		0.0735	1.00
Manganese	U		0.000704	0.00500
Potassium	U		0.108	2.00
Sodium	U		0.376	2.00
Strontium	U		0.000590	0.0100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4000623-2 11/16/23 10:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Calcium	5.00	5.04	101	80.0-120	
Iron	1.00	1.06	106	80.0-120	
Magnesium	5.00	5.04	101	80.0-120	
Manganese	0.0500	0.0524	105	80.0-120	
Potassium	5.00	5.04	101	80.0-120	
Sodium	5.00	5.21	104	80.0-120	
Strontium	0.0500	0.0495	98.9	80.0-120	

L1677206-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1677206-02 11/16/23 10:19 • (MS) R4000623-4 11/16/23 10:26 • (MSD) R4000623-5 11/16/23 10:29

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Calcium	5.00	80.9	86.2	86.9	107	122	1	75.0-125			0.888	20
Iron	1.00	15.9	17.0	17.7	107	185	1	75.0-125		V	4.50	20
Magnesium	5.00	14.3	19.6	19.7	106	108	1	75.0-125			0.586	20
Manganese	0.0500	1.82	1.87	1.87	110	108	1	75.0-125			0.0368	20
Potassium	5.00	ND	6.75	6.88	98.9	101	1	75.0-125			1.86	20
Sodium	5.00	65.9	70.1	73.1	83.2	144	1	75.0-125		V	4.27	20
Strontium	0.0500	0.332	0.378	0.374	90.6	83.3	1	75.0-125			0.974	20

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

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.
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

V	The sample concentration is too high to evaluate accurate spike recoveries.
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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

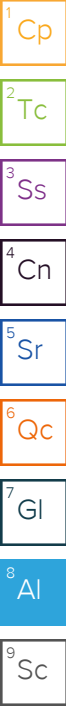
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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	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	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	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 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

* 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:

Prospect Energy LLC1036 Country Club Drive
Castle Rock, CO 80108

Billing Information:

Mary Griggs
1036 Country Club Drive
Castle Rock, CO 80108Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page of **MT JULIET, TN**

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:
<https://info.pacelabs.com/tutorials/standard-terms.pdf>

SDG #

Table #

Acctnum: **PRONECRCO**Template: **T241243**Prelimin: **P1035380**

PM: 824 - Chris Ward

PB:

Shipped Via: **FedEX Ground**

Remarks

Sample # (lab only)

Report to:

Mary Griggs

Email To:

griggs.mary@comcast.net;prospectenergy@iclo

Project Description:

30-57

City/State

Collected: **FT Collins CO**Please Circle:
PT MT CT ETPhone: **303-912-8292**

Client Project #

Lab Project #

PRONECRCO-915

Collected by (print):

Mary Griggs

Site/Facility ID #

P.O. #

Collected by (signature):

Mary Griggs**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

No.
of
CntrsPacked on Ice N Y

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

FC-PWP**G****GW****-****11/3/23****10:00****16****X****X****X****X****X****X****X****X****X****X****X****X****X****X**

915 Metals 250mlHDPE-HNO3

CR6ICFFP 50mlTube/plungerPres

COGCC Table 9/15-1

A/K

Br, Cl, F, NO₂, NO₃, SO₄

DRO

GRO

PT

SP Cond

TDS/TSS

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Also
COGCC Table
9/15-1 Analysis

pH Temp Flow Other

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Mary Griggs

Date:

11/3/23

Time:

18:00

Received by: (Signature)

Trip Blank Received: Yes No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received: **6/12/20: 12.2°****16**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

11-6-23

Time:

1000

Hold:

Condition:

NC / OK

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: Y N

L1674179 *PRONECRCO* R2

Ro/R1

Please relog to a new SDG for

CAG

FEG

MGG

MNG

KG

NAG

SRG

LG:DONE: MP:DONE:WG2166265 MA:DONE:WG2166265 RPT:DONE: INV:DONE:

\\InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw<file: //InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw> Data\\110823\\ICPMS9\\20231108110158\\Version 1\\DataFile.pdf
\\InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw<file: //InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw> Data\\110823\\ICPMS9\\20231108110525\\Version 1\\DataFile.pdf
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\\InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw<file: //InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw> Data\\110823\\ICPMS9\\20231108111854\\Version 1\\DataFile.pdf
\\InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw<file: //InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw> Data\\110823\\ICPMS9\\20231108133132\\Version 1\\DataFile.pdf
\\InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw<file: //InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw> Data\\110823\\ICPMS9\\20231108112539\\Version 1\\DataFile.pdf
\\InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw<file: //InstSrv\\RawDataStore\\2023\\MA\\ICPMS9\\Raw> Data\\110823\\ICPMS9\\20231108111209\\Version 1\\DataFile.pdf

Thanks,

[Description: ESC Leaf for Email Signature Line] Chris Ward (He/him/his)

Project Manager2

Pace Analytical National

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615.773.9712

MAKE YOUR PAYMENTS ONLINE<https://login.unitedtranzactions.com/obp/pace_analytical>

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Time estimate: oh

Time spent: oh

Members

 Chris Ward (responsible)