District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1713157779
District RP	2RP-4201
Facility ID	30-015-26536
Application ID	pAB1713157706

INFORMATION ONLY

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: 4323
Contact Name: Armando Martinez	Contact Telephone: 575.586.7639
Contact email: amarti@chevron.com	Incident # *(assigned by OCD)*: NAB1713157779
Contact mailing address: P.O. Box 469 Questa, NM 87564	

Location of Release Source

Latitude 32.292795 Longitude -104.0472031
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Candelario 24-1 Battery	Site Type: Tank Battery
Date Release Discovered: May 9, 2017	API# *(if applicable)*: 30-015-26536

Unit Letter	Section	Township	Range	County
D	24	23S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _Mosaic Potash_)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) ~30 bbls	Volume Recovered (bbls) ~25 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: On May 9, 2017, a release of 30 barrels (bbls) of produced water was discovered at the Site due to the failure of a one-inch diameter ball valve on the triplex pump. The produced water was contained inside the lined earthen firewall. Initial response included Rockcliff personnel shutting off triplex pump to replace the valve and coordinating with a vacuum truck to recover standing fluids.

State of New Mexico
Oil Conservation Division

Incident ID	NAB1713157779
District RP	2RP-4201
Facility ID	30-015-26536
Application ID	pAB1713157706

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Release volume is greater than 25 bbls.**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Josh Turner contacted Mike Bratcher, Maria Pruett, and Shelly Tucker via email on September 16, 2018.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Armando Martinez Title: Project Manager

Signature:  Date: 4/4/2022

email: amarti@chevron.com Telephone: 575.586.7639

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAB1713157779
District RP	2RP-4201
Facility ID	30-015-26536
Application ID	pAB1713157706

OCD Only

Received by: Jocelyn Harimon Date: 04/18/2022

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	30 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAB1713157779
District RP	2RP-4201
Facility ID	30-015-26536
Application ID	pAB1713157706

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☐ Photographs including date and GIS information – **See site maps for boring locations.**
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Armando Martinez Title: Project Manager

Signature:  Date: 4/4/22

email: amarti@chevron.com Telephone: 575.586.7639

OCD Only

Received by: _____ Date: _____

ARCADIS

Chevron Environmental Management Company

2021 Soil & Groundwater Assessment

Candelario 24-1 Battery

East Loving, New Mexico

NMOCD Case No. 2RP-4201

March 2022

2021 Soil & Groundwater Assessment

Candelario 24-1 Battery
East Loving, New Mexico
NMOCD Case No. 2RP-4201

March 2022

Prepared By:
Arcadis U.S., Inc.
10205 Westheimer Road, Suite 800
Houston
Texas 77042
Phone: 713 953 4800
Fax: 713 977 4620

Prepared For:
Armando Martinez
Portfolio Operations – Central
Chevron Environmental Management Company
P.O. Box 469
Questa, NM 87564

Our Ref:
30094129

Sarah Johnson
Task Manager II

Scott Foord, PG
Certified Project Manager

Contents

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Appendices

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Assessment Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing soil assessment activities for the Candelario 24-1 Battery (Site).

2 Project Summary

The Site is approximately two miles east of Loving, New Mexico. The Site is in Unit D, Section 24, Township 23 South, Range 28 East, Eddy County, New Mexico. A Site location map is included as **Figure 1**. According to the New Mexico Office of the State Engineers (NMOSE) database, there is a water well on the Site pad with a reported depth to groundwater of 37 feet below ground surface (bgs).

On September 29 and 30, 2020, Arcadis personnel collected 60 soil samples at 12 locations (SB-1 through SB-12) within the release area. The soil boring locations were determined based on information available on the Initial C-141 Form and from historical 2017 and 2018 soil investigations. A Site background summary detailing the 2017 produced water release and historical soil investigations is included in **Appendix A**. The soil borings were advanced using air rotary equipment. Soil samples were collected at depths ranging from the surface (0-0.5' bgs) to approximately 20 feet bgs. The soil samples were collected in four-ounce jars provided by Eurofins TestAmerica Laboratory and shipped overnight via courier to Eurofins TestAmerica Laboratory in Houston Texas. Upon receival by the laboratory, the soil samples were analyzed for chloride by the United State Environmental Protection Agency (USEPA) Method 300. Analytical results associated with the 2020 assessment activities indicated that horizontal and vertical extent of chloride impact in the soil has not been fully delineated.

3 2021 Soil Assessment

On August 17 and 18, 2021, Arcadis personnel collected 69 soil samples from 13 locations (SB-13 through SB-23, TMW-1 and TMW-2) within the release area. The soil boring locations were determined based on the analytical results from the previous assessments. The soil borings were advanced using air rotary equipment. Soil samples were collected at depths ranging from the surface (0-0.5' bgs) to approximately 20 feet bgs and to approximately 30 feet bgs at the two soil borings that were completed as temporary monitoring wells (TMW-1 and TMW-2). The soil cuttings were returned to the respective boring locations. All soil cuttings were continuously logged for lithologic characteristics according to the Unified Soil Classification System (USCS). The boring logs and monitoring well construction logs are provided in **Appendix B**. The soil samples were collected in four-ounce jars provided by Pace Analytical Laboratory (Pace) in Mt. Juliet, Tennessee. Upon receival by the laboratory, the soil samples were analyzed for chloride by USEPA Method 300. The soil boring and temporary monitoring well locations are presented in **Figure 2**.

4 2021 Soil Analytical Results

The soil analytical results were compared to the revised New Mexico Administrative Code (NMAC) closure screening levels for the specific analytical constituents specified in *Table 1 – Closure Criteria for Soils Impacted by a Release* within revised Rule 19.15.29. The specific analytical constituents for this Site include chloride only

for depth to groundwater less than 50 feet bgs. A summary of the soil sample analytical results is presented in **Table 1**. Cumulative soil analytical results are presented in **Appendix C**. Copies of the certified analytical reports and chain-of-custody documentation from Pace are presented in **Appendix D**. The soil analytical map is presented in **Figure 2**.

4.1 Chloride

Chloride exceeded the NMAC closure screening level of 600 milligrams per kilogram (mg/Kg) in 18 of the 69 samples collected, with concentrations ranging from 680 mg/Kg at SB-23 (14'-15' bgs) to 11,000 mg/Kg at SB-14 (0-0.5' bgs).

5 2021 Groundwater Assessment

On August 17 and 18, 2021, two temporary monitoring wells (TMW-1 and TMW-2) were installed to approximately 40 feet bgs. The temporary monitoring wells were constructed with two-inch diameter schedule 80 PVC casing and slotted screen. The top of the screen was installed 2 feet above the groundwater table and extend into the groundwater bearing unit. A sandpack was installed from the bottom of the well to 2 feet above the screened interval. The wells were purged, developed, gauged, sampled, and plugged within 24 hours of installation. The wells were properly plugged with bentonite/cement grout. The groundwater samples were collected in bottles provided by Pace in Mt. Juliet, Tennessee. Upon receival by the laboratory, the groundwater samples were analyzed for chloride by USEPA Method 300 and total dissolved solids (TDS) by USEPA Method 2540C. The temporary monitoring well locations are presented in **Figure 2**.

6 2021 Groundwater Analytical Results

The groundwater analytical results were compared to the applicable New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards. A summary of the groundwater sample analytical results is presented in **Table 2**. Copies of the certified analytical reports and chain-of-custody documentation from Pace are presented in **Appendix E**. The groundwater analytical map is presented in **Figure 3**.

6.1 Chloride

Chloride exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in both groundwater samples collected, with concentrations of 1,540 mg/L at TMW-2 and 1,570 mg/L at TMW-1.

6.2 Total Dissolved Solids

TDS exceeded the NMWQCC standard of 1,000 mg/L in both groundwater samples collected, with concentrations of 5,500 mg/L at TMW-1 and 6,060 mg/L at TMW-2.

7 Summary

Analytical results associated with recent assessment activities conducted in 2021 indicate that the horizontal and vertical extent of chloride impact in the soil and groundwater have not been fully delineated at the Site. Additional assessment activities will be evaluated, and a proposed scope with be included in a Work Plan that will be submitted to the NMOCD for review and approval.

Tables

Table 1
2021 Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, Eddy County, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-13	0-0.5'	08/18/21	***974***
	4'-5'	08/18/21	69.3
	9'-10'	08/18/21	90.6
	14'-15'	08/18/21	385
	19'-20'	08/18/21	138
SB-14	0-0.5'	08/18/21	***11,000 V***
	4'-5'	08/18/21	***7,350***
	9'-10'	08/18/21	***1,160***
	14'-15'	08/18/21	283
	19'-20'	08/18/21	219
SB-15	0-0.5'	08/18/21	554
	4'-5'	08/18/21	287
	9'-10'	08/18/21	97.8
	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	65.4
SB-16	0-0.5'	08/18/21	172
	4'-5'	08/18/21	175
	9'-10'	08/18/21	21.4
	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	31.0
SB-17	0-0.5'	08/18/21	172
	4'-5'	08/18/21	75.1
	9'-10'	08/18/21	193
	14'-15'	08/18/21	63.2
	19'-20'	08/18/21	138
SB-18	0-0.5'	08/19/21	83.1
	4'-5'	08/19/21	118
	9'-10'	08/19/21	37.1
	14'-15'	08/19/21	104
	19'-20'	08/19/21	89.1
SB-19	0-0.5'	08/19/21	329
	4'-5'	08/19/21	253
	9'-10'	08/19/21	78.9
	14'-15'	08/19/21	130
	19'-20'	08/19/21	293
SB-20	0-0.5'	08/19/21	***1,340***
	4'-5'	08/19/21	***724***
	9'-10'	08/19/21	580
	14'-15'	08/19/21	288
	19'-20'	08/19/21	555

Table 1
2021 Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, Eddy County, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-21	0-0.5'	08/19/21	***795***
	4'-5'	08/19/21	***4,050***
	9'-10'	08/19/21	***1,250***
	14'-15'	08/19/21	***3,530 J3 V***
	19'-20'	08/19/21	***1,420***
SB-22	0-0.5'	08/19/21	<9.89
	4'-5'	08/19/21	73.5
	9'-10'	08/19/21	***1,190***
	14'-15'	08/19/21	333
	19'-20'	08/19/21	137
SB-23	4'-5'	08/19/21	***1,540***
	9'-10'	08/19/21	404
	14'-15'	08/19/21	***680***
	19'-20'	08/19/21	491
TMW-1	0-0.5'	08/17/21	31.8
	4'-5'	08/17/21	***1,570***
	9'-10'	08/17/21	***721***
	14'-15'	08/17/21	***1,980***
	19'-20'	08/17/21	81.8
	24'-25'	08/17/21	231
	29'-30'	08/17/21	97.0
TMW-2	0-0.5'	08/18/21	<11.6
	4'-5'	08/18/21	82.6
	9'-10'	08/18/21	38.3
	14'-15'	08/18/21	44.4
	19'-20'	08/18/21	559
	24'-25'	08/18/21	202
	29'-30'	08/18/21	***1,030***

Legend:

BOLD = Analytes exceeding NMAC standard
F1: MS and/or MSD recovery exceeds control limits
B = The same analyte is found in the associated blank.
J = Result is less than the Reported Detection Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value
J3 = The associated batch QC was outside the established quality control range for precision.
V = The sample concentration is too high to evaluate accurate spike recoveries.
'<' indicates the analyte was not detected at or above the MDL
mg/kg: Milligram per Kilogram
NMAC : New Mexico Administration Code
" ' " : Indicates one foot
" : Indicated inches
bgs: below ground surface
SB : Soil Boring sample
TMW : Temporary Monitoring Well

Notes:
1. Chloride analyzed by United States Environmental Protection Agency Method 300.0
2. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Table 2
2021 Groundwater Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, Eddy County, New Mexico

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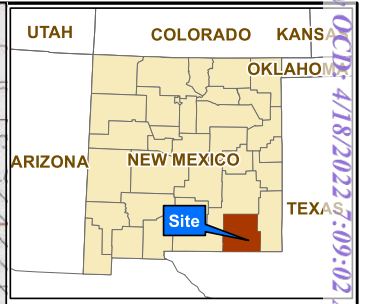
Sample Name	Sample Date	Chloride (mg/L)	TDS (mg/L)
NMWQCC Standards [a]		250	1000
TMW-1	8/20/2021	***1,570 [1,570]***	***5,500 [4,770]***
TMW-2	8/20/2021	***1,540***	***6,060***

Legend:
Values in brackets indicate duplicate sample results.
mg/L : Miligram(s) per Liter
TDS = total dissolved solids
TMW - Temporary Monitoring Well
NMWQCC : New Mexico Water Quality Control Commission
USEPA = United States Environmental Protection Agency
Bold = values exceeding NMWQCC standards

Notes:
1. Chloride analyzed by USEPA Method 300.0

Figures



N

0 2,000 4,000

SCALE IN FEET

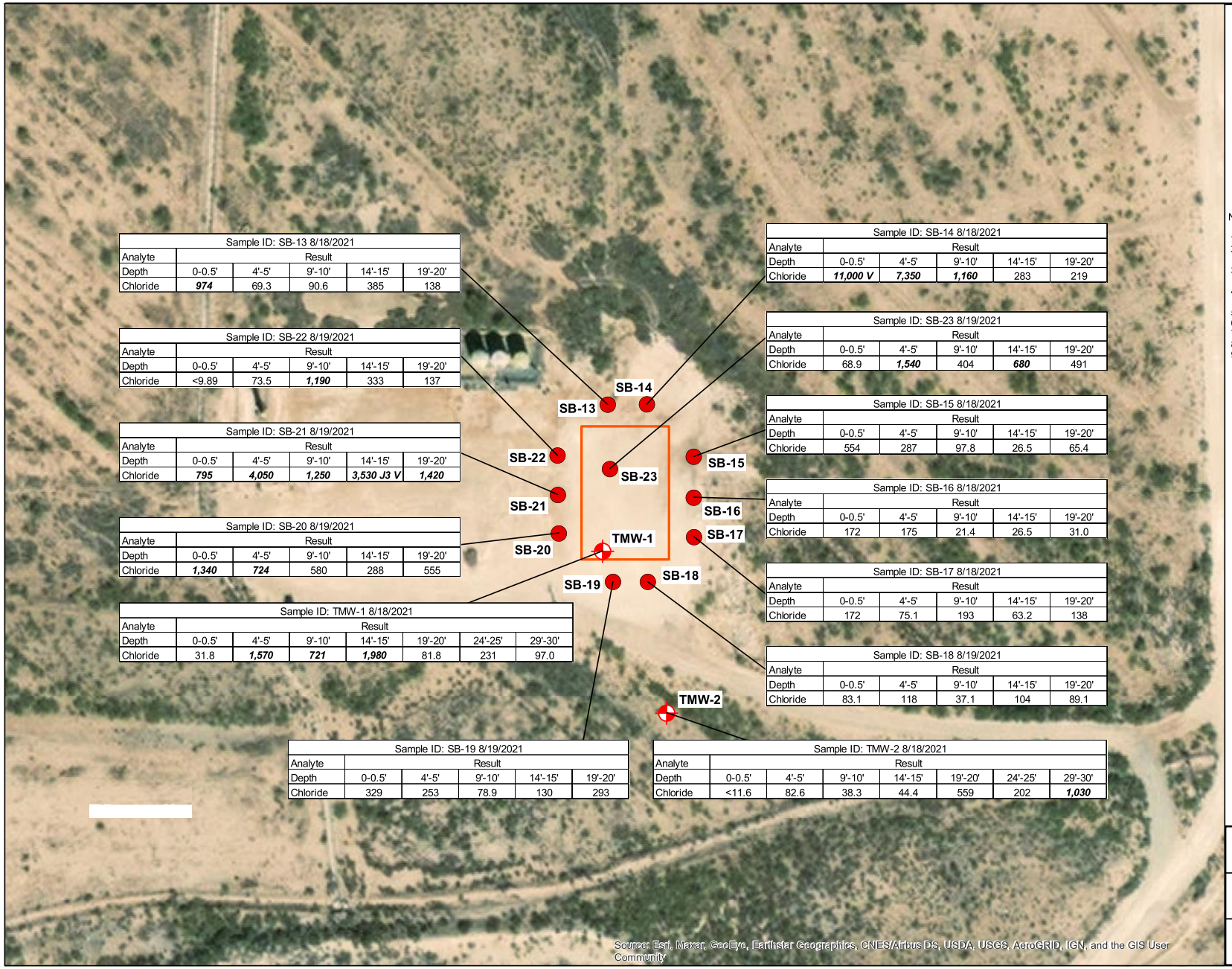
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CANDELARIO 24-1 SOIL ASSESSMENT
EAST LOVING, EDDY COUNTY, NEW MEXICO

SITE LOCATION MAP

ARCADIS

FIGURE 1

PATH: T:_ENV\CHEVRON_CANDELARIO 24-1 BATTERY\MXD\2021\FIGURE1 - SITE LOCATION MAP.MXD SAVED: 10/7/2021 BY: SPI00797



Sample ID: SB-13 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***974***	69.3	90.6	385	138

Sample ID: SB-22 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	<9.89	73.5	***1,190***	333	137

Sample ID: SB-21 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***795***	***4,050***	***1,250***	***3,530 J3 V***	***1,420***

Sample ID: SB-20 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***1,340***	***724***	580	288	555

Sample ID: TMW-1 8/18/2021							
Analyte	Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'	24'-25'	29'-30'
Chloride	31.8	***1,570***	***721***	***1,980***	81.8	231	97.0

Sample ID: SB-19 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	329	253	78.9	130	293

Sample ID: SB-14 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***11,000 V***	***7,350***	***1,160***	283	219

Sample ID: SB-23 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	68.9	***1,540***	404	***680***	491

Sample ID: SB-15 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	554	287	97.8	26.5	65.4

Sample ID: SB-16 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	172	175	21.4	26.5	31.0

Sample ID: SB-17 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	172	75.1	193	63.2	138

Sample ID: SB-18 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	83.1	118	37.1	104	89.1

Sample ID: TMW-2 8/18/2021							
Analyte	Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'	24'-25'	29'-30'
Chloride	<11.6	82.6	38.3	44.4	559	202	***1,030***

LEGEND

- Soil Boring Location
- Temporary Monitoring Well Location
- Historical Battery Containment

NOTES:

1. ***BOLD*** = Analytes exceeding NMAC standard.
2. V = The sample concentration is too high to evaluate accurate spike recoveries.
3. J3 = The associated batch QC was outside the established quality control range for precision.
4. '<' indicates the analyte was not detected at or above the Method Detection Limit.
5. mg/kg = Milligram per Kilogram.
6. NMAC = New Mexico Administration Code.
7. " ' " = Indicates one foot.
8. All depths are in feet below ground surface.
9. SB = Soil Boring sample.
10. TMW = Temporary Monitoring Well
11. Chloride analyzed by United States Environmental Protection Agency Method 300.0.
12. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2).

N

0 80 160

SCALE IN FEET

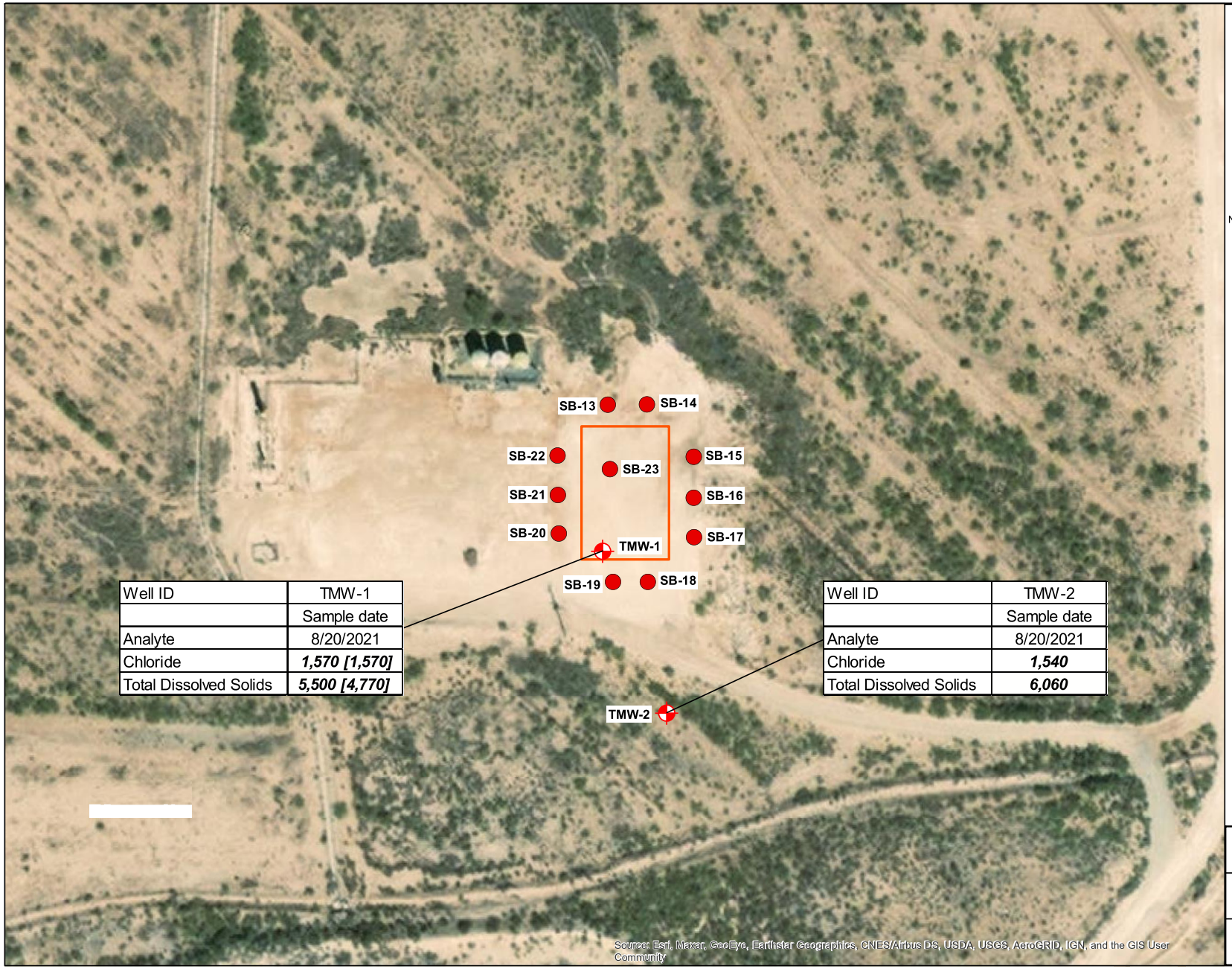
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CANDELARIO 24 -1 BATTERY
EAST LOVING, EDDY COUNTY, NEW MEXICO

SOIL ANALYTICAL RESULT MAP - AUGUST 2021

ARCADIS

FIGURE 2

DOCUMENT PATH: T:_ENV\CHEVRON_CANDELARIO 24\1-1 BATTERY\MXD\2021\FIGURE3 - SOIL ANALYTICAL_MAP.MXD



Well ID	TMW-1
	Sample date
Analyte	8/20/2021
Chloride	***1,570 [1,570]***
Total Dissolved Solids	***5,500 [4,770]***

Well ID	TMW-2
	Sample date
Analyte	8/20/2021
Chloride	***1,540***
Total Dissolved Solids	***6,060***

LEGEND

- Soil Boring Location
- Temporary Monitoring Well Location
- Historical Battery Containment

NOTES:

1. ***BOLD*** = Analytes exceeding NMAC standard.
2. Values in brackets indicate duplicate sample results
3. mg/L = Milligrams per Liter
4. TMW = Temporary Monitoring Well
5. NMAC = New Mexico Administration Code
6. SB = Soil Boring sample
7. USEPA = United States Environmental Protection Agency
8. Chloride analyzed by USEPA Method 300.0
9. Title 20, Chapter 6 of the NMAC for Environmental Protection, Water Quality, Ground and Surface Water Protection, 20.6.2 NMAC. December.

N

0 80 160

SCALE IN FEET

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CANDELARIO 24 -1 BATTERY
EAST LOVING, EDDY COUNTY, NEW MEXICO

GROUNDWATER ANALYTICAL RESULT MAP - AUGUST 2021

ARCADIS

FIGURE 3

DOCUMENT PATH: T:_ENV\CHEVRON_CANDELARIO 241-1 BATTERY\MXD\2021\FIGURE2 - GROUNDWATER ANALYTICAL MAP.MXD

Appendix A

Site Background Summary

Appendix A

On May 9, 2017, a release of 30 barrels (bbls) of produced water was discovered at the Site due to the failure of a one-inch diameter ball valve on the triplex pump. The produced water was contained inside the lined earthen firewall. Initial response included Rockcliff personnel shutting off triplex pimp to replace the valve and coordinating with a vacuum truck to recover standing fluids. Approximately 25 bbls were recovered and disposed of at a New Mexico Oil Conservation Division (NMOCD) approved facility. The initial C-141 Form was approved with conditions and assigned remediation permit number 2RP-4201.

On June 14, 2017, Kane Environmental Engineering Inc. (Kane) collected soil samples at five locations (S1 through S5) within the spill area. The soil samples were screened in the field for hydrocarbons using a photoionization detector (PID) and chloride using an electrical conductivity (EC) meter. The soil samples were analyzed by Cardinal Laboratories for benzene, toluene, ethylbenzene and total xylenes (BTEX); total petroleum hydrocarbons (TPH) including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO); and chloride by United States Environmental Protection Agency (USEPA) Methods 8021, 8015 and 300 respectively. Kane excavated approximately fifteen test holes to evaluate the integrity of the liner. Based on the reported observations, the liner appeared to be intact. The analytical results indicated that further assessment was necessary. Kane submitted the *Investigation Report and Corrective Action Plan for the Candelario 24-1 SWD* to the NMOCD in June 2017.

On March 28, 2018, Souder, Miller & Associates (SMA) installed two soil borings within the lined earthen firewall of the tank battery. A total of seven soil samples were collected for laboratory analysis for chloride using USEPA Method 300.0. A total of five soil samples were collected for BTEX using USEPA Method 8021B, and TPH for ORO, DRO, and GRO by USEPA Method 8015D.

Results of the soil investigation indicated that chloride impacts extended to between 5 and 14 feet bgs. Impacted soil was excavated and removed to a depth of 4 feet bgs within the original bermed tank battery area. After the initial excavation, Rockliff constructed a new saltwater disposal (SWD) facility in August 2018. The new tank battery is located over the former excavated area and encompasses a smaller area with a liner.

Composite sidewall samples were collected on an unknown date by SMA from the boundaries of the old facility after the new facility was constructed. Confirmation samples were comprised of five-point composites of the walls (SW1 – SW10). The laboratory results for the confirmation samples indicated that impacts extend beyond the excavation (and former tank battery footprint). The new tank battery was constructed within an area requiring additional assessment. SMA requested deferral of further remediation until the well is no longer in use and the new facilities are removed. SMA submitted a closure request titled *Remediation Closure Report for the Candelario #1 SWD Release,* dated September 27, 2018 to the NMOCD in September of 2018.

On May 30, 2019, Arcadis, on behalf of CEMC, submitted a Site Deferral Request to the NMOCD. The Site Deferral Request was approved on July 23, 2019 with the following conditions; install additional delineation soil borings around the previously excavated area, install additional soil borings at sample locations B1 and B2 and collect soil samples in more discrete sample intervals at those two locations.

Appendix B

Soil Boring Logs & Monitoring Well Construction Logs

Date Start/Finish: 8/18/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-13 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, subrounded, caliche, hard, loose, throughout.	
					SP		sand 2.5YR light reddish brown, fine, well sorted, loose, subrounded, dry.	
5	2	4-5'	1'					
	3	9-10'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche matrix, sand, fine, moderately sorted, well cemented, calcareous, hard, with clasts; pebbles to cobbles, poorly sorted, very hard, well cemented, chert, siliceous, subrounded, dry.	
10	4		1'					
	5	14-15'					sandy caliche 10YR 8/4 very pale brown caliche, with abundant sand, fine, silyu, moderately to well sorted, well cemented, dry.	
15								
20							End of boring at 20' bgs	

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Remarks:
1. Below Ground Surface (bgs)
2. Below Top of Casing (btoc)
3. Northing and Easting State Plane Coordinates shown are Transverse Mercator and conform to the 'New Mexico Coordinate System", New Mexico Central Zone, North American Datum of 1983.
4. Elevations shown reference the North American Vertical Datum of 1983

Date Start/Finish: 8/18/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-14 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SC		clayey sand 5YR 4/3 reddish brown fine sand, well sorted, subrounded, loose, with some clay sorted throughout, nonplastic, moist, little roots, trace to little caliche pebbles.	
5	2	4-5'	1'					
	3		1'				caliche conglomerate 5YR 8/2 pinkish white caliche matrix, sand, fine, silty, well cemented, hard, with clasts, pebbles to cobbles, rounded, very hard, well cemented, abundant, poorly sorted throughout.	
10		9-10'						
	4		1'					
15		14-15'					sandy caliche 10YR 8/4 very pale brown caliche, with fine sand, well sorted, silty, well cemented, very hard, with little to some granules to pebbles, siliceous and calcareous.	
	5		1'					
20		19-20'					End of boring at 20' bgs	

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4. Elevations shown reference the North American Vertical Datum of 1983

Date Start/Finish: 8/18/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-15 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SC		clayey sand (topsoil) 5YR 4/3 reddish brown fine sand, well sorted, subrounded, loose, with some clay well sorted throughout, non-plastic, pliable, soft, little roots.	
					SP		sand 5YR 5/6 yellowish red, very fine, well sorted, subrounded, loose, silty, dry.	
5	2	4-5'	1'				caliche conglomerate 5YR 8/2 pinkish white conglomerate with caliche matrix, sandy, well cemented, poorly sorted, with pebble to cobble clasts, subrounded, very hard, chert, siliceous, dry. With lenses of sandy caliche, trace clasts.	
	3		1'					
10		9-10'						
	4		1'					
15		14-15'					sandy caliche 5YR 8/2 pinkish white caliche with fine sand, well sorted throughout, silty, hard, well cemented, dry.	
	5		1'					
20		19-20'					End of boring at 20' bgs	

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4. Elevations shown reference the North American Vertical Datum of 1983

Date Start/Finish: 8/18/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-16 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SC		clayey sand 5YR 4/3 reddish brown fine sand, well sorted, subrounded, little silt, loose with some clay sorted throughout, nonplastic, moist, little roots, trace to little granules; caliche.	
					SP		sand 2.5YR light reddish brown, fine, well sorted, loose, subrounded, dry.	
5 -5	2	4-5'	1'					
	3		1'				caliche conglomerate 5YR 8/2 pinkish white caliche matrix, some sand, moderately sorted, well cementedm calcareous cement, hard, with some clasts, granules to pebbles, subrounded, moderately to poorly sorted, chert, siliceous, very hard.	
10 -10		9-10'						
	4		1'					
15 -15		14-15'					sandy caliche 10YR 8/4 very pale brown caliche with abundant sand, fine, well sorted, well cemented, calcareous cement, very hard, dry. @18' color change to 7.5YR 7/4 pink	
	5		1'					
20 -20		19-20'					End of boring at 20' bgs	

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4. Elevations shown reference the North American Vertical Datum of 1983

Date Start/Finish: 8/18/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-17 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, subrounded, loose to firm, with little to some granules to pebbles scattered throughout.	
					SP		clayey sand 5YR 4/3 reddish brown fine sand, well sorted, subrounded, loose with clay throughout, nonplastic, dry, trace roots.	
							sand 2.5YR light reddish brown, fine, well sorted, subrounded, loose, dry.	
5	2	4-5'	1'				sandy caliche 10YR 8/4 very pale brown caliche, well cemented, hard with some to abundant sand, very fine to fine, well sorted throughout, in calcareous matrix, little to some lenses of granules to pebbles, poorly sorted, subrounded, very hard, chert, siliceous.	
	3		1'					
10		9-10'						
	4		1'					
15		14-15'						
	5		1'					
20		19-20'					End of boring at 20' bgs	

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3. Northing and Easting State Plane Coordinates shown are Transverse Mercator and conform to the 'New Mexico Coordinate System", New Mexico Central Zone, North American Datum of 1983.
4. Elevations shown reference the North American Vertical Datum of 1983

Date Start/Finish: 8/19/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-18 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, subrounded, loose, with granules to pebbles scattered throughout, caliche, subrounded, hard, dry.	
					SP		sand 2.5YR light reddish brown, fine, well sorted, subrounded, loose, dry.	
5	2	4-5'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche, very hard, well cemented, with some sand, fine, throughout, with some to abundant clasts, pebble to cobbles, poorly sorted, matrix supported, subrounded, very hard, siliceous/chert.	
	3		1'					
10		9-10'			SP		sand as above from 1-5', dry, loose.	
	4		1'					
15		14-15'					sandy caliche 10YR 8/4 very pale brown caliche, with some to abundant sand, well sorted throughout, fine, well cemented, very hard, dry.	
	5		1'		SP		sand as above from 9-16'	
							sandy caliche as above from 16-18'. dry, well cemented.	
20		19-20'					End of boring at 20' bgs	

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4. Elevations shown reference the North American Vertical Datum of 1983

Date Start/Finish: 8/19/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-19 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, subrounded, loose, with some granules to pebbles poorly sorted throughout, caliche, hard, dry.	
					SC		clayey sand 5YR 4/2 reddish brown fine sand, well sorted, subrounded, loose, with clay well sorted throughout, nonplastic, dry.	
5	2	4-5'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche matrix, very hard, well cemented, with some sand, fine, throughout, with alternating layers of some to abundant clasts, pebble to cobbles, rounded, poorly sorted, chery, siliceous, very hard, well cemented in calcareous matrix.	
	3		1'					
10		9-10'						
	4		1'					
15		14-15'					sandy caliche 10YR 8/4 very pale brown caliche, with some to abundant sand, well sorted throughout, fine, silty, well cemented, very hard.	
	5		1'					
20		19-20'					End of boring at 20' bgs	

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Date Start/Finish: 8/19/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-20 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, poorly sorted, subrounded, loose, with some granules to pebbles poorly sorted throughout, caliche, hard, dry.	
					SC		clayey sand 5YR 4/3 reddish brown fine sand, well sorted, subrounded, loose, with some clay dispersed throughout, nonplastic, dry.	
5	2	4-5'	1'		SP		sand 2.5YR light reddish brown, fine, well sorted, subrounded, loose, dry.	
	3		1'				caliche conglomerate 5YR 8/2 pinkish white caliche, very hard, well cemented, sandy, with some to abundant pebble to cobbles, subrounded, poorly sorted throughout, subrounded, chert/siliceous, very hard, dry.	
10		9-10'					caliche 10YR 8/2 very pale brown caliche, well cemented, very hard, with some fine sand to silt throughout, well sorted, dry. with thin beds of sand, as from 3-6' throughout.	
	4		1'					
15		14-15'						
	5		1'					
20		19-20'					End of boring at 20' bgs	

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4. Elevations shown reference the North American Vertical Datum of 1983

Project: 30094129 Template: LPTEMPLATE3.ldfx
Data File: SB-20 Date: 9/15/2021 Created/Edited by: AD

Date Start/Finish: 8/19/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-21 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink very fine to fine sand, silty, moderately sorted, subrounded, loose, dry, with little to some granules to cobbles scattered throughout, poorly sorted, caliche, hard.	
					SP		sand 2.5YR light reddish brown, fine, well sorted, subrounded, loose, dry.	
5	2	4-5'	1'					
							caliche 10YR 8/2 very pale brown sand, silt to fine sand, well sorted, well cemented with calcareous matrix, hard, little to some granules to pebbles, chert, rounded, poorly sorted throughout, with trace to little lenses sand, as above.	
	3		1'					
10		9-10'						
	4		1'					
					SP		sand, as from 0.5 to 6', with interbeds clay, trace to little, soft, pliable, slightly plastic, dry.	
15		14-15'						
	5		1'				caliche as from 6-14'.	
20		19-20'					End of boring at 20' bgs	

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Project: 30094129 Template: LPTEMPLATE3.ldfx
Data File: SB-21 Date: 9/15/2021 Created/Edited by: AD

Date Start/Finish: 8/19/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-22 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink very fine to fine sand, silty, moderately sorted, subrounded, loose, dry, with some granules to pebbles, caliche, hard, subrounded.	
							sand 2.5YR light reddish brown, fine, well sorted, subrounded to rounded, loose, dry.	
					SP			
5	2	4-5'	1'					
	3		1'				caliche conglomerate 5YR 8/2 pinkish white caliche, sandy, well sorted matrix, hard, well cemented, with little to some clasts, pebbles to cobbles, matrix supported, poorly sorted, chert/siliceous, dry.	
		9-10'						
10							caliche 10YR 8/2 very pale brown caliche, well cemented, very hard, with fine sand, well sorted, silty in beds, dry.	
	4		1'					
15		14-15'						
	5		1'					
20		19-20'					End of boring at 20' bgs	

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Project: 30094129 Template: LPTEMPLATE3.ldfx
Data File: SB-22 Date: 9/15/2021 Created/Edited by: AD

Date Start/Finish: 8/19/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 20' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** SB-23 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad) 7.5YR 7/3 pink silt to fine sand, moderately sorted, subrounded, loose, dry, with granules to pebbles, poorly sorted throughout, little to some, hard, calcareous.	
					SP		sand 2.5YR light reddish brown, fine, well sorted, subrounded to rounded, loose, dry.	
5	2	4-5'	1'				caliche conglomerate 5YR 8/2 pinkish white caliche, with some sand, fine, well sorted, subrounded, well cemented, very hard, with some to abundant clasts, pebbles to cobbles, poorly sorted throughout, hard, chert, dry.	
	3		1'					
10		9-10'					sandy caliche 10YR 8/2 very pale brown caliche, with some to abundant sand, fine, well sorted, subrounded, well cemented in calcareous caliche matrix. alternating beds of moderately cemented, firm, and well cemented very hard caliche, trace to little cherty pebbles in beds throughout.	
	4		1'					
15		14-15'						
	5		1'					
20		19-20'					End of boring at 20' bgs	

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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1		C-4564

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Arcadis	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1004 N Big Spring Street, Suite 121	Midland	TX	79701

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32.292690			N
LONGITUDE	-104.047266			W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1731	Ken Cooper	Harrison & Cooper, Inc. (DBA HCI Drilling)

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
08/17/2021	08/17/2021	40	40	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	30	6	PVC	FJ	2	Sch 40	
30	40	6	PVC	FJ	2	Sch 40	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	28	6	Open		
28	40	6	Sand	3 Bags	Poured

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	1	1	Topsoil	Y N	
1	4	3	Sand	Y N	
4	14	10	Caliche	Y N	
14	17	3	Sand	Y N	
17	25	8	Caliche	Y N	
25	36	9	Sand	Y N	
36	40	4	Clay	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

DLZ FOR KEN COOPER — Ken Cooper — 09/13/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.): POD 2	WELL TAG ID NO.	OSE FILE NO(S).: C-4564
WELL OWNER NAME(S): Arcadis		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS: 1004 N Big Spring Street, Suite 121		CITY: Midland STATE: TX ZIP: 79701

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32.292332			N
LONGITUDE	-104.047121			W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1731	Ken Cooper	Harrison & Cooper, Inc. (DBA HCI Drilling)

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
08/18/2021	08/18/2021	40	40	

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	30	6	PVC	FJ	2	Sch 40	
30	40	6	PVC	FJ	2	Sch 40	.010

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	28	6	Open		
28	40	6	Sand	3 Bags	Poured

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	1	1	Topsoil	Y N	
1	4	3	Sand	Y N	
4	14	10	Caliche	Y N	
14	17	3	Sand	Y N	
17	25	8	Caliche	Y N	
25	36	9	Sand	Y N	
36	40	4	Clay	Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

DEZ For Ken Cooper — Ken Cooper — 09/13/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4564 POD 1

Well owner: Arcadis Phone No.: _____

Mailing address: 1004 Big Spring Street, Suite 121

City: Midland State: TX Zip code: 79701

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Harrison & Cooper, Inc. (DBA HCI Drilling)

2) New Mexico Well Driller License No.: WD-1731 Expiration Date: _____

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Ken Cooper

4) Date well plugging began: 08/20/2021 Date well plugging concluded: 08/20/2021

5) GPS Well Location: Latitude: 32.292690 deg, _____ min, _____ sec
Longitude: -104.047266 deg, _____ min, _____ sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 40 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: _____ ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 07/22/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0-3	Clean fill (dirt)		Shoveled	
3-40	Bentonite cement slurry	100	Grouted	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Ken Cooper , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

For Ken Cooper — Signature of Well Driller

09/13/2021 — Date

Version: September 8, 2009
Page 2 of 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4564 POD 2

Well owner: Arcadis Phone No.: _____

Mailing address: 1004 Big Spring Street, Suite 121

City: Midland State: TX Zip code: 79701

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Harrison & Cooper, Inc. (DBA HCI Drilling)

2) New Mexico Well Driller License No.: WD-1731 Expiration Date: _____

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Ken Cooper

4) Date well plugging began: 08/20/2021 Date well plugging concluded: 08/20/2021

5) GPS Well Location: Latitude: 32.292332 deg, _____ min, _____ sec
Longitude: -104.047121 deg, _____ min, _____ sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 40 ft below ground level (bgl), by the following manner: weighted tape

7) Static water level measured at initiation of plugging: _____ ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 07/22/2021

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

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For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0-3	Clean fill (dirt)		Shoveled	
	3-40	Bentonite cement slurry	100	Grouted	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, Ken Cooper, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

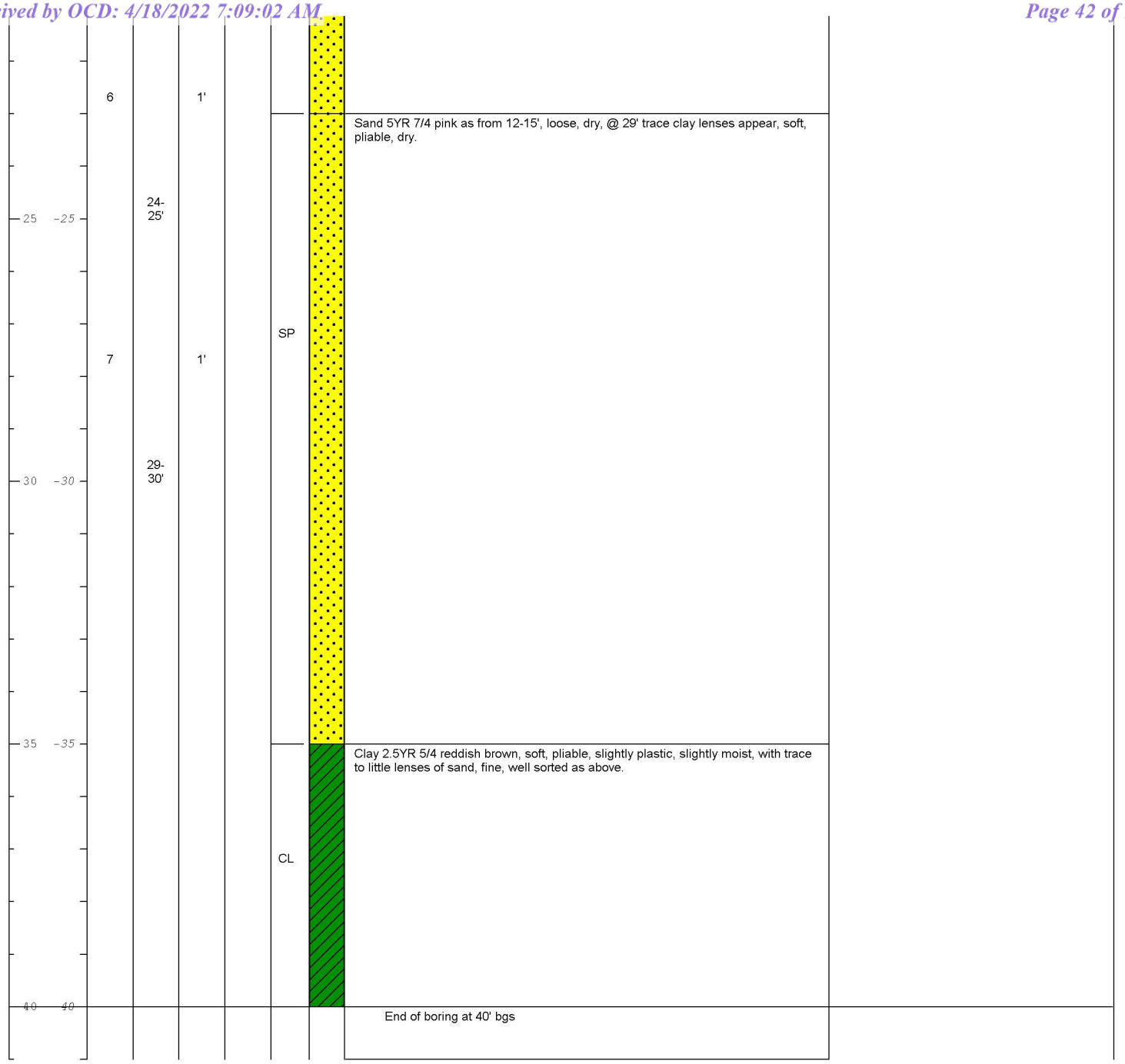
For Ken Cooper   09/13/2021

Signature of Well Driller   Date

Version: September 8, 2009

Date Start/Finish: 8/17/2021 **Drilling Company:** HCI **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 40' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** TMW-1 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SW		gravelly sand (pad fill) 5YR4/3 reddish brown very fine to fine sand, moderately sorted, loose, subrounded, with fine gravel, little to some, throughout. trace to little clay throughout.	
-5	2	4-5'	1'		GP		caliche conglomerate (cap rock) 5YR 8/2 pinkish white caliche matrix, sandy, well cemented, hard with little to some pebbles to cobbles, chert, siliceous, very hard, rounded, poorly sorted throughout.	
	3		1'					
-10		9-10'						
	4		1'		SP		sand 5YR 7/4 pink fine sand, well sorted, rounded, loose, dry.	
-15		14-15'					sandy caliche 5YR 8/2 pinkish white very fine to fine sand, well sorted, silty, well cemented in calcareous matrix, dry.	
	5		1'					
-20		19-20'						



ARCADIS Design & Consultancy for natural and built assets

Remarks:

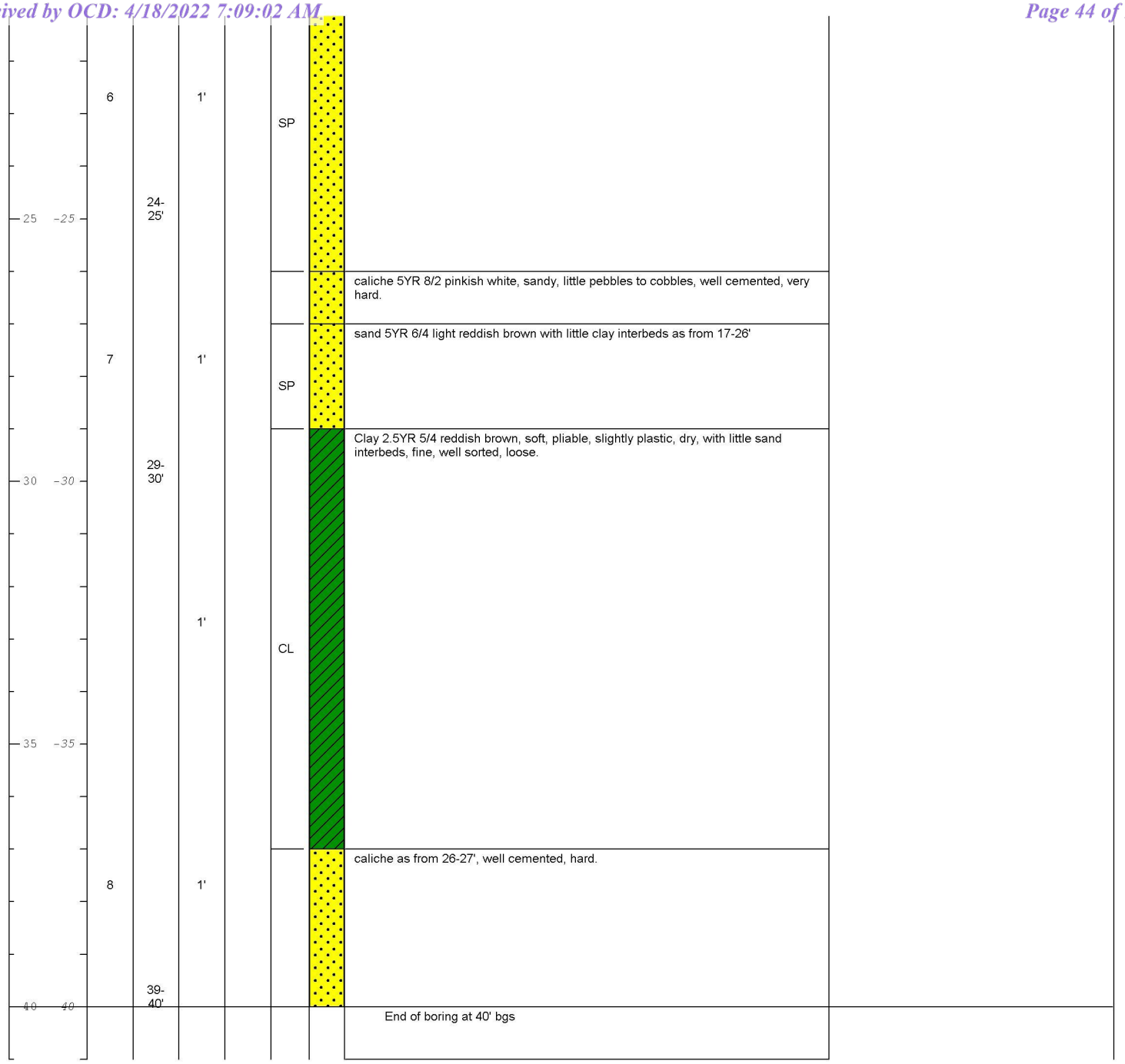
1. Below Ground Surface (bgs)
2. Below Top of Casing (btoc)
3. Northing and Easting State Plane Coordinates shown are Transverse Mercator and conform to the 'New Mexico Coordinate System", New Mexico Central Zone, North American Datum of 1983.
4. Elevations shown reference the North American Vertical Datum of 1983

Project: 30094129 Template: LPTEMPLATE3.ldfx

Data File: TMW-1 Date: 9/13/2021 Created/Edited by: AD

Date Start/Finish: 8/18/2021 **Drilling Company:** HCl **Driller's Name:** Ken Cooper **Drilling Method:** Air Rotary **Sampling Method:** discrete/grab **Rig Type:** Air Rotary	**Northing:** **Easting:** **Casing Elevation:** **Borehole Depth:** 40' **Surface Elevation:** **Descriptions By:** JS	**Well/Boring ID:** TMW-2 **Client:** Chevron **Location:** Candelario 24-1

DEPTH	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID	USCS Code	Geologic Column	Stratigraphic Description	Well/Boring Construction
0	1	0-0.5'	0.5'		SC		clayey sand 5YR 4/3 reddish brown fine sand, well sorted, subrounded, loose with some clay throughout, nonplastic, moist, little roots.	
5 -5	2	4-5'	1'		GP		caliche conglomerate 5YR 8/2 pinkish white conglomerate in caliche matrix, sandy, well cemented, hard to very hard, with siliceous clasts, pebbles to cobbles, rounded, poorly sorted throughout, alternating between clast and matrix supported, dry.	
	3		1'					
10 -10		9-10'						
	4		1'					
15 -15		14-15'						
	5		1'				sand 5YR 6/4 light reddish brown fine sand, well sorted, subrounded, loose, dry. @ 20' trace to little clay interbeds appearing	
20 -20		19-20'						



ARCADIS Design & Consultancy for natural and built assets

Remarks:

1. Below Ground Surface (bgs)
2. Below Top of Casing (btoc)
3. Northing and Easting State Plane Coordinates shown are Transverse Mercator and conform to the 'New Mexico Coordinate System", New Mexico Central Zone, North American Datum of 1983.
4. Elevations shown reference the North American Vertical Datum of 1983

Project: 30094129 Template: LPTEMPLATE3.ldfx

Data File: TMW-2 Date: 9/13/2021 Created/Edited by: AD

Appendix C

Cumulative Soil Analytical Results

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-1	0-0.5'	09/29/20	***9,500***
	4'-5'	09/29/20	***2,880***
	9'-10'	09/29/20	***2,950***
	14'-15'	09/29/20	388
	19'-20'	09/29/20	179 F1
SB-2	0-0.5'	09/29/20	***14,600***
	4'-5'	09/29/20	***874***
	9'-10'	09/29/20	***1,380 F1***
	14'-15'	09/29/20	450
	19'-20'	09/29/20	571
SB-3	0-0.5'	09/29/20	***16,500***
	4'-5'	09/29/20	***1,300***
	9'-10'	09/29/20	155
	14'-15'	09/29/20	***638***
	19'-20'	09/29/20	102
SB-4	0-0.5'	09/29/20	***2,050 B***
	4'-5'	09/29/20	***1,200 B***
	9'-10'	09/29/20	320 B
	14'-15'	09/29/20	169 B
	19'-20'	09/29/20	8.69 B
SB-5	0-0.5'	09/29/20	***5,920 B***
	4'-5'	09/29/20	143 B
	9'-10'	09/29/20	495 B
	14'-15'	09/29/20	87.8 B
	19'-20'	09/29/20	193 B
SB-6	0-0.5'	09/30/20	***8,580 F1 B***
	4'-5'	09/30/20	***3,270 B***
	9'-10'	09/30/20	***1,030 B***
	14'-15'	09/30/20	316 B
	19'-20'	09/30/20	86.1 B
SB-7	0-0.5'	09/30/20	519 B
	4'-5'	09/30/20	***2,910 B***
	9'-10'	09/30/20	405 B
	14'-15'	09/30/20	***814 B***
	19'-20'	09/30/20	105 B
SB-8	0-0.5'	09/29/20	***8,800***
	4'-5'	09/29/20	***1,110***
	9'-10'	09/29/20	107
	14'-15'	09/29/20	124
	19'-20'	09/29/20	124

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-9	0-0.5'	09/29/20	***7,210***
	4'-5'	09/29/20	228
	9'-10'	09/29/20	125
	14'-15'	09/29/20	***618***
	19'-20'	09/29/20	124 F1
SB-10	0-0.5'	09/29/20	***5,160***
	4'-5'	09/29/20	***1,480***
	9'-10'	09/29/20	***1,260***
	14'-15'	09/29/20	445
	19'-20'	09/29/20	243
SB-11	0-0.5'	09/30/20	***1,080 B***
	4'-5'	09/30/20	***715 B***
	9'-10'	09/30/20	371 B
	14'-15'	09/30/20	126
	19'-20'	09/30/20	244
SB-12	0-0.5'	09/30/20	***4,570 B***
	4'-5'	09/30/20	***943 B***
	9'-10'	09/30/20	***2,920 F1 B***
	14'-15'	09/30/20	***7,580 B***
	19'-20'	09/30/20	***1,260 B***
SB-13	0-0.5'	08/18/21	***974***
	4'-5'	08/18/21	69.3
	9'-10'	08/18/21	90.6
	14'-15'	08/18/21	385
	19'-20'	08/18/21	138
SB-14	0-0.5'	08/18/21	***11,000 V***
	4'-5'	08/18/21	***7,350***
	9'-10'	08/18/21	***1,160***
	14'-15'	08/18/21	283
	19'-20'	08/18/21	219
SB-15	0-0.5'	08/18/21	554
	4'-5'	08/18/21	287
	9'-10'	08/18/21	97.8
	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	65.4
SB-16	0-0.5'	08/18/21	172
	4'-5'	08/18/21	175
	9'-10'	08/18/21	21.4
	14'-15'	08/18/21	26.5
	19'-20'	08/18/21	31.0

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
SB-17	0-0.5'	08/18/21	172
	4'-5'	08/18/21	75.1
	9'-10'	08/18/21	193
	14'-15'	08/18/21	63.2
	19'-20'	08/18/21	138
SB-18	0-0.5'	08/19/21	83.1
	4'-5'	08/19/21	118
	9'-10'	08/19/21	37.1
	14'-15'	08/19/21	104
	19'-20'	08/19/21	89.1
SB-19	0-0.5'	08/19/21	329
	4'-5'	08/19/21	253
	9'-10'	08/19/21	78.9
	14'-15'	08/19/21	130
	19'-20'	08/19/21	293
SB-20	0-0.5'	08/19/21	***1,340***
	4'-5'	08/19/21	***724***
	9'-10'	08/19/21	580
	14'-15'	08/19/21	288
	19'-20'	08/19/21	555
SB-21	0-0.5'	08/19/21	***795***
	4'-5'	08/19/21	***4,050***
	9'-10'	08/19/21	***1,250***
	14'-15'	08/19/21	***3,530 J3 V***
	19'-20'	08/19/21	***1,420***
SB-22	0-0.5'	08/19/21	<9.89
	4'-5'	08/19/21	73.5
	9'-10'	08/19/21	***1,190***
	14'-15'	08/19/21	333
	19'-20'	08/19/21	137
SB-23	0-0.5'	08/19/21	68.9
	4'-5'	08/19/21	***1,540***
	9'-10'	08/19/21	404
	14'-15'	08/19/21	***680***
	19'-20'	08/19/21	491
TMW-1	0-0.5'	08/17/21	31.8
	4'-5'	08/17/21	***1,570***
	9'-10'	08/17/21	***721***
	14'-15'	08/17/21	***1,980***
	19'-20'	08/17/21	81.8
	24'-25'	08/17/21	231
	29'-30'	08/17/21	97.0

Table 1
Cumulative Soil Analytical Results
Chevron Environmental Management Company
Candelario 24-1 Battery
East Loving, New Mexico

Sample I.D. No.	Sample Depth (feet bgs)	Date	Chloride (mg/kg)
NMAC Standards			600
			mg/Kg
TMW-2	0-0.5'	08/18/21	<11.6
	4'-5'	08/18/21	82.6
	9'-10'	08/18/21	38.3
	14'-15'	08/18/21	44.4
	19'-20'	08/18/21	559
	24'-25'	08/18/21	202
	29'-30'	08/18/21	***1,030***

Legend:

BOLD = Analytes exceeding NMAC standard
F1: MS and/or MSD recovery exceeds control limits
B = The same analyte is found in the associated blank.
J = Result is less than the Reported Detection Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value
J3 = The associated batch QC was outside the established quality control range for precision.
V = The sample concentration is too high to evaluate accurate spike recoveries.
'<' indicates the analyte was not detected at or above the MDL
mg/kg: Milligram per Kilogram
NMAC : New Mexico Administration Code
" ' " : Indicates one foot
" : Indicated inches
bgs: below ground surface
SB : Soil Boring sample
TMW : Temporary Monitoring Well

Notes:
1. Chloride analyzed by United States Environmental Protection Agency Method 300.0
2. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Sample ID: SB-SB-13 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***974***	69.3	90.6	385	138

Sample ID:SB-14 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***11,000 V***	***7,350***	***1,160***	283	219

Sample ID: SB-15 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	554	287	97.8	26.5	65.4

Sample ID: SB-16 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	172	175	21.4	26.5	31.0

Sample ID: SB-17 8/18/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	172	75.1	193	63.2	138

Sample ID: SB-18 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	83.1	118	37.1	104	89.1

Sample ID: SB-19 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	329	253	78.9	130	293

Sample ID: SB-20 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***1,340***	***724***	580	288	555

Sample ID: SB-21 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	***795***	***4,050***	***1,250***	***3,530 J3 V***	***1,420***

Sample ID: SB-22 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	<9.89	73.5	***1,190***	333	137

Sample ID: SB-23 8/19/2021					
Analyte	Result				
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'
Chloride	68.9	***1,540***	404	***680***	491

Sample ID: TMW-1 8/18/2021							
Analyte	Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'	24'-25'	29'-30'
Chloride	31.8	***1,570***	***721***	***1,980***	81.8	231	97.0

Sample ID: TMW-2 8/18/2021							
Analyte	Result						
Depth	0-0.5'	4'-5'	9'-10'	14'-15'	19'-20'	24'-25'	29'-30'
Chloride	<11.6	82.6	38.3	44.4	559	202	***1,030***

Appendix D

Soil Laboratory Reports

ANALYTICAL REPORT

August 30, 2021

ARCADIS US - New Mexico

Sample Delivery Group:	L1392626
Samples Received:	08/19/2021
Project Number:	30094129
Description:	Candelario 24-1 Battery
Site:	CANDELARIO 24-1 SWD
Report To:	Sarah Johnson
	1004 N Big Spring Street
	Suite 121
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
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

TABLE OF CONTENTS

TMW-1-S-0-0.5-210817 L1392626-01 Solid

Collected by: Justin Steinmann | Collected date/time: 08/17/21 13:35 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1729166	1	08/27/21 09:12	08/27/21 09:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1728642	1	08/25/21 11:29	08/25/21 17:14	ELN	Mt. Juliet, TN

TMW-1-S-4-5-210817 L1392626-02 Solid

Collected by: Justin Steinmann | Collected date/time: 08/17/21 13:42 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1729166	1	08/27/21 09:12	08/27/21 09:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1728642	5	08/25/21 11:29	08/25/21 17:24	ELN	Mt. Juliet, TN

TMW-1-S-9-10-210817 L1392626-03 Solid

Collected by: Justin Steinmann | Collected date/time: 08/17/21 13:47 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1729166	1	08/27/21 09:12	08/27/21 09:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1728642	1	08/25/21 11:29	08/25/21 17:33	ELN	Mt. Juliet, TN

TMW-1-S-14-15-210817 L1392626-04 Solid

Collected by: Justin Steinmann | Collected date/time: 08/17/21 13:55 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1729166	1	08/27/21 09:12	08/27/21 09:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1728642	5	08/25/21 11:29	08/25/21 17:43	ELN	Mt. Juliet, TN

TMW-1-S-19-20-210817 L1392626-05 Solid

Collected by: Justin Steinmann | Collected date/time: 08/17/21 14:00 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1729166	1	08/27/21 09:12	08/27/21 09:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1728642	1	08/25/21 11:29	08/25/21 17:52	ELN	Mt. Juliet, TN

TMW-1-S-24-25-210817 L1392626-06 Solid

Collected by: Justin Steinmann | Collected date/time: 08/17/21 14:05 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1729166	1	08/27/21 09:12	08/27/21 09:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1728642	1	08/25/21 11:29	08/25/21 18:02	ELN	Mt. Juliet, TN

TMW-1-S-29-30-210817 L1392626-07 Solid

Collected by: Justin Steinmann | Collected date/time: 08/17/21 14:10 | Received date/time: 08/19/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1729166	1	08/27/21 09:12	08/27/21 09:29	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729538	1	08/25/21 19:40	08/25/21 22:18	ELN	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 McCord
Project Manager

TMW-1-S-0-0.5-210817
Collected date/time: 08/17/21 13:35

SAMPLE RESULTS - 01

L1392626

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	08/27/2021 09:29	WG1729166

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	31.8		11.1	24.2	1	08/25/2021 17:14	WG1728642

TMW-1-S-4-S-210817
Collected date/time: 08/17/21 13:42

SAMPLE RESULTS - 02
L1392626

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	08/27/2021 09:29	WG1729166

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1570		53.0	115	5	08/25/2021 17:24	WG1728642

TMW-1-S-9-10-210817
Collected date/time: 08/17/21 13:47

SAMPLE RESULTS - 03

L1392626

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	08/27/2021 09:29	WG1729166

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	721		10.5	22.9	1	08/25/2021 17:33	WG1728642

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	08/27/2021 09:29	WG1729166

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1980		50.8	110	5	08/25/2021 17:43	WG1728642

TMW-1-S-19-20-210817
Collected date/time: 08/17/21 14:00

SAMPLE RESULTS - 05

L1392626

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	08/27/2021 09:29	WG1729166

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	81.8		10.1	21.9	1	08/25/2021 17:52	WG1728642

TMW-1-S-24-25-21081

Collected date/time: 08/17/21 14:05

SAMPLE RESULTS - 06

L1392626

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.1		1	08/27/2021 09:29	WG1729166

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	231		11.5	25.0	1	08/25/2021 18:02	WG1728642

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	08/27/2021 09:29	WG1729166

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	97.0		11.2	24.4	1	08/25/2021 22:18	WG1729538

QUALITY CONTROL SUMMARY

L1392626-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3697558-1 08/27/21 09:29

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1392616-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1392616-22 08/27/21 09:29 • (DUP) R3697558-3 08/27/21 09:29

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.6	80.2	1	6.52		10

Laboratory Control Sample (LCS)

(LCS) R3697558-2 08/27/21 09:29

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3696597-1 08/25/21 12:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1392616-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1392616-10 08/25/21 13:54 • (DUP) R3696597-3 08/25/21 14:04

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	30.3	37.4	1	21.0	P1	20

L1392616-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1392616-20 08/25/21 15:58 • (DUP) R3696597-4 08/25/21 16:08

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	60.0	81.4	1	30.3	P1	20

Laboratory Control Sample (LCS)

(LCS) R3696597-2 08/25/21 13:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	197	98.6	90.0-110	

L1392616-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1392616-20 08/25/21 15:58 • (MS) R3696597-5 08/25/21 16:17 • (MSD) R3696597-6 08/25/21 16:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	643	60.0	730	683	104	96.9	1	80.0-120			6.68	20

Method Blank (MB)

(MB) R3696699-1 08/25/21 21:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1392633-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1392633-04 08/26/21 00:26 • (DUP) R3696699-3 08/26/21 00:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Chloride	10.4	11.4	1	9.46	J	20

L1393250-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1393250-01 08/26/21 01:51 • (DUP) R3696699-7 08/26/21 02:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Chloride	3710	3740	5	0.728		20

Laboratory Control Sample (LCS)

(LCS) R3696699-2 08/25/21 21:39

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Chloride	200	214	107	90.0-110	

L1393250-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393250-01 08/26/21 00:46 • (MS) R3696699-5 08/26/21 01:06 • (MSD) R3696699-6 08/26/21 01:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	3610	4230	4210	124	120	1	80.0-120	E V	E	0.538	20

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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 [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	LAO000356
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:
ARCADIS US - New Mexico
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: **Sarah Johnson**

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: **Candelario 24-1 Battery**

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: **432-687-5400**

Client Project # **30094129**

Lab Project # **CHEVARCNM-CANDEL24-1**

Collected by (print): **Justin Steinmann**

Site/Facility ID # **CANDELARIO 24-1 SWD**

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
TMW-1-S-0-.5-210817	G	SS	0-.5	8/17/21	1335	1		X			-01
TMW-1-S-4-5-210817		SS	4-5		1342	1		X			-02
TMW-1-S-9-10-210817		SS	9-10		1347	1		X			-03
TMW-1-S-14-15-210817		SS	14-15		1355	1		X			-04
TMW-1-S-19-20-210817		SS	19-20		1400	1		X			-05
TMW-1-S-24-25-210817		SS	24-25		1405	1		X			-06
TMW-1-S-29-30-210817		SS	29-30		1410	1		X			-07
		SS				1		X			
		SS				1		X			
		SS	9g	8/17/21		1		X			

Chain of Custody Page 1 of 1

Pace Analytical®

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/hubfs/pas-standard-terms.pdf

SDG # L1526626

Table # 1189

Acctnum: **CHEVARCNM**

Template: **T192047**

Prelogin: **P862625**

PM: **526 - Chris McCord**

PB: NS 8/13/21

Shipped Via: **FedEX Ground**

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	8/17/21	1810		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2-1=3.1 °C Bottles Received: 7
	8-18-21	1600		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/19/21 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

August 31, 2021

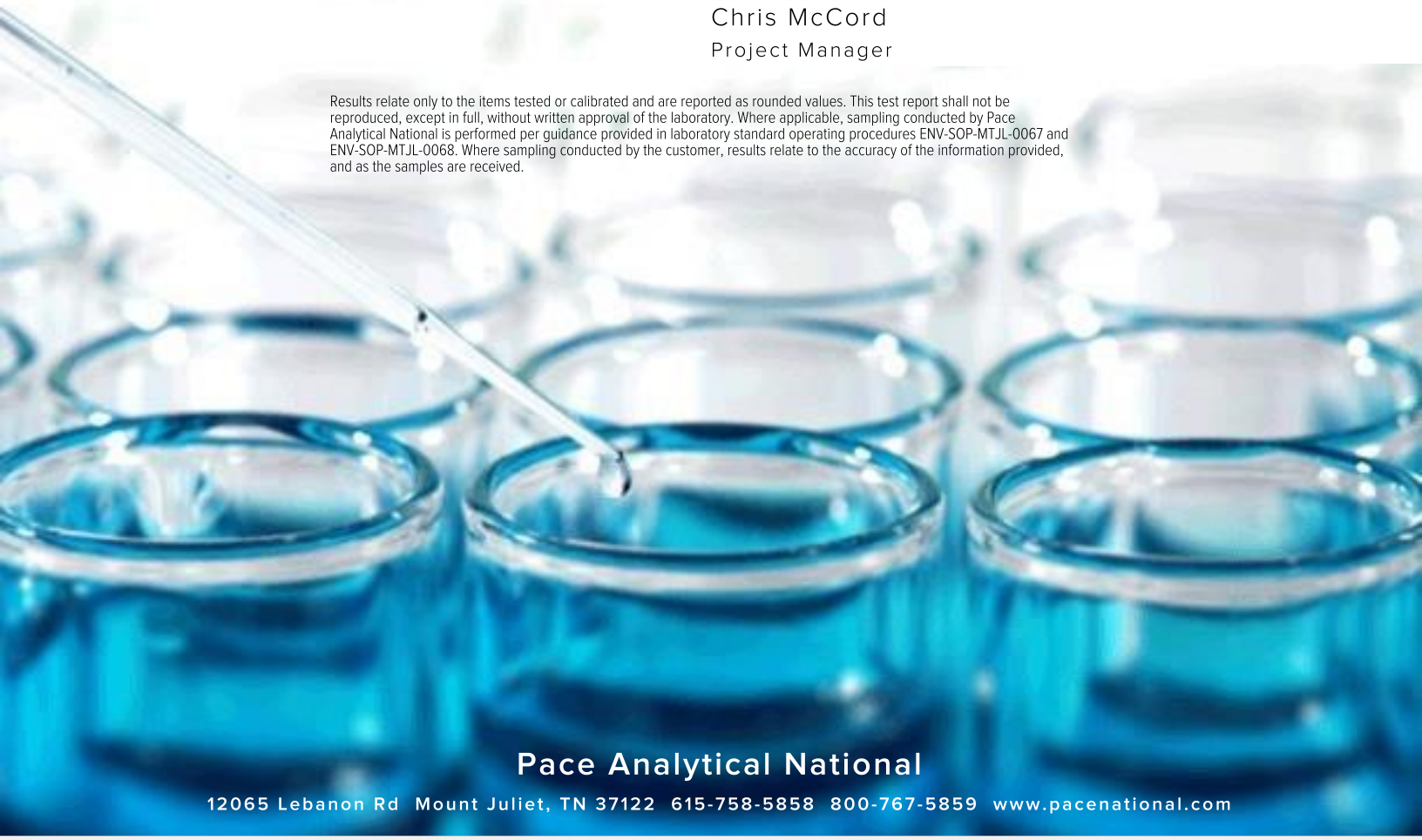
ARCADIS US - New Mexico

Sample Delivery Group:	L1393397
Samples Received:	08/20/2021
Project Number:	30094129
Description:	Candelario 24-1 Battery
Site:	CANDELARIO 24-1 SWD
Report To:	Sarah Johnson
	1004 N Big Spring Street
	Suite 121
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
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

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SB-15-S-14-15-210818 L1393397-01 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:28 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 01:29	MCG	Mt. Juliet, TN

SB-15-S-19-20-210818 L1393397-02 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:30 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:08	MCG	Mt. Juliet, TN

SB-16-S-0-.5-210818 L1393397-03 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:33 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:17	MCG	Mt. Juliet, TN

SB-16-S-4-5-210818 L1393397-04 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:35 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:27	MCG	Mt. Juliet, TN

SB-16-S-9-10-210818 L1393397-05 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:38 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:36	MCG	Mt. Juliet, TN

SB-16-S-14-15-210818 L1393397-06 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:42 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	.9124088	08/26/21 18:07	08/27/21 02:46	MCG	Mt. Juliet, TN

SB-16-S-19-20-210818 L1393397-07 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:45 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 02:55	MCG	Mt. Juliet, TN

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

SB-17-S-0-.5-210818 L1393397-08 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:48 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:05	MCG	Mt. Juliet, TN

SB-17-S-4-5-210818 L1393397-09 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:52 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730126	1	08/30/21 09:08	08/30/21 09:16	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:14	MCG	Mt. Juliet, TN

SB-17-S-9-10-210818 L1393397-10 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:54 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:24	MCG	Mt. Juliet, TN

SB-13-S-14-15-210818 L1393397-11 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:50 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 03:52	MCG	Mt. Juliet, TN

SB-13-S-19-20-210818 L1393397-12 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:58 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	1	08/26/21 18:07	08/27/21 04:02	MCG	Mt. Juliet, TN

SB-14-S-0-.5-210818 L1393397-13 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:00 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729564	10	08/26/21 18:07	08/27/21 04:11	MCG	Mt. Juliet, TN

SB-14-S-4-5-210818 L1393397-14 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:03 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	10	08/26/21 18:10	08/26/21 21:48	MCG	Mt. Juliet, TN

SB-14-S-9-10-210818 L1393397-15 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:05 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	4.62963	08/26/21 18:10	08/26/21 21:57	MCG	Mt. Juliet, TN

SB-14-S-14-15-210818 L1393397-16 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:08 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 22:06	MCG	Mt. Juliet, TN

SB-14-S-19-20-210818 L1393397-17 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:12 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 22:15	MCG	Mt. Juliet, TN

SB-15-S-0-.5-210818 L1393397-18 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:22 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 22:51	MCG	Mt. Juliet, TN

SB-15-S-4-5-210818 L1393397-19 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:23 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730128	1	08/30/21 08:11	08/30/21 08:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 23:18	MCG	Mt. Juliet, TN

SB-15-S-9-10-210818 L1393397-20 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:25 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 23:26	MCG	Mt. Juliet, TN

TMW-2-S-0-.5-210818 L1393397-21 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 08:51 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 23:35	MCG	Mt. Juliet, TN

TMW-2-S-4-5-210818 L1393397-22 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 08:55 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	.9090909	08/26/21 18:10	08/26/21 23:44	MCG	Mt. Juliet, TN

TMW-2-S-9-10-210818 L1393397-23 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 08:59 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/26/21 23:53	MCG	Mt. Juliet, TN

TMW-2-S-14-15-210818 L1393397-24 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:03 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/27/21 00:02	MCG	Mt. Juliet, TN

TMW-2-S-19-20-210818 L1393397-25 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:05 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	.9157509	08/26/21 18:10	08/27/21 00:11	MCG	Mt. Juliet, TN

TMW-2-S-24-25-210818 L1393397-26 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:06 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	.907441	08/26/21 18:10	08/27/21 00:20	MCG	Mt. Juliet, TN

TMW-2-S-29-30-210818 L1393397-27 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:10 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/27/21 00:29	MCG	Mt. Juliet, TN

SB-13-S-0-.5-210818 L1393397-28 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:45 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/27/21 01:05	MCG	Mt. Juliet, TN

SB-13-S-4-5-210818 L1393397-29 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:46 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730130	1	08/30/21 07:59	08/30/21 08:09	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	.9242144	08/26/21 18:10	08/27/21 01:14	MCG	Mt. Juliet, TN

SB-13-S-9-10-210818 L1393397-30 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 09:48 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	.9242144	08/26/21 18:10	08/27/21 01:23	MCG	Mt. Juliet, TN

SB-17-S-14-15-210818 L1393397-31 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:56 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	.9124088	08/26/21 18:10	08/27/21 01:32	MCG	Mt. Juliet, TN

SB-17-S-19-20-210818 L1393397-32 Solid

Collected by: Justin Steinmann | Collected date/time: 08/18/21 10:59 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	.9328358	08/26/21 18:10	08/27/21 01:41	MCG	Mt. Juliet, TN

SB-18-S-0-.5-210819 L1393397-33 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 08:45 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729565	1	08/26/21 18:10	08/27/21 01:50	MCG	Mt. Juliet, TN

SB-18-S-4-5-210819 L1393397-34 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 08:47 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 19:16	MCG	Mt. Juliet, TN

SB-18-S-9-10-210819 L1393397-35 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 08:49 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 19:25	MCG	Mt. Juliet, TN

SB-18-S-14-15-210819 L1393397-36 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 08:52 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 19:35	MCG	Mt. Juliet, TN

SB-18-S-19-20-210819 L1393397-37 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 08:55 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 19:44	MCG	Mt. Juliet, TN

SB-19-S-0-.5-210819 L1393397-38 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:00 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 19:54	MCG	Mt. Juliet, TN

SB-19-S-4-5-210819 L1393397-39 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:03 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730131	1	08/30/21 07:44	08/30/21 07:56	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 20:03	MCG	Mt. Juliet, TN

SB-19-S-9-10-210819 L1393397-40 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:05 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 20:13	MCG	Mt. Juliet, TN

SB-19-S-14-15-210819 L1393397-41 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:08 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 20:22	MCG	Mt. Juliet, TN

SB-19-S-19-20-210819 L1393397-42 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:10 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 20:51	MCG	Mt. Juliet, TN

SB-20-S-0-.5-210819 L1393397-43 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:12 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	5	08/26/21 17:03	08/26/21 21:01	MCG	Mt. Juliet, TN

SB-20-S-4-5-210819 L1393397-44 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:15 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:20	MCG	Mt. Juliet, TN

SB-20-S-9-10-210819 L1393397-45 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:18 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:29	MCG	Mt. Juliet, TN

SB-20-S-14-15-210819 L1393397-46 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:20 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:41	MCG	Mt. Juliet, TN

SB-20-S-19-20-210819 L1393397-47 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:24 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 21:50	MCG	Mt. Juliet, TN

SB-21-S-0-.5-210819 L1393397-48 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:28 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 22:00	MCG	Mt. Juliet, TN

SB-21-S-4-5-210819 L1393397-49 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:30 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730132	1	08/30/21 07:37	08/30/21 07:43	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	10	08/26/21 17:03	08/26/21 22:09	MCG	Mt. Juliet, TN

SB-21-S-9-10-210819 L1393397-50 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:33 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	5	08/26/21 17:03	08/26/21 22:19	MCG	Mt. Juliet, TN

SB-21-S-14-15-210819 L1393397-51 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:35 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	10	08/26/21 17:03	08/26/21 22:48	MCG	Mt. Juliet, TN

SB-21-S-19-20-210819 L1393397-52 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:40 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	5	08/26/21 17:03	08/26/21 23:26	MCG	Mt. Juliet, TN

SB-22-S-0-.5-210819 L1393397-53 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:42 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729567	1	08/26/21 17:03	08/26/21 23:35	MCG	Mt. Juliet, TN

SB-22-S-4-5-210819 L1393397-54 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:45 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:00	MCG	Mt. Juliet, TN

SB-22-S-9-10-210819 L1393397-55 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:47 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	5	08/26/21 23:50	08/27/21 05:09	MCG	Mt. Juliet, TN

SB-22-S-14-15-210819 L1393397-56 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:49 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:18	MCG	Mt. Juliet, TN

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

SB-22-S-19-20-210819 L1393397-57 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:52 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:27	MCG	Mt. Juliet, TN

SB-23-S-0-.5-210819 L1393397-58 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:54 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 05:36	MCG	Mt. Juliet, TN

SB-23-S-4-5-210819 L1393397-59 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:56 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730133	1	08/30/21 07:24	08/30/21 07:33	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	5	08/26/21 23:50	08/27/21 06:20	MCG	Mt. Juliet, TN

SB-23-S-9-10-210819 L1393397-60 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 09:59 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730134	1	08/30/21 09:11	08/30/21 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 06:29	MCG	Mt. Juliet, TN

SB-23-S-14-15-210819 L1393397-61 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 10:02 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730134	1	08/30/21 09:11	08/30/21 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 06:38	MCG	Mt. Juliet, TN

SB-23-S-19-20-210819 L1393397-62 Solid

Collected by: Justin Steinmann | Collected date/time: 08/19/21 10:06 | Received date/time: 08/20/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1730134	1	08/30/21 09:11	08/30/21 09:19	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1729568	1	08/26/21 23:50	08/27/21 06:56	MCG	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 McCord
Project Manager

SB-13-3-14-15-210818
Collected date/time: 08/18/21 10:28

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	26.5		10.2	22.2	1	08/27/2021 01:29	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	65.4		9.79	21.3	1	08/27/2021 02:08	WG1729564

SB-10-3-0.5-210818
Collected date/time: 08/18/21 10:33
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	172		11.9	26.0	1	08/27/2021 02:17	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.7		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	175		10.9	23.6	1	08/27/2021 02:27	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	21.4	J	10.3	22.3	1	08/27/2021 02:36	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.0		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	26.5		9.54	20.7	.9124088	08/27/2021 02:46	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	31.0		9.72	21.1	1	08/27/2021 02:55	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.6		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	172		11.4	24.8	1	08/27/2021 03:05	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.1		1	08/30/2021 09:16	WG1730126

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	75.1		9.67	21.0	1	08/27/2021 03:14	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	193		9.78	21.3	1	08/27/2021 03:24	WG1729564

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Collected date/time: 08/18/21 09:50

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	385		9.60	20.9	1	08/27/2021 03:52	WG1729564

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	138		10.7	23.3	1	08/27/2021 04:02	WG1729564

SB-14-3-0.5-210818
Collected date/time: 08/18/21 10:00
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.6		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	11000	V	114	248	10	08/27/2021 04:11	WG1729564

SB-14-3-4-5-210818
Collected date/time: 08/18/21 10:03
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.7		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	7350		98.2	213	10	08/26/2021 21:48	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1160		43.7	95.0	4.62963	08/26/2021 21:57	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	283		9.46	20.6	1	08/26/2021 22:06	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	219	J6	9.51	20.7	1	08/26/2021 22:15	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	554		11.4	24.7	1	08/26/2021 22:51	WG1729565

SB-15-3-4-3-210818
Collected date/time: 08/18/21 10:23

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	08/30/2021 08:20	WG1730128

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	287		9.91	21.5	1	08/26/2021 23:18	WG1729565

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	97.8		10.4	22.7	1	08/26/2021 23:26	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.4		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.6	25.2	1	08/26/2021 23:35	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	82.6		8.53	18.6	.9090909	08/26/2021 23:44	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	38.3		10.2	22.3	1	08/26/2021 23:53	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.0		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	44.4		10.1	22.0	1	08/27/2021 00:02	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.9		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	559		11.9	25.8	.9157509	08/27/2021 00:11	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	202		8.59	18.7	.907441	08/27/2021 00:20	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.7		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1030		13.8	30.0	1	08/27/2021 00:29	WG1729565

SB-13-3-0.5-210818
Collected date/time: 08/18/21 09:45
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	974		10.5	22.8	1	08/27/2021 01:05	WG1729565

SB-13-3-4-5-210818
Collected date/time: 08/18/21 09:46
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	08/30/2021 08:09	WG1730130

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	69.3		9.81	21.3	.9242144	08/27/2021 01:14	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	90.6		9.68	21.1	.9242144	08/27/2021 01:23	WG1729565

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	63.2		9.42	20.5	.9124088	08/27/2021 01:32	WG1729565

SB-17-S-19-20-210818
Collected date/time: 08/18/21 10:59

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	138		8.87	19.3	.9328358	08/27/2021 01:41	WG1729565

SB-18-3-0.5-210819
Collected date/time: 08/19/21 08:45
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	83.1		10.6	23.1	1	08/27/2021 01:50	WG1729565

SB-18-3-4-3-210819
Collected date/time: 08/19/21 08:47
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	118		10.8	23.5	1	08/26/2021 19:16	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	37.1		9.94	21.6	1	08/26/2021 19:25	WG1729567

SB-18-3-14-15-210819
Collected date/time: 08/19/21 08:52
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	104		9.79	21.3	1	08/26/2021 19:35	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	89.1		9.35	20.3	1	08/26/2021 19:44	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	329		10.5	22.8	1	08/26/2021 19:54	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	08/30/2021 07:56	WG1730131

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	253		9.54	20.7	1	08/26/2021 20:03	WG1729567

SB-19-3-3-10-210819
Collected date/time: 08/19/21 09:05
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	78.9		9.49	20.6	1	08/26/2021 20:13	WG1729567

SB-19-3-14-15-210819
Collected date/time: 08/19/21 09:08

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	130		9.51	20.7	1	08/26/2021 20:22	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	293		9.50	20.6	1	08/26/2021 20:51	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.4		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1340		53.3	116	5	08/26/2021 21:01	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	724		9.59	20.9	1	08/26/2021 21:20	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	580		10.1	21.9	1	08/26/2021 21:29	WG1729567

SB-20-S-14-19-210819
Collected date/time: 08/19/21 09:20
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	288		9.46	20.6	1	08/26/2021 21:41	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	555		9.56	20.8	1	08/26/2021 21:50	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	795		10.4	22.7	1	08/26/2021 22:00	WG1729567

SB-21-3-4-3-210819
Collected date/time: 08/19/21 09:30
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.9		1	08/30/2021 07:43	WG1730132

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	4050		102	222	10	08/26/2021 22:09	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1250		52.0	113	5	08/26/2021 22:19	WG1729567

SB-21-3-14-15-210819
Collected date/time: 08/19/21 09:35
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.7		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3530	J3 V	101	220	10	08/26/2021 22:48	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1420		47.7	104	5	08/26/2021 23:26	WG1729567

SB-22-3-0.5-210819
Collected date/time: 08/19/21 09:42
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.1		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.89	21.5	1	08/26/2021 23:35	WG1729567

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	73.5		10.9	23.6	1	08/27/2021 05:00	WG1729568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.2		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1190		49.3	107	5	08/27/2021 05:09	WG1729568

SB-22-3-14-15-210819
Collected date/time: 08/19/21 09:49
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	333		10.3	22.3	1	08/27/2021 05:18	WG1729568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	137		10.5	22.8	1	08/27/2021 05:27	WG1729568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	68.9		9.96	21.6	1	08/27/2021 05:36	WG1729568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	08/30/2021 07:33	WG1730133

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1540		49.8	108	5	08/27/2021 06:20	WG1729568

SB-23-3-9-10-210819
Collected date/time: 08/19/21 09:59
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.7		1	08/30/2021 09:19	WG1730134

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	404		9.32	20.3	1	08/27/2021 06:29	WG1729568

SB-23-3-14-15-210819
Collected date/time: 08/19/21 10:02

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	08/30/2021 09:19	WG1730134

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	680		9.54	20.7	1	08/27/2021 06:38	WG1729568

SB-23-3-19-20-210819
Collected date/time: 08/19/21 10:06
L1393397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.0		1	08/30/2021 09:19	WG1730134

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	491		9.39	20.4	1	08/27/2021 06:56	WG1729568

Method Blank (MB)

(MB) R3698207-1 08/30/21 09:16

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1393397-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-03 08/30/21 09:16 • (DUP) R3698207-3 08/30/21 09:16

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	77.0	77.4	1	0.540		10

Laboratory Control Sample (LCS)

(LCS) R3698207-2 08/30/21 09:16

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3698192-1 08/30/21 08:20

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1393397-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-14 08/30/21 08:20 • (DUP) R3698192-3 08/30/21 08:20

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.7	93.4	1	0.328		10

Laboratory Control Sample (LCS)

(LCS) R3698192-2 08/30/21 08:20

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3698185-1 08/30/21 08:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1393397-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-24 08/30/21 08:09 • (DUP) R3698185-3 08/30/21 08:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	91.0	89.5	1	1.61		10

Laboratory Control Sample (LCS)

(LCS) R3698185-2 08/30/21 08:09

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	49.9	99.8	85.0-115	

Method Blank (MB)

(MB) R3698180-1 08/30/21 07:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1393397-34 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-34 08/30/21 07:56 • (DUP) R3698180-3 08/30/21 07:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.1	84.3	1	0.872		10

Laboratory Control Sample (LCS)

(LCS) R3698180-2 08/30/21 07:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L1393397-40,41,42,43,44,45,46,47,48,49

Method Blank (MB)

(MB) R3698178-1 08/30/21 07:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1393397-45 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-45 08/30/21 07:43 • (DUP) R3698178-3 08/30/21 07:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.5	92.1	1	0.661		10

Laboratory Control Sample (LCS)

(LCS) R3698178-2 08/30/21 07:43

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3698176-1 08/30/21 07:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

L1393397-59 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-59 08/30/21 07:33 • (DUP) R3698176-3 08/30/21 07:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	92.4	92.9	1	0.546		10

Laboratory Control Sample (LCS)

(LCS) R3698176-2 08/30/21 07:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

QUALITY CONTROL SUMMARY

L1393397-60,61,62

Method Blank (MB)

(MB) R3698343-1 08/30/21 09:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1393398-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1393398-05 08/30/21 09:19 • (DUP) R3698343-3 08/30/21 09:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.1	92.9	1	2.00		10

Laboratory Control Sample (LCS)

(LCS) R3698343-2 08/30/21 09:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3697250-1 08/27/21 00:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1393397-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-01 08/27/21 01:29 • (DUP) R3697250-3 08/27/21 01:58

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	26.5	31.1	1	15.9		20

L1393397-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-13 08/27/21 04:11 • (DUP) R3697250-4 08/27/21 04:21

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	11000	11200	10	1.02		20

Laboratory Control Sample (LCS)

(LCS) R3697250-2 08/27/21 00:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	196	98.2	90.0-110	

L1393397-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393397-13 08/27/21 04:11 • (MS) R3697250-5 08/27/21 04:30 • (MSD) R3697250-6 08/27/21 04:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	620	11000	11700	13900	97.2	452	10	80.0-120		E V	17.3	20

Method Blank (MB)

(MB) R3697314-1 08/26/21 21:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1393397-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-17 08/26/21 22:15 • (DUP) R3697314-3 08/26/21 22:24

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	219	227	1	3.72		20

L1393397-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-27 08/27/21 00:29 • (DUP) R3697314-6 08/27/21 00:38

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1030	1180	1	13.9		20

Laboratory Control Sample (LCS)

(LCS) R3697314-2 08/26/21 21:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	198	98.8	90.0-110	

L1393397-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393397-17 08/26/21 22:15 • (MS) R3697314-4 08/26/21 22:33 • (MSD) R3697314-5 08/26/21 22:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	517	219	591	650	72.0	83.5	1	80.0-120	J6		9.54	20

Method Blank (MB)

(MB) R3697249-1 08/26/21 18:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1393397-43 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-43 08/26/21 21:01 • (DUP) R3697249-3 08/26/21 21:10

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1340	1370	5	2.16		20

L1393397-51 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-51 08/26/21 22:48 • (DUP) R3697249-4 08/26/21 22:57

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3530	4180	10	16.9		20

Laboratory Control Sample (LCS)

(LCS) R3697249-2 08/26/21 19:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	204	102	90.0-110	

L1393397-51 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393397-51 08/26/21 22:48 • (MS) R3697249-5 08/26/21 23:07 • (MSD) R3697249-6 08/26/21 23:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	551	3530	5040	6420	274	525	10	80.0-120	V	J3 V	24.2	20

Method Blank (MB)

(MB) R3697315-1 08/27/21 02:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1392479-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1392479-01 08/27/21 03:04 • (DUP) R3697315-3 08/27/21 03:13

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10.2	U	1	200	P1	20

L1393397-61 Original Sample (OS) • Duplicate (DUP)

(OS) L1393397-61 08/27/21 06:38 • (DUP) R3697315-6 08/27/21 06:47

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	680	635	1	6.83		20

Laboratory Control Sample (LCS)

(LCS) R3697315-2 08/27/21 02:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	205	103	90.0-110	

L1393397-58 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393397-58 08/27/21 05:36 • (MS) R3697315-4 08/27/21 05:45 • (MSD) R3697315-5 08/27/21 05:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	541	68.9	621	621	102	102	1	80.0-120			0.0406	20

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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 [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	LAO000356
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:
ARCADIS US - New Mexico

1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: **Sarah Johnson**

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: **Candelario 24-1 Battery**

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: **432-687-5400**

Client Project # **30094129**

Lab Project # **CHEVARCNM-CANDEL24-1**

Collected by (print): Justin Stenmann

Site/Facility ID # **CANDELARIO 24-1 SWD**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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 Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
SB-15-S-14-15-210818	G	SS	14-15	8/18/21	1028	1		X			-01
SB-15-S-19-20-210818		SS	19-20		1030	1		X			-02
SB-16-S-0-.5-210818		SS	0-.5		1033	1		X			-03
SB-16-S-4-5-210818		SS	4-5		1035	1		X			-04
SB-16-S-9-10-210818		SS	9-10		1038	1		X			-05
SB-16-S-14-15-210818		SS	14-15		1042	1		X			-06
SB-16-S-19-20-210818		SS	19-20		1045	1		X			-07
SB-17-S-0-.5-210818		SS	0-.5		1048	1		X			-08
SB-17-S-4-5-210818		SS	4-5		1052	1		X			-09
SB-17-S-9-10-210818		SS	9-10		1054	1		X			-10

Chain of Custody Page 1 of 1

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SDG # 193397
C240

Acctnum: **CHEVARCNM**
Template: **T192047**
Prelogin: **P862625**
PM: **526 - Chris McCord**
PB: NS 8/3/21

Shipped Via: **FedEX Ground**

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	8/19/21	1600			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 3,1+0=3,1 62	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/20/21 Time: 800	Hold: Condition: NCF / OK

Company Name/Address:
ARCADIS US - New Mexico
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: **Sarah Johnson**

Email To: **sarah.johnson@arcadis.com;william.foord@arc**

Project Description: **Candelario 24-1 Battery**

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: **432-687-5400**

Client Project # **30094129**

Lab Project # **CHEVARCNM-CANDEL24-1**

Collected by (print): **J. Steinmann**

Site/Facility ID # **CANDELARIO 24-1 SWD**

P.O. #

Collected by (signature):
Immediately
Packed on Ice N ___ Y ✓

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

Analysis / Container / Preservative

Chain of Custody Page 2 of 7

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SDG # 139397

Table #

Acctnum: **CHEVARCNM**

Template: **T192047**

Prelogin: **P862625**

PM: **526 - Chris McCord**

PB: NS 8/3/21

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
SB-13-S-14-15-210818	G	SS	14-15	~~0950~~ 8/18/21	0950	1		X			-11
SB-13-S-19-20-210818		SS	19-20	~~0955~~ 8/18/21	0958	1		X			-12
SB-14-S-0-.5-210818		SS	0-.5	8/18/21	1000	1		X			-13
SB-14-S-4-5-210818		SS	4-5		1003	1		X			-14
SB-14-S-9-10-210818		SS	9-10		1005	1		X			-15
SB-14-S-14-15-210818		SS	14-15		1008	1		X			-16
SB-14-S-19-20-210818		SS	19-20		1012	1		X			-17
SB-15-S-0-.5-210818		SS	0-.5		1022	1		X			-18
SB-15-S-4-5-210818		SS	4-5		1023	1		X			-19
SB-15-S-9-10-210818		SS	9-10		1025	1		X			-20

8/20

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	8/19/21	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				3,1+0=3,1 62
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			Jasmine Fuque	8/20/21 800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Company Name/Address:
ARCADIS US - New Mexico
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: **Sarah Johnson**

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: **Candelario 24-1 Battery**

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: **432-687-5400**

Client Project # **30094129**

Lab Project # **CHEVARCNM-CANDEL24-1**

Collected by (print): J. Steinmann

Site/Facility ID # **CANDELARIO 24-1 SWD**

P.O. #

Collected by (signature):

Immediately
Packed on Ice N ___ Y ✓

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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
TMW-2-S-0-.5-210818	G	SS	0-.5	8/18/21	0851	1		X			-21
TMW-2-S-4-5-210818	G	SS	4-5		0855	1		X			-22
TMW-2-S-9-10-210818	G	SS	9-10		0859	1		X			-23
TMW-2-S-14-15-210818	G	SS	14-15		0903	1		X			-24
TMW-2-S-19-20-210818	G	SS	19-20		0905	1		X			-25
TMW-2-S-24-25-210818	G	SS	24-25		0906	1		X			-26
TMW-2-S-29-30-210818	G	SS	29-30		0910	1		X			-27
SB-13-S-0-.5-210818	G	SS	0-.5		0945	1		X			-28
SB-13-S-4-5-210818	G	SS	4-5		0946	1		X			-29
SB-13-S-9-10-210818	G	~~SS~~ GW	9-10		0948	2	X	X	X		-30

Chain of Custody Page 3 of 3

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SDG # 139397

Table #

Acctnum: **CHEVARCNM**

Template: **T192047**

Prelogin: **P862625**

PM: **526 - Chris McCord**

PB: NS 8/31/21

Shipped Via: **FedEX Ground**

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

Remarks: GS 8/19/21 pH _____ Temp _____ Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	8/19/21	1600		HCL
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				3.1/3.1 62
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			Jasmine Angel	8/20/21 800

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Company Name/Address:
ARCADIS US - New Mexico
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: **Sarah Johnson**

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: **Candelario 24-1 Battery**

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: **432-687-5400**

Client Project # **30094129**

Lab Project # **CHEVARCNM-CANDEL24-1**

Collected by (print): J. Steinmann

Site/Facility ID # **CANDELARIO 24-1 SWD**

P.O. #

Collected by (signature):

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

Immediately
Packed on Ice N ___ Y ✓

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
SB-17-S-14-15-210821	G	SS	14-15	8/18/21	1056	1		X			-31
SB-17-S-19-20-210821	G	SS	19-20	8/18/21	1059	1		X			-32
SB-18-S-0-.5-210821	G	SS	0-.5	8/19/21	0845	1		X			-33
SB-18-S-4-5-210821	G	SS	4-5		0847	1		X			-34
SB-18-S-9-10-210821	G	SS	9-10		0849	1		X			-35
SB-18-S-14-15-210821	G	SS	14-15		0852	1		X			-36
SB-18-S-19-20-210821	G	SS	19-20		0855	1		X			-37
SB-19-S-0-.5-210821	G	SS	0-.5		0900	1		X			-38
SB-19-S-4-5-210821	G	SS	4-5		0903	1		X			-39
SB-19-S-9-10-210821	G	SS	9-10		0905	1		X			-40

Chain of Custody Page 4 of 7

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SDG # 1393597

Table #

Acctnum: **CHEVARCNM**
Template: **T192047**
Prelogin: **P862625**
PM: **526 - Chris McCord**
PB: NS 8/3/21
Shipped Via: **FedEX Ground**

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	8/19/21	1600		N/A	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 62	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/20/21 Time: 830	Hold: / Condition: NCF / OK

Chain of Custody Page 5 of 7

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Company Name/Address: **ARCADIS US - New Mexico**
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: 432-687-5400

Client Project #: 30094129

Lab Project #: CHEVARCNM-CANDEL24-1

Collected by (print): J. Steinmann

Site/Facility ID #: CANDELARIO 24-1 SWD

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y ✓

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

SDG # 1393397

Table #

Acctnum: CHEVARCNM
Template: T192047
Prelogin: P862625
PM: 526 - Chris McCord
PB: NS 8/3/21
Shipped Via: FedEX Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
SB-19-S-14-15-210819	G	SS	14-15	8/19/21	0908	1		X			-41
SB-19-S-19-20-210819		SS	19-20		0910	1		X			-42
SB-20-S-0-.5-210819		SS	0-.5		0912	1		X			-43
SB-20-S-4-5-210819		SS	4-5		0915	1		X			-44
SB-20-S-9-10-210819		SS	9-10		0918	1		X			-45
SB-20-S-14-15-210819		SS	14-15		0920	1		X			-46
SB-20-S-19-20-210819		SS	19-20		0924	1		X			-47
SB-~~24~~-S-0-.5-210819		SS	0-.5		0928	1		X			-48
SB-21-S-4-5-210819		SS	4-5		0930	1		X			-49
SB-21-S-9-10-210819		SS	9-10		0933	1		X			-50

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
[signature]	8/19/21	1600	[signature]		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.9 °C 3.1 H0=3.1	Bottles Received: 62
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 8/20/21	Time: 800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Page 6 of 7

Chain of Custody

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SDG # 193397

Table #

Acctnum: CHEVARCNM

Template: T192047

Prelogin: P862625

PM: 526 - Chris McCord

PB: NS 8/3/21

Shipped Via: FedEX Ground

Company Name/Address:
ARCADIS US - New Mexico
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): J. Steinmann

Site/Facility ID # CANDELARIO 24-1 SWD

P.O. #

Collected by (signature): Immediately Packed on Ice N ___ Y ✓

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

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
SB-21-S-14-15-210819	G	SS	14-15	8/19/21	0935	1		X			-51
SB-21-S-19-20-210819		SS	19-20		0940	1		X			-52
SB-22-S-0-.5-210819		SS	0-.5		0942	1		X			-53
SB-22-S-4-5-210819		SS	4-5		0945	1		X			-54
SB-22-S-9-10-210819		SS	9-10		0947	1		X			-55
SB-22-S-14-15-210819		SS	14-15		0949	1		X			-56
SB-22-S-19-20-210819		SS	19-20		0952	1		X			-57
SB-23-S-0-.5-210819		SS	0-.5		0954	1		X			-58
SB-23-S-4-5-210819		SS	4-5		0956	1		X			-59
SB-23-S-9-10-210819	↓	SS	9-10	↓	0959	1		X			-60

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	8/19/21	1600			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1/0=3.1 Bottles Received: 62	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Yasmine Fuqua	Date: 8/20/21 Time: 800	Hold: / Condition: NCF / OK

Page 7 of 7

Company Name/Address:
ARCADIS US - New Mexico
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: **Sarah Johnson**

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: **Candelario 24-1 Battery**

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: **432-687-5400**

Client Project # **30094129**

Lab Project # **CHEVARCNM-CANDEL24-1**

Collected by (print): J. Steinmann

Site/Facility ID # **CANDELARIO 24-1 SWD**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
SB-23-S-14-15-210819	G	SS	14-15	8/19/19	1002	1		X			61
SB-23-S-19-20-210819	G	SS	19-20	8/19/19	1006	1		X			62
SB		SS				1		X			
		SS				1		X			
		SS				1		X			
		SS				1		X			
		SS				1		X			
		SS				1		X			
		SS				1		X			
		SS				1		X			
		SS				1		X			

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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SDG # 139357

Table #

Acctnum: **CHEVARCNM**

Template: **T192047**

Prelogin: **P862625**

PM: **526 - Chris McCord**

PB: NS 8/3/21

Shipped Via: **FedEX Ground**

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	8/19/21	1600		NCPA
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1/0.2 °C Bottles Received: 62
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/20/21 Time: 800
				Hold: Condition: NCF / OK

Appendix E

Groundwater Laboratory Reports

ANALYTICAL REPORT

August 31, 2021

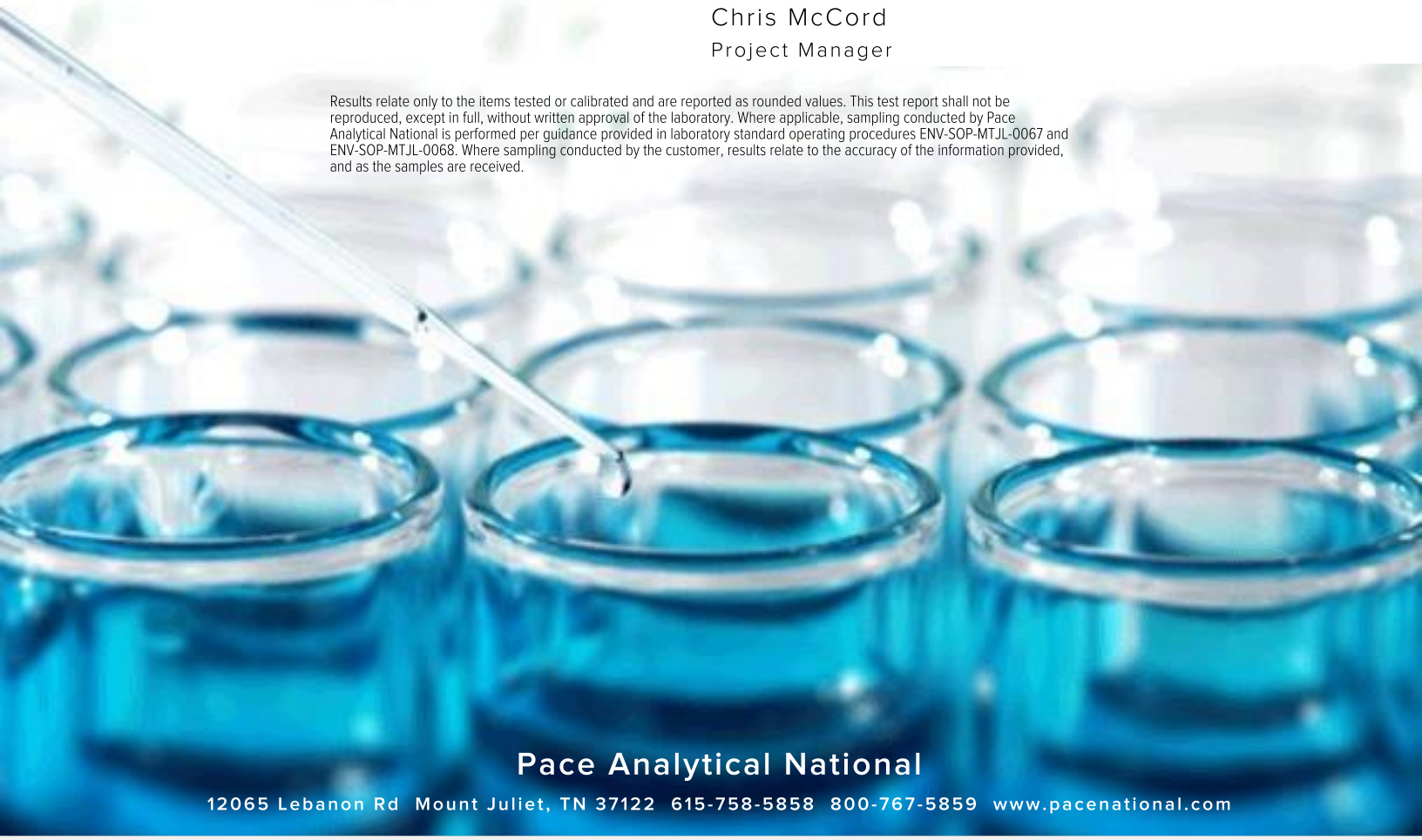
ARCADIS US - New Mexico

Sample Delivery Group:	L1393509
Samples Received:	08/21/2021
Project Number:	30094129
Description:	Candelario 24-1 Battery
Site:	CANDELARIO 24-1 SWD
Report To:	Sarah Johnson
	1004 N Big Spring Street
	Suite 121
	Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
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

TABLE OF CONTENTS

TMW-1-W-210820 L1393509-01 GW

Collected by: Justin Steinmann
Collected date/time: 08/20/21 08:31
Received date/time: 08/21/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1730231	1	08/26/21 17:54	08/26/21 19:36	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1730859	20	08/28/21 00:28	08/28/21 00:28	ELN	Mt. Juliet, TN

TMW-1-WD-210820 L1393509-02 GW

Collected by: Justin Steinmann
Collected date/time: 08/20/21 00:00
Received date/time: 08/21/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1729422	1	08/25/21 15:17	08/25/21 16:06	VRP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1730859	20	08/28/21 00:47	08/28/21 00:47	ELN	Mt. Juliet, TN

TMW-2-W-210820 L1393509-03 GW

Collected by: Justin Steinmann
Collected date/time: 08/20/21 08:46
Received date/time: 08/21/21 09:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG1730966	1	08/27/21 22:39	08/27/21 23:32	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1730859	20	08/28/21 01:05	08/28/21 01:05	ELN	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 McCord
Project Manager

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	5500		100	1	08/26/2021 19:36	WG1730231

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1570		7.58	20.0	20	08/28/2021 00:28	WG1730859

TMW-1-WD-210820
Collected date/time: 08/20/21 00:00

SAMPLE RESULTS - 02

L1393509

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	4770		100	1	08/25/2021 16:06	WG1729422

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1570		7.58	20.0	20	08/28/2021 00:47	WG1730859

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	6060		100	1	08/27/2021 23:32	WG1730966

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1540		7.58	20.0	20	08/28/2021 01:05	WG1730859

QUALITY CONTROL SUMMARY

L1393509-02

Method Blank (MB)

(MB) R3697383-1 08/25/21 16:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1393509-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1393509-02 08/25/21 16:06 • (DUP) R3697383-3 08/25/21 16:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4770	4890	1	2.48		5

L1393509-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1393509-03 08/25/21 16:06 • (DUP) R3697383-4 08/25/21 16:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3870	4690	1	19.2	J3	5

Laboratory Control Sample (LCS)

(LCS) R3697383-2 08/25/21 16:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8230	93.5	77.4-123	

QUALITY CONTROL SUMMARY

L1393509-01

Method Blank (MB)

(MB) R3698007-1 08/26/21 19:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1393769-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1393769-01 08/26/21 19:36 • (DUP) R3698007-3 08/26/21 19:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	842	846	1	0.474		5

L1393769-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1393769-03 08/26/21 19:36 • (DUP) R3698007-4 08/26/21 19:36

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1150	1170	1	1.73		5

Laboratory Control Sample (LCS)

(LCS) R3698007-2 08/26/21 19:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8540	97.0	77.4-123	

Method Blank (MB)

(MB) R3698049-1 08/27/21 23:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1393509-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1393509-03 08/27/21 23:32 • (DUP) R3698049-3 08/27/21 23:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	6060	6110	1	0.822		5

L1394402-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1394402-02 08/27/21 23:32 • (DUP) R3698049-4 08/27/21 23:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	728	729	1	0.183		5

Laboratory Control Sample (LCS)

(LCS) R3698049-2 08/27/21 23:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8490	96.5	77.4-123	

Method Blank (MB)

(MB) R3698011-1 08/27/21 23:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.398	J	0.379	1.00

L1393532-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1393532-03 08/28/21 02:01 • (DUP) R3698011-3 08/28/21 02:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7.89	7.84	1	0.568		20

L1393769-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1393769-01 08/28/21 06:18 • (DUP) R3698011-6 08/28/21 07:14

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	55.7	55.6	1	0.0661		20

Laboratory Control Sample (LCS)

(LCS) R3698011-2 08/27/21 23:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.7	99.2	90.0-110	

L1393532-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1393532-03 08/28/21 02:01 • (MS) R3698011-4 08/28/21 02:37 • (MSD) R3698011-5 08/28/21 03:33

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 %
Chloride	50.0	7.89	57.1	57.5	98.4	99.1	1	80.0-120			0.619	20

L1393769-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1393769-01 08/28/21 06:18 • (MS) R3698011-7 08/28/21 07:32

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	55.7	104	96.8	1	80.0-120	E

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.
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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

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 [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	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.

Chain of Custody Page 1 of 1

Pace Analytical®

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1393509
G033

Acctnum: CHEVARCNM
Template: T192047
Prelogin: P862625
PM: 526 - Chris McCord
PB: NS 8/3/21
Shipped Via: FedEX Ground

Company Name/Address:
ARCADIS US - New Mexico
1004 N Big Spring Street
Suite 121
Midland. TX 79701

Billing Information:
Accounts Payable
1004 N Big Spring Street
Suite 121
Midland, TX 79701

Pres Chk

Report to: Sarah Johnson

Email To: sarah.johnson@arcadis.com;william.foord@arc

Project Description: Candelario 24-1 Battery

City/State Collected: Loving, NM

Please Circle: PT (MT) CT ET

Phone: 432-687-5400

Client Project # 30094129

Lab Project # CHEVARCNM-CANDEL24-1

Collected by (print): Justin Steinmann

Site/Facility ID # CANDELARIO 24-1 SWD

P.O. #

Collected by (signature): [signature]

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: std

Immediately Packed on Ice N ___ Y ✓

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 300 125mlHDPE-NoPres	CHLORIDE-300,TS 4ozClr-NoPres	TDS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
TMW-1-W-210820	G	GW	—	8/20/21	0831	2	X		X		-01
TMW-1-WD-210820	G	GW	—	8/20/21	—	2	X		X		-02
TMW-2-W-210820	G		—	8/20/21	0846	2	X		X		-03

JS 8/20/21

* 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 #

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	
[signature]	8/20/21	1400	[signature]		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: A2 ℃ 4.5±0=4.5	Bottles Received: 6
[signature]	8-20-21	16:30	SusA		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
			[signature]	8/21/21	0945

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 99067

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 99067
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Submitted report accepted as information only. Proceed with additional delineation and work plan development. Submit a work plan via the OCD permitting portal by 6/30/2023.	3/21/2023