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2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BYPRODUCT STORAGE AREA, C.D. MCINTOSH POWER PLANT

Prepared for

Lakeland Electric

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Project FR3715F

January 10, 2024



2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Byproduct Storage Area, C.D. Mcintosh Power Plant

This 2023 Annual Groundwater Monitoring and Corrective Action Report for the Byproduct Storage Area at C.D. McIntosh Power Plant has been prepared to meet the requirements of 40 Code of Federal Regulations §257.90(e)

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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency ("USEPA") coal combustion residuals ("CCR") rule (40 Code of Federal Regulations ("CFR") Part 257, Subpart D: Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments) ("CCR Rule"), this 2023 Annual Groundwater Monitoring and Corrective Action Report documents CCR unit groundwater monitoring and corrective action activities completed in 2023 at the Lakeland Electric ("LE") C.D. McIntosh Power Plant ("MPP") Byproduct Storage Area ("BSA").

LE established a CCR unit groundwater monitoring well network to monitor groundwater quality within the uppermost aquifer in the vicinity of the BSA. Monitoring wells currently in the CCR unit groundwater monitoring well network are listed below:

- background wells (2): CCR-1 and CCR-2;
- downgradient wells (9): CCR-4, CCR-5, CCR-6, CCR-7, CCR-8, CCR-9, CCR-11, CCR-12, and CCR-13.

Statistical evaluation of CCR unit groundwater monitoring data collected through October 2017 identified statistically significant increases ("SSIs") of certain CCR Rule Appendix III groundwater monitoring constituents above background concentrations – boron, calcium, fluoride, pH, sulfate, and total dissolved solids ("TDS"). In accordance with the CCR Rule, LE initiated an assessment monitoring program for the BSA in April 2018 and continued assessment monitoring activities through 2023. LE completed an alternate source demonstration ("ASD") for total radium in June 2019 documenting that total radium statistically significant levels ("SSLs") are not associated with a release from the BSA. As a result of the ASD, groundwater samples have not been analyzed for total radium thereafter.

LE initiated an assessment of corrective measures ("ACM") in January 2019 which was completed in June 2019. In 2021, LE continued to evaluate groundwater corrective measures to support remedy selection for groundwater downgradient of the BSA. LE conducted the public meeting required in 40 CFR §257.96(e) on February 3, 2021. Following receipt of public input, LE finalized the remedy selection report for the BSA on March 31, 2021, which documented a remedy consisting of source control, including beneficial off-site use of CCR, and capping and closing the BSA in place following shutdown of Unit No. 3. Until the remedy is in place, LE will continue cleaning and maintaining the perimeter stormwater ditch to remove residual CCR.

Sampled collected during the first 2023 semi-annual assessment monitoring event (conducted in February) and the second 2023 semi-annual monitoring event (conducted in August) were analyzed for CCR Rule Appendix III and Appendix IV constituents. Appendix IV analytical data from the first and second semi-annual 2023 sampling events were evaluated in accordance with the *Statistical Analysis Plan* (Golder, 2017b).

The analyses indicated SSLs above applicable groundwater protection standards of the following Appendix IV constituents:

CCI Constituent	Semi-annual assessment monitoring events								
SSL Constituent	1st Semi-	annual 2023	2 nd Semi-annual 2023						
Arsenic	CCR-11	CCR-12	CCR-11	CCR-12					
Lithium	CCR-4 CCR-6	CCR-5 CCR-13	CCR-4 CCR-6	CCR-5 CCR-13					

SSLs observed in 2023 were generally consistent with those observed in 2022 except that lithium is no longer an SSL at CCR-9.

LE continued evaluating the nature and extent (N&E) of arsenic and lithium SSLs in groundwater downgradient of the BSA. Delineation activities completed in 2023 included the first and second semi-annual sampling of N&E monitoring wells CCR-15 through CCR-23, property boundary well SW-106, and sampling surface water from Fish Lake and Lake D to evaluate the nature and extent of SSL constituents.

In September 2022, LE applied to the Florida Department of Environmental Protection ("FDEP") to close the BSA pursuant to Rule 62-701.805(11) and 62-701.805(8), Florida Administrative Code. The FDEP issued Permit Number 0425997-001-CP-01 to close the BSA on August 18, 2023.

On August 18, 2023, FDEP issued Permit Number 0425997-001-CP-01 to close the BSA pursuant to Rule 62-701.805(11) and 62-701.805(8), Florida Administrative Code. Following receipt of the closure permit, LE completed an engineering design for closure of the BSA and issued a request for proposal to qualified subcontractors for closure construction. LE anticipates initiating closure of the BSA in 2024. In the interim, LE maintains the BSA and perimeter ditch as needed.

Groundwater assessment monitoring will continue in 2024.



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1. INTRODUCTION

1.1 Overview

On behalf of Lakeland Electric ("LE"), Geosyntec Consultants, Inc. ("Geosyntec") prepared this 2023 Annual Groundwater Monitoring and Corrective Action Report for the Byproduct Storage Area ("BSA") at the C.D. McIntosh Jr. Power Plant ("MPP" or "Site"). The purpose of this report is to present a summary of coal combustion residuals ("CCR") unit groundwater monitoring activities conducted in 2023 in accordance with the annual reporting requirements of the United States Environmental Protection Agency ("USEPA") CCR rule (40 Code of Federal Regulations Part 257 ("CFR"), Subpart D: Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments) ("CCR Rule"), Section 257.90(e). In addition, this report describes the status of corrective actions being undertaken at the CCR unit to address statistically significant levels ("SSLs") of CCR Rule Appendix IV constituents.

The Site is located at 3030 East Lake Parker Drive in Lakeland, Florida and is bordered by undeveloped lakes and marsh land to the north and east and Lake Parker to the south and west (**Figure 1**). The undeveloped lakes and marsh land were created from phosphate mining in the late 1960s to early 1970s. The BSA is in the eastern portion of the Site and encompasses approximately 44 acres.

1.2 Regional Geology & Hydrogeologic Setting

The regional geology and hydrogeology were presented in the 2019 Assessment of Corrective Measures Report and 2019 Annual Groundwater Monitoring and Corrective Action Report (Golder, 2019a and b, respectively). A brief summary is included here. Geologic units present near the MPP include (in descending order; youngest to oldest):

- Holocene to Pliocene-age sands and clays up to 25 feet thick occur in the Lakeland area (Florida Geological Survey, 1991).
- The clayey-sand soils of the Miocene to Oligocene-age Hawthorn Group underly the Holocene to Pliocene sands with an approximate thickness of 40 to 60 ft in the vicinity of the MPP (Cathcart, 1964).
- Older units, comprised primarily of limestone and/or dolostone, underlying the Hawthorn group in the region include the Suwannee Limestone, Ocala Limestone, Avon Park Formation, and Oldsmar Formation.

The regional and Site-specific hydrogeology is comprised of three major hydrostratigraphic units: the unconfined surficial aquifer, the intermediate aquifer/confining unit, and the Floridan aquifer. The surficial aquifer represents the "uppermost aquifer" as defined in the CCR Rule. Groundwater flow in the surficial aquifer at the Site generally flows from topographic highs to topographic lows discharging to the numerous lakes surrounding the Site (Golder, 2005). Groundwater in the vicinity of the BSA has been observed to flow semi-radially away from the BSA, with flow to the west toward Fish Lake, and to the east toward Lakes C and D. There is a lesser component of groundwater flow in the surficial aquifer that is vertically downgradient

toward the intermediate confining unit and Floridan aquifer. This vertical flow component is restricted by the clayey materials of the intermediate confining unit.

1.3 CCR Unit and Groundwater Monitoring System Descriptions

The BSA CCR unit encompasses approximately 44 acres, but no longer receives CCR. Pursuant to the CCR Rule, LE installed a CCR unit groundwater monitoring system around the BSA to monitor groundwater within the uppermost aquifer at the Site (Golder, 2017a). Background monitoring wells were installed upgradient of the Site to establish Site-wide background water quality. The downgradient monitoring well network was installed at the waste boundary. The BSA groundwater monitoring network is comprised of the following wells:

- background wells (2): CCR-1 and CCR-2;
- downgradient wells (9): CCR-4, CCR-5, CCR-6, CCR-7, CCR-8, CCR-9, CCR-11, CCR-12, and CCR-13.

CCR-3, CCR-10, and CCR-14 were removed from the CCR unit monitoring well network in 2021 following five or more semi-annual groundwater monitoring events prior to January 2021 with no CCR constituent concentrations above CCR Rule groundwater protection standards ("GWPS"). These wells are not needed to evaluate the nature and extent of CCR constituents at other wells and are utilized as piezometers to supplement groundwater flow interpretations.

In February 2019, LE installed delineation wells (CCR-15 through CCR-23) to evaluate the nature and extent (N&E) of SSL constituents (Golder, 2019b). In June 2019, LE completed an alternate source demonstration ("ASD") for total radium documenting that total radium SSLs are not associated with a release from the BSA (see Section 5.0 for additional details regarding the total radium ASD). As a result of the total radium ASD, groundwater samples have not been analyzed for total radium. In 2023, LE sampled the delineation wells around the BSA, the downgradient property boundary well (SW-106), Fish Lake, and Lake D. These samples were analyzed for CCR Rule Appendix IV constituents (except for radium since an ASD established that radium is from a source other than the CCR unit).

Monitoring well details, including installation dates, coordinates, elevations, screen intervals, and designations are summarized in **Table 1**. The CCR unit groundwater monitoring network and delineation wells for the BSA are depicted on **Figure 2**.

2. WATER MONITORING ACTIVITIES

The following section describes the methods used to conduct CCR unit groundwater monitoring at the BSA, including groundwater level gauging and sampling of monitoring wells and surface water bodies. Groundwater and surface water monitoring activities were conducted in general accordance with FDEP Standard Operating Procedures (SOPs) for Field Activities dated January 2017 (effective April 2018).

2.1 Monitoring Well Installation, Maintenance, and Abandonment

Monitoring wells installed at the BSA are routinely maintained to confirm the wells can accurately monitor groundwater conditions at the BSA.

2.2 Groundwater Elevation Measurement

Prior to each semi-annual sampling event, the depth to groundwater was recorded at CCR unit groundwater monitoring wells, delineation wells, and piezometers within a 24-hour period.

2.3 Groundwater and Surface Water Sampling

Groundwater and surface water at the BSA was monitored on a semi-annual basis in 2023. The first semi-annual assessment monitoring event was conducted in February 2023, and the second semi-annual monitoring event was conducted during August 2023.

During the 2023 semi-annual assessment monitoring events, groundwater samples were collected from CCR unit monitoring wells, select nature and extent ("N&E") monitoring wells (CCR-15 through CCR-23 and SW-106), and select surface water bodies (Fish Lake and Lake D) to assess the N&E of lithium and arsenic (i.e., constituents with SSLs). Monitoring well locations and surface water bodies are shown on **Figure 2**.

Water quality parameters (pH, conductivity, dissolved oxygen, temperature, and turbidity) were documented during well purging to evaluate stabilization prior to sample collection. Following sample collection, samples were placed in ice-packed coolers and submitted for laboratory analysis following chain-of-custody protocol.

Samples were analyzed for Appendix III and Appendix IV constituents (except for radium since an ASD established that radium is from a source other than the CCR unit).

2.4 Statistical Methods

Statistical analysis of Appendix IV constituents was performed on CCR unit groundwater monitoring data collected during the 2023 semi-annual assessment monitoring events in accordance with the *Statistical Analysis Plan* (Golder, 2017b). The *Statistical Analysis Plan* (SAP) describes Site-specific statistical methods that were used to evaluate CCR unit groundwater data. In accordance with the CCR Rule, GWPS for Appendix IV constituents were established. In 2023, Site-specific GWPS were updated in accordance with the timeline outlined in the SAP and are presented in **Table 6**.

To evaluate SSLs of Appendix IV constituents, a confidence interval approach was used to evaluate if downgradient groundwater concentrations were above the GWPS at statistically

significant levels. As recommended in the *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, a confidence interval around the mean was employed for normal or normalized data (USEPA, 2009). If the downgradient well data is not normally distributed and cannot be transformed to a normal distribution, the non-parametric confidence interval around the median was employed. There is evidence of an SSL if the lower confidence limit ("LCL") exceeds the GWPS at the 95% confidence level.

2.5 Quality Assurance & Quality Control

During each sampling event, quality assurance/quality control ("QA/QC") samples including field equipment blanks were collected. Data from these QA/QC samples were evaluated during data validation.

Groundwater quality data in this report were independently validated in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences ("RPDs"), laboratory duplicate RPDs, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017).

3. RESULTS

The following sections describe the results of water monitoring activities performed in 2023. Field sampling data sheets and analytical laboratory reports are provided in **Appendix A**.

3.1 Monitoring Well Installation, Maintenance, and Abandonment

No additional monitoring wells or piezometers were installed at the BSA in 2023.

Monitoring well maintenance activities in 2023 included the redevelopment of the following monitoring wells in July 2023: CCR-9, CCR-11, CCR-13, CCR-15, and CCR-20. Well development activities are summarized in **Appendix B**.

No monitoring well abandonment activities were completed at the BSA in 2023.

3.2 Groundwater Elevation Measurement

Groundwater depth to water measurements were converted to elevations and are summarized in **Table 4**. Site-wide groundwater elevation contour maps developed for the first and second semi-annual assessment monitoring events in February and August 2023 are presented on **Figure 3** and **Figure 4**, respectively. Shallow groundwater beneath the BSA generally flows in a semi-radial pattern towards the surrounding lakes. Shallow groundwater flow patterns observed during 2023 assessment monitoring events were generally consistent with historical observations.

3.2.1 Groundwater Gradient and Flow Velocity

Groundwater flow rates were calculated based on hydraulic gradients from the 2023 groundwater sampling events and hydraulic conductivity measured via slug tests. The maximum Site-specific surficial aquifer horizontal hydraulic conductivity was calculated to be 52 feet (ft)/day (Golder, 2005). Horizontal flow velocity was calculated using a form of Darcy's Law:

```
V=(K*i)/n_e \\ Where: V= \text{groundwater velocity (ft/day);} \\ K= \text{measured hydraulic conductivity (ft/day);} \\ i= \text{horizontal hydraulic gradient (ft/ft);} \\ n_e= \text{effective porosity (unitless), which was assumed to be 0.15 (Golder, 2005).} \\
```

Table 5 provides a summary of horizontal hydraulic gradients and groundwater flow velocities associated with well pairs CCR-8/CCR-3, CCR-5/CCR-16, and CCR-11/CCR-20 and were calculated based on groundwater measurements from the February and August 2023 sampling events. These velocities are consistent with historical groundwater velocities documented at the BSA.

3.3 Appendix IV Constituents Statistical Analysis Results

Analytical data from the first and second semi-annual assessment monitoring events are summarized in **Table 3**. These data were analyzed in accordance with the SAP. The results from the Appendix IV constituent data collected during the first and second semi-annual monitoring events were evaluated statistically to evaluate exceedances of the established GWPS. Statistical results associated with the first and second semi-annual monitoring data are included in **Appendix C** and **Appendix D**, respectively.

Based on the statistical analysis of Appendix IV constituents, the following CCR unit monitoring wells exhibited SSLs for arsenic or lithium:

CCI Constituent	Semi-annual assessment monitoring events						
SSL Constituent	1 st Semi-annual 2023	2 nd Semi-annual 2023					
Arsenic	CCR-11 CCR-12	CCR-11 CCR-12					
Lithium	CCR-4 CCR-5 CCR-6 CCR-13	CCR-4 CCR-5 CCR-6 CCR-13					

3.4 Quality Assurance and Quality Control

Data validation reports for the first and second semi-annual assessment monitoring events are included in **Appendix A**. In general, data validation reports indicate that most of the data are usable to support project objectives.

4. ALTERNATE SOURCE DEMONSTRATION

In accordance with the CCR Rule, LE prepared an ASD for total radium (**Appendix E**). The key conclusions of the ASD are briefly summarized below:

- Radionuclides including radium-226 and radium-228 (total radium) are naturally occurring in the study area and are associated with minerals in the phosphate matrix that was mined by the phosphate mining industry during the 1970s at the BSA prior to its construction.
- Uranium concentrations in phosphate-bearing rocks exhibit typical uranium concentrations of up to 300 parts per million, which is approximately 1 to 2 orders of magnitude higher than U.S. coals and fly ash, respectively (USGS, 1997).
- Detailed mineralogical assessment of the underlying soils conducted by Petrologic Solutions, Inc. revealed significant uranium and other accessory constituents associated with the phosphate ore mined at and near the BSA.

Due to the abundance of naturally occurring uranium in sediments underlying the MPP, LE ceased analysis of total radium in CCR unit groundwater samples collected following 2019.

5. CORRECTIVE MEASURES

This section describes the corrective measures that are being implemented at the BSA.

5.1 Remedy Design and Implementation

LE completed an assessment of corrective measures ("ACM") in June 2019 in accordance with 40 CFR §257.96(a). LE evaluated groundwater corrective measures to support remedy selection for groundwater downgradient of the BSA in 2020 and 2021 and conducted the public meeting required by 40 CFR §257.96(e) on February 3, 2021. Following receipt of public input, LE completed the *Remedy Selection Report - Byproduct Storage Area* to document a remedy consisting of source control, including beneficial off-site use of CCR material, and capping and closing the BSA in place following the shutdown of Unit No. 3 (Geosyntec, 2021).

On August 18, 2023, FDEP issued Permit Number 0425997-001-CP-01 to close the BSA pursuant to Rule 62-701.805(11) and 62-701.805(8), Florida Administrative Code. Following receipt of the closure permit, LE completed an engineering design for closure of the BSA and issued a request for proposal to qualified subcontractors for closure construction. LE anticipates initiating closure of the BSA in 2024. In the interim, LE maintains the BSA and perimeter ditch as needed.

6. SUMMARY AND FUTURE ACTIONS

In accordance with the CCR Rule, LE continued assessment monitoring in 2023 and advancing to corrective action at the BSA. Statistical analysis identified SSLs of arsenic and lithium downgradient of the BSA. Monitoring well data collected in 2023 indicated SSLs remain in groundwater for arsenic (CCR-11 and CCR-12) and lithium (CCR-4, CCR-5, CCR-6, and CCR-13); however, lithium at CCR-9 is no longer detected at a SSL. LE collected surface water samples from Fish Lake and Lake D, which are downgradient from monitoring wells with SSLs to evaluate downgradient N&E of SSL constituents. Arsenic and lithium concentrations in these water bodies were observed below GWPS providing delineation for upgradient monitoring wells with SSLs.

Following subcontractor procurement, LE intends to close the BSA in accordance with FDEP Permit Number 0425997-001-CP-01. LE anticipates initiating closure activities in 2024.

Groundwater assessment monitoring will continue in 2024.

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TABLE 1: GROUNDWATER MONITORING LOCATION DETAILS Lakeland Electric - C.D. McIntosh Power Plant, Polk County, Florida

Monitoring Location	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Designation			
CCR Groundwater Monitoring Network											
CCR-1	6/24/2016	1362405.2	681287.2	138.3	141.3	122.6	113.1	Background			
CCR-2	6/23/2016	1362203.9	681787.6	137.6	140.6	121.9	112.4	Background			
CCR-4	6/24/2016	1362450.0	683042.7	140.3	143.1	124.7	115.2	Monitoring			
CCR-5	6/22/2016	1362716.0	683376.9	138.6	141.1	122.4	112.9	Monitoring			
CCR-6	6/22/2016	1363168.4	683578.6	138.5	141.3	122.8	113.3	Monitoring			
CCR-7	6/22/2016	1363631.9	683772.2	139.1	142.1	123.4	113.9	Monitoring			
CCR-8	6/22/2016	1363917.6	683411.6	139.4	142.1	123.5	114.0	Monitoring			
CCR-9	6/21/2016	1364085.2	683045.3	138.6	141.7	123.1	113.6	Monitoring			
CCR-11	6/20/2016	1363835.5	682577.2	134.3	137.1	118.7	109.2	Monitoring			
CCR-12	6/20/2016	1363353.1	682430.5	134.1	137.0	118.4	108.9	Monitoring			
CCR-13	6/21/2016	1362936.6	682164.1	135.0	138.0	119.4	109.9	Monitoring			
		Gro	undwater Mon	itoring Locati	ons for Nature a	and Extent					
CCR-15	2/18/2019	1362341.3	683123.5	141.8	144.7	126.4	116.8	Delineation			
CCR-16	2/18/2019	1362533.2	683385.6	141.2	144.1	125.9	116.3	Delineation			
CCR-17	2/19/2019	1363019.9	683712.7	142.9	145.8	127.5	117.9	Delineation			
CCR-18	2/18/2019	1363631.1	683869.7	138.2	140.8	122.6	113.0	Delineation			
CCR-19	2/15/2019	1364205.4	683064.5	133.8	136.5	118.3	108.7	Delineation			
CCR-20	2/14/2019	1363855.5	682474.9	133.1	136.1	118.2	108.6	Delineation			
CCR-21	2/13/2019	1363454.0	682331.4	134.5	137.1	118.9	109.3	Delineation			
CCR-22	2/13/2019	1363017.4	682078.7	134.0	137.5	119.2	109.6	Delineation			
CCR-23	2/12/2019	1362812.1	681744.7	136.2	135.8	121.1	111.5	Delineation			
SW-106		1359404.2*	685656.2*					Delineation			
			Gı	oundwater Pi	ezometers						
CCR-3	6/23/2016	1362334.6	682451.3	137.5	137.0	121.6	112.2	Piezometer			
CCR-10R	3/13/2018	1364262.1	682706.3	133.8	133.6	119.2	109.7	Piezometer			
CCR-14	6/21/2016	1362771.1	681761.2	135.8	138.7	120.4	110.9	Piezometer			
MW-24S		1363278.5	683727.0		143.9			Delineation			
MW-25S		1362906.6	683555.1		144.4			Delineation			

- 1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983, Florida West.
- 2. Elevations are in feet relative to the North American Vertical Datum of 1988.
- 3. "--" indicates not available.
- 4. "*" measurements are estimated.

TABLE 2: SUMMARY OF 2023 GROUNDWATER SAMPLING EVENTS Lakeland Electric - C.D. McIntosh Power Plant, Polk County, Florida

Monitoring Location	2023 Semi-Annual Assessment Monitoring Event 1	2023 Semi-Annual Assessment Monitoring Event 2				
	CCR Groundwater Monitorin	ng Network				
CCR-1	2/15/2023	8/21/2023				
CCR-2	2/15/2023	8/16/2023				
CCR-4	2/15/2023	8/21/2023				
CCR-5	2/16/2023	8/22/2023				
CCR-6	2/15/2023	8/17/2023				
CCR-7	2/20/2023	8/22/2023				
CCR-8	2/22/2023	8/17/2023				
CCR-9	2/22/2023	8/17/2023				
CCR-11	2/16/2023	8/18/2023				
CCR-12	2/16/2023	8/18/2023				
CCR-13	2/16/2023	8/18/2023				
Groundw	ater Monitoring Locations fo	r Nature and Extent				
CCR-15	2/20/2023	8/21/2023				
CCR-16	2/20/2023	8/16/2023				
CCR-17	2/20/2023	8/16/2023				
CCR-18	2/16/2023	8/21/2023				
CCR-19	2/16/2023	8/21/2023				
CCR-20	2/16/2023	8/18/2023				
CCR-21	2/16/2023	8/18/2023				
CCR-22	2/16/2023	8/18/2023				
CCR-23	2/16/2023	8/18/2023				
SW-106	2/22/2023	8/18/2023				
Fish Lake	2/17/2023	8/21/2023				
Lake D	2/17/2023	8/21/2023				

TABLE 3: SUMMARY OF 2023 GROUNDWATER LABORATORY ANALYTICAL DATA Lakeland Electric - C.D. McIntosh Power Plant, Polk County, Florida

Monitoring Location	Well Designation	Sample Date	Antimony (mg/L)	Arsenic (mg/L)	Barium (mg/L)	Beryllium (mg/L)	Boron (mg/L)	Cadmium (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	Combined Radium (pCi/L)	Fluoride (mg/L)	Lead (mg/L)	Lithium (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	pH (SU)	Selenium (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Thallium (mg/L)
	Site-Specific (GWPS (mg/L)	0.006	0.01	2	0.004	-	0.005			0.1	0.006	(pci/L)	4	0.015	0.04	0.002	0.1		0.05	_		0.002
Semi-Annual Assessment Monitoring Event 1																							
CCR-1 Background 2/15/2023 0.00620 U 0.00396 U 0.0121 0.000107 U 0.0472 0.000217 U 38.1 5.64 0.00130 I 0.000400 I NA 0.0640 0.00193 U 0.00474 U 0.000120 U 0.00143 U 5.64 0.00439 U 69.8 224 0.000925 U																							
CCR-2	Background	2/15/2023	0.00620 U	0.00396 U	0.00590	0.000107 U	0.0312	0.000217 U	30.8	8.36	0.00130 I	0.000500 I	N/A	0.107	0.00193 U	0.00474 U	0.000120 U	0.00143 U	5.61	0.00439 U	34.0	176	0.000925 U
CCR-4	Monitoring	2/15/2023	0.00620 U	0.00396 U	0.220	0.000200 I	0.602	0.00110	1480	3500	0.00130 I	0.0033001	N/A	0.521	0.00193 U	0.192	0.000120 U	0.00143 U	4.12	0.00439 U	1040	8600	0.000925 U
CCR-5	Monitoring	2/16/2023	0.00620 U	0.00396 U	0.0840	0.000107 U	0.501	0.00100	1890	5420	0.000800 I	0.00340	N/A	0.0260 U	0.00193 U	2.83	0.000120 U	0.00143 U	5.32	0.00439 U	613	10600	0.000925 U
CCR-6	Monitoring	2/15/2023	0.00620 U	0.00396 U	0.0150	0.000107 U	0.409	0.00100 0.000300 I	303	458	0.00100 I	0.00540 0.000500 I	N/A	0.374	0.00193 U	0.427	0.000120 U	0.00760	6.16	0.00439 U	447	1740	0.000925 U
CCR-7	Monitoring	2/20/2023	0.00620 U	0.00396 U	0.00760	0.000107 U	0.256	0.000300 T	51.8	29.8	0.00100 I	0.000354 U	N/A	0.122	0.00193 U	0.0401	0.000120 U	0.00743 U	5.01	0.00439 U	174	412	0.000925 U
CCR-8	Monitoring	2/22/2023	0.00620 U	0.00396 U	0.0247	0.000107 U	0.0673	0.000217 U	82	2.45	0.00210 I	0.000354 U	N/A	0.354	0.00193 U	0.00474 U	0.000120 U	0.0122	6.55	0.00439 U	67.7	268	0.000925 U
CCR-9	Monitoring	2/22/2023	0.00620 U	0.00396 U	0.0435	0.000107 U	0.514	0.000217 U	564	370	0.00140 I	0.000354 U	N/A	0.215	0.00193 U	0.0457	0.000120 U	0.00143 U	5.20	0.00439 U	1380	2830	0.000925 U
CCR-11	Monitoring	2/16/2023	0.00620 U	0.0513	0.0433	0.000107 U	0.360	0.000217 0	564	530	0.00140 I	0.000334 C	N/A	1.31	0.00193 U	0.0437 0.0136 I	0.000120 U	0.00143 U	4.52	0.00439 U	1720	3670	0.000925 U
CCR-11	Monitoring	2/16/2023	0.00620 U	0.0515	0.0470	0.000107 U	0.367	0.00100 0.000900 I	525	16.0	0.00100 I	0.000900 I	N/A	0.794	0.00193 U	0.0130 I	0.000120 U	0.00143 0	6.62	0.00439 U	1190	2080	0.000925 U
CCR-12	Monitoring	2/16/2023	0.00620 U	0.0015 0.00396 U	0.0178	0.000107 U	0.307	0.000900 I	497	123	0.00190 I	0.00290		1.34	0.00193 U	0.01771	0.000120 U	0.0129 0.00143 U	4.20	0.00439 U	1460	2490	0.000925 U
CCR-15	Delineation	2/20/2023	0.00620 U	0.00396 U	0.0318	0.000200 I 0.000107 U	0.412	0.000300 I 0.000217 U	43.8	13.8	0.00190 I	0.00290 0.000354 U	N/A	0.111	0.00193 U 0.00193 U	0.135 0.00474 U	0.000120 U	0.00143 U	4.20	0.00439 U	130	262	0.000925 U
CCR-15	Delineation						0.0428					0.000354 U	N/A			0.00474 0			3.95			7620	
CCR-10	Delineation	2/20/2023	0.00620 U	0.00396 U 0.00396 U	0.114	0.000107 U 0.000107 U		0.000217 U	1180	2740 137	0.00130 I	0.000354 U	N/A	0.0260 U 0.0260 U	0.00193 U	0.00474 U	0.000120 U	0.00143 U	0.70	0.00439 U	1140	900	0.000925 U 0.000925 U
		2/20/2023	0.00620 U		0.00350	0.000.00	0.131	0.000217 U	161		0.00110 I	0100000	N/A	0.0200	0.00193 U	0.0000	0.000120 U	0.00143 U	6.35	0.00439 U	181		0.000,20
CCR-18 CCR-19	Delineation	2/16/2023	0.00620 U	0.00396 U	0.00100	0.000107 U	0.0422	0.000217 U	64	1.66	0.00110 I	0.000354 U	N/A	0.264	0.00193 U	0.00474 U	0.000120 U	0.00420 I	6.69	0.00439 U	16.7	552	0.000925 U
	Delineation	2/16/2023	0.00620 U	0.00396 U	0.0318	0.000107 U	0.294	0.000500 I	239	346	0.00170 I	0.000400 I	N/A	0.658	0.00193 U	0.00474 U	0.000120 U	0.00143 U	4.72	0.00439 U	458	1620	0.000925 U
CCR-20	Delineation	2/16/2023	0.00620 U	0.0497	0.0402	0.000107 U	0.390	0.000800 I	531	429	0.00150 I	0.000354 U	N/A	0.213	0.00193 U	0.00474 U	0.000120 U	0.00143 U	5.05	0.00439 U	1770	3530	0.000925 U
CCR-21	Delineation	2/16/2023	0.00620 U	0.00540 I	0.0425	0.000107 U	0.364	0.000400 I	490	20.5	0.000600 I	0.00140	N/A	0.695	0.00193 U	0.0313	0.000120 U	0.0259	6.49	0.00439 U	966	1880	0.000925 U
CCR-22	Delineation	2/16/2023	0.00620 U	0.00396 U	0.0330	0.000107 U	0.486	0.000217 U	329	135	0.00170 I	0.00190	N/A	1.42	0.00193 U	0.0654	0.000120 U	0.00143 U	4.51	0.00439 U	1020	1850	0.000925 U
CCR-23	Delineation	2/16/2023	0.00620 U	0.00396 U	0.00830	0.000107 U	0.725	0.000217 U	238	131	0.00190 I	0.00040 I	N/A	0.421	0.00193 U	0.00474 U	0.000120 U	0.00143 U	5.26	0.00439 U	660	1380	0.00180 I
SW-106	Delineation	2/22/2023	0.00620 U	0.00396 U	0.00870	0.000107 U	0.0421	0.000217 U	8.41	1.94	0.000600 I	0.000354 U	N/A	0.0330	0.00193 U	0.00474 U	0.000120 U	0.00170 I	5.39	0.00439 U	25.7	70.0	0.000925 U
Fish Lake	Delineation	2/17/2023	0.00620 U	0.00396 U	0.00490	0.000107 U	0.152	0.000217 U	103	64.9	0.000513 U	0.000354 U	N/A	0.566	0.00193 U	0.00526 I	0.000120 U	0.00210 I	8.94	0.00439 U	200	550	0.000925 U
Lake D	Delineation	2/17/2023	0.00620 U	0.00396 U	0.00680	0.000107 U	0.0349	0.000217 U	61	168	0.00100 I	0.000500 I	N/A	0.256	0.00193 U	0.00919 I	0.000120 U	0.00143 U	6.44	0.00439 U	18.6	692	0.000925 U
							1					ent Monitorin											
CCR-1 CCR-2	Background Background	8/21/2023 8/16/2023	0.0010 U 0.0010 U	0.00097 I 0.00033 I	0.012 0.0070 I	0.0020 U 0.0020 U	0.1 U 0.1 U	0.00025 U 0.00025 U	29 21	3.3 I 3.9 I	0.0050 U 0.0050 U	0.00025 U 0.00025 U	N/A N/A	0.40 U 0.40 U	0.00050 U 0.00050 U	0.06 U* 0.06 U*	0.000011 U 0.000011 U	0.00050 U 0.00074 I	5.29	0.0012 U 0.0012 U	60 15	180 140	0.00025 U 0.00025 U
CCR-2	Monitoring	8/21/2023	0.0010 U	0.00055 I	0.00701	0.0020 U	0.1 0	0.00025 U	1,600	4.100	0.0050 U	0.00023 0	N/A	20 U**	0.00050 U	0.08 U	0.000011 U	0.000741 0.00050 U	3.98	0.0012 U	1,400	8,600	0.00025 U
CCR-5	Monitoring	8/22/2023	0.0010 U	0.00031 I	0.085	0.0020 U	0.43	0.00025 U**	2,200	5,700	0.0050 U	0.00011 0.00025 U**	N/A	20 U**	0.00050 U**	4.1	0.0000341	0.00050 U	5.39	0.0012 U**	630	11,000	0.00025 U**
CCR-6	Monitoring	8/17/2023	0.0010 U	0.00025 U	0.0030 U	0.0020 U	0.26 I	0.00025 U	97	10	0.0050 U	0.00025 U	N/A	0.40 U	0.00050 U	0.06 U*	0.000011 U	0.0090	6.47	0.0012 U	90	320	0.00025 U
CCR-7	Monitoring	8/22/2023	0.0010 U	0.00025 U	0.0077 I	0.0020 U	0.13 I	0.00025 U	19	4.9 I	0.0050 U	0.00025 U	N/A	0.40 U	0.00050 U	0.06 U*	0.000011 U	0.00053 I	4.99	0.0012 U	45	160	0.00025 U
CCR-8	Monitoring	8/17/2023	0.0010 U	0.0013	0.021	0.0020 U	0.1 U	0.00025 U	72	2.0 U	0.0050 U	0.00025 U	N/A	0.40 U	0.00050 U	0.06 U*	0.000011 U	0.011	6.67	0.0012 U	39	260	0.00025 U
CCR-9 CCR-11	Monitoring Monitoring	8/17/2023 8/18/2023	0.0010 U 0.0010 U	0.0019	0.039 0.048	0.0020 U 0.0020 U	0.46 0.36 I	0.00025 U 0.00025 U	510 580	550 780	0.0050 U 0.0050 U	0.00025 U 0.00025 U	N/A N/A	2.0 U 2.0 U	0.00050 U 0.00050 U	0.06 U* 0.06 U*	0.000011 U 0.000011 U	0.00050 U 0.00050 U	5.29 4.77	0.0012 U 0.0012 U	1,600 2,000	2,300 4,200	0.00025 U 0.00025 U
CCR-11	Monitoring	8/18/2023	0.0010 U	0.058	0.048	0.0020 U 0.0020 U	0.36 I	0.00025 U 0.00025 U	370	9.3 I	0.0050 U 0.0050 U	0.00025 U 0.00025 U	N/A N/A	1.0 U	0.00050 U 0.00050 U	0.06 U*	0.000011 U	0.00050 U 0.013	6.58	0.0012 U 0.0012 U	910	1,500	0.00025 U 0.00025 U
CCR-13	Monitoring	8/18/2023	0.0010 U	0.0001 0.00032 I	0.017	0.0020 U	0.64	0.00025 U	450	100	0.0050 U	0.00023 C	N/A	1.0 U	0.00050 U	0.12 I	0.000011 U	0.00050 U	4.36	0.0012 U	1,700	2,500	0.00025 U
CCR-15	Delineation	8/21/2023	0.0010 U	0.0025 U	0.019	0.0020 U	0.1 U	0.00025 U	9.9	4.0 I	0.0050 U	0.00025 U	N/A	0.40 U	0.00050 U	0.06 U*	0.000011 U	0.00070 I	3.97	0.0012 U	32	110	0.00025 U
CCR-16	Delineation	8/16/2023	0.0010 U	0.00052 I	0.092	0.0020 U	0.57	0.00025 U	1,000	2,500	0.0050 U	0.00070 I	N/A	5.0 U**	0.00050 U	0.15 I	0.000011 U	0.00050 U	4.13	0.0012 U	1,400	8,200	0.00025 U
CCR-17	Delineation	8/16/2023	0.0010 U	0.0084	0.0034 I	0.0020 U	0.15 I	0.00025 U	150	100	0.0050 U	0.00025 U	N/A	0.40 U	0.00050 U	0.06 U*	0.000011 U	0.0042	6.53	0.0012 U	210	940	0.00025 U
CCR-18 CCR-19	Delineation Delineation	8/21/2023 8/21/2023	0.0010 U 0.0010 U	0.00025 U 0.0042	0.0030 U 0.072	0.0020 U 0.0020 U	0.1 U 0.32 I	0.00025 U 0.00025 U	70 700	2.2 I 1.200	0.0050 U 0.0050 U	0.00025 U 0.00050 U	N/A N/A	0.40 U 2.0 U	0.00050 U 0.00050 U	0.06 U* 0.06 U*	0.000011 U 0.000011 U	0.0039 0.00050 U	6.45 4.60	0.0025 U 0.0012 U	35 780	280 4,200	0.00025 U 0.00025 U
CCR-19	Delineation	8/21/2023	0.0010 U	0.0042	0.072	0.0020 U	0.34 I	0.00025 U	520	450	0.0050 U	0.00030 U	N/A N/A	2.0 U	0.00050 U	0.06 U*	0.000011 U	0.00050 U	5.00	0.0012 U	2,100	3,500	0.00025 U
CCR-21	Delineation	8/18/2023	0.0010 U	0.004	0.032	0.0020 U	0.30 I	0.00025 U	480	20 I	0.0050 U	0.00023 C	N/A	1.0 U	0.00050 U	0.06 U*	0.000011 U	0.035	6.27	0.0012 U	1,200	1,800	0.00025 U
CCR-22	Delineation	8/18/2023	0.0010 U	0.00025 U	0.037	0.0020 U	0.39 I	0.00025 U	390	190	0.0050 U	0.00033 I	N/A	1.0 U	0.00050 U	0.089 I	0.000011 U	0.00050 U	4.53	0.0012 U	1,500	2,400	0.00025 U
CCR-23	Delineation	8/18/2023	0.0010 U	0.00025 U	0.0092 I	0.0020 U	0.71	0.00025 U	260	160	0.0050 U	0.00025 U	N/A	1.0 U	0.00050 U	0.06 U*	0.000011 U	0.00050 U	4.95	0.0012 U	770	1,500	0.00025 U
SW-106	Delineation	8/18/2023	0.0010 U	0.00025 U	0.015	0.0020 U	0.1 U	0.00025 U	8.7	2.1 I	0.0050 U	0.00025 U	N/A	0.40 U	0.00082 I	0.06 U*	0.000011 U	0.0019 I 0.0018 I	5.44 7.91	0.0012 U	28	100	0.00025 U
Fish Lake Lake D	Delineation Delineation	8/21/2023	0.0010 U	0.0020 0.00025 II	0.036 0.0059 I	0.0020 U 0.0020 U	0.18 I	0.00025 U 0.00025 U	97 44	68 100	0.0050 U 0.0050 U	0.00025 U	N/A N/A	0.43 I 0.40 U	0.00050 U 0.00050 U	0.06 U*	0.000011 U 0.000011 U	0.00101	6.34	0.0012 U	230	600 470	0.00025 U 0.00025 U
Notes:	Demication	5,21,2023	0.0010 0	0.00023 U	0.0059 1	0.0020 U	0.1 0	0.00023 U	44	100	0.0030 U	0.00023 U	1071	0.40 U	0.00000	0.00 0**	0.000011 U	0.00000 U	0.57	0.0012 U	10	4/0	0.00023 U

- 1. "mg/L" indicates milligrams per liter, "pCi/L" indicates picocuries per liter, "SU" indicates standard units.
- 2. "TDS" indicates Total Dissolved Solids.
- 3. "U" indicates analyte was analyzed but not detected.
- "GWPS" indicates Groundwater Protection Standard.
 "J" indicates an estimated value; Quality control does not meet criteria.
- J. Indicates an estimated value, Quanty control does not meet criteria.

 "J+" indicates an estimated value with a high bias; Quality control does not meet criteria.
- 7. "J-" indicates an estimated value with a low bias; Quality control does not meet criteria
- 8. "NA" indicates not analyzed or not available.
- "NS" indicates not sampled.
- 10. "I" indicates the reported value is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit
- 11. "*" indicates non detected MDL concentration reported over the GWPS. Assumed GWPS compliant based on historical analytical results.
- 12. "**" indicates matrix spike recoveries less than 30%; therefore, not useable. Assumed GWPS compliant based on historical analytical results.
- 12. Bold text indicates concentrations detected above the MDL.
- # bold, highlighted text indicates concentrations above the Groundwater Protection Standard.

TABLE 4: SUMMARY OF 2023 GROUNDWATER ELEVATIONS Lakeland Electric - C.D. McIntosh Power Plant, Polk County, Florida

Monitoring Location	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
CCR-1	1362405.2	681287.1	141.3	2/13/2023	11.29	130.01
CCR-2	1362203.9	681787.6	140.6	2/13/2023	10.70	129.87
CCR-3	1362334.6	682451.3	137.0	2/13/2023	7.67	129.37
CCR-4	1362450.0	683042.7	143.1	2/13/2023	15.10	128.03
CCR-5	1362716.0	683376.9	141.1	2/13/2023	11.44	129.63
CCR-6	1363168.4	683578.6	141.3	2/13/2023	10.10	131.24
CCR-7	1363631.9	683772.2	142.1	2/13/2023	10.41	131.69
CCR-8	1363917.6	683411.6	142.1	2/13/2023	10.07	132.05
CCR-9	1364085.2	683045.3	141.7	2/13/2023	10.35	131.32
CCR-10R	1364262.1	682706.3	133.6	2/13/2023	3.56	130.00
CCR-11	1363835.4	682577.2	137.1	2/13/2023	7.31	129.81
CCR-12	1363353.1	682430.5	137.0	2/13/2023	7.35	129.64
CCR-13	1362936.6	682164.1	138.0	2/13/2023	8.05	129.90
CCR-14	1362771.1	681761.2	138.7	2/13/2023	8.71	129.99
CCR-15	1362341.3	683123.5	144.7	2/13/2023	17.29	127.36
CCR-16	1362533.2	683385.6	144.1	2/13/2023	15.99	128.11
CCR-17	1363019.9	683712.7	145.8	2/13/2023	15.02	130.78
CCR-18	1363631.1	683869.7	140.8	2/13/2023	9.32	131.49
CCR-19	1364205.4	683064.5	136.5	2/13/2023	5.36	131.11
CCR-20	1363855.5	687474.9	136.1	2/13/2023	6.55	129.50
CCR-21	1363454.0	682331.4	137.1	2/13/2023	7.83	129.29
CCR-22	1363017.4	682078.7	137.5	2/13/2023	8.03	129.48
CCR-23	1362812.1	681744.7	135.8	2/13/2023	5.81	129.97
MW-24S	1363278.5	683727.0	143.9	2/13/2023	12.10	131.81
MW-25S	1362906.6	683555.1	144.4	2/13/2023	15.41	128.99
SW-106	1359404.2*	685656.2*		2/13/2023	12.95	

- 1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983, Florida West.
- 2. Elevations are in feet relative to the North American Vertical Datum of 1988.
- 3. Depth to water measurements are in feet below top of casing.
- 4. "*" measurements are estimated.
- 5. "--" indicates not available.

TABLE 4: SUMMARY OF 2023 GROUNDWATER ELEVATIONS Lakeland Electric - C.D. McIntosh Power Plant, Polk County, Florida

Monitoring Location	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
CCR-1	1362405.2	681287.1	141.3	8/14/2023	9.05	132.25
CCR-2	1362203.9	681787.6	140.6	8/14/2023	9.10	131.47
CCR-3	1362334.6	682451.3	137.0	8/14/2023	5.76	131.28
CCR-4	1362450.0	683042.7	143.1	8/14/2023	14.41	128.72
CCR-5	1362716.0	683376.9	141.1	8/14/2023	10.67	130.40
CCR-6	1363168.4	683578.6	141.3	8/14/2023	9.07	132.27
CCR-7	1363631.9	683772.2	142.1	8/14/2023	9.30	132.80
CCR-8	1363917.6	683411.6	142.1	8/14/2023	9.23	132.89
CCR-9	1364085.2	683045.3	141.7	8/14/2023	10.07	131.60
CCR-10R	1364262.1	682706.3	133.6	8/14/2023	3.17	130.39
CCR-11	1363835.4	682577.2	137.1	8/14/2023	7.09	130.03
CCR-12	1363353.1	682430.5	137.0	8/14/2023	6.61	130.38
CCR-13	1362936.6	682164.1	138.0	8/14/2023	7.41	130.54
CCR-14	1362771.1	681761.2	138.7	8/14/2023	7.35	131.35
CCR-15	1362341.3	683123.5	144.7	8/14/2023	16.99	127.66
CCR-16	1362533.2	683385.6	144.1	8/14/2023	15.41	128.69
CCR-17	1363019.9	683712.7	145.8	8/14/2023	14.04	131.76
CCR-18	1363631.1	683869.7	140.8	8/14/2023	8.21	132.60
CCR-19	1364205.4	683064.5	136.5	8/14/2023	5.27	131.20
CCR-20	1363855.5	687474.9	136.1	8/14/2023	6.27	129.78
CCR-21	1363454.0	682331.4	137.1	8/14/2023	7.56	129.56
CCR-22	1363017.4	682078.7	137.5	8/14/2023	7.72	129.79
CCR-23	1362812.1	681744.7	135.8	8/14/2023	4.53	131.25
MW-24S	1363278.5	683727.0	143.9	8/14/2023	11.08	132.83
MW-25S	1362906.6	683555.1	144.4	8/14/2023	14.79	129.61
SW-106	1359404.2*	685656.2*		8/14/2023	11.16	

- 1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983, Florida West.
- 2. Elevations are in feet relative to the North American Vertical Datum of 1988.
- 3. Depth to water measurements are in feet below top of casing.
- 4. "*" measurements are estimated.
- 5. "--" indicates not available.

TABLE 5: SUMMARY OF 2023 HYDRAULIC GRADIENTS AND GROUNDWATER VELOCITIES

Lakeland Electric - C.D. McIntosh Power Plant, Polk County, Florida

Well Pairs	Date	Water Elevation	Horizontal Distance Between Wells	Head Difference (∆ h)	Horizontal Hydraulic Gradient	n _e	K	V	V
		(ft NGVD29)	(ft)	(ft)	(ft/ft)		(ft/day)	(ft/day)	(ft/yr)
CCR-8		132.05	1,851	2.68	0.001			0.50	183
CCR-3		129.37	1,631	2.08	0.001		52	0.50	165
CCR-5	2/13/2023	129.63	955	1.52	0.002			0.55	201
CCR-16	2/13/2023	128.11	933					0.55	201
CCR-11		129.81	104	0.31	0.003	0.15		1.03	376
CCR-20		129.50	104	0.51	0.003			1.03	370
CCR-8		132.89	1,851	1.61	0.001	0.13		0.30	110
CCR-3		131.28	1,831	1.01	0.001			0.50	110
CCR-5	8/14/2023	130.40	955	1.71	0.002			0.62	227
CCR-16	0/14/2023	128.69	933	1.71	0.002			0.02	221
CCR-11		130.03	104	0.25	0.002			0.83	303
CCR-20		129.78	104	0.23				0.83	303

Notes: $V = (K*i)/n_e$ where;

V = groundwater velocity

K = measured hydraulic conductivity

i = horizontal hydraulic gradient

 n_e = effective porosity, which was assumed to be 0.15 (Golder, 2015)

TABLE 6: SUMMARY OF GROUNDWATER PROTECTION STANDARDS

Lakeland Electric - C.D. McIntosh Power Plant, Polk County, Florida

Analyte	Units	Site-Specific GWPS ⁴
Antimony	mg/L	0.006
Arsenic	mg/L	0.01
Barium	mg/L	2
Beryllium	mg/L	0.004
Cadmium	mg/L	0.005
Chromium	mg/L	0.1
Cobalt ²	mg/L	0.006
Fluoride	mg/L	4
Lead ²	mg/L	0.015
Lithium ²	mg/L	0.04
Mercury	mg/L	0.002
Molybdenum ²	mg/L	0.1
Selenium	mg/L	0.05
Thallium	mg/L	0.002
Combined Radium - 226+228	pCi/L	7.94

- 2. USEPA CCR Rule Specified Limit established in the USEPA CCR Rule Amendment dated July 30, 2018.
- 3. Background indicates the statistically derived upper tolerance limit.
- 4. Site-Specific GWPS derivation is available in the *Statistical Evaluation for Assessment Monitoring* for the Byproduct Storage Area by Geosyntec dated June 29, 2023.

^{1. &}quot;USEPA" indicates United States Environmental Protection Agency;

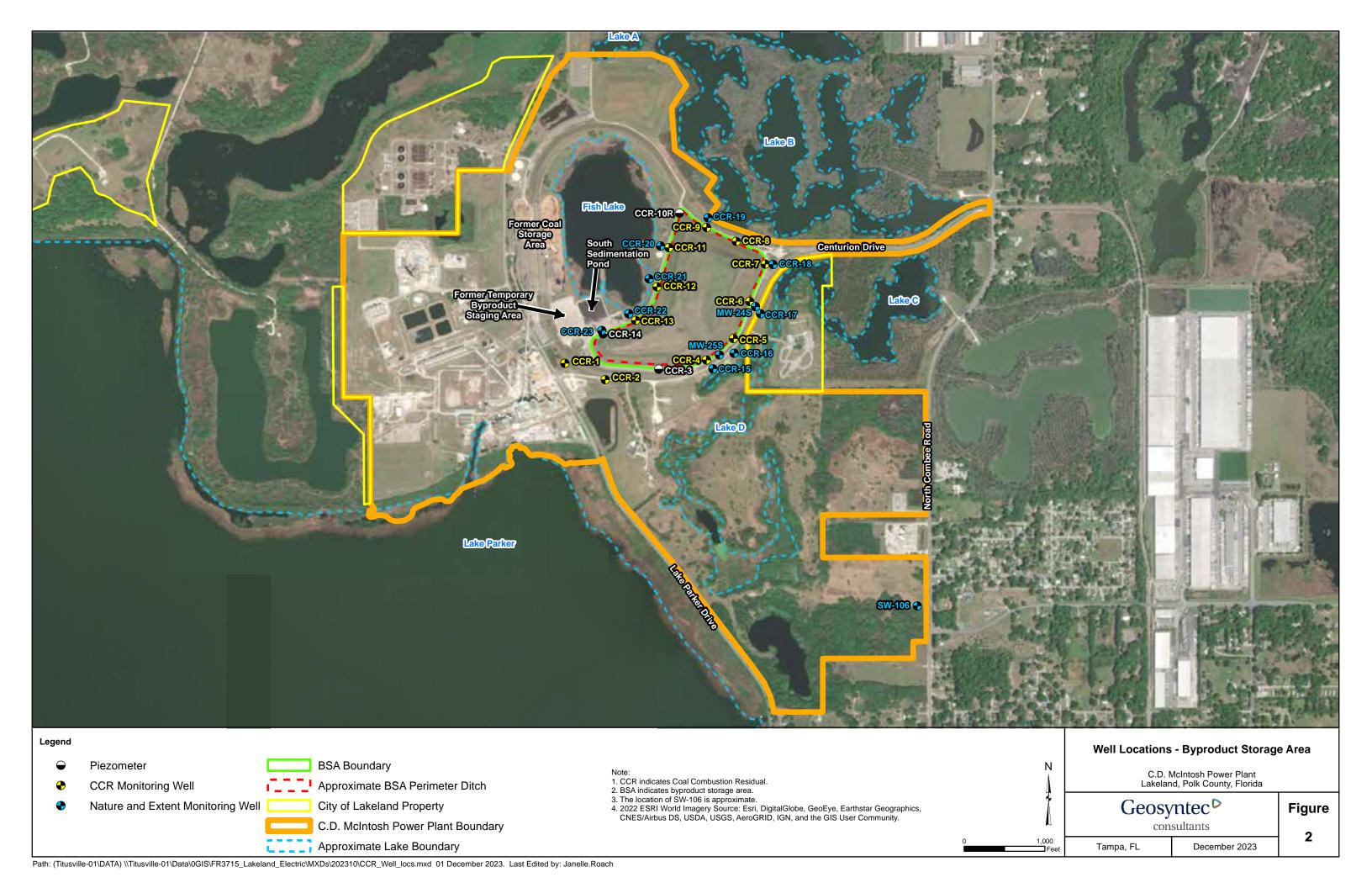
[&]quot;GWPS" indicates Groundwater Protection Standard; "mg/L" indicates milligrams per liter;

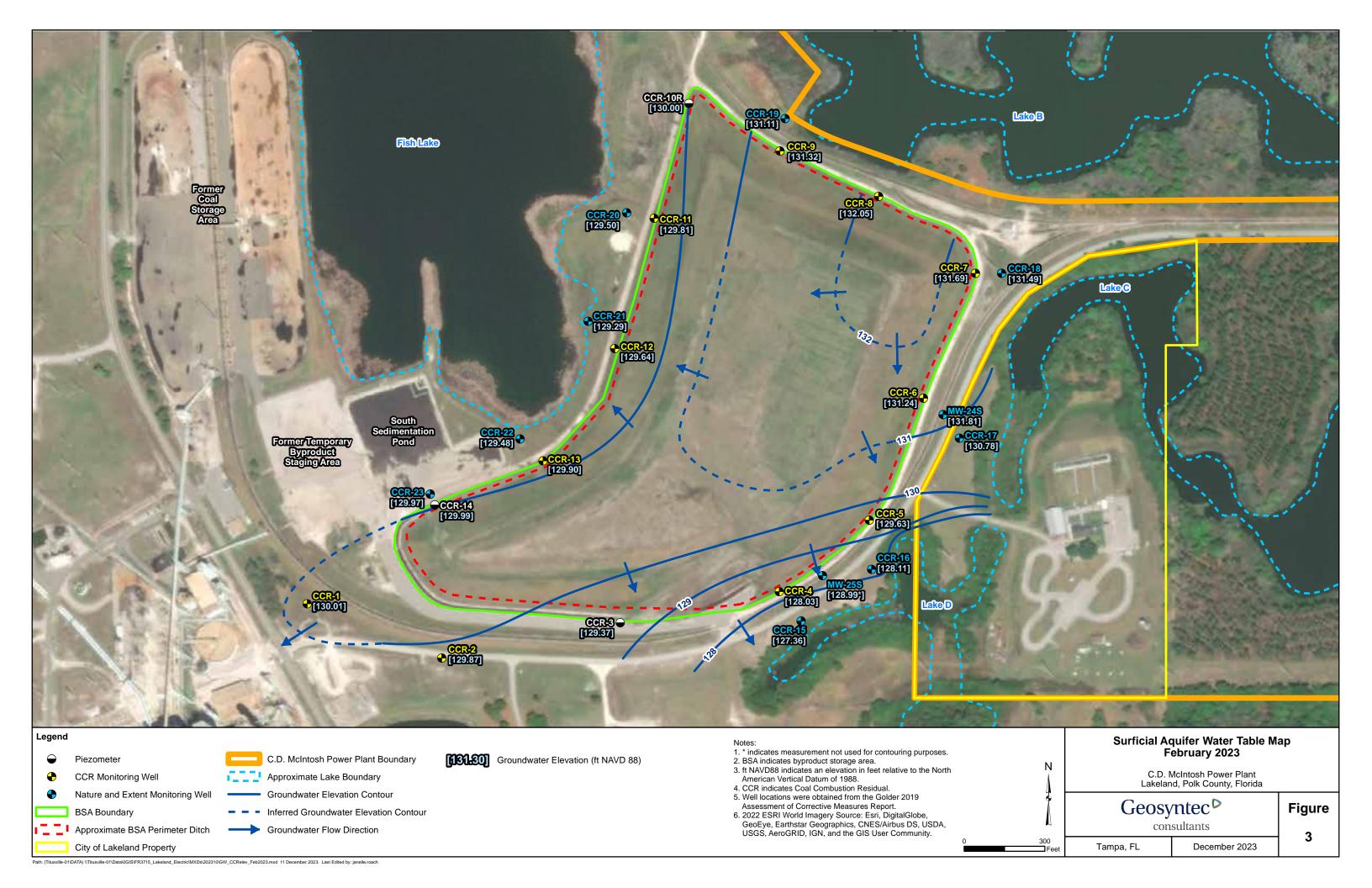
[&]quot;pCi/L" indicates picocuries per liter; "NA" indicates not applicable;

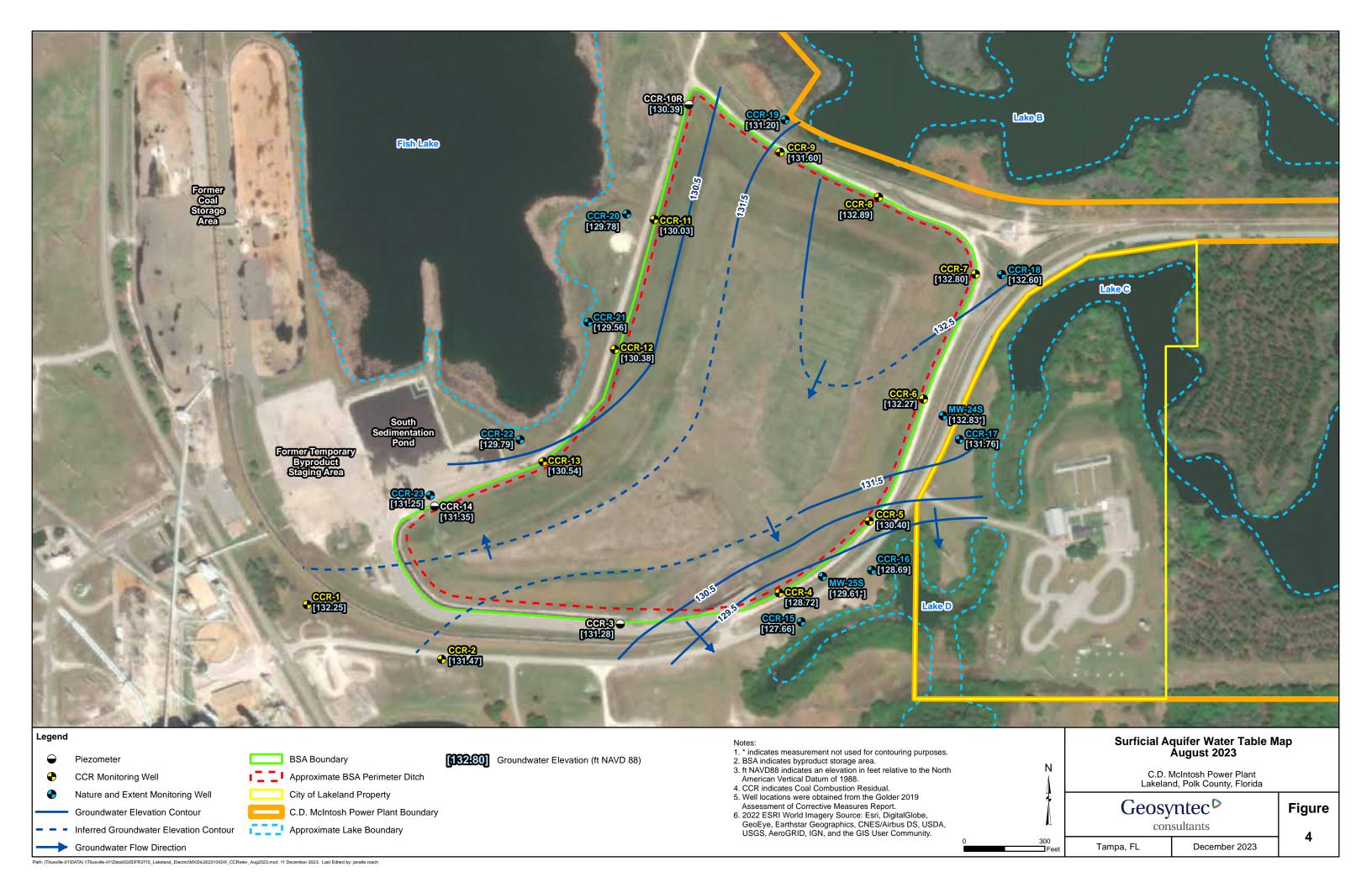
[&]quot;CCR" indicates Coal Combustion Residuals; "NC" indicates not calculated.











APPENDIX A Laboratory Analytical Reports, Field Sampling Logs, and Data Validation





1460 West McNab Road Fort Lauderdale, FL 33309 1-800-ANALYTE Phone (954) 978-6400 Phone (954) 978-2233 Fax

Lab Work Order (COC): 23B0865

08 March 2023

Thomas Johnston Lakeland Electric - McIntosh 3030 East Lake Parker Drive Lakeland, FL 33805

RE: 2023 CCR Monitoring Program

Project Location: McIntosh Plant

Dear Thomas Johnston:

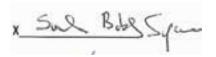
This report details the analytical results of samples collected at the above-referenced project location. These samples were received by Florida Spectrum Environmental Services at **02/21/2023 17:05**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.







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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-1A	23B0865-01	Water	Barium	12.1	ug/L	2/15/2023	15:00
CCR-1A	23B0865-01	Water	Cobalt	0.400	ug/L	2/15/2023	15:00
CCR-1A	23B0865-01	Water	Chromium	1.30	ug/L	2/15/2023	15:00
CCR-1A	23B0865-01	Water	Calcium	38100	ug/L	2/15/2023	15:00
CCR-1A	23B0865-01	Water	Boron	47.2	ug/L	2/15/2023	15:00
CCR-1B	23B0865-02	Water	Chloride	5.64	mg/L	2/15/2023	15:00
CCR-1B	23B0865-02	Water	Total Dissolved Solids	224	mg/L	2/15/2023	15:00
CCR-1B	23B0865-02	Water	Fluoride	0.0640	mg/L	2/15/2023	15:00
CCR-1B	23B0865-02	Water	Sulfate	69.8	mg/L	2/15/2023	15:00
CCR-2A	23B0865-03	Water	Chromium	1.30	ug/L	2/15/2023	14:41
CCR-2A	23B0865-03	Water	Cobalt	0.500	ug/L	2/15/2023	14:41
CCR-2A	23B0865-03	Water	Calcium	30800	ug/L	2/15/2023	14:41
CCR-2A	23B0865-03	Water	Boron	31.2	ug/L	2/15/2023	14:41
CCR-2A	23B0865-03	Water	Barium	5.90	ug/L	2/15/2023	14:41
CCR-2B	23B0865-04	Water	Sulfate	34.0	mg/L	2/15/2023	14:41
CCR-2B	23B0865-04	Water	Chloride	8.36	mg/L	2/15/2023	14:41
CCR-2B	23B0865-04	Water	Fluoride	0.107	mg/L	2/15/2023	14:41
CCR-2B	23B0865-04	Water	Total Dissolved Solids	176	mg/L	2/15/2023	14:41
CCR-4A	23B0865-05	Water	Lithium	192	ug/L	2/15/2023	17:53
CCR-4A	23B0865-05	Water	Calcium	1480000	ug/L	2/15/2023	17:53
CCR-4A	23B0865-05	Water	Cadmium	1.10	ug/L	2/15/2023	17:53
CCR-4A	23B0865-05	Water	Barium	220	ug/L	2/15/2023	17:53
CCR-4A	23B0865-05	Water	Chromium	1.90	ug/L	2/15/2023	17:53
CCR-4A	23B0865-05	Water	Beryllium	0.200	ug/L	2/15/2023	17:53

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CCR-4A	23B0865-05	Water	Boron	602	ug/L	2/15/2023	17:53
CCR-4A	23B0865-05	Water	Cobalt	3.20	ug/L	2/15/2023	17:53
CCR-4B	23B0865-06	Water	Chloride	3500	mg/L	2/15/2023	17:53
CCR-4B	23B0865-06	Water	Sulfate	1040	mg/L	2/15/2023	17:53
CCR-4B	23B0865-06	Water	Fluoride	0.521	mg/L	2/15/2023	17:53
CCR-4B	23B0865-06	Water	Total Dissolved Solids	8600	mg/L	2/15/2023	17:53
CCR-6A	23B0865-07	Water	Calcium	303000	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Chromium	1.00	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Boron	409	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Cobalt	0.500	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Magnesium	4660	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Cadmium	0.300	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Molybdenum	7.60	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Potassium	99900	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Sodium	96200	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Lithium	427	ug/L	2/15/2023	18:06
CCR-6A	23B0865-07	Water	Barium	15.0	ug/L	2/15/2023	18:06
CCR-6B	23B0865-08	Water	Total Alkalinity	124	mg/L	2/15/2023	18:06
CCR-6B	23B0865-08	Water	Bicarbonate	124	mg/L	2/15/2023	18:06
CCR-6B	23B0865-08	Water	Total Dissolved Solids	1740	mg/L	2/15/2023	18:06
CCR-6B	23B0865-08	Water	Sulfate	447	mg/L	2/15/2023	18:06
CCR-6B	23B0865-08	Water	Chloride	458	mg/L	2/15/2023	18:06
CCR-6B	23B0865-08	Water	Fluoride	0.374	mg/L	2/15/2023	18:06
CCR-13A	23B0865-09	Water	Chromium	1.90	ug/L	2/16/2023	10:36

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DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-13A	23B0865-09	Water	Lithium	135	ug/L	2/16/2023	10:36
CCR-13A	23B0865-09	Water	Beryllium	0.200	ug/L	2/16/2023	10:36
CCR-13A	23B0865-09	Water	Barium	31.8	ug/L	2/16/2023	10:36
CCR-13A	23B0865-09	Water	Boron	412	ug/L	2/16/2023	10:36
CCR-13A	23B0865-09	Water	Cobalt	2.90	ug/L	2/16/2023	10:36
CCR-13A	23B0865-09	Water	Cadmium	0.300	ug/L	2/16/2023	10:36
CCR-13A	23B0865-09	Water	Calcium	497000	ug/L	2/16/2023	10:36
CCR-13B	23B0865-10	Water	Total Dissolved Solids	2490	mg/L	2/16/2023	10:36
CCR-13B	23B0865-10	Water	Fluoride	1.34	mg/L	2/16/2023	10:36
CCR-13B	23B0865-10	Water	Sulfate	1460	mg/L	2/16/2023	10:36
CCR-13B	23B0865-10	Water	Chloride	123	mg/L	2/16/2023	10:36
CCR-12A	23B0865-11	Water	Cadmium	0.900	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Calcium	525000	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Sodium	23200	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Boron	367	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Molybdenum	12.9	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Barium	17.8	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Cobalt	0.800	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Arsenic	61.5	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Potassium	81900	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Magnesium	5370	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Chromium	0.600	ug/L	2/16/2023	12:03
CCR-12A	23B0865-11	Water	Lithium	17.7	ug/L	2/16/2023	12:03
CCR-12B	23B0865-12	Water	Total Dissolved Solids	2080	mg/L	2/16/2023	12:03

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Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-12B	23B0865-12	Water	Chloride	16.0	mg/L	2/16/2023	12:03
CCR-12B	23B0865-12	Water	Sulfate	1190	mg/L	2/16/2023	12:03
CCR-12B	23B0865-12	Water	Fluoride	0.794	mg/L	2/16/2023	12:03
CCR-12B	23B0865-12	Water	Bicarbonate	223	mg/L	2/16/2023	12:03
CCR-12B	23B0865-12	Water	Total Alkalinity	223	mg/L	2/16/2023	12:03
CCR-23A	23B0865-13	Water	Potassium	17800	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Thallium	1.80	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Calcium	238000	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Barium	8.30	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Boron	725	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Chromium	1.90	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Sodium	49400	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Magnesium	26400	ug/L	2/16/2023	8:33
CCR-23A	23B0865-13	Water	Cobalt	0.400	ug/L	2/16/2023	8:33
CCR-23B	23B0865-14	Water	Bicarbonate	37.9	mg/L	2/16/2023	8:33
CCR-23B	23B0865-14	Water	Fluoride	0.421	mg/L	2/16/2023	8:33
CCR-23B	23B0865-14	Water	Sulfate	660	mg/L	2/16/2023	8:33
CCR-23B	23B0865-14	Water	Chloride	131	mg/L	2/16/2023	8:33
CCR-23B	23B0865-14	Water	Total Alkalinity	37.9	mg/L	2/16/2023	8:33
CCR-23B	23B0865-14	Water	Total Dissolved Solids	1380	mg/L	2/16/2023	8:33
CCR-22A	23B0865-15	Water	Cobalt	1.90	ug/L	2/16/2023	8:59
CCR-22A	23B0865-15	Water	Chromium	1.70	ug/L	2/16/2023	8:59
CCR-22A	23B0865-15	Water	Magnesium	16800	ug/L	2/16/2023	8:59
CCR-22A	23B0865-15	Water	Barium	33.0	ug/L	2/16/2023	8:59

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Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-22A	23B0865-15	Water	Boron	486	ug/L	2/16/2023	8:59
CCR-22A	23B0865-15	Water	Lithium	65.4	ug/L	2/16/2023	8:59
CCR-22A	23B0865-15	Water	Calcium	329000	ug/L	2/16/2023	8:59
CCR-22A	23B0865-15	Water	Sodium	40800	ug/L	2/16/2023	8:59
CCR-22A	23B0865-15	Water	Potassium	113000	ug/L	2/16/2023	8:59
CCR-22B	23B0865-16	Water	Total Dissolved Solids	1850	mg/L	2/16/2023	8:59
CCR-22B	23B0865-16	Water	Total Alkalinity	11.6	mg/L	2/16/2023	8:59
CCR-22B	23B0865-16	Water	Chloride	135	mg/L	2/16/2023	8:59
CCR-22B	23B0865-16	Water	Sulfate	1020	mg/L	2/16/2023	8:59
CCR-22B	23B0865-16	Water	Bicarbonate	11.6	mg/L	2/16/2023	8:59
CCR-22B	23B0865-16	Water	Fluoride	1.42	mg/L	2/16/2023	8:59
CCR-21A	23B0865-17	Water	Cadmium	0.400	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Potassium	22200	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Barium	42.5	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Calcium	490000	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Lithium	31.3	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Molybdenum	25.9	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Arsenic	5.40	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Sodium	24000	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Boron	364	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Magnesium	15800	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Chromium	0.600	ug/L	2/16/2023	9:48
CCR-21A	23B0865-17	Water	Cobalt	1.40	ug/L	2/16/2023	9:48
CCR-21B	23B0865-18	Water	Total Dissolved Solids	1880	mg/L	2/16/2023	9:48

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Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-21B	23B0865-18	Water	Sulfate	966	mg/L	2/16/2023	9:48
CCR-21B	23B0865-18	Water	Bicarbonate	255	mg/L	2/16/2023	9:48
CCR-21B	23B0865-18	Water	Total Alkalinity	255	mg/L	2/16/2023	9:48
CCR-21B	23B0865-18	Water	Fluoride	0.695	mg/L	2/16/2023	9:48
CCR-21B	23B0865-18	Water	Chloride	20.5	mg/L	2/16/2023	9:48
CCR-20A	23B0865-19	Water	Barium	40.2	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Magnesium	11700	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Chromium	1.50	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Cadmium	0.800	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Boron	390	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Arsenic	49.7	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Calcium	531000	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Potassium	315000	ug/L	2/16/2023	14:30
CCR-20A	23B0865-19	Water	Sodium	196000	ug/L	2/16/2023	14:30
CCR-20B	23B0865-20	Water	Fluoride	0.213	mg/L	2/16/2023	14:30
CCR-20B	23B0865-20	Water	Sulfate	1770	mg/L	2/16/2023	14:30
CCR-20B	23B0865-20	Water	Chloride	429	mg/L	2/16/2023	14:30
CCR-20B	23B0865-20	Water	Bicarbonate	22.6	mg/L	2/16/2023	14:30
CCR-20B	23B0865-20	Water	Total Dissolved Solids	3530	mg/L	2/16/2023	14:30
CCR-20B	23B0865-20	Water	Total Alkalinity	22.6	mg/L	2/16/2023	14:30
CCR-19A	23B0865-21	Water	Sodium	65100	ug/L	2/16/2023	15:04
CCR-19A	23B0865-21	Water	Potassium	64600	ug/L	2/16/2023	15:04
CCR-19A	23B0865-21	Water	Calcium	239000	ug/L	2/16/2023	15:04
CCR-19A	23B0865-21	Water	Cadmium	0.500	ug/L	2/16/2023	15:04

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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-19A	23B0865-21	Water	Chromium	1.70	ug/L	2/16/2023	15:04
CCR-19A	23B0865-21	Water	Barium	31.8	ug/L	2/16/2023	15:04
CCR-19A	23B0865-21	Water	Cobalt	0.400	ug/L	2/16/2023	15:04
CCR-19A	23B0865-21	Water	Boron	294	ug/L	2/16/2023	15:04
CCR-19A	23B0865-21	Water	Magnesium	16900	ug/L	2/16/2023	15:04
CCR-19B	23B0865-22	Water	Fluoride	0.658	mg/L	2/16/2023	15:04
CCR-19B	23B0865-22	Water	Chloride	346	mg/L	2/16/2023	15:04
CCR-19B	23B0865-22	Water	Total Dissolved Solids	1620	mg/L	2/16/2023	15:04
CCR-19B	23B0865-22	Water	Bicarbonate	9.22	mg/L	2/16/2023	15:04
CCR-19B	23B0865-22	Water	Total Alkalinity	9.22	mg/L	2/16/2023	15:04
CCR-19B	23B0865-22	Water	Sulfate	458	mg/L	2/16/2023	15:04
CCR-5A	23B0865-23	Water	Magnesium	31900	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Lithium	2830	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Potassium	563000	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Barium	84.0	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Calcium	1890000	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Sodium	872000	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Cadmium	1.00	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Chromium	0.800	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Cobalt	3.40	ug/L	2/16/2023	16:27
CCR-5A	23B0865-23	Water	Boron	501	ug/L	2/16/2023	16:27
CCR-5B	23B0865-24	Water	Sulfate	613	mg/L	2/16/2023	16:27
CCR-5B	23B0865-24	Water	Chloride	5420	mg/L	2/16/2023	16:27
CCR-5B	23B0865-24	Water	Total Dissolved Solids	10600	mg/L	2/16/2023	16:27

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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	U	nits	Collection Date	Collection Time
CCR-5B	23B0865-24	Water	Total Alkalinity	19.8	m	ng/L	2/16/2023	16:27
CCR-5B	23B0865-24	Water	Bicarbonate	19.8	m	ng/L	2/16/2023	16:27
CCR-18A	23B0865-25	Water	Calcium	64000	uş	g/L	2/16/2023	15:53
CCR-18A	23B0865-25	Water	Boron	42.2	uį	g/L	2/16/2023	15:53
CCR-18A	23B0865-25	Water	Molybdenum	4.20	uį	g/L	2/16/2023	15:53
CCR-18A	23B0865-25	Water	Potassium	2560	uį	g/L	2/16/2023	15:53
CCR-18A	23B0865-25	Water	Chromium	1.10	uį	g/L	2/16/2023	15:53
CCR-18A	23B0865-25	Water	Sodium	1650	uį	g/L	2/16/2023	15:53
CCR-18A	23B0865-25	Water	Magnesium	3180	uį	g/L	2/16/2023	15:53
CCR-18A	23B0865-25	Water	Barium	1.00	uį	g/L	2/16/2023	15:53
CCR-18B	23B0865-26	Water	Chloride	1.66	m	ng/L	2/16/2023	15:53
CCR-18B	23B0865-26	Water	Sulfate	16.7	m	ng/L	2/16/2023	15:53
CCR-18B	23B0865-26	Water	Fluoride	0.264	m	ng/L	2/16/2023	15:53
CCR-18B	23B0865-26	Water	Total Dissolved Solids	552	m	ng/L	2/16/2023	15:53
CCR-18B	23B0865-26	Water	Total Alkalinity	171	m	ng/L	2/16/2023	15:53
CCR-18B	23B0865-26	Water	Bicarbonate	171	m	ng/L	2/16/2023	15:53
CCR-11A	23B0865-27	Water	Sodium	191000	uį	g/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Chromium	1.60	uį	g/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Lithium	13.6	uį	g/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Calcium	564000	uį	g/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Arsenic	51.3	uį	g/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Boron	360	uį	g/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Magnesium	10300	uį	g/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Potassium	322000	uį	g/L	2/16/2023	18:01

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Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-11A	23B0865-27	Water	Cadmium	1.00	ug/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Cobalt	0.900	ug/L	2/16/2023	18:01
CCR-11A	23B0865-27	Water	Barium	47.0	ug/L	2/16/2023	18:01
CCR-11B	23B0865-28	Water	Bicarbonate	11.6	mg/L	2/16/2023	18:01
CCR-11B	23B0865-28	Water	Chloride	530	mg/L	2/16/2023	18:01
CCR-11B	23B0865-28	Water	Sulfate	1720	mg/L	2/16/2023	18:01
CCR-11B	23B0865-28	Water	Total Alkalinity	11.7	mg/L	2/16/2023	18:01
CCR-11B	23B0865-28	Water	Fluoride	1.31	mg/L	2/16/2023	18:01
CCR-11B	23B0865-28	Water	Total Dissolved Solids	3670	mg/L	2/16/2023	18:01
LAKE-D-A	23B0865-29	Water	Barium	6.80	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Calcium	61000	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Lithium	9.19	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Sodium	31900	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Chromium	1.00	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Magnesium	14100	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Potassium	18000	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Cobalt	0.500	ug/L	2/17/2023	8:50
LAKE-D-A	23B0865-29	Water	Boron	34.9	ug/L	2/17/2023	8:50
LAKE-D-B	23B0865-30	Water	Total Alkalinity	42.6	mg/L	2/17/2023	8:50
LAKE-D-B	23B0865-30	Water	Sulfate	18.6	mg/L	2/17/2023	8:50
LAKE-D-B	23B0865-30	Water	Bicarbonate	42.6	mg/L	2/17/2023	8:50
LAKE-D-B	23B0865-30	Water	Fluoride	0.256	mg/L	2/17/2023	8:50
LAKE-D-B	23B0865-30	Water	Total Dissolved Solids	692	mg/L	2/17/2023	8:50
LAKE-D-B	23B0865-30	Water	Chloride	168	mg/L	2/17/2023	8:50

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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
FISH LAKE A	23B0865-31	Water	Magnesium	5560	ug/L	2/17/2023	12:29
FISH LAKE A	23B0865-31	Water	Calcium	103000	ug/L	2/17/2023	12:29
FISH LAKE A	23B0865-31	Water	Molybdenum	2.10	ug/L	2/17/2023	12:29
FISH LAKE A	23B0865-31	Water	Sodium	25200	ug/L	2/17/2023	12:29
FISH LAKE A	23B0865-31	Water	Barium	4.90	ug/L	2/17/2023	12:29
FISH LAKE A	23B0865-31	Water	Potassium	34400	ug/L	2/17/2023	12:29
FISH LAKE A	23B0865-31	Water	Boron	152	ug/L	2/17/2023	12:29
FISH LAKE A	23B0865-31	Water	Lithium	5.26	ug/L	2/17/2023	12:29
FISH LAKE B	23B0865-32	Water	Bicarbonate	78.9	mg/L	2/17/2023	12:29
FISH LAKE B	23B0865-32	Water	Fluoride	0.566	mg/L	2/17/2023	12:29
FISH LAKE B	23B0865-32	Water	Total Alkalinity	85.8	mg/L	2/17/2023	12:29
FISH LAKE B	23B0865-32	Water	Total Dissolved Solids	550	mg/L	2/17/2023	12:29
FISH LAKE B	23B0865-32	Water	Sulfate	200	mg/L	2/17/2023	12:29
FISH LAKE B	23B0865-32	Water	Chloride	64.9	mg/L	2/17/2023	12:29





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-01 **Client Sample ID:** CCR-1A Matrix: Water

Collection Date: 02/15/23 15:00 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst

Total Recoverable Metals by EPA 200 Series Methods

Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Barium	12.1		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Boron	47.2		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Calcium	38100		ug/L	1	5.96	50.0	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Chromium	1.30	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Cobalt	0.400	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:21	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 09:53	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 13:54	JD



Lakeland FL, 33805

Parameter



Report To: Thomas Johnston

Result

QC

Report Printed: 3/8/2023 Lakeland Electric - McIntosh Work Order # 23B0865 3030 East Lake Parker Drive

> **Project:** 2023 CCR Monitoring Program

> > McIntosh Plant

Method

Date Ext.

Date Analy.

Analyst

02/15/23 15:00 **Collection Date:** Lab ID: 23B0865-02 **Received Date:** 02/21/23 17:05 **Client Sample ID:** CCR-1B Matrix: Water

Units

Collected By: Client

PQL

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Laboratory Analysis Report

MDL

Dil

Wet Chemistry									
Chloride	5.64	mg/L	1	0.126	0.500	EPA 300.0	02/22 17:00	02/23 00:22	PK
Fluoride	0.0640	mg/L	1	0.00520	0.0250	EPA 300.0	02/22 17:00	02/23 00:22	PK
Sulfate	69.8	mg/L	1	0.0953	0.500	EPA 300.0	02/22 17:00	02/23 00:22	PK
Total Dissolved Solids	224	mg/L	2	20.0	60.0	SM 2540C	02/22 12:30	02/23 21:01	LE





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-03 Client Sample ID: CCR-2A Matrix: Water **Collection Date:** 02/15/23 14:41 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by F	EPA 200 Seri	es Metl	ıods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Barium	5.90		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Boron	31.2		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Calcium	30800		ug/L	1	5.96	50.0	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Chromium	1.30	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Cobalt	0.500	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:23	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 09:56	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 13:56	JD





Report To:
Thomas Johnston
Lakeland Electric - McIntosh

3030 East Lake Parker Drive Lakeland FL, 33805

Matrix:

Parameter

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PQL

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Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-04 Client Sample ID: CCR-2B

Water

Result

QC

Units

Collection Date: 02/15/23 14:41 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Wet Chemistry									
vet chemistry									
Chloride	8.36	mg/L	1	0.126	0.500	EPA 300.0	02/22 17:00	02/23 00:38	PK
Fluoride	0.107	mg/L	1	0.00520	0.0250	EPA 300.0	02/22 17:00	02/23 00:38	PK
Sulfate	34.0	mg/L	1	0.0953	0.500	EPA 300.0	02/22 17:00	02/23 00:38	PK
Total Dissolved Solids	176	mg/L	2	20.0	60.0	SM 2540C	02/22 12:30	02/23 21:01	LE





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-05 **Client Sample ID:** CCR-4A Matrix: Water

02/15/23 17:53 **Collection Date: Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by F	CPA 200 Serie	es Metl	ıods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Barium	220		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Beryllium	0.200	I	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Boron	602		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Cadmium	1.10		ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Calcium	1480000		ug/L	100	596	5000	EPA 200.7/3010	02/22 11:00	02/22 15:08	JD
Chromium	1.90	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Cobalt	3.20		ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Lithium	192		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:26	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 09:59	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 13:58	JD





Lakeland FL, 33805

Parameter

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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-06 Client Sample ID: CCR-4B

Result

QC

Units

Matrix: Water

Collection Date: 02/15/23 17:53 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Wet Chemistry										
Chloride	3500	mg	y/L	50	6.30	25.0	EPA 300.0	02/22 17:00	02/23 00:54	PK
Fluoride	0.521	mg	ŗ/L	10	0.0520	0.250	EPA 300.0	02/23 17:00	02/24 06:49	OC
Sulfate	1040	mg	;/L	50	4.76	25.0	EPA 300.0	02/22 17:00	02/23 00:54	PK
Total Dissolved Solids	8600	mg	ţ/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-07
Client Sample ID: CCR-6A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/15/23 18:06 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by F	EPA 200 Seri	es Metl	ıods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Barium	15.0		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Boron	409		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Cadmium	0.300	I	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Calcium	303000		ug/L	10	59.6	500	EPA 200.7/3010	02/22 11:00	02/22 16:33	JD
Chromium	1.00	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Cobalt	0.500	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Lithium	427		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:29	JD
Magnesium	4660		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:02	JD
Molybdenum	7.60	I	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Potassium	99900		ug/L	10	109	500	EPA 200.7/3010	02/22 11:00	02/22 16:33	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD
Sodium	96200		ug/L	10	5210	20000	EPA 200.7/3010	02/22 11:00	02/22 16:33	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 13:59	JD





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Work Order #

23B0865

Project:

2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-08**Client Sample ID:** CCR-6B Matrix: Water

Collection Date: Received Date: 02/21/23 17:05

02/15/23 18:06

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	124		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Bicarbonate	124		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Chloride	458		mg/L	20	2.52	10.0	EPA 300.0	02/22 17:00	02/23 01:11	PK
Fluoride	0.374		mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 07:06	OC
Sulfate	447		mg/L	20	1.91	10.0	EPA 300.0	02/22 17:00	02/23 01:11	PK
Total Dissolved Solids	1740		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-09
Client Sample ID: CCR-13A
Matrix: Water

Collection Date: 02/16/23 10:36 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Total Recoverable Metals by E	PA 200 Seri	es Metl	nods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Barium	31.8		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Beryllium	0.200	I	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Boron	412		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Cadmium	0.300	I	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Calcium	497000		ug/L	100	596	5000	EPA 200.7/3010	02/22 11:00	02/22 15:18	JD
Chromium	1.90	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Cobalt	2.90		ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Lithium	135		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:31	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:06	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:01	JD





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Matrix:

Parameter

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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-10 Client Sample ID: CCR-13B

CCR-13B Water

Result

QC

Units

Collection Date: 02/16/23 10:36 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Wet Chemistry									
Chloride	123	mg/L	20	2.52	10.0	EPA 300.0	02/22 17:00	02/23 01:27	PK
Fluoride	1.34	mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 07:22	OC
Sulfate	1460	mg/L	20	1.91	10.0	EPA 300.0	02/22 17:00	02/23 01:27	PK
Total Dissolved Solids	2490	mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-11 Client Sample ID: CCR-12A Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 12:03 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Arsenic	61.5		ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Barium	17.8		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Boron	367		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Cadmium	0.900	I	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Calcium	525000		ug/L	100	596	5000	EPA 200.7/3010	02/22 11:00	02/22 15:20	JD
Chromium	0.600	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Cobalt	0.800	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Lithium	17.7	I	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:34	JD
Magnesium	5370		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:09	JD
Molybdenum	12.9		ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Potassium	81900		ug/L	1	10.9	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Sodium	23200		ug/L	1	521	2000	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:03	JD





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

02/16/23 12:03

Lab ID: 23B0865-12 **Client Sample ID:** CCR-12B Matrix: Water

Collection Date: Received Date: 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	223		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Bicarbonate	223		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Chloride	16.0		mg/L	20	2.52	10.0	EPA 300.0	02/22 17:30	02/23 06:07	PK
Fluoride	0.794		mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 07:39	OC
Sulfate	1190		mg/L	20	1.91	10.0	EPA 300.0	02/22 17:30	02/23 06:07	PK
Total Dissolved Solids	2080		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-13
Client Sample ID: CCR-23A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 08:33 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by I	EPA 200 Seri	es Metl	ıods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Barium	8.30		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Boron	725		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Calcium	238000		ug/L	1	5.96	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Chromium	1.90	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Cobalt	0.400	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:36	JD
Magnesium	26400		ug/L	10	24.8	200	EPA 200.7/3010	02/22 11:00	02/22 15:57	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:12	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Potassium	17800		ug/L	1	10.9	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Sodium	49400		ug/L	1	521	2000	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD
Thallium	1.80	I	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:05	JD





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-14
Client Sample ID: CCR-23B
Matrix: Water

Collection Date: 02/16/23 08:33 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	37.9	J3	mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Bicarbonate	37.9		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Chloride	131		mg/L	10	1.26	5.00	EPA 300.0	02/22 17:30	02/23 06:24	PK
Fluoride	0.421		mg/L	1	0.00520	0.0250	EPA 300.0	02/23 17:00	02/24 07:55	OC
Sulfate	660		mg/L	10	0.953	5.00	EPA 300.0	02/22 17:30	02/23 06:24	PK
Total Dissolved Solids	1380		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-15
Client Sample ID: CCR-22A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 08:59 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by I	EPA 200 Seri	es Metl	ıods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Barium	33.0		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Boron	486		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Calcium	329000		ug/L	10	59.6	500	EPA 200.7/3010	02/22 11:00	02/22 16:35	JD
Chromium	1.70	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Cobalt	1.90		ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Lithium	65.4		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:39	JD
Magnesium	16800		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:15	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Potassium	113000		ug/L	10	109	500	EPA 200.7/3010	02/22 11:00	02/22 16:35	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD
Sodium	40800		ug/L	10	5210	20000	EPA 200.7/3010	02/22 11:00	02/22 16:35	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:07	JD





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Work Order # 2

23B0865

Project:

2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-16 Client Sample ID: CCR-22B Matrix: Water **Collection Date:** 02/16/23 08:59 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	11.6		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Bicarbonate	11.6		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Chloride	135		mg/L	20	2.52	10.0	EPA 300.0	02/22 17:30	02/23 06:40	PK
Fluoride	1.42		mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 08:12	OC
Sulfate	1020		mg/L	20	1.91	10.0	EPA 300.0	02/22 17:30	02/23 06:40	PK
Total Dissolved Solids	1850		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-17
Client Sample ID: CCR-21A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 09:48 **Received Date:** 02/21/23 17:05

PQL

Collected By: Client

Method

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by E	PA 200 Serie	es Metl	nods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Arsenic	5.40	I	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Barium	42.5		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Boron	364		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Cadmium	0.400	I	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Calcium	490000		ug/L	100	596	5000	EPA 200.7/3010	02/22 11:00	02/22 15:25	JD
Chromium	0.600	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Cobalt	1.40		ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Lithium	31.3		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:42	JD
Magnesium	15800		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:18	JD
Molybdenum	25.9		ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Potassium	22200		ug/L	1	10.9	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Sodium	24000		ug/L	1	521	2000	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:09	JD





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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-18
Client Sample ID: CCR-21B
Matrix: Water

Collection Date: 02/16/23 09:48 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	255		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Bicarbonate	255		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Chloride	20.5		mg/L	10	1.26	5.00	EPA 300.0	02/22 17:30	02/23 06:57	PK
Fluoride	0.695		mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 08:28	OC
Sulfate	966		mg/L	10	0.953	5.00	EPA 300.0	02/22 17:30	02/23 06:57	PK
Total Dissolved Solids	1880		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-19
Client Sample ID: CCR-20A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 14:30 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by I	EPA 200 Serio	es Metl	10ds							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Arsenic	49.7		ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Barium	40.2		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Boron	390		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Cadmium	0.800	I	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Calcium	531000		ug/L	10	59.6	500	EPA 200.7/3010	02/22 11:00	02/22 16:37	JD
Chromium	1.50	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:44	JD
Magnesium	11700		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:20	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Potassium	315000		ug/L	10	109	500	EPA 200.7/3010	02/22 11:00	02/22 16:37	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD
Sodium	196000		ug/L	10	5210	20000	EPA 200.7/3010	02/22 11:00	02/22 16:37	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:37	JD





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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-20 Client Sample ID: CCR-20B Matrix: Water **Collection Date:** 02/16/23 14:30 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	22.6		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Bicarbonate	22.6		mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Chloride	429		mg/L	20	2.52	10.0	EPA 300.0	02/22 17:30	02/23 07:13	PK
Fluoride	0.213		mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 08:45	OC
Sulfate	1770		mg/L	20	1.91	10.0	EPA 300.0	02/22 17:30	02/23 07:13	PK
Total Dissolved Solids	3530		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-21 Client Sample ID: CCR-19A Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 15:04 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Antimony	ND	U	ug/L	1 1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Arsenic	ND	U	ug/L	1 1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Barium	31.8		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Boron	294		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Cadmium	0.500	I	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Calcium	239000		ug/L	10	59.6	500	EPA 200.7/3010	02/22 11:00	02/22 16:39	JD
Chromium	1.70	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Cobalt	0.400	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 10:58	JD
Magnesium	16900		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:36	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Potassium	64600		ug/L	10	109	500	EPA 200.7/3010	02/22 11:00	02/22 16:39	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD
Sodium	65100		ug/L	10	5210	20000	EPA 200.7/3010	02/22 11:00	02/22 16:39	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:51	JD





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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-22
Client Sample ID: CCR-19B
Matrix: Water

Collection Date: 02/16/23 15:04 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	9.22	I	mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Bicarbonate	9.22	I	mg/L	1	3.74	10.0	EPA 310.2	02/22 17:29	02/22 17:29	OC
Chloride	346		mg/L	10	1.26	5.00	EPA 300.0	02/22 17:30	02/23 07:30	PK
Fluoride	0.658		mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 10:56	OC
Sulfate	458		mg/L	10	0.953	5.00	EPA 300.0	02/22 17:30	02/23 07:30	PK
Total Dissolved Solids	1620		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-23
Client Sample ID: CCR-5A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 16:27 **Received Date:** 02/21/23 17:05

Collected By: Client

Method

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by E	EPA 200 Seri	es Metl	ıods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Barium	84.0		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Boron	501		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Cadmium	1.00		ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Calcium	1890000		ug/L	100	596	5000	EPA 200.7/3010	02/22 11:00	02/22 15:35	JD
Chromium	0.800	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Cobalt	3.40		ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Lithium	2830		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 11:00	JD
Magnesium	31900		ug/L	10	24.8	200	EPA 200.7/3010	02/22 11:00	02/22 15:59	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:39	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Potassium	563000		ug/L	100	1090	5000	EPA 200.7/3010	02/22 11:00	02/22 15:35	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD
Sodium	872000		ug/L	100	52100	200000	EPA 200.7/3010	02/22 11:00	02/22 15:35	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:53	JD





Lakeland FL, 33805

Matrix:

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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-24**Client Sample ID:** CCR-5B

Water

02/16/23 16:27 **Collection Date: Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	19.8		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	19.8		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	5420		mg/L	100	12.6	50.0	EPA 300.0	02/23 17:00	02/24 14:31	OC
Fluoride	ND	U	mg/L	5	0.0260	0.125	EPA 300.0	02/22 17:30	02/23 07:46	PK
Sulfate	613		mg/L	40	3.81	20.0	EPA 300.0	02/23 17:00	02/24 09:01	OC
Total Dissolved Solids	10600		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-25 Client Sample ID: CCR-18A Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 15:53 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals	by EPA 200 Seri	es Metl	nods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Barium	1.00		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Boron	42.2		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Calcium	64000		ug/L	1	5.96	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Chromium	1.10	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 11:04	JD
Magnesium	3180		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:42	JD
Molybdenum	4.20	I	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Potassium	2560		ug/L	1	10.9	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Sodium	1650	I	ug/L	1	521	2000	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:55	JD





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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-26 Client Sample ID: CCR-18B Matrix: Water **Collection Date:** 02/16/23 15:53 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	171		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	171		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	1.66		mg/L	1	0.126	0.500	EPA 300.0	02/22 17:00	02/23 04:45	PK
Fluoride	0.264		mg/L	1	0.00520	0.0250	EPA 300.0	02/22 17:00	02/23 04:45	PK
Sulfate	16.7		mg/L	1	0.0953	0.500	EPA 300.0	02/22 17:00	02/23 04:45	PK
Total Dissolved Solids	552		mg/L	2	20.0	60.0	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-27
Client Sample ID: CCR-11A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/16/23 18:01 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by I	EPA 200 Seri	es Metl	iods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Arsenic	51.3		ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Barium	47.0		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Boron	360		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Cadmium	1.00		ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Calcium	564000		ug/L	10	59.6	500	EPA 200.7/3010	02/22 11:00	02/22 16:40	JD
Chromium	1.60	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Cobalt	0.900	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Lithium	13.6	I	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 11:07	JD
Magnesium	10300		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:45	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Potassium	322000		ug/L	10	109	500	EPA 200.7/3010	02/22 11:00	02/22 16:40	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD
Sodium	191000		ug/L	10	5210	20000	EPA 200.7/3010	02/22 11:00	02/22 16:40	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:57	JD





Report Printed: Work Order #

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23B0865

Project:

2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-28**Client Sample ID:** CCR-11B Matrix: Water

Collection Date: Received Date: 02/21/23 17:05

02/16/23 18:01

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	11.7		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	11.6		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	530		mg/L	20	2.52	10.0	EPA 300.0	02/22 17:30	02/23 08:03	PK
Fluoride	1.31		mg/L	2	0.0104	0.0500	EPA 300.0	02/23 17:00	02/24 11:13	OC
Sulfate	1720		mg/L	20	1.91	10.0	EPA 300.0	02/22 17:30	02/23 08:03	PK
Total Dissolved Solids	3670		mg/L	4	40.0	120	SM 2540C	02/22 12:30	02/23 21:01	LE





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PQL

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0865-29
Client Sample ID: LAKE-D-A
Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/17/23 08:50 **Received Date:** 02/21/23 17:05

Method

Collected By: Client

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals by E	CPA 200 Serie	es Metl	ıods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Barium	6.80		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Boron	34.9		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Calcium	61000		ug/L	1	5.96	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Chromium	1.00	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Cobalt	0.500	I	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Lithium	9.19	I	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 11:09	JD
Magnesium	14100		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:48	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Potassium	18000		ug/L	1	10.9	50.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Sodium	31900		ug/L	1	521	2000	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 14:59	JD

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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-30
Client Sample ID: LAKE-D-B
Matrix: Water

Collection Date: 02/17/23 08:50 **Received Date:** 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	42.6		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	42.6		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	168		mg/L	2	0.252	1.00	EPA 300.0	02/23 17:00	02/24 11:29	OC
Fluoride	0.256		mg/L	1	0.00520	0.0250	EPA 300.0	02/22 17:30	02/23 08:19	PK
Sulfate	18.6		mg/L	1	0.0953	0.500	EPA 300.0	02/22 17:30	02/23 08:19	PK
Total Dissolved Solids	692		mg/L	2	20.0	60.0	SM 2540C	02/22 12:30	02/23 21:01	LE





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0865-31 **Client Sample ID:** FISH LAKE A Matrix: Water

Result

QC

Units

Parameter

Collection Date: Received Date: 02/21/23 17:05

PQL

02/17/23 12:29

Date Ext.

Date Analy.

Analyst

Collected By: Client

Method

Laboratory Analysis Report

MDL

Dil

Total Recoverable Met	tals by EPA 200 Serio	es Metl	nods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Barium	4.90		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Boron	152		ug/L	1	0.616	10.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Calcium	103000		ug/L	1	5.96	50.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Chromium	ND	U	ug/L	1	0.513	5.00	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Lithium	5.26	I	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 11:00	02/23 11:12	JD
Magnesium	5560		ug/L	1	2.48	20.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/23 11:00	02/24 10:51	JD
Molybdenum	2.10	I	ug/L	1	1.43	10.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Potassium	34400		ug/L	1	10.9	50.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Sodium	25200		ug/L	1	521	2000	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/22 11:00	02/22 15:00	JD





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

02/17/23 12:29

Lab ID: 23B0865-32 **Client Sample ID:** FISH LAKE B Matrix: Water

Collection Date: Received Date: 02/21/23 17:05

Collected By: Client

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	85.8		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	78.9		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	64.9		mg/L	2	0.252	1.00	EPA 300.0	02/22 17:30	02/23 09:58	PK
Fluoride	0.566		mg/L	2	0.0104	0.0500	EPA 300.0	02/22 17:30	02/23 09:58	PK
Sulfate	200		mg/L	2	0.191	1.00	EPA 300.0	02/22 17:30	02/23 09:58	PK
Total Dissolved Solids	550		mg/L	2	20.0	60.0	SM 2540C	02/22 12:30	02/23 21:01	LE





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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

	•	Wet Chemi	stry - Q	uality Con	trol					
		Danastina		C il	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 23B0798 - Default Preparation Gen	Chem									
Blank (23B0798-BLK1)				Prepared &	: Analyzed:	02/22/2023	3			
Total Alkalinity	ND	10.0	mg/L							U
LCS (23B0798-BS1)				Prepared &	Analyzed:	02/22/202	3			
Total Alkalinity	246	10.0	mg/L	250.0		98	90-110			
Duplicate (23B0798-DUP1)	Sour	rce: 23B0847-	04	Prepared &	: Analyzed:	02/22/2023	3			
Total Alkalinity	61.0	10.0	mg/L		60.6			0.7	20	
Matrix Spike (23B0798-MS1)	Sour	rce: 23B0847-	04	Prepared &	: Analyzed:	02/22/202	3			
Total Alkalinity	277	10.0	mg/L	250.0	60.6	87	90-110			Ј3
Matrix Spike (23B0798-MS2)	Sour	rce: 23B0865-	14	Prepared &	: Analyzed:	02/22/202	3			
Total Alkalinity	260	10.0	mg/L	250.0	37.9	89	90-110			Ј3
Batch 23B0805 - Default Prep GenChem										
Blank (23B0805-BLK1)				Prepared &	: Analyzed:	02/22/2023	3			
Fluoride	ND	0.0250	mg/L							U
Sulfate	ND	0.500	"							U
Chloride	ND	0.500	"							U
LCS (23B0805-BS1)				Prepared &	Analyzed:	02/22/202	3			
Fluoride	2.46	0.0250	mg/L	2.500		99	90-110			
Sulfate	50.5	0.500	"	50.00		101	90-110			
Chloride	50.3	0.500	"	50.00		101	90-110			
Duplicate (23B0805-DUP1)	Sour	rce: 23B0902-	01	Prepared &	Analyzed:	02/22/2023	3			
Fluoride	0.405	0.0250	mg/L		0.420			4	20	
Chloride	1.34	0.500	"		1.34			0.1	20	
Sulfate	4.20	0.500	"		4.25			1	20	

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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

	,	Wet Chemi	stry - Q	uality Con	itrol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0805 - Default Prep GenChem										
Matrix Spike (23B0805-MS1)	Sou	rce: 23B0902-	01	Prepared &	Analyzed:	02/22/202	3			
Fluoride	2.58	0.0250	mg/L	2.500	0.420	86	90-110			J3
Chloride	49.6	0.500	"	50.00	1.34	97	90-110			
Sulfate	53.2	0.500	"	50.00	4.25	98	90-110			
Matrix Spike (23B0805-MS2)	Sou	rce: 23B0865-	26	Prepared: (02/22/2023	Analyzed: (02/23/2023			
Fluoride	2.51	0.0250	mg/L	2.500	0.264	90	90-110			
Chloride	50.4	0.500	"	50.00	1.66	97	90-110			
Sulfate	64.3	0.500	"	50.00	16.7	95	90-110			
Batch 23B0806 - Default Prep GenChem Blank (23B0806-BLK1)										
				Prepared: (02/22/2023 /	Analyzed: (02/23/2023			
,	ND	0.0250	mg/L	Prepared: ()2/22/2023 /	Analyzed: (02/23/2023			U
Fluoride	ND ND	0.0250 0.500	mg/L	Prepared: (02/22/2023 /	Analyzed: (02/23/2023			U U
Fluoride Sulfate			_	Prepared: (02/22/2023 1	Analyzed: (02/23/2023			
Fluoride Sulfate Chloride LCS (23B0806-BS1)	ND	0.500	"	•	02/22/2023 1					U
Fluoride Sulfate Chloride LCS (23B0806-BS1)	ND	0.500	"	•						U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride	ND ND	0.500 0.500	"	Prepared: (Analyzed: (02/23/2023			U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride Sulfate	ND ND	0.500 0.500 0.0250	mg/L	Prepared: (Analyzed: (02/23/2023 90-110			U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride Sulfate Chloride	2.47 50.7 50.5	0.500 0.500 0.0250 0.500	mg/L	Prepared: (2.500 50.00 50.00		Analyzed: (99 101 101	90-110 90-110 90-110			U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride Sulfate Chloride Duplicate (23B0806-DUP1)	2.47 50.7 50.5	0.500 0.500 0.0250 0.500 0.500	mg/L	Prepared: (2.500 50.00 50.00)2/22/2023 /	Analyzed: (99 101 101	90-110 90-110 90-110	12	20	U
Fluoride Sulfate Chloride	2.47 50.7 50.5 Sou	0.500 0.500 0.0250 0.500 0.500 rce: 23C0243-	mg/L "	Prepared: (2.500 50.00 50.00)2/22/2023	Analyzed: (99 101 101	90-110 90-110 90-110	12 2	20 20	U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride Sulfate Chloride Duplicate (23B0806-DUP1) Fluoride	2.47 50.7 50.5 Sou 0.0980	0.500 0.500 0.0250 0.500 0.500 rce: 23C0243- 0.0250	mg/L " " " " " " " " " " " " " " " " " " "	Prepared: (2.500 50.00 50.00	02/22/2023 /	Analyzed: (99 101 101	90-110 90-110 90-110			U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride Sulfate Chloride Duplicate (23B0806-DUP1) Fluoride Sulfate Chloride	2.47 50.7 50.5 Sou 0.0980 132 13.8	0.500 0.500 0.500 0.500 0.500 rce: 23C0243- 0.0250 0.500	mg/L " " " " " " " " " " " " " " " " " " "	Prepared: (2.500 50.00 50.00 Prepared: (02/22/2023 A 02/22/2023 A 0.111 130	Analyzed: (99 101 101 Analyzed: (90-110 90-110 90-110 90-110 90-2/23/2023	2	20	U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride Sulfate Chloride Duplicate (23B0806-DUP1) Fluoride Sulfate	2.47 50.7 50.5 Sou 0.0980 132 13.8	0.500 0.500 0.0250 0.500 0.500 rce: 23C0243- 0.0250 0.500 0.500	mg/L " " 03 mg/L " " 03	Prepared: (2.500 50.00 50.00 Prepared: (02/22/2023 A 0.111 130 13.8	Analyzed: (99 101 101 Analyzed: (90-110 90-110 90-110 90-110 90-2/23/2023	2	20	U
Fluoride Sulfate Chloride LCS (23B0806-BS1) Fluoride Sulfate Chloride Duplicate (23B0806-DUP1) Fluoride Sulfate Chloride Matrix Spike (23B0806-MS1)	2.47 50.7 50.5 Sou 0.0980 132 13.8	0.500 0.500 0.500 0.500 0.500 rce: 23C0243- 0.0250 0.500 0.500	mg/L " " " " " " " " " " " " " " " " " " "	Prepared: (2.500 50.00 50.00 Prepared: (02/22/2023 A 0.111 130 13.8 02/22/2023 A	Analyzed: (99 101 101 Analyzed: (90-110 90-110 90-110 90-110 02/23/2023	2	20	UUU

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Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

	,	Wet Chemis	stry - Q	uality Con	itrol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0806 - Default Prep GenChem										
Matrix Spike (23B0806-MS2)	Sou	rce: 23B0878-	01	Prepared: (02/22/2023	Analyzed: (02/23/2023			
Fluoride Sulfate Chloride	2.82 63.0 77.6	0.0250 0.500 0.500	mg/L "	2.500 50.00 50.00	0.577 15.0 31.0	90 96 93	90-110 90-110 90-110			
Batch 23B0839 - Default Prep GenChem										
Blank (23B0839-BLK1)				Prepared: (02/22/2023	Analyzed: (02/23/2023			
Total Dissolved Solids	ND	30.0	mg/L							U
LCS (23B0839-BS1)				Prepared: (02/22/2023	Analyzed: (02/23/2023			
Total Dissolved Solids	516	120	mg/L	500.0		103	80-120			
Duplicate (23B0839-DUP1)	Sou	rce: 23B0865-	10	Prepared: (02/22/2023	Analyzed: (02/23/2023			
Total Dissolved Solids	2470	120	mg/L		2490			0.806	20	
Duplicate (23B0839-DUP2)	Sou	rce: 23B0878-	01	Prepared: (02/22/2023	Analyzed: (02/23/2023			
Total Dissolved Solids	160	60.0	mg/L	-	166	· ·		3.68	20	
Batch 23B0853 - Default Prep GenChem										
Blank (23B0853-BLK1)				Prepared: (02/23/2023	Analyzed: (02/24/2023			
Fluoride	ND	0.0250	mg/L							U
Chloride	ND	0.500	"							U
Sulfate	ND	0.500	"							U
LCS (23B0853-BS1)				Prepared: (02/23/2023	Analyzed: (02/24/2023			
Fluoride	2.53	0.0250	mg/L	2.500		101	90-110			
Chloride	50.5	0.500	"	50.00		101	90-110			
Sulfate	50.6	0.500	"	50.00		101	90-110			

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Project: 2023 CCR Monitoring Program

McIntosh Plant

	V	Vet Chemi	stry - Q	uality Con	trol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
•		LIIIII	Units	Level	Result	70KEC	Limits	KPD	LIIIII	Notes
<u> Batch 23B0853 - Default Prep GenCh</u> Duplicate (23B0853-DUP1)		ce: 23B0928-	.01	Prenared: (02/23/2023	Analyzed: (02/24/2023			
Fluoride	0.343	0.0250	mg/L	Tropurou.	0.354	mary zea.	72,2 1,2023	3	20	
Sulfate	4.70	0.500	mg/L		4.77			1	20	
Chloride	7.17	0.500	"		7.64			6	20	
Matrix Spike (23B0853-MS1)	Sour	ce: 23B0928-	01	Prepared: 0	02/23/2023	Analyzed: (02/24/2023			
Fluoride	2.52	0.0250	mg/L	2.500	0.354	87	90-110			Ј3
Chloride	55.8	0.500	"	50.00	7.64	96	90-110			
Sulfate	54.6	0.500	"	50.00	4.77	100	90-110			
Matrix Spike (23B0853-MS2)	Sour	ce: 23B0939-	02	Prepared: 0	02/23/2023	Analyzed: (02/24/2023			
Fluoride	2.44	0.0250	mg/L	2.500	0.221	89	90-110			Ј3
Chloride	64.2	0.500	"	50.00	16.6	95	90-110			
Sulfate	50.0	0.500	"	50.00	0.780	99	90-110			
Batch 23C0147 - Default Preparation	GenChem									
Blank (23C0147-BLK1)				Prepared &	Analyzed:	02/28/2023	3			
Total Alkalinity	ND	10.0	mg/L							U
LCS (23C0147-BS1)				Prepared &	Analyzed:	02/28/2023	3			
Total Alkalinity	248	10.0	mg/L	250.0		99	90-110			
Duplicate (23C0147-DUP1)	Sour	ce: 23B0865-	28	Prepared &	Analyzed:	02/28/2023	3			
Total Alkalinity	11.6	10.0	mg/L		11.7			0.9	20	
Matrix Spike (23C0147-MS1)	Sour	ce: 23B0865-	28	Prepared &	Analyzed:	02/28/2023	3			
Total Alkalinity	244	10.0	mg/L	250.0	11.7	93	90-110			





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Project: 2023 CCR Monitoring Program

McIntosh Plant

	W	et Chemis	stry - Q	uality Con	trol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch 23C0147 - Default Preparation GenCho										
Matrix Spike (23C0147-MS2)	Sourc	e: 23B0928-	01	Prepared &	Analyzed:	02/28/2023				
Total Alkalinity	309	10.0	mg/L	250.0	134	70	90-110			J3





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Project: 2023 CCR Monitoring Program

McIntosh Plant

То	tal Recoverable N	Metals by E	PA 200 S	Series Me	thods - Q	uality Co	ontrol			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 23B0117 - EPA 3010A										
Blank (23B0117-BLK1)				Prepared &	Analyzed:	02/22/2023	;			
Barium	ND	1.00	ug/L	-						U
Boron	ND	10.0	"							U
Cadmium	ND	1.00	"							U
Magnesium	ND	20.0	"							U
Calcium	ND	50.0	"							U
Arsenic	ND	10.0	"							U
Antimony	ND	15.0	"							U
Challium Challium	ND	4.00	"							U
Sodium	ND	2000	"							U
Selenium	ND	15.0	"							U
Nolybdenum	ND	10.0	"							U
Chromium	ND	5.00	"							U
otassium	ND	50.0	"							U
ead	ND	10.0	"							U
Cobalt	ND	1.00	"							U
Beryllium	ND	1.00	"							U
LCS (23B0117-BS1)				Prepared &	z Analyzed:	02/22/2023	}			
Boron	532.8	10.0	ug/L	500.0		107	85-115			
Arsenic	519	10.0	"	500.0		104	85-115			
Cadmium	504.8	1.00	"	500.0		101	85-115			
Antimony	479.8	15.0	"	500.0		96.0	85-115			
Calcium	27200	50.0	"	25500		107	85-115			
Selenium	523.0	15.0	"	500.0		105	85-115			
Lead	487	10.0	"	500.0		97.5	85-115			
otassium	24600	50.0	"	25500		96.6	85-115			
Thallium	473.7	4.00	"	500.0		94.7	85-115			
Aolybdenum	515.2	10.0	"	500.0		103	85-115			
Barium	484.7	1.00	"	500.0		96.9	85-115			
Sodium	25800	2000	"	25500		101	85-115			
Chromium	496.0	5.00	"	500.0		99.2	85-115			
Cobalt	497.3	1.00	"	500.0		99.5	85-115			

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Project: 2023 CCR Monitoring Program

McIntosh Plant

Tot	al Recoverable N	Metals by E	PA 200	Series Met	hods - Q	uality Co	ontrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0117 - EPA 3010A										
LCS (23B0117-BS1)				Prepared &	Analyzed:	02/22/2023	3			
Beryllium	512.0	1.00	ug/L	500.0		102	85-115			
Magnesium	483	20.0	"	500.0		96.6	85-115			
Matrix Spike (23B0117-MS1)	Sou	rce: 23B0865-	19	Prepared &	Analyzed:	02/22/2023	3			
Cadmium	49420	100	ug/L	50000	ND	98.8	70-130			
Magnesium	59600	2000	"	50000	11700	95.6	70-130			
Antimony	48450	1500	"	50000	ND	96.9	70-130			
Arsenic	52100	1000	"	50000	ND	104	70-130			
Barium	47600	100	"	50000	40.20	95.1	70-130			
Beryllium	48600	100	"	50000	ND	97.2	70-130			
Boron	51290	1000	"	50000	389.5	102	70-130			
Calcium	3110000	5000	"	2550000	531000	101	70-130			
Chromium	48600	500	"	50000	ND	97.2	70-130			
Lead	47200	1000	"	50000	ND	94.4	70-130			
Molybdenum	50880	1000	"	50000	ND	102	70-130			
Potassium	2730000	5000	"	2550000	315000	94.9	70-130			
Selenium	50930	1500	"	50000	ND	102	70-130			
Sodium	2690000	200000	"	2550000	196000	97.8	70-130			
Гhallium	46130	400	"	50000	ND	92.3	70-130			
Cobalt	48950	100	"	50000	ND	97.9	70-130			
Matrix Spike Dup (23B0117-MSD1)	Sou	rce: 23B0865-	19	Prepared &	Analyzed:	02/22/2023	3			
Arsenic	51000	1000	ug/L	50000	ND	102	70-130	2.12	20	
Boron	50450	1000	"	50000	389.5	100	70-130	1.66	20	
Cadmium	48710	100	"	50000	ND	97.4	70-130	1.45	20	
Beryllium	47980	100	"	50000	ND	96.0	70-130	1.28	20	
Antimony	49280	1500	"	50000	ND	98.6	70-130	1.70	20	
otassium	2690000	5000	"	2550000	315000	93.1	70-130	1.96	20	
Sodium	2650000	200000	"	2550000	196000	96.1	70-130	1.71	20	
Гhallium	45500	400	"	50000	ND	91.0	70-130	1.38	20	
Magnesium	58500	2000	"	50000	11700	93.5	70-130	2.26	20	
Barium	46960	100	"	50000	40.20	93.8	70-130	1.35	20	

Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory 528 Gooch Rd. Fort Mead, FL 33841 Big Lake Laboratory 610 Parrot Ave. N. Okeechobee, FL 34972 Lakeland Laboratory 111 Easton Dr. Lakeland, FL 33803





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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Total 1	Recoverable N	Metals by E	PA 200	Series Met	hods - Q	uality Co	ontrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0117 - EPA 3010A										
Matrix Spike Dup (23B0117-MSD1)	Sour	rce: 23B0865-	19	Prepared &	Analyzed:	02/22/2023	3			
Selenium	50230	1500	ug/L	50000	ND	100	70-130	1.38	20	
Chromium	47650	500	"	50000	ND	95.3	70-130	1.97	20	
Calcium	3070000	5000	"	2550000	531000	99.6	70-130	1.58	20	
Lead	46700	1000	"	50000	ND	93.4	70-130	1.04	20	
Molybdenum	50290	1000	"	50000	ND	101	70-130	1.17	20	
Cobalt	48080	100	"	50000	ND	96.2	70-130	1.79	20	
Batch 23B0118 - EPA 3010A										
Blank (23B0118-BLK1)				Prepared: 0	2/22/2023	Analyzed: (02/23/2023			
Lithium	ND	25.0	ug/L							U
LCS (23B0118-BS1)				Prepared: 0	2/22/2023	Analyzed: (02/23/2023			
Lithium	2400	25.0	ug/L	2500		96	85-115			
Matrix Spike (23B0118-MS1)	Sour	rce: 23B0865-	01	Prepared: 0	2/22/2023	Analyzed: (02/23/2023			
Lithium	2280	25.0	ug/L	2500	ND	91	75-125			
Matrix Spike Dup (23B0118-MSD1)	Sour	rce: 23B0865-	01	Prepared: 0	2/22/2023	Analyzed: (02/23/2023			
Lithium	2300	25.0	ug/L	2500	ND	92	75-125	1	20	
Batch 23B0121 - EPA 245.1/245.2 Prep										
Blank (23B0121-BLK1)				Prepared: 0	2/23/2023	Analyzed: (02/24/2023			
Mercury	ND	1.00	ug/L							U





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Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Total Rec	coverable N	Metals by E	PA 200	Series Met	thods - Q	uality Co	ontrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0121 - EPA 245.1/245.2 Prep										
LCS (23B0121-BS1)				Prepared: 0	02/23/2023	Analyzed: (02/24/2023			
Mercury	10.2	1.00	ug/L	10.00		102	85-115			
Matrix Spike (23B0121-MS1)	Sour	ce: 23B0865-	17	Prepared: 0	02/23/2023	Analyzed: (02/24/2023			
Mercury	8.48	1.00	ug/L	10.00	ND	85	70-130			
Matrix Spike Dup (23B0121-MSD1)	Sour	ce: 23B0865-	17	Prepared: 0	02/23/2023	Analyzed: (02/24/2023			
Mercury	8.60	1.00	ug/L	10.00	ND	86	70-130	1	20	





Page 53 of 53

Report Printed: 3/8/2023

Work Order # 23B0865

Project: 2023 CCR Monitoring Program

McIntosh Plant

Notes and Definitions

U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not

detected. The value associated with the qualifier shall be the laboratory method detection limit.

J3 The matrix spike recovery outside method acceptance limits indicating matrix interference.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

N.O.O. No Odor Observed

REP Field parameter measured by client

V Indicated that the analyte was detected in both the sample and the associated method blank.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Z Too many colonies were present for accurate counting.

SUB Work performed by outside (subcontracted) labs denoted by SUB in analyst field.

QC=Qualifier Codes as defined by DEP 62-160 Unless indicated, soil results are reported on actual (wet) weight basis. The Color SM2120B method is reported as (Color / pH) Legionella analyzed under CDC acreditation program Dilution factors \geq = 1000 are abreviated using k=1000 and M=1000000 Field parameters are not NELAP acredited. Results relate only to this sample.

Suresh (Bobby) Supan - CSM

Authorized CSM Signature (954) 978-6400 Florida-Spectrum Environmental Services,Inc. Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

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Hed Fred		2-16-2017 1036	2-16-2023	2-15-2023		2-15-2028	2-15-2013	1-15-2013	2-15-2013	2-15-7023	2-15-2023		-	Sampled			NIX III	lectric	Ellaesnic	The second second	0000	Florida Spectrum
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1460 West McNab Road Fort Lauderdale, FL 33309 1-800-ANALYTE Phone (954) 978-6400 Phone (954) 978-2233 Fax

10 March 2023 Lab Work Order (COC): 23B0983

NELAP Certificate No. E86006

Thomas Johnston Lakeland Electric - McIntosh 3030 East Lake Parker Drive Lakeland, FL 33805

RE: 2023 CCR Monitoring Program

Project Location: McIntosh Plant

Dear Thomas Johnston:

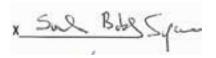
This report details the analytical results of samples collected at the above-referenced project location. These samples were received by Florida Spectrum Environmental Services at **02/23/2023 16:30**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.







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Report Printed: 3/10/2023

Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-9A	23B0983-01	Water	Magnesium	32500	ug/L	2/22/2023	11:31
CCR-9A	23B0983-01	Water	Sodium	135000	ug/L	2/22/2023	11:31
CCR-9A	23B0983-01	Water	Boron	514	ug/L	2/22/2023	11:31
CCR-9A	23B0983-01	Water	Lithium	45.7	ug/L	2/22/2023	11:31
CCR-9A	23B0983-01	Water	Potassium	124000	ug/L	2/22/2023	11:31
CCR-9A	23B0983-01	Water	Calcium	564000	ug/L	2/22/2023	11:31
CCR-9A	23B0983-01	Water	Barium	43.5	ug/L	2/22/2023	11:31
CCR-9A	23B0983-01	Water	Chromium	1.40	ug/L	2/22/2023	11:31
CCR-9B	23B0983-02	Water	Sulfate	1380	mg/L	2/22/2023	11:31
CCR-9B	23B0983-02	Water	Fluoride	0.215	mg/L	2/22/2023	11:31
CCR-9B	23B0983-02	Water	Bicarbonate	30.2	mg/L	2/22/2023	11:31
CCR-9B	23B0983-02	Water	Total Alkalinity	30.2	mg/L	2/22/2023	11:31
CCR-9B	23B0983-02	Water	Total Dissolved Solids	2830	mg/L	2/22/2023	11:31
CCR-9B	23B0983-02	Water	Chloride	370	mg/L	2/22/2023	11:31
CCR-8A	23B0983-03	Water	Calcium	82000	ug/L	2/22/2023	12:23
CCR-8A	23B0983-03	Water	Barium	24.7	ug/L	2/22/2023	12:23
CCR-8A	23B0983-03	Water	Molybdenum	12.2	ug/L	2/22/2023	12:23
CCR-8A	23B0983-03	Water	Boron	67.3	ug/L	2/22/2023	12:23
CCR-8A	23B0983-03	Water	Chromium	0.700	ug/L	2/22/2023	12:23
CCR-8B	23B0983-04	Water	Fluoride	0.354	mg/L	2/22/2023	12:23
CCR-8B	23B0983-04	Water	Total Dissolved Solids	268	mg/L	2/22/2023	12:23
CCR-8B	23B0983-04	Water	Chloride	2.45	mg/L	2/22/2023	12:23
CCR-8B	23B0983-04	Water	Sulfate	67.7	mg/L	2/22/2023	12:23
SW-106A	23B0983-05	Water	Molybdenum	1.70	ug/L	2/22/2023	17:24

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Pembroke Laboratory 528 Gooch Rd. Fort Mead, FL 33841 Big Lake Laboratory 610 Parrot Ave. N. Okeechobee, FL 34972 Lakeland Laboratory 111 Easton Dr. Lakeland, FL 33803





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Report Printed: 3/10/2023

Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
SW-106A	23B0983-05	Water	Boron	42.1	ug/L	2/22/2023	17:24
SW-106A	23B0983-05	Water	Potassium	5220	ug/L	2/22/2023	17:24
SW-106A	23B0983-05	Water	Chromium	0.600	ug/L	2/22/2023	17:24
SW-106A	23B0983-05	Water	Barium	8.70	ug/L	2/22/2023	17:24
SW-106A	23B0983-05	Water	Calcium	8410	ug/L	2/22/2023	17:24
SW-106A	23B0983-05	Water	Sodium	2250	ug/L	2/22/2023	17:24
SW-106B	23B0983-06	Water	Total Dissolved Solids	70.0	mg/L	2/22/2023	17:24
SW-106B	23B0983-06	Water	Fluoride	0.0330	mg/L	2/22/2023	17:24
SW-106B	23B0983-06	Water	Sulfate	25.7	mg/L	2/22/2023	17:24
SW-106B	23B0983-06	Water	Chloride	1.94	mg/L	2/22/2023	17:24
SW-106B	23B0983-06	Water	Total Alkalinity	9.81	mg/L	2/22/2023	17:24
SW-106B	23B0983-06	Water	Bicarbonate	9.81	mg/L	2/22/2023	17:24





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Report Printed: 3/10/2023

Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0983-01 Client Sample ID: CCR-9A Matrix: Water
 Collection Date:
 02/22/23 11:31

 Received Date:
 02/23/23 16:30

 Collected By:
 Rik Matnius

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst

Total Recoverable Metals by EPA 200 Series Methods

Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Barium	43.5		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Boron	514		ug/L	1	0.616	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Calcium	564000		ug/L	10	59.6	500	EPA 200.7/3010	02/24 12:00	02/24 17:18	JF
Chromium	1.40	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Lithium	45.7		ug/L	1	4.74	25.0	EPA 200.7/3010	02/24 12:00	03/02 15:20	JD
Magnesium	32500		ug/L	10	24.8	200	EPA 200.7/3010	02/24 12:00	02/24 17:18	JF
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 12:34	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Potassium	124000		ug/L	10	109	500	EPA 200.7/3010	02/24 12:00	02/24 17:18	JF
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Sodium	135000		ug/L	1	521	2000	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/24 12:00	02/24 17:09	JF





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Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0983-02 Client Sample ID: CCR-9B Matrix: Water
 Collection Date:
 02/22/23 11:31

 Received Date:
 02/23/23 16:30

 Collected By:
 Rik Matnius

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	30.2		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	30.2		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	370		mg/L	20	2.52	10.0	EPA 300.0	02/24 18:28	02/25 01:53	OC
Fluoride	0.215		mg/L	2	0.0104	0.0500	EPA 300.0	02/24 19:00	02/25 09:17	OC
Sulfate	1380		mg/L	20	1.91	10.0	EPA 300.0	02/24 18:28	02/25 01:53	OC
Total Dissolved Solids	2830		mg/L	4	40.0	120	SM 2540C	02/28 20:00	03/02 18:59	LE





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Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0983-03
Client Sample ID: CCR-8A
Matrix: Water

Result

QC

Units

Parameter

 Collection Date:
 02/22/23 12:23

 Received Date:
 02/23/23 16:30

 Collected By:
 Rik Matnius

Method

Laboratory Analysis Report

MDL

PQL

Dil

- urumeter	Result	QC	Omts	DII	MDL	TQL	Method	Dute Ext.		1111111350
Гotal Recoverable Metals b	y EPA 200 Seri	es Metl	nods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Barium	24.7		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Boron	67.3		ug/L	1	0.616	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Calcium	82000		ug/L	1	5.96	50.0	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Chromium	0.700	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/24 12:00	03/02 15:23	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 12:37	JD
Molybdenum	12.2		ug/L	1	1.43	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/24 12:00	02/24 17:11	JF





Report To: Thomas Johnston Lakeland Electric - McIntosh

3030 East Lake Parker Drive Lakeland FL, 33805

Matrix:

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Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0983-04 Client Sample ID: CCR-8B

CCR-8B Water
 Collection Date:
 02/22/23 12:23

 Received Date:
 02/23/23 16:30

 Collected By:
 Rik Matnius

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
wet Chemistry										
Chloride	2.45		mg/L	1	0.126	0.500	EPA 300.0	02/24 18:28	02/25 01:36	OC
Fluoride	0.354		mg/L	1	0.00520	0.0250	EPA 300.0	02/24 18:28	02/25 01:36	OC
Sulfate	67.7		mg/L	1	0.0953	0.500	EPA 300.0	02/24 18:28	02/25 01:36	OC
Total Dissolved Solids	268		mg/L	2	20.0	60.0	SM 2540C	02/28 20:00	03/02 18:59	LE





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Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0983-05
Client Sample ID: SW-106A
Matrix: Water

Result

QC

Units

Parameter

 Collection Date:
 02/22/23 17:24

 Received Date:
 02/23/23 16:30

 Collected By:
 Rik Matnius

Method

Laboratory Analysis Report

MDL

PQL

Dil

Total Recoverable Metals b	ov EPA 200 Seri	es Metl	nods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Barium	8.70		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Boron	42.1		ug/L	1	0.616	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Calcium	8410		ug/L	1	5.96	50.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Chromium	0.600	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/24 12:00	03/02 15:25	JD
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 12:40	JD
Molybdenum	1.70	I	ug/L	1	1.43	10.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Potassium	5220		ug/L	1	10.9	50.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Sodium	2250		ug/L	1	521	2000	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/24 12:00	02/24 17:13	JF

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Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0983-06
Client Sample ID: SW-106B
Matrix: Water

 Collection Date:
 02/22/23 17:24

 Received Date:
 02/23/23 16:30

 Collected By:
 Rik Matnius

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	9.81	I	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	9.81	I	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	1.94		mg/L	1	0.126	0.500	EPA 300.0	02/24 18:28	02/24 21:13	OC
Fluoride	0.0330		mg/L	1	0.00520	0.0250	EPA 300.0	02/24 18:28	02/24 21:13	OC
Sulfate	25.7		mg/L	1	0.0953	0.500	EPA 300.0	02/24 18:28	02/24 21:13	OC
Total Dissolved Solids	70.0		mg/L	2	20.0	60.0	SM 2540C	02/28 20:00	03/02 18:59	LE





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Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

	,	Wet Chemis	stry - Q	uality Con	itrol					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 23B0879 - Default Prep GenChem										
Blank (23B0879-BLK1)				Prepared &	Analyzed:	02/24/202	3			
Fluoride	ND	0.0250	mg/L							U
Sulfate	ND	0.500	"							U
Chloride	ND	0.500	"							U
LCS (23B0879-BS1)				Prepared &	Analyzed:	02/24/202	3			
Fluoride	2.49	0.0250	mg/L	2.500		100	90-110			
Sulfate	50.3	0.500	"	50.00		101	90-110			
Chloride	49.8	0.500	"	50.00		100	90-110			
Duplicate (23B0879-DUP1)	Sou	rce: 23B0983-	06	Prepared &	Analyzed:	02/24/202	3			
Fluoride	0.0280	0.0250	mg/L		0.0330			16	20	
Sulfate	27.0	0.500	"		25.7			5	20	
Chloride	2.01	0.500	"		1.94			4	20	
Matrix Spike (23B0879-MS1)	Sou	rce: 23B0983-	06	Prepared &	Analyzed:	02/24/202	3			
Fluoride	2.71	0.0250	mg/L	2.500	0.0330	107	90-110			
Sulfate	74.1	0.500	"	50.00	25.7	97	90-110			
Chloride	50.8	0.500	"	50.00	1.94	98	90-110			
Matrix Spike (23B0879-MS2)	Sou	rce: 23B0988-	02	Prepared: (02/24/2023	Analyzed:	02/25/2023			
Fluoride	2.39	0.0250	mg/L	2.500	0.0960	92	90-110			
Sulfate	62.5	0.500	"	50.00	14.2	97	90-110			
Chloride	62.4	0.500	"	50.00	14.6	96	90-110			
Batch 23B0880 - Default Prep GenChem										
Blank (23B0880-BLK1)				Prepared: (02/24/2023	Analyzed:	02/25/2023			
Fluoride	ND	0.0250	mg/L							U

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Project: 2023 CCR Monitoring Program

McIntosh Plant

Wet Chemistry - Quality Control												
		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Reporting Limit	Units	Spike Level	Result	%REC	%REC Limits	RPD	Limit	Notes		
Batch 23B0880 - Default Prep GenChem												
LCS (23B0880-BS1)				Prepared: (02/24/2023	Analyzed:	02/25/2023					
Fluoride	2.52	0.0250	mg/L	2.500		101	90-110					
Duplicate (23B0880-DUP1)	Sou	Prepared: (02/24/2023	Analyzed:	02/25/2023							
Fluoride	0.107	0.0250	mg/L		0.108			0.9	20			
Matrix Spike (23B0880-MS1)	Source: 23B0988-03			Prepared: (02/24/2023	Analyzed:						
Fluoride	2.36	0.0250	mg/L	2.500	0.108	90	90-110					
Matrix Spike (23B0880-MS2)	Source: 23B1023-05			Prepared: (02/24/2023	Analyzed:	02/25/2023					
Fluoride	2.44	0.0250	mg/L	2.500	0.115	93	90-110					
Batch 23C0151 - Default Preparation GenCl	iem											
Blank (23C0151-BLK1)				Prepared &	02/28/202							
Total Alkalinity	ND	10.0	mg/L							U		
LCS (23C0151-BS1)				Prepared &	Analyzed:	02/28/202	3					
Total Alkalinity	247	10.0	mg/L	250.0		99	90-110					
Duplicate (23C0151-DUP1)	Sou	rce: 23B0983-	06	Prepared &	z Analyzed:	02/28/202	3					
Total Alkalinity	10.1	10.0	mg/L		9.81			3	20			
Matrix Spike (23C0151-MS1)	Sour	rce: 23B0983-	06	Prepared &	Analyzed:	02/28/202	3					
Total Alkalinity	254	10.0	mg/L	250.0	9.81	98	90-110					
Matrix Spike (23C0151-MS2)	Sou	rce: 23B1023-	05	Prepared &	02/28/202							
Total Alkalinity	261	10.0	mg/L	250.0	27.6	93	90-110					





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Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

	Wet Chemistry - Quality Control												
Analysis	D14	Reporting	TIia.	Spike	Source	0/DEC	%REC	DDD	RPD	N-4			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch 23C0168 - Default Prep GenChem													
Blank (23C0168-BLK1)	Prepared: 02/28/2023 Analyzed: 03/02/2023												
Total Dissolved Solids	ND	30.0	mg/L							U			
LCS (23C0168-BS1)				Prepared: 0	Analyzed:	03/02/2023							
Total Dissolved Solids	472	120	mg/L	500.0		94.4	80-120						
Duplicate (23C0168-DUP1)	Sour	rce: 23B1007-	01	Prepared: 0	02/28/2023	Analyzed:	03/02/2023						
Total Dissolved Solids	1350	120	mg/L		1310			3.31	20				
Duplicate (23C0168-DUP2)	Sour	rce: 23B1059-	02	Prepared: 02/28/2023 Analyzed: 03/02/2023									
Total Dissolved Solids	6280	120	mg/L		6150			2.12	20				





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Project: 2023 CCR Monitoring Program

McIntosh Plant

Total Recoverable Metals by EPA 200 Series Methods - Quality Control												
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 23B0122 - EPA 245.1/245.2 Prep												
Blank (23B0122-BLK1)				Prepared &	: Analyzed:	02/24/2023	3					
Mercury	ND	1.00	ug/L							U		
LCS (23B0122-BS1)				Prepared &	: Analyzed:	02/24/2023	3					
Mercury	10.2	1.00	ug/L	10.00		102	85-115					
•					. 1 .							
Matrix Spike (23B0122-MS1)		rce: 23B0878-0		Prepared &	-							
Mercury	9.18	1.00	ug/L	10.00	ND	92	70-130					
Matrix Spike Dup (23B0122-MSD1)	Source: 23B0878-01			Prepared &	Analyzed:	02/24/2023	3					
Mercury	9.12	1.00	ug/L	10.00	ND	91	70-130	0.6	20			
Batch 23B0131 - EPA 3010A												
Blank (23B0131-BLK1)				Prepared &	: Analyzed:	02/24/2023	3					
Boron	ND	10.0	ug/L							U		
Cadmium	ND	1.00	"							U		
Calcium	ND	50.0	"							U		
Chromium	ND	5.00	"							U		
Antimony	ND	15.0	"							U		
Barium	ND	1.00	"							U		
Beryllium	ND	1.00	"							U		
Arsenic	ND	10.0	"							U		
Selenium	ND	15.0	"							U		
Sodium	ND	2000	"							U		
Potassium	ND	50.0	"							U		
Гhallium	ND	4.00	"							U		
Cobalt	ND	1.00	"							U		
Lead	ND	10.0	"							U		
Magnesium	ND	20.0	"							U		
Molybdenum	ND	10.0	"							U		

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Report Printed: 3/10/2023

Work Order # 23B0983

Project: 2023 CCR Monitoring Program

McIntosh Plant

Tot	tal Recoverable M	etals by E	PA 200	Series Met	thods - Q	uality Co	ontrol			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 23B0131 - EPA 3010A										
LCS (23B0131-BS1)				Prepared &	: Analyzed:	02/24/2023	3			
Cadmium	489.1	1.00	ug/L	500.0		97.8	85-115			
Boron	493.9	10.0	"	500.0		98.8	85-115			
Beryllium	493.8	1.00	"	500.0		98.8	85-115			
Calcium	27000	50.0	"	25500		106	85-115			
Antimony	476.9	15.0	"	500.0		95.4	85-115			
Arsenic	485	10.0	"	500.0		97.1	85-115			
Barium	473.8	1.00	"	500.0		94.8	85-115			
Sodium	24600	2000	"	25500		96.4	85-115			
otassium	24000	50.0	"	25500		94.3	85-115			
Magnesium	480	20.0	"	500.0		96.0	85-115			
Selenium	487.0	15.0	"	500.0		97.4	85-115			
Chromium	477.6	5.00		500.0		95.5	85-115			
Thallium	465.9	4.00	"	500.0		93.2	85-115			
ead	484	10.0	"	500.0		96.7	85-115			
Cobalt	484.1	1.00	"	500.0		96.8	85-115			
Molybdenum	494.5	10.0	"	500.0		98.9	85-115			
Matrix Spike (23B0131-MS1)	Source	e: 23B0967-	05	Prepared &	: Analyzed:	02/24/2023	3			
Boron	474.9	10.0	ug/L	500.0	4.100	94.2	70-130			
Beryllium	483.7	1.00	"	500.0	ND	96.7	70-130			
Cadmium	480.3	1.00	,,	500.0	ND	96.1	70-130			
Calcium	26400	50.0	,,	25500	8.50	103	70-130			
Arsenic	479	10.0	,,	500.0	ND	95.7	70-130			
Antimony	409.2	15.0	.,	500.0	ND	81.8	70-130			
Barium	455.7	1.00	,,	500.0	ND	91.1	70-130			
Selenium	505.4	15.0	"	500.0	ND	101	70-130			
odium	24000	2000	.,	25500	ND	94.2	70-130			
Fhallium	451.3	4.00	.,	500.0	ND	90.3	70-130			
Chromium	460.4	5.00		500.0	ND	92.1	70-130			
Cobalt	464.6	1.00		500.0	ND	92.9	70-130			
Potassium	23300	50.0		25500	ND	91.2	70-130			
Ouggiuiii	23300	20.0								

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Project: 2023 CCR Monitoring Program

McIntosh Plant

Total Recoverable Metals by EPA 200 Series Methods - Quality Control												
		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 23B0131 - EPA 3010A												
Matrix Spike (23B0131-MS1)	So	urce: 23B0967-	05	Prepared &	Analyzed:	02/24/2023	3					
Magnesium	468	20.0	ug/L	500.0	ND	93.7	70-130					
Molybdenum	455.9	10.0	"	500.0	ND	91.2	70-130					
Matrix Spike Dup (23B0131-MSD1)	So	Source: 23B0967-05 Prepared & Analyzed: 02/24/2023										
Cadmium	474.7	1.00	ug/L	500.0	ND	94.9	70-130	1.17	20			
Calcium	26100	50.0	"	25500	8.50	102	70-130	1.07	20			
Boron	470.0	10.0	"	500.0	4.100	93.2	70-130	1.05	20			
Antimony	422.7	15.0	"	500.0	ND	84.5	70-130	3.25	20			
Beryllium	478.7	1.00	"	500.0	ND	95.7	70-130	1.04	20			
Magnesium	463	20.0	"	500.0	ND	92.6	70-130	1.14	20			
Arsenic	471	10.0	"	500.0	ND	94.3	70-130	1.54	20			
Barium	450.8	1.00	"	500.0	ND	90.2	70-130	1.08	20			
Potassium	23000	50.0	"	25500	ND	90.3	70-130	0.926	20			
Sodium	23800	2000	"	25500	ND	93.4	70-130	0.849	20			
Thallium	445.9	4.00	"	500.0	ND	89.2	70-130	1.20	20			
Selenium	499.6	15.0	"	500.0	ND	99.9	70-130	1.15	20			
Chromium	454.5	5.00	"	500.0	ND	90.9	70-130	1.29	20			
Molybdenum	455.1	10.0	"	500.0	ND	91.0	70-130	0.176	20			
Lead	460	10.0	"	500.0	ND	91.9	70-130	1.30	20			
Cobalt	461.0	1.00	"	500.0	ND	92.2	70-130	0.778	20			
Batch 23C0016 - EPA 3010A												
Blank (23C0016-BLK1)				Prepared: 0)2/24/2023	Analyzed: (03/02/2023					
Lithium	ND	25.0	ug/L							U		
LCS (23C0016-BS1)				Prepared: 0	02/24/2023	Analyzed: (03/02/2023					
Lithium	2420	25.0	ug/L	2500		97	85-115					

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Project: 2023 CCR Monitoring Program

McIntosh Plant

Total Recoverable Metals by EPA 200 Series Methods - Quality Control												
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 23C0016 - EPA 3010A Matrix Spike (23C0016-MS1)	Source	ee: 23B0983-	05	Prepared: 0	02/24/2023	Analyzed: (03/02/2023					
Lithium	2380	25.0	ug/L	2500	ND	95	75-125					
Matrix Spike Dup (23C0016-MSD1)	Sourc	e: 23B0983-	05	Prepared: 0	Analyzed: (
Lithium	2360	25.0	ug/L	2500	ND	94	75-125	1	20			





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McIntosh Plant

Notes and Definitions

U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not

detected. The value associated with the qualifier shall be the laboratory method detection limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

N.O.O. No Odor Observed

REP Field parameter measured by client

V Indicated that the analyte was detected in both the sample and the associated method blank.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Z Too many colonies were present for accurate counting.

SUB Work performed by outside (subcontracted) labs denoted by SUB in analyst field.

QC=Qualifier Codes as defined by DEP 62-160 Unless indicated, soil results are reported on actual (wet) weight basis. The Color SM2120B method is reported as (Color / pH) Legionella analyzed under CDC acreditation program Dilution factors \geq = 1000 are abreviated using k=1000 and M=1000000 Field parameters are not NELAP acredited. Results relate only to this sample.

Suresh (Bobby) Supan - CSM

Authorized CSM Signature (954) 978-6400 Florida-Spectrum Environmental Services,Inc. Certification# E86006

All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

Sample Custorty & Finest Connectors Received on fee: V N Consoly seaks? Consoly seaks. Co	Special Constituents:		5 5W-1010 A	28-400 % CCE-84	- CCR-9B	Shaded Areas For Laboratory Use Only	RDER# Sample	Pill Mithe	2 purply	Report to: Lie Kellerich Eppenic	WORK ORDER # Spectrum Logged in LAMS by Doc Care (40)170 (vil) Month Acceptance Criteria: Y N Door 10.19 2009 Rev. J
Beath:Tage Beath:Tage Ont's mit Uiter TED:Tedlar Air Rap	QA CE Report Norded?		1724	1223	9.22.23 1151	: 	Date Tion Sampled Sampled	Minor (863 Albitation: 50	Purchase Order 1		,
Prescription C-RCL	Tes No additional charges		25	2	- 1V	www	Matrix Bottly	34-6623	27466	Original Return wireteer Required	20802 1980 1980 1980 1980 1980 1980 1980 1980
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siro.com	M					Metadix Antidatix Antidatix E. 201, I DE Suite Ro-Curre Titl	alysis Requ		ا کی سا ال المحالے ل	Prok-Sampler Copy	į Q
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1630 1630	Date/finae					~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	다 아 다	MICHELLE SON	دوه دی را	. J.	Requested Page 18 of 18





1460 West McNab Road Fort Lauderdale, FL 33309 1-800-ANALYTE Phone (954) 978-6400 Phone (954) 978-2233 Fax

NELAP Certificate No. E86006

08 March 2023 Lab Work Order (COC): 23B0874

Thomas Johnston Lakeland Electric - McIntosh 3030 East Lake Parker Drive Lakeland, FL 33805

RE: 2023 CCR Monitoring Program

Project Location: McIntosh Plant

Dear Thomas Johnston:

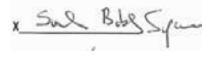
This report details the analytical results of samples collected at the above-referenced project location. These samples were received by Florida Spectrum Environmental Services at **02/21/2023 17:05**.

All Analyses were performed according to the TNI/NELAP standard unless indicated by a "~" on the report.

Your samples will be retained by Florida Spectrum Environmental for a period of at least 30 days following sample receipt or until the longest of the preparation and/or analytical hold times expires, whichever is shorter. After that time, they will be properly disposed without further notice, unless there exists an explicit contractual agreement to the contrary. We reserve the right to return any unused samples, extracts, or related materials or solutions to you if we consider it necessary. Examples might include those samples identified as hazardous wastes, submissions where the sample sizes significantly exceed those required for analysis, samples containing controlled substances, etc.

We thank you for selecting Florida Spectrum Environmental to serve your analytical needs. Should you have any questions or require additional information regarding any of the information in this report, please feel free to contact us at any time. We appreciate the opportunity to be of service.

Florida Spectrum Environmental Inc.







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Report Printed: 3/8/2023

Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

CCR-15A	23B0874-01	Water	Calcium	43800	ug/L	2/20/2023	10:05
CCR-15A	23B0874-01	Water	Sodium	3660	ug/L	2/20/2023	10:05
CCR-15A	23B0874-01	Water	Boron	42.8	ug/L	2/20/2023	10:05
CCR-15A	23B0874-01	Water	Potassium	4640	ug/L	2/20/2023	10:05
CCR-15A	23B0874-01	Water	Chromium	1.60	ug/L	2/20/2023	10:05
CCR-15A	23B0874-01	Water	Magnesium	981	ug/L	2/20/2023	10:05
CCR-15A	23B0874-01	Water	Barium	34.0	ug/L	2/20/2023	10:05
CCR-15B	23B0874-02	Water	Fluoride	0.111	mg/L	2/20/2023	10:05
CCR-15B	23B0874-02	Water	Sulfate	130	mg/L	2/20/2023	10:05
CCR-15B	23B0874-02	Water	Chloride	13.8	mg/L	2/20/2023	10:05
CCR-15B	23B0874-02	Water	Total Dissolved Solids	262	mg/L	2/20/2023	10:05
CCR-16A	23B0874-03	Water	Potassium	578000	ug/L	2/20/2023	10:34
CCR-16A	23B0874-03	Water	Sodium	513000	ug/L	2/20/2023	10:34
CCR-16A	23B0874-03	Water	Calcium	1180000	ug/L	2/20/2023	10:34
CCR-16A	23B0874-03	Water	Lithium	55.7	ug/L	2/20/2023	10:34
CCR-16A	23B0874-03	Water	Magnesium	14300	ug/L	2/20/2023	10:34
CCR-16A	23B0874-03	Water	Barium	114	ug/L	2/20/2023	10:34
CCR-16A	23B0874-03	Water	Chromium	1.30	ug/L	2/20/2023	10:34
CCR-16A	23B0874-03	Water	Boron	557	ug/L	2/20/2023	10:34
CCR-16B	23B0874-04	Water	Chloride	2740	mg/L	2/20/2023	10:34
CCR-16B	23B0874-04	Water	Total Dissolved Solids	7620	mg/L	2/20/2023	10:34
CCR-16B	23B0874-04	Water	Sulfate	1140	mg/L	2/20/2023	10:34
CCR-17A	23B0874-07	Water	Barium	3.50	ug/L	2/20/2023	11:59
CCR-17A	23B0874-07	Water	Magnesium	20200	ug/L	2/20/2023	11:59

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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

DETECTED ANALYTE SUMMARY

Client Sample ID	Laboratory ID	Matrix	Analyte	Result	Units	Collection Date	Collection Time
CCR-17A	23B0874-07	Water	Calcium	161000	ug/L	2/20/2023	11:59
CCR-17A	23B0874-07	Water	Sodium	37000	ug/L	2/20/2023	11:59
CCR-17A	23B0874-07	Water	Chromium	1.10	ug/L	2/20/2023	11:59
CCR-17A	23B0874-07	Water	Boron	131	ug/L	2/20/2023	11:59
CCR-17A	23B0874-07	Water	Potassium	26700	ug/L	2/20/2023	11:59
CCR-17B	23B0874-08	Water	Sulfate	181	mg/L	2/20/2023	11:59
CCR-17B	23B0874-08	Water	Chloride	137	mg/L	2/20/2023	11:59
CCR-17B	23B0874-08	Water	Bicarbonate	219	mg/L	2/20/2023	11:59
CCR-17B	23B0874-08	Water	Total Alkalinity	219	mg/L	2/20/2023	11:59
CCR-17B	23B0874-08	Water	Total Dissolved Solids	900	mg/L	2/20/2023	11:59
CCR-7A	23B0874-09	Water	Potassium	36900	ug/L	2/20/2023	14:09
CCR-7A	23B0874-09	Water	Chromium	2.10	ug/L	2/20/2023	14:09
CCR-7A	23B0874-09	Water	Calcium	51800	ug/L	2/20/2023	14:09
CCR-7A	23B0874-09	Water	Barium	7.60	ug/L	2/20/2023	14:09
CCR-7A	23B0874-09	Water	Lithium	40.1	ug/L	2/20/2023	14:09
CCR-7A	23B0874-09	Water	Sodium	19400	ug/L	2/20/2023	14:09
CCR-7A	23B0874-09	Water	Boron	256	ug/L	2/20/2023	14:09
CCR-7A	23B0874-09	Water	Magnesium	2390	ug/L	2/20/2023	14:09
CCR-7B	23B0874-10	Water	Chloride	29.8	mg/L	2/20/2023	14:09
CCR-7B	23B0874-10	Water	Fluoride	0.122	mg/L	2/20/2023	14:09
CCR-7B	23B0874-10	Water	Sulfate	174	mg/L	2/20/2023	14:09
CCR-7B	23B0874-10	Water	Bicarbonate	8.45	mg/L	2/20/2023	14:09
CCR-7B	23B0874-10	Water	Total Alkalinity	8.45	mg/L	2/20/2023	14:09
CCR-7B	23B0874-10	Water	Total Dissolved Solids	412	mg/L	2/20/2023	14:09

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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-01 Client Sample ID: CCR-15A Matrix: Water **Collection Date:** 02/20/23 10:05 **Received Date:** 02/21/23 17:05

Collected By: CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst

Total Recoverable Metals by EPA 200 Series Methods

Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Barium	34.0		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Boron	42.8		ug/L	1	0.616	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Calcium	43800		ug/L	1	5.96	50.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Chromium	1.60	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 01:00	02/23 11:25	JD
Magnesium	981		ug/L	1	2.48	20.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 11:27	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Potassium	4640		ug/L	1	10.9	50.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Sodium	3660		ug/L	1	521	2000	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/23 09:00	02/23 14:48	MAZ





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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-02
Client Sample ID: CCR-15B
Matrix: Water

 Collection Date:
 02/20/23 10:05

 Received Date:
 02/21/23 17:05

 Collected By:
 CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	ND	U	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	ND	U	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	13.8		mg/L	1	0.126	0.500	EPA 300.0	02/22 17:30	02/23 08:35	PK
Fluoride	0.111		mg/L	1	0.00520	0.0250	EPA 300.0	02/22 17:30	02/23 08:35	PK
Sulfate	130		mg/L	2	0.191	1.00	EPA 300.0	02/23 17:00	02/24 11:46	OC
Total Dissolved Solids	262		mg/L	2	20.0	60.0	SM 2540C	02/23 23:01	02/24 23:45	LE





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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0874-03 Client Sample ID: CCR-16A Matrix: Water

Result

QC

Units

Parameter

Collection Date: 02/20/23 10:34 **Received Date:** 02/21/23 17:05

Method

Collected By: CLIENT

Laboratory Analysis Report

MDL

PQL

Dil

Total Dagovonahla Matala hy	. EDA 200 Comi	sa Ma4l	ho da							
Total Recoverable Metals by	EPA 200 Serie	es ivieti	ious							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Barium	114		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Boron	557		ug/L	1	0.616	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Calcium	1180000		ug/L	50	298	2500	EPA 200.7/3010	02/23 09:00	02/23 14:29	MAZ
Chromium	1.30	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Lithium	55.7		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 01:00	02/23 11:28	JD
Magnesium	14300		ug/L	50	124	1000	EPA 200.7/3010	02/23 09:00	02/23 14:29	MAZ
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 11:30	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Potassium	578000		ug/L	10	109	500	EPA 200.7/3010	02/23 09:00	02/23 14:43	MAZ
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ
Sodium	513000		ug/L	50	26000	100000	EPA 200.7/3010	02/23 09:00	02/23 14:29	MAZ
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/23 09:00	02/23 14:50	MAZ





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Report Printed: 3/8/2023

Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-04 Client Sample ID: CCR-16B Matrix: Water

 Collection Date:
 02/20/23 10:34

 Received Date:
 02/21/23 17:05

 Collected By:
 CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	ND	U	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	ND	U	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	2740		mg/L	40	5.04	20.0	EPA 300.0	02/22 17:30	02/23 10:14	PK
Fluoride	ND	U	mg/L	5	0.0260	0.125	EPA 300.0	02/23 17:00	02/24 12:02	OC
Sulfate	1140		mg/L	40	3.81	20.0	EPA 300.0	02/22 17:30	02/23 10:14	PK
Total Dissolved Solids	7620		mg/L	4	40.0	120	SM 2540C	02/23 23:01	02/24 23:45	LE





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Report Printed: 3/8/2023

Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-05
Client Sample ID: EQBCCRA
Matrix: Water

 Collection Date:
 02/20/23
 10:41

 Received Date:
 02/21/23
 17:05

 Collected By:
 CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst

Total Recoverable Metals by EPA 200 Series Methods

	I		σ.		1 (20	15.0			02/22 14.52	24.7
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Barium	ND	U	ug/L	1	0.0962	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Boron	ND	U	ug/L	1	0.616	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Calcium	ND	U	ug/L	1	5.96	50.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Chromium	ND	U	ug/L	1	0.513	5.00	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 01:00	02/23 11:30	JD
Magnesium	ND	U	ug/L	1	2.48	20.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 11:33	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Potassium	ND	U	ug/L	1	10.9	50.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Sodium	ND	U	ug/L	1	521	2000	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/23 09:00	02/23 14:52	MAZ





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Report Printed: 3/8/2023

Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-06 Client Sample ID: EQBCCRB Matrix: Water
 Collection Date:
 02/20/23 10:41

 Received Date:
 02/21/23 17:05

 Collected By:
 CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	ND	U	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	ND	U	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	ND	U	mg/L	1	0.126	0.500	EPA 300.0	02/22 17:30	02/23 10:47	PK
Fluoride	ND	U	mg/L	1	0.00520	0.0250	EPA 300.0	02/22 17:30	02/23 10:47	PK
Sulfate	ND	U	mg/L	1	0.0953	0.500	EPA 300.0	02/22 17:30	02/23 14:05	PK
Total Dissolved Solids	ND	U	mg/L	1	10.0	30.0	SM 2540C	02/23 23:01	02/24 23:45	LE





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Report Printed: 3/8/2023

Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-07
Client Sample ID: CCR-17A
Matrix: Water

 Collection Date:
 02/20/23 11:59

 Received Date:
 02/21/23 17:05

 Collected By:
 CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst

Total Recoverable Metals by EPA 200 Series Methods

Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Barium	3.50		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Boron	131		ug/L	1	0.616	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Calcium	161000		ug/L	10	59.6	500	EPA 200.7/3010	02/23 09:00	02/23 14:45	MAZ
Chromium	1.10	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Lithium	ND	U	ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 01:00	02/23 11:33	JD
Magnesium	20200		ug/L	50	124	1000	EPA 200.7/3010	02/23 09:00	02/23 14:31	MAZ
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 11:36	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Potassium	26700		ug/L	1	10.9	50.0	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Sodium	37000		ug/L	1	521	2000	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/23 09:00	02/23 15:02	MAZ





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Report Printed: 3/8/2023

Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-08
Client Sample ID: CCR-17B
Matrix: Water

 Collection Date:
 02/20/23 11:59

 Received Date:
 02/21/23 17:05

 Collected By:
 CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	219		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	219		mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	137		mg/L	5	0.630	2.50	EPA 300.0	02/22 17:30	02/23 10:31	PK
Fluoride	ND	U	mg/L	5	0.0260	0.125	EPA 300.0	02/22 17:30	02/23 10:31	PK
Sulfate	181		mg/L	5	0.476	2.50	EPA 300.0	02/22 17:30	02/23 10:31	PK
Total Dissolved Solids	900		mg/L	4	40.0	120	SM 2540C	02/23 23:01	02/24 23:45	LE





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Report Printed: 3/8/2023

Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Date Ext.

Date Analy.

Analyst

Lab ID: 23B0874-09
Client Sample ID: CCR-7A
Matrix: Water

Result

QC

Units

Parameter

 Collection Date:
 02/20/23 14:09

 Received Date:
 02/21/23 17:05

Method

Collected By: CLIENT

PQL

Laboratory Analysis Report

MDL

Dil

Total Recoverable Metals	by EPA 200 Serie	es Metl	nods							
Antimony	ND	U	ug/L	1	6.20	15.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Arsenic	ND	U	ug/L	1	3.96	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Barium	7.60		ug/L	1	0.0962	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Beryllium	ND	U	ug/L	1	0.107	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Boron	256		ug/L	1	0.616	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Cadmium	ND	U	ug/L	1	0.217	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Calcium	51800		ug/L	1	5.96	50.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Chromium	2.10	I	ug/L	1	0.513	5.00	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Cobalt	ND	U	ug/L	1	0.354	1.00	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Lead	ND	U	ug/L	1	1.93	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Lithium	40.1		ug/L	1	4.74	25.0	EPA 200.7/3010	02/22 01:00	02/23 11:41	JD
Magnesium	2390		ug/L	10	24.8	200	EPA 200.7/3010	02/23 09:00	02/23 14:47	MAZ
Mercury	ND	U	ug/L	1	0.120	1.00	EPA 245.1	02/24 08:00	02/24 11:39	JD
Molybdenum	ND	U	ug/L	1	1.43	10.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Potassium	36900		ug/L	1	10.9	50.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Selenium	ND	U	ug/L	1	4.39	15.0	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Sodium	19400		ug/L	1	521	2000	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ
Thallium	ND	U	ug/L	1	0.925	4.00	EPA 200.7/3010	02/23 09:00	02/23 15:04	MAZ





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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Lab ID: 23B0874-10
Client Sample ID: CCR-7B
Matrix: Water

 Collection Date:
 02/20/23 14:09

 Received Date:
 02/21/23 17:05

 Collected By:
 CLIENT

Laboratory Analysis Report

Parameter	Result	QC	Units	Dil	MDL	PQL	Method	Date Ext.	Date Analy.	Analyst
Wet Chemistry										
Total Alkalinity	8.45	I	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Bicarbonate	8.45	I	mg/L	1	3.74	10.0	EPA 310.2	02/28 18:13	02/28 18:13	OC
Chloride	29.8		mg/L	1	0.126	0.500	EPA 300.0	02/22 17:30	02/23 11:04	PK
Fluoride	0.122		mg/L	1	0.00520	0.0250	EPA 300.0	02/22 17:30	02/23 11:04	PK
Sulfate	174		mg/L	2	0.191	1.00	EPA 300.0	02/23 17:00	02/24 12:19	OC
Total Dissolved Solids	412		mg/L	2	20.0	60.0	SM 2540C	02/23 23:01	02/24 23:45	LE





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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

		Wet Chemi	stry - Q	uality Con	itrol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0806 - Default Prep GenChem										
Blank (23B0806-BLK1)				Prepared: (02/22/2023	Analyzed: (02/23/2023			
Fluoride	ND	0.0250	mg/L							U
Chloride	ND	0.500	"							U
Sulfate	ND	0.500	"							U
LCS (23B0806-BS1)		Prepared: 02/22/2023 Analyzed: 02/23/2023								
Fluoride	2.47	0.0250	mg/L	2.500		99	90-110			
Chloride	50.5	0.500	"	50.00		101	90-110			
Sulfate	50.7	0.500	"	50.00		101	90-110			
Duplicate (23B0806-DUP1)	Sou	rce: 23C0243-	03	Prepared: (02/22/2023	Analyzed: (02/23/2023			
Fluoride	0.0980	0.0250	mg/L		0.111			12	20	
Chloride	13.8	0.500	"		13.8			0.08	20	
Sulfate	132	0.500	"		130			2	20	
Matrix Spike (23B0806-MS1)	Sou	rce: 23C0243-	03	Prepared: (02/22/2023	Analyzed: (02/23/2023			
Fluoride	3.58	0.0250	mg/L	2.500	0.111	139	90-110			J3
Sulfate	156	0.500	"	50.00	130	53	90-110			J3
Chloride	61.7	0.500	"	50.00	13.8	96	90-110			
Matrix Spike (23B0806-MS2)	Sou	rce: 23B0878-	01	Prepared: (02/22/2023	Analyzed: (02/23/2023			
Fluoride	2.82	0.0250	mg/L	2.500	0.577	90	90-110			
Chloride	77.6	0.500	"	50.00	31.0	93	90-110			
Sulfate	63.0	0.500	"	50.00	15.0	96	90-110			
Batch 23B0853 - Default Prep GenChem										
Blank (23B0853-BLK1)				Prepared: ()2/23/2023 .	Analyzed: (02/24/2023			
Fluoride	ND	0.0250	mg/L							U
Sulfate	ND	0.500	"							U

Florida-Spectrum Environmental Services, Inc. 1460 W. McNab Road, Fort Lauderdale, FL 33309

Pembroke Laboratory 528 Gooch Rd. Fort Mead, FL 33841 Big Lake Laboratory 610 Parrot Ave. N. Okeechobee, FL 34972 Lakeland Laboratory 111 Easton Dr. Lakeland, FL 33803





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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

		Wet Chemi	stry - Q	uality Con	itrol					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0853 - Default Prep GenChem										
LCS (23B0853-BS1)				Prepared: (02/23/2023	Analyzed:	02/24/2023			
Fluoride Sulfate	2.53 50.6	0.0250 0.500	mg/L	2.500 50.00		101 101	90-110 90-110			
Duplicate (23B0853-DUP1)	Source: 23B0928-01 Prepared: 02/23/2023 Analyzed: 02/24/2023									
Fluoride Sulfate	0.343 4.70	0.0250 0.500	mg/L		0.354 4.77			3	20 20	
Matrix Spike (23B0853-MS1)	Source: 23B0928-01 Prepared: 02/23/2023 Analyzed: 02/24/2023									
Fluoride Sulfate	2.52 54.6	0.0250 0.500	mg/L	2.500 50.00	0.354 4.77	87 100	90-110 90-110			Ј3
Matrix Spike (23B0853-MS2)	Sou	rce: 23B0939-	02	Prepared: (02/23/2023	Analyzed:	02/24/2023			
Fluoride Sulfate Batch 23B0876 - Default Prep GenChem	2.44 50.0	0.0250 0.500	mg/L	2.500 50.00	0.221 0.780	89 99	90-110 90-110			Ј3
Blank (23B0876-BLK1)				Prepared: (02/23/2023	Analvzed:	02/24/2023			
Total Dissolved Solids	ND	30.0	mg/L	1		<u> </u>				U
LCS (23B0876-BS1)				Prepared: (02/23/2023	Analyzed:	02/24/2023			
Total Dissolved Solids	516	120	mg/L	500.0		103	80-120			
Duplicate (23B0876-DUP1)	Sou	rce: 23B0887-	02	Prepared: (02/23/2023	Analyzed:	02/24/2023			
Total Dissolved Solids	414	60.0	mg/L		414			0.00	20	
Duplicate (23B0876-DUP2)	Sou	rce: 23B0973-	01	Prepared: 02/23/2023 Analyzed: 02/24/2023						
Total Dissolved Solids	2700	120	mg/L		2660			1.19	20	





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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Wet Chemistry - Quality Control										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
Batch 23C0147 - Default Preparation (GenChem									
Blank (23C0147-BLK1)				Prepared &	Analyzed:	02/28/2023	3			
Total Alkalinity	ND	10.0	mg/L							U
LCS (23C0147-BS1)				Prepared &	Analyzed:	02/28/2023	3			
Total Alkalinity	248	10.0	mg/L	250.0		99	90-110			
Duplicate (23C0147-DUP1)	Source	e: 23B0865-	28	Prepared &	Analyzed:	02/28/2023	3			
Total Alkalinity	11.6	10.0	mg/L		11.7			0.9	20	
Matrix Spike (23C0147-MS1)	Source	e: 23B0865-	28	Prepared &	: Analyzed:	02/28/2023	3			
Total Alkalinity	244	10.0	mg/L	250.0	11.7	93	90-110			
Matrix Spike (23C0147-MS2)	Source	e: 23B0928-	01	Prepared &	: Analyzed:	02/28/2023	3			
Total Alkalinity	309	10.0	mg/L	250.0	134	70	90-110			J3





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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Total	l Recoverable N	Ietals by E	PA 200	Series Met	thods - Q	uality Co	ontrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0119 - EPA 3010A										
Blank (23B0119-BLK1)				Prepared: 0)2/22/2023	Analyzed: ()2/23/2023			
Lithium	ND	25.0	ug/L							U
			Ü	D 1.0	2/22/2022	. 1 1 (22/22/2022			
LCS (23B0119-BS1)				Prepared: 0	12/22/2023 1					
Lithium	2440	25.0	ug/L	2500		98	85-115			
Matrix Spike (23B0119-MS1)	Sour	ce: 23B0874-	05	Prepared: 0	02/22/2023	Analyzed: (02/23/2023			
Lithium	2410	25.0	ug/L	2500	ND	97	75-125			
Matrix Spike Dup (23B0119-MSD1)	Sour	ce: 23B0874-	05	Prepared: 0	02/22/2023	Analyzed: (02/23/2023			
Lithium	2360	25.0	ug/L	2500	ND	94	75-125	2	20	
Batch 23B0120 - EPA 3010A										
Blank (23B0120-BLK1)				Prepared &	Analyzed:	02/23/2023	<u> </u>			
Beryllium	ND	1.00	ug/L	1 repared &	7 maryzea.	02/23/2023	,			U
Cadmium	ND ND	1.00	ug/L							U
Boron	ND	10.0	"							U
Barium	ND	1.00	"							U
Arsenic	ND	10.0	"							U
Antimony	ND	15.0	"							U
Гhallium	ND	4.00	"							U
Potassium	ND	50.0	"							U
Selenium	ND	15.0	"							U
Sodium	ND	2000	"							U
Calcium	ND	50.0	"							U
Chromium	ND	5.00	"							U
Molybdenum	ND	10.0	"							U
Cobalt	ND	1.00	"							U
Lead	ND	10.0	"							U

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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

То	tal Recoverable M	etals by E	PA 200	Series Met	thods - Q	uality Co	ontrol			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 23B0120 - EPA 3010A										
LCS (23B0120-BS1)				Prepared &	Analyzed:	02/23/2023	3			
Boron	511.6	10.0	ug/L	500.0		102	85-115			
Arsenic	495	10.0	"	500.0		99.0	85-115			
Barium	484.3	1.00	"	500.0		96.9	85-115			
Beryllium	506.5	1.00	"	500.0		101	85-115			
Cadmium	503.3	1.00	"	500.0		101	85-115			
Antimony	498.4	15.0	"	500.0		99.7	85-115			
- Fhallium	476.8	4.00	"	500.0		95.4	85-115			
Lead	492	10.0	"	500.0		98.5	85-115			
Molybdenum	508.4	10.0	"	500.0		102	85-115			
Potassium	24800	50.0	"	25500		97.4	85-115			
Sodium	25300	2000	"	25500		99.1	85-115			
Selenium	499.6	15.0	"	500.0		99.9	85-115			
Calcium	27400	50.0	"	25500		107	85-115			
Chromium	491.5	5.00	"	500.0		98.3	85-115			
Magnesium	497	20.0	"	500.0		99.4	85-115			
Cobalt	495.7	1.00	"	500.0		99.1	85-115			
Matrix Spike (23B0120-MS1)	Sourc	e: 23B0891-	04	Prepared &	Analyzed:	02/23/2023	3			
Boron	522.8	10.0	ug/L	500.0	44.60	95.6	70-130			
Beryllium	474.5	1.00	"	500.0	ND	94.9	70-130			
Barium	477.0	1.00		500.0	17.00	92.0	70-130			
Arsenic	464	10.0		500.0	ND	92.9	70-130			
Antimony	474.1	15.0		500.0	ND	94.8	70-130			
Гhallium	443.6	4.00		500.0	ND	88.7	70-130			
Cadmium	470.2	1.00	"	500.0	ND	94.0	70-130			
Molybdenum	488.8	10.0		500.0	ND	97.8	70-130			
Selenium	451.9	15.0		500.0	ND	90.4	70-130			
Magnesium	5390	20.0	"	500.0	4890	100	70-130			
Potassium	29300	50.0	"	25500	1890	107	70-130			
Chromium	467.4	5.00	"	500.0	ND	93.5	70-130			
Calcium	83700	50.0	,,	25500	57500	103	70-130			
Cobalt	468.3	1.00	"	500.0	ND	93.7	70-130			

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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Total R	ecoverable M	letals by E	PA 200	Series Met	thods - Q	uality Co	ontrol			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 23B0120 - EPA 3010A										
Matrix Spike (23B0120-MS1)	Sour	ce: 23B0891-	04	Prepared &	: Analyzed:	02/23/2023	3			
Sodium	49000	2000	ug/L	25500	21700	107	70-130			
Lead	466	10.0	"	500.0	ND	93.3	70-130			
Matrix Spike Dup (23B0120-MSD1)	Sour	Prepared &	Prepared & Analyzed: 02/23/2023							
Boron	514.8	10.0	ug/L	500.0	44.60	94.0	70-130	1.69	20	
Beryllium	467.8	1.00	"	500.0	ND	93.6	70-130	1.42	20	
Barium	471.0	1.00	"	500.0	17.00	90.8	70-130	1.31	20	
Sodium	48400	2000	"	25500	21700	104	70-130	2.47	20	
Antimony	475.8	15.0	"	500.0	ND	95.2	70-130	0.358	20	
Гhallium	438.8	4.00	"	500.0	ND	87.8	70-130	1.09	20	
Arsenic	459	10.0	"	500.0	ND	91.8	70-130	1.15	20	
Magnesium	5310	20.0	"	500.0	4890	83.6	70-130	18.2	20	
Cobalt	464.4	1.00	"	500.0	ND	92.9	70-130	0.836	20	
Molybdenum	482.8	10.0	"	500.0	ND	96.6	70-130	1.24	20	
Cadmium	463.9	1.00	"	500.0	ND	92.8	70-130	1.35	20	
Potassium	28800	50.0	"	25500	1890	105	70-130	1.86	20	
Selenium	448.6	15.0	"	500.0	ND	89.7	70-130	0.733	20	
Calcium	82600	50.0	"	25500	57500	98.4	70-130	4.36	20	
Chromium	463.4	5.00	"	500.0	ND	92.7	70-130	0.859	20	
Lead	460	10.0	"	500.0	ND	92.1	70-130	1.29	20	
Batch 23B0122 - EPA 245.1/245.2 Prep										
Blank (23B0122-BLK1)				Prepared &	: Analyzed:	02/24/202	3			
Mercury	ND	1.00	ug/L							U
LCS (23B0122-BS1)				Prepared &	: Analyzed:	02/24/202	3			
Mercury	10.2	1.00	ug/L	10.00		102	85-115			

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Work Order # 23B0874

Project: 2023 CCR Monitoring Program

McIntosh Plant

Total	Recoverable Mo	etals by E	PA 200	Series Met	thods - Q	uality Co	ontrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 23B0122 - EPA 245.1/245.2 Prep Matrix Spike (23B0122-MS1)	Source	e: 23B0878-	01	Prepared &	: Analyzed:	02/24/2023	i			
Mercury	9.18	1.00	ug/L	10.00	ND	92	70-130			
Matrix Spike Dup (23B0122-MSD1)	Source	e: 23B0878-	01	Prepared &	: Analyzed:	02/24/2023	i			
Mercury	9.12	1.00	ug/L	10.00	ND	91	70-130	0.6	20	





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McIntosh Plant

Notes and Definitions

U Indicated that the compound was analyzed for but not detected. This shall be used to indicate that the specific component was not

detected. The value associated with the qualifier shall be the laboratory method detection limit.

J3 The matrix spike recovery outside method acceptance limits indicating matrix interference.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

N.O.O. No Odor Observed

REP Field parameter measured by client

V Indicated that the analyte was detected in both the sample and the associated method blank.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Z Too many colonies were present for accurate counting.

SUB Work performed by outside (subcontracted) labs denoted by SUB in analyst field.

QC=Qualifier Codes as defined by DEP 62-160 Unless indicated, soil results are reported on actual (wet) weight basis. The Color SM2120B method is reported as (Color / pH) Legionella analyzed under CDC acreditation program Dilution factors \geq = 1000 are abreviated using k=1000 and M=1000000 Field parameters are not NELAP acredited. Results relate only to this sample.

Suresh (Bobby) Supan - CSM

Authorized CSM Signature (954) 978-6400 Florida-Spectrum Environmental Services,Inc. Certification# E86006

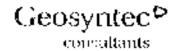
All NELAP certified analysis are performed in accordance with Chapter 64E-1 Florida Administrative code, which has been determined to be equivalent to NELAC standards. Analysis certified by programs other than NELAP are designated with a "~".

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WellD	Well Type	Historical GWPS exceedances	\$51.7	January & July Monitoring?	, Ranionate	Parameters
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		Dallium	AC.			.,,
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CLS 19	Maltisch & Extent	NΛ	NA.	VIS.	Evaluate into och blog Blowngrad epi CCB h	- Appendix III, (V, C.) se ti
GE 83	Nation & Extend	NA.	NA.	YES	Evaluate at smooth acts lifty in downgradient CCR 11	Appendix III, (V, CC) or to
иел .	Mating & Extro:	NA	RA	755	Cyalgate antend, godbility dewngradoor CCR 12	Appendix III, IV, GC sec
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COR 23	Nature & Extent	Na	N/A	د!۲	Evaluate February mobility dewogazation CGS 13	Appendix III, IV, GC ses
sw ma	Naticie & Enject	NA	, NA	YES	Exclusion SWP5 (znoglian) out- clowespecified (znogenty boundary)	Appendix 31, 97, 60 Met

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- 3. 3% interest cally significant event.
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- As expellent anomal arthropy, but they being any cadments in contain, coddly, lead to many one copy, in the new product, and may be all the sections as a Arthropy.
- 6. GC Sector Constitution Private images (sem, sociem, fix altocate, gastasseuri alcalia),







Memorandum

Date: 1 May 2023

To: Todd Kafka

From: Ashley Wilson

CC: J. Caprio

Subject: Stage 2A Data Validation - Level II Data Deliverables - Florida

Spectrum Environmental Services Lab Work Orders 23B0865,

23B0874 and 23B0983

SITE: McIntosh Power Plant – Lakeland Electric

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of forty-six water samples and two equipment blanks, collected 15-17, 20 and 22 February 2023, as part of the McIntosh Power Plant project. The samples were analyzed at Florida Spectrum Environmental Services, Inc., Fort Lauderdale, Florida, for the following tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3010A/200.7
- Mercury by US EPA Method 245.1
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0
- Bicarbonate and Total Alkalinity by US EPA Method 310.2
- Total Dissolved Solids (TDS) by US EPA Method 160.1 and Standard Methods (SM) 18 2540C

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on professional and technical judgment and the following documents:

• US EPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Superfund Data Review, November 2020 (EPA 540-R-20-006);

- Florida Department of Environmental Protection (DEP) Standard Operating Procedures (SOPs), January 2017 (DEP QA Rule, Chapter-62-160, F.A.C.); and
- The pertinent methods referenced by the laboratory reports.

The following samples were analyzed and validated at a Stage 2A level:

Laboratory IDs	Client IDs
23B0865-01	CCR-1A
23B0865-02	CCR-1B
23B0865-03	CCR-2A
23B0865-04	CCR-2B
23B0865-05	CCR-4A
23B0865-06	CCR-4B
23B0865-07	CCR-6A
23B0865-08	CCR-6B
23B0865-09	CCR-13A
23B0865-10	CCR-13B
23B0865-11	CCR-12A
23B0865-12	CCR-12B
23B0865-13	CCR-23A
23B0865-14	CCR-23B
23B0865-15	CCR-22A
23B0865-16	CCR-22B
23B0865-17	CCR-21A
23B0865-18	CCR-21B
23B0865-19	CCR-20A
23B0865-20	CCR-20B
23B0865-21	CCR-19A
23B0865-22	CCR-19B
23B0865-23	CCR-5A
23B0865-24	CCR-5B

Laboratory IDs	Client IDs
23B0865-25	CCR-18A
23B0865-26	CCR-18B
23B0865-27	CCR-11A
23B0865-28	CCR-11B
23B0865-29	LAKE-D-A
23B0865-30	LAKE-D-B
23B0865-31	FISH LAKE A
23B0865-32	FISH LAKE B
23B0874-01	CCR-15A
23B0874-02	CCR-15B
23B0874-03	CCR-16A
23B0874-04	CCR-16B
23B0874-05	EQBCCRA
23B0874-06	EQBCCRB
23B0874-07	CCR-17A
23B0874-08	CCR-17B
23B0874-09	CCR-7A
23B0874-10	CCR-7B
23B0983-01	CCR-9A
23B0983-02	CCR-9B
23B0983-03	CCR-8A
23B0983-04	CCR-8B
23B0983-05	SW-106A
23B0983-06	SW-106B



The samples were received at the laboratory at 3.2 degrees Celsius (°C), 2.8°C, 4.0°C, 0.8°C and 0.7 °C, within the criteria of 0-6 °C. No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the 23B0865 and 23B0874 chain of custody (COC) forms, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The "ND" results were changed to the method detection limits (MDLs) in the Validation Result column of the electronic data deliverable (EDD).

The results that were flagged I to indicate the concentration was estimated greater than the MDL and less than the reporting limit (RL) were J qualified as estimated in the Validation Qualifier column of the EDD.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3010A/200.7 (Mercury evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The metals data reported in the laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this sample set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a preserved water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

It was noted that the dates of digestion and analysis did not include the year in the level II laboratory report; the dates were complete in the EDD.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (batches 23B0117, 23B0118, 23B0119, 23B0120, 23B0131 and 23C0016). Metals were not detected in the method blanks above the MDLs.

1.4 <u>Matrix Spike/Matrix Spike Duplicate (MS/MSD)</u>

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). Four sample set specific MS/MSD pairs were reported, using samples CCR-1A, CCR-20A, EQBCCRA and SW-106A. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

Two batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 <u>Laboratory Control Sample (LCS)</u>

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCS/LCS duplicates (LCSD) pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set and reported for metals, EQBCCRA. Metals were not detected in the equipment blank above the MDLs.

1.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

1.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.9 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. The following issues were noted in the EDD review:

- Level II report noted an "I" qualifier (the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit). The validation qualifiers for these results were changed to J as estimated.
- The method blank data were reported to the RLs in the level II reports and the MDLs were listed in the EDDs. Upon review of the EDDs, it was verified that the method blanks were assessed to the MDLs.

No other discrepancies were identified between the level II reports and the EDDs.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 245.1.

The areas of data review are listed below. A leading check mark (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in the laboratory report are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this sample set is 100%.

2.2 <u>Holding Times</u>

The holding time for the mercury analysis of a preserved water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 23B0121 and 23B0122). Mercury was not detected in the method blanks above the MDL.

2.4 <u>Matrix Spike/Matrix Spike Duplicate</u>

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD was reported for mercury using sample CCR-21A. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 <u>Laboratory Control Sample</u>

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set and reported for mercury, EQBCCRA. Mercury was not detected in the equipment blank above the MDL.

Final Review: K Henderson 05/03/2023

2.7 Field Duplicate

A field duplicate sample was not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports at a minimum of 20% as part of the data validation process. The method blank data were reported to the RL in the level II reports. Upon review of the EDDs, it was verified that the method blanks were assessed to the MDL. No other discrepancies were identified between the level II reports and the EDDs.

3.0 WET CHEMISTRY

The samples were analyzed for anions (chloride, fluoride and sulfate) by US EPA method 300.0, bicarbonate and total alkalinity by US EPA method 310.2, TDS by US EPA method 160.1 and SM 18 2540C.

The areas of data review are listed below. A leading check mark (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this sample set is 100%.

3.2 Holding Time

The holding times for the wet chemistry parameters are listed in the table below. The holding times were met for the sample analyses.

Analysis	Holding Time
Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0	28 days from collection to analysis

Total Dissolved Solids by US EPA Method 160.1 and SM 2540C	7 days from collection to analysis
Alkalinity by US EPA Method 310.2	14 days from collection to analysis

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for each analysis batch (anions batches 23B0805, 23B0806, 23B0853, 23B0879 and 23B0880; TDS batches 23B0839, 23B0876 and 23C0168; and total alkalinity batches 23B0798, 23C0147 and 23C0151). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 <u>Matrix Spike/Matrix Spike Duplicate</u>

Two sample set specific MSs were reported for fluoride, chloride and sulfate, using samples CCR-18B and SW-106B. Three sample set specific MSs were reported for alkalinity, using samples CCR-23B, CCR-11B and SW-106B. The recovery results were within the laboratory specified acceptance criteria, with the following exception.

23B0865: The recovery of alkalinity in the MS using sample CCR-23B was low and outside the laboratory specified acceptance criteria. Therefore, the alkalinity concentration in sample CCR-23B was J- qualified as estimated with a low bias.

Batch MSs were reported for fluoride, chloride, sulfate and total alkalinity. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
CCR-23B	Total Alkalinity	37.9	J3	37.9	J-	4
CCR-23B	Bicarbonate	37.9	NA	37.9	J-	4

mg/L-milligram per liter

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported for each analytical batch per analysis. The recovery and RPD results were within the laboratory specified acceptance criteria.

J3-the matrix spike recovery outside method acceptance limits indicating matrix interference

NA-not applicable

^{*} Validation qualifiers are defined in Attachment 1 at the end of this report

^{**}Reason codes are defined in Attachment 2 at the end of this report

3.6 **Equipment Blank**

One equipment blank was collected with the sample set and reported for wet chemistry parameters, EQBCCRA. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.7 <u>Laboratory Duplicate</u>

Two sample set specific laboratory duplicates were reported for total alkalinity, using samples CCR-11B and SW-106B. Two sample set specific laboratory duplicates were reported for fluoride, chloride and sulfate, using samples CCR-18B and SW-106B. One sample set specific laboratory duplicate was reported for TDS, using sample CCR-13B. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported for fluoride, chloride, sulfate, TDS and total alkalinity. Since these were batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

3.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

3.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

3.10 Electronic Data Deliverable Review

The results and sample IDs in the EDDs were reviewed against the information provided by the associated level II reports for fluoride and total alkalinity at a minimum of 20% as part of the data validation process. The following issues were noted in the EDD review:

- The I flag that was used in the level II reports for alkalinity were not used in the EDDs. The report noted an "I" qualifier (the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit). The validation qualifiers for these results were changed to J as estimated.
- The method blank data were reported to the RLs in the level II report. Upon review of the EDDs, it was verified that the method blanks were assessed to the MDLs.

No other discrepancies were identified between the level II reports and the EDDs.

* * * * *

ATTACHMENT 1 DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated OC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2 DATA VALIDATION REASON CODES Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Laboratory flag was removed or modified: no validation qualification required
NV	Data were not validated



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

3901 (Coconui Palm Dr. Ste 107 Tampo, Ft. 33619 Direct: \$13-626-1001

Pine Environmental Services, Inc.

Instrument (I) 30424

Description BIACH 2100Q Torbidiatelet

Cationated 2/9/2023 4:21:05PM

Manufacturer HACH

Model Number, 2140Q

Serial Number/ Lot 140800034439

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Lucation Florida

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P363

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Notes about this calibration

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> Calibration Result | Calibration Successful Who Calibrated Evan McClorthan

Goosyntee Consultants Water Quality Instrument Cattleration Form

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WO Gal Form (Version 2)

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Geosyntec Consultants Water Quality Instrument Calibration Form

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Geosyntec Consultants Water Quality Instrument Calibration Form

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Water Quality instrument Calibration Form Geosyntec Consultants

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Form #09000-8 (AUBRATION LOG | FDEP 509 FT 1000-FT 1500, FD 1000-FD 4000)

Water Quality Instrument Calibration Form Geosyntec Consultants

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EQUIPMEN (Only lift out	i T VOLUME P il appicable)	UROL· 1 EQU	IPMENT VOL.	- PUMPV	feet - OLUMP + (T galkon - 🗡		ity x	TUMING LENGTH		LL VOLUME	#\$=.43 #\$=.43 - 4 _{gallen}
DEPTH (fee	Whom tonin	3.7	DEPTH (6-0	PORTOR	23.	F INDIA	NG 1-4-16	PURGING ENDLD AT	1500	TOTAL VO	
1 IMt.	VOCUME PURGED (gallora)	(guiloos) PHROFO VOLUMO GUMUI	PDACE NATI (gpm)	DI PTH TO VVA FI R (Punt)	PH	a 11 MP.	(COND. co:rde un. 5) umhos/cm or(uS/cm)	DISSOLVED DAYGEN (circle units) (mg/L) or % Enforction	TURIUM (NTUR)	V COL	ок \ он
450	8.0	8.6	0.08	11.33	5.64	1 25.1	218.2	0.18	2.03	+ 100.	- 1
458	0.16	896	0.0¥	11.83	5.64	25.1	2.28.1	0.17	1.73	TP.	
1500	0.16	† .12	80.0	11.33	5.64	25.1	218.7	0.16	1.84	b	
											1
TUBING IN	ACITY (Gallon SIDE DIA. CAI OUIPMENT C	PACITY (Gal./F	1) 1/8" = 0.0		Pump;	1/4 0.00	26. 5/16" = 0 Sub1m/s bit: Pt	004: 5/8"	5" - 1,02; 0,006; 1/2" 'crista-tic Pum	6" - 1,47 "= 0,0*0 p; O (127 - 5.88 6/8* - 0.016 Other (Specify)
حترنا	HDJ (MA)	Swort Ge	osyntec (Den	S) SIGNATU	3200	Janes	SAMPLING INITIALL, I A	T 1500	SAMPTI LNDLD	NC 1504
PUMP OR I	DRING T	3.7		TUBING MATI: HIAL	CODE HUI	LS		LILTERED Y un Equipment Ty		титен	SIZE: pm
ILLO DE CO	NTAMMATIC	IN PILM			DUMNG		epiaced;	DUPLICATI	Y	(D)	
	LE CONTAINE	BUSING CIERCAT			SAMP 1	PRESERVATIO	DN.	INTEND	10 5	AMPLING	SAMPLE PUM
SAMPLE	CONTAINERS	CODE	VOLUME 1	PRITATRO) USUD	0.000	TOTAL VOL	(mt.) PH	ANALYSIS A	IND/OR TO	COUNT.	(mt per minute
Ca-10	1.20	PP	250mL	1 1 HN	03	None	NA.	Metal	lk Jo	pp	4400
ره-۱۱	1	CP P	250ani	loe		None	NA	B, Ca, Cr SO4, 10 bicarbon elkalan	DS, 1810.	1010	2400
KEMAHKS S 244	امعام	<u>⊅+</u> [<	GOD								
	LOUIPMENT	RF	PP - Affer Peri	static Pum Fran Pors	o Bille tartic Pump	5M = Shaw	I*P = Polygropy It ackier Plying Method (Tubing ter 62-160, F.A	(Glavity Disch), -	one III- Noi nd Submirrotti D = Ojher	e Pump.	Other (Specify)

pH: ± 0.2 units. Temperature: ± 0.2 °C. Specific Conductance. ± 5% Dissolved Oxygon: all readings < 20% saturation (see 1able FS 2200.2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all readings < 20 MTU, optionally ± 5 MTU or ± 10% (whichever is greater).

² STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

	CCR-	7		SAMPLE	" CL	2 - 7			WILL D	15 - U	n 7 72
	C C 14			_		SING DA	TΛ		-	13-0	472
WHI	-	TUBING	,		LE SCHI LN	INTERVAL	STATIC C	SEPTIL TO WAT	Ele P	OKGI, PUMI	TYPI
	K proches: Z		FR (nches)		THIS World	lo Lecoliti	OC (feet) ISTO	1C. JB. (→ 1	0	R BAILFR 1	PP
(Only fill or	d d applicable)	1 WELL VOI		TAL WITE DIT		IIC DEPTH	IO WATER) X	-WELL-GAIMS	HY	plant and	
гошемя	NT VOI UME P	URGE: 1 EQU	IPMENT VO	L. + PUMP VOI	Cent - COME • CLUI	IING CAPAC	feet) X	JBING LENGTH	gallons/	foot #	A4
(unly fill or	il if applicable)	77,550					unatout x 3 C		D+ 0.1		14
INITIAL PI	IMP OR TUBIN	23.75	PINAL PO	MP OR TURINO	::	CHILDREN		DUDGONG			
TWAT	VOLUME PUNGED (gallons)	COMOL VOLUMI PONTO D (Quilloin)	PURCI RATE (gpm)	DEPTH TO WATER (Burl)	pri Istandard Units)	ILMP (C)	(CDNO) (c role unds) µmhos/cm or (µS/cm)	OXYGI N (cucle units) (mg/L) gr	TURRIF (MTD:	v co	COPPO :
1462	8.96	2.90	0.09	18.87	562	25.5	178.1	0.24	6.4	3 (00	. 1
1404	0.16	1.12	0.05	10.23	559	75.5	142.3	0.13	6.4	-	1
1406	0.16	1.28	0.08	10.87	5.58	25.5	173-0.9	0.14	6.84		T \
1423	1.36	2.64	D. 08						G.5		
<u> 1441</u>	1.444	4.08	0.05	10.81	561	25, 5	178.2	0.14	4.7		
		_									
										-	~_
TUBING IN	PACITY (Gallor ISIDE DIA, CA	PACITY (Gal /F	.75" - 0,67. 1.): 1/8" - 0	1" : 0 04, 0006: 3/16"	1.25" - a.b. - 0.0014;	1/4" = 0.000			5" 1,62 1,006 1/	6" - 1,47. 2" - 0,010:	5/8" = 0.0
PURGING	EQUIPMENT (ODES. 0	taren.	8P - Gladdar (Submorsible Pur	пр: РР - н	enstalte. Pu		Other (Spec
				WAY 807 200 W		LING DA	ATA				
	ny (puint _h a In lyna a e	-And Gen	syntac	SAMPLER(S)	TO.	SANT	new	SAMPLING INTHATED A	144	SAMP	
HVI T	HIMING L			1DRING	ca c	LINCO		FILTERITY Y	(N)	FILTOH	
PUMP OR	eliator 2	3.75		MATERIAL CO		-	-	r Equipment Ty	Annual Sections	0.00	
DI PIN CE		ON PUMI	Y (1	9	TUBING	A (NO	eplaced)	DUPLICATE		<u>(a)</u>	_
DI PER CO THUC OF C										SAMPLING.	SCAMPL 6
PUMP OR DITTH (% THEO DIT SAME	TI CONTAINE	A SPI CIFICA			_	CHAVRES	_	ANALYSIS A		EUUII'MI N	
DI PER CO THUC OF C	PALECONTAINE = CALCATRON	WTPA XXE	VOLUME	PRESERVAT. USFD	NO NO N	OTAL VOI DINTERCON	ruL) pli	ANALYSIS A METHO	ND/OR I		
PUMP OR UT ITM (% THILD OF C SAME	PLI CONTAINS =			PRUSERVAT.	NO NO N	OTAL VOI	FINAL	ANALYSIS A	NU/OR I	CODE	FLOW
SAME	PALECONTAINE = CALCATRON	WTPA XXE	VOLUME	PRESERVAT. USFD	NO NO N	OTAL VOI DINTERCON	ruL) pli	ANALYSIS A METHO Metab	ND/OR I	1000EN7	AHD:
PUMP OR UT ITM (% THILD OF C SAME	PAINTAINO I P E PAINTAINO: 1	00 00	VOLUME 250mL	PRESERVATA USFD 1 T HNOS	NO NO N	OTAL VOI DIN FIELD () None	mL) pli NA	ANALYSIS A METHO Matals	NU/OR I	CODE	Fit DW (mt per
SAME	PAINTAINO I P E PAINTAINO: 1	00 00	VOLUME 250mL	PRESERVATA USFD 1 T HNOS	AUDE	OTAL VOI DIN FIF (0 /2 Nane None	nL) FINAL pli NA NA	ANALYSIS A METHO Metab B, On, Or SOM, TO bicurtein, alkaliny	NUTOR III	1000EN7	AHD:
SAME THE DIE CONTROL SAME THE DIE CONTROL	PI CONTAINE 2012 9129 1	PP	VOLUME 250mL 250mL	PRESERVATA USFD 1 T HNOS	AUDE	None None	mL) pli NA	ANALYSIS A METHO Metab B, On, Or SOM, TO bicurtein, alkaliny	NUTOR III	1000EN7	Ard o

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABLIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3).

 $p^{3/2} \pm 0.2$ units. Temperature: $\pm 0.2\%$. Specific Conductance: $\pm 5\%$. Dissolved Daygen: all readings $\pm 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/l. or $\pm 10\%$ (whichever is greater). Turbuility: all readings ± 20 NTU: optionally ± 5 NTU or $\pm 10\%$ (whichever is greater).

	CCR-	476	X	844	APLA, JO	CC	R-4			DATE	Z - 15	5.202	3
		-	772				ING DA						
VELL VOL	(none) Z	1 ULIIN DIAME 1 WELL VO	TLH (Inches)	3/LL STAL WELL	DICHUHS.	5 (0π)	NTERVAL IO Z85 eetB14 IIG DEPTH T	OG (foot) HT			OR BAIL	PUMP TYPI ER:	₽.₽,
QUIPMEN	i filozoficache: VT VOLUME Pr i filozoficache)	UKOE: 1 EQ	JIPMENT VO	PLIT PUMP		(TUB	ING CAPACI		UIUNG LENGTH) • FLOW		THUME	gellons 156 _{jalkos}
HELDAN FELL (a) FELLONG	MEDRITURIN 60 8100 P	£ 24		IMP OR TU		24	1			1752	TO	TAL VOLU-	(L
Tirel:	VOLUM) PURGI D (GAHODS)	CUMUI VOLOMI PURGITO (palform)	PURGI HAIL (gpm)	CO1 CO1 TAW (col)	IR (ALE)	H klard is;	TIMP (*C;	COND (since units) pmhos/cm or (u8/cm)	OXYGUN (clocke units) (mg/L) gr	TURNI (TIA)	אזוט	COLOR (GenC+On)	9HO (V=)
<i>†1</i> /	.50	.50	.10	15.3	21 4.1	5	25.1	12474	0.32	20.	0	clear	-33.7
									(pur	ged e	, to	to d	iear tu
Q.B			-	+	+	_			0.50	10.	2	_	
44B	4.20	4.20	.10	150	21 4.	12	z4.6	11977	0.18	3.5	73	clear	-84-
750	. 20	4.46	1	15.3	zi 4.	12	ولا له	11873	0.18	3 - 3		- (3	- 85.0
152	.to	4.60	1	(30)	214.	12	24-6	11869	81.0	4-	12	ч	- 85.
				_									
BING IN	ACITY (Gallon SIDE DIA, CAR EQUIPMENT G	ACITY (Gal./	(175" - 0.02; FL): 178" - (1/16" = 0.00		1/4" = 0.002	6 6/16" - 0	004; 3/8" ~ 0		1/2" · 0.0	010; 5/8	= 5.88 = 0.016
JBING IN: JHGING E	SIDE DIA. CAN EQUIPMENT C BY (PRINT) / A	ACITY (Gal./ ODES: U	PL) 4/85 - C - Mader,	DP 11Inde	V16" = 0.00 dor Pump.	MPJ	ING DA	6 6/16" - O Submaratila Pu	904; 3/8" ~ 0 mp; (4)* = 13 SAMPUING	custellic P	1/2" 0.0 ump;	O - Ωther	= 0.016 (Specify)
MPLED I	SIDE DIA CAN EQUIPMENT C BY (PRINT) / A VATHEAS	ACITY (Gal./ ODES: U FFILIATION /Ce	FL) 1/81 - (DP 11Inde	ofer Pump. SA	MPJ	ING DA	6 6/16" - 0 Submeratole Pu TA	SAMPLING	costaltic P	3 i	O - Other AMPLING NOI D A1	*= 0.016 (Specify) 1757
MPLED I	SIDE DIA. CAN EQUIPMENT O BY (PRINT) / A VATH AS FURING (I) STOC	ACITY (Gal/ ODES: U FFILIATION /Ce	Baller,	SAMPLE TUBING	SA B(S) S(SN/	MPI MPI	IM" = 0.002 IP - Frenc LING DA	6 616" - 6 Supermentale Pu TA	SAMPUNG INITIATED A FILTERED Y on Equipment Ty	cristellic P	1/2" · 0.0 ump;	O - Other AMPLING NOLD AT	= 0.016 (Specify)
MPLED I	SIDE DIA. CAN EQUIPMENT OF BY (PRINT) / A VATHEAS FORING (I) STOC ONTAMINATIO	ACITY (Gal/ ODES: U FFILIATION /Ce 24	italier, italier, iosyntec	BP - Illind	SA BOD SIGNA L GODE F	MPI	ING DA	6-16" - 6 Supmensible Pu TA FIELD Flaced	SAMPLING INITIATED A FILTERED Y ON Equipment Ty DUPLICATE	cristellic Pr	1/2" 0.0 ump:	O - Other	*= 0.016 (Specify) 1 757
JBING IN JAGING E	SIDE DIA. CAN EQUIPMENT O BY (PRINT) / A VATH AS FURING (I) STOC	ACITY (Gal/ ODES: U FFILIATION /Ce 24	italier, italier, iosyntec	SAMPLE TUBING	SAMP	IMPI MPI IDPE, S INCL	IM" = 0.002 IP - Frenc LING DA	Supmerable Pu TA FIELD placed N FINAL	SAMPUNG INITIATED A FILTERED Y on Equipment Ty	pe N/A	1/2" · 0.0 tump;	O - Other AMPLING NOI DAT ITER S ZE LING 19 MENT 19	*= 0.016 (Specify) 1757
MPLED IN MILE OF COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN TO THE COLUMN THE COLU	SIDE DIA CAN EQUIPMENT OF BY (PRINT) / A VATHEAS FURING (I) STOC ONTAMINATION #	PACITY (Gal/ ODES: U PHILIATION /Ge Z 4 2N PUN PASPILOFIC/	italiar, dosyntec	SAMPLE TUBING MATERIA	SAMP	IMPI MPI IDPE, S INCL	S V Nice	Supmerable Pu TA FIELD placed N FINAL	SAMPLING INITIATED A FLITERED Y ON Equipment Ty DUPLICATE INITIATION ANALYSIS A	pe N/A	3 SAMPLE COLUMN	O - Other AMPLING NOI DAT ITER S ZE LING MENT R (m	*= 0.016 (Specify) 1757 4T
MAPLED IN COME	BY (PRINT) / A WATH A S FUHING: #) BTGC UNITAMINATIO CONTAINERS	PHILIATION / Ce 2 4 SN PUN PUN PARENAL SORE	in) servit Baller, cosyntec in y (SAMPLE TUBING MATERIA PRESIDE	SAMP VATIVE NO3	IMPI MPI IDPE, S INCL	S V Nare	Supmerable Putta	SAMPLING INITIATEU A FILTERED Y SO Equipment Ty DUPLICATE INITIATION ANALYSIS A MILTER	DDS CONTRACTOR NO.	SAMPLE COURSE	O - Other AMPLING NOI D A1 ITTER S ZE LING WENT R A	*= 0.016 (Specify) 17-57
MPLED IN MPLED IN MPLED IN MPLED IN COMPANDE CODE	SIDE DIA CAN EQUIPMENT G BY (PRINT) / A VATH A S FUHING B) BTGC UNTAMINATIO (F) CONTAIN() CONTAINERS 1	PHILIATION / Ge Z 4 SN PUN R SPLORIO SOR PR	Description of the control of the co	SAMPLE TUBING MATERIA PRESIDE USS 1.1 HI	SAMP VATIVE NO3	IMPI MPI IDPE, S INCL	S N (recover) S N (recover)	FIELD placed N FINAL NA	SAMPLING INITIATED AT FLITERED Y ON Equipment Ty DUPLICATE INITIATION ANALYSIS A MULTINO Metals B, Cw, Ct SQA, TU Dicurpont	DDS CONTRACTOR NO.	SAMPLE COURT	O - Other AMPLING NOI D A1 ITTER S ZE LING WENT R A	*= 0.016 (Specify) 17-57
MPLED IN MPLED IN MPLED IN MPLED IN COMPANDE CODE	SIDE DIA CAN EQUIPMENT C BY (PRINT) / A VATHEAS FUHING H) BTOC UNTAMINATIO F (* CONTAINS) CONTAINERS 1	PHILIATION / Ge Z 4 SN PUN R SPLORIO SOR PR	Description of the state of the	SAMPLE TUBING MATERIA PRESIDE USS 1.1 HI	SARGE SAMP	IMPI MPI IDPE, S INCL	S N (recover) S N (recover)	FIELD placed N FINAL NA	SAMPLING INITIATED AT FLITERED Y ON Equipment Ty DUPLICATE INITIATION ANALYSIS A MULTINO Metals B, Cw, Ct SQA, TU Dicurpont	DDS CONTRACTOR NO.	SAMPLE COURT	O - Other AMPLING NOI D A1 ITTER S ZE LING WENT R A	*= 0.016 (Specify) 17-57

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Caygen: all readings \pm 20% saturation (son Table 1.5.2200.2), optionally, \pm 0.2 mg/L or \pm 30% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 70% (whichever is greater).

^{7.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

NAME. LE	skeland Ele	ctric MPF	CCR	-919		20 10	it GATION Le	ikele	nd. FL					
WELL NO	CCR	- 5		SAI	мрыг на	C¢	R-S				DAIL	2 · 1	الم ، و	P23
				- 11.		PURG	ING DA	TA						_
WELL DIAM([7]]	A (muhas) 2		TER (mones)		DI PTH	B. Pont	n I I RVAL In 22 - P nack T	or:	(Mei) HTQ		ر ا	URGE P H BAILL	UMP IYP H	° P.P.
CONTRACTOR	A f applicable) NT VOLUME PL		- (7,570,100	fee	H =	ING CAPAC		feet) X	WELL GAPACE	gations/			gallons
(only IIII ou	n if #opiicabins			*	gallo	na+ ,4	00 t4 9411	nb/00	1x 3	5 teoli	1		allons =	.149allons
DEPTH (N	JMP OK TUBING et) BTOC #	ZIĄ		MP OR IN	IBING	√Z!	PURGIS INDIAN	TA U.	1617	PUAGINO I NDI DIAT	jĻZI	101 PUR	AL VOLU IOI II (gai	
frMi'	VOLUMI POAGLD (galvina)	(dalpos) AOLOMI, COMUL	PURGO RATE (gpm)	DI P' TO WAT (fee	in to	DH tendard Unite)	TEMP. (C)	(card	OND le unical) nosition uS/cm	OISSOLVED OXYGEN (circle units) (mg/L) at % Batterston	TURBIT		COLOR (describe)	ORP (mV)
1422	.450	.50	.10	11.4	17 4	:33	75.3	15	704	0.68	2.3	7	clear	-62.8
1624	.20	.40	1	((.4		-33	25.2	(5)	709	0.59	2.5	į.	LΓ	-63.4
1676	-20	.40	-	11.0	17 5	. 32	25.2	15	713	0.53	2-7	4	(1	- 64.5
					+									
									u ranoma a il					
TUBING IN	PACITY (Garlon: 1810E DIA, CAP EQUIPMENT G	ACITY (Gal.	0.76" 0.02, (Ft.) 1/8" (1 = (la-mr		3/16" = 0	-	1/4" = 0.002	6,	" = 0.37; 5/14" - 0.0 5/14" - 0.0	004: 5/8" 0	6" - 1.62 .006; 1 aretelle: Ps	6" = 1 (2" 0.0 (mp.	10, 5/6	1" = 0.016 (Specify)
						AMP	LING DA	۸TA	700					- Andrewski
	ву (еніні) / А МфТН і ф е) /06	eosyntec	SAMPLE	RIS) SIC	Ma	Drie	4		SAMPLING INITIATED AT	(62	7 5	MPLING IDEO AT	1629
PUMP OR OUR FRIENDS	TUINING #	-24		MATERI		HDPE.	s _			FILTERCO Y or Equipment Ty	DO: N/A	FIL	TER SIZE	,60
1,710	ONTAMINATIO	N Puk	AP Y C	(A		UBING	-	pi-nom	-	OUPCIGATE	y	(N		
SAM	PLC CONTAINE	R SPECIFIC	ATION		:54	MPLF PR	CSCRVATIO	N		INTLIND		PIMAS		амит пруме
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUMI	190 865	(VATIVI. I'D		OTAL VOL	251.5	FINAL oH	ANALYSIS AL		MYNOOD COD		TROWITATE of partitions
¢ኢና	1	PP	250mL		(NO3	711111	None		NA	Melais		A PA		~ 380
CR-5	1	βÞ	250ml.	le			None		NA	B. Ca. Cl. SO4, TC bicarboni alkalini	S. utn	1		}
RI MARKS		NE T	IME:	160	27									
	-	. –												
MATERIA		AO Amber		- Clear Cl		re - Polyc	olfylcna	Lib. 1	'alypropyl	arva, Bir Silico	one T	Tellan	D = Oth	or (Specify)

pH. + 0.2 units. Temperature. + 0.2 °C. Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% seturation (son Table FS 2200-2), optionally ± 0.2 mg/L or ± 10% (whichever is greater). Torbidity: all readings ≤ 70 N1U, optionally ± 5 N1U or ± 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 52-160, F.A.C.

^{2.} STARILIZATION CRITICINA FOR RANGE OF VARIATION OF LAST THREE CONSECURING READINGS (SEE PS 2212. SECTION 3).

10.14.445		ectric MPF	CCR				akeland, FL					
M H NO	CCR-	6		SAMPLE		K -G			DATE	<u>2- r</u>	5-20	23
WELL VOL BRIV 11 OUT	t (riches) 2 UME PURGE (rapplicable)	1 WELL VO	IG T/ ET(& Intches) DLUME = (TOTA	WILL DE	II SCRIFN PHY Y A ed PH - SIA Test -	ric ocern	GC (fnel) NI ID WATER) X	WELL CAPAC	TY	PURG OR BA	E PUMP T	gallor
only milioni	if applicable)		UIPMENT VOL.	_	-	SING CAPAC	onutaen X	UBING LENGTH	- I-LOV	weett • •	VÓLUMI gallans	<u>≱3 ¤. 465°</u> . IS ⊙a or
	MP OR TURN M) BTOC 💆		DEPTH (fee	P OR TUDING	25.6	INTIA	DAIL 710		18 00	2 2	OTAL VO	patonsi 2 - 3
TIM	VOLUME PURCHO (guitana)	COMPL VOLUME PUNGED (gal-ons)	PURGE	DEP1P TO WATER (feet)	pH (etendand units)	CLMP. (FC)	COND (circle units) µmhasicm of µ8/cm	OXYGI N (circle units) (mg/L) ot		ונטון 10מון	CO10 (0#60*	
1724	3.45	0.45	0.05	10.19	G.33	24.5	333.)	0.21	4.5		cles	. \/
740	0.5	1.65		10.17	6.18	24.6	545	2.14	21	57-	u,	+V
902	4.5	245	1.05	10.17	G.17	24.3	2182	D. 11	1.		17	1
804	D. 1	2.25	0-05	1.12	C.17	24.2	2155	0.12	2.0	_	b	$\perp \Lambda$
₹06	Ď.1	7.35	0.05	in 14	6.16	24.2	2149	0.12	2.	7	11	+
DOING IN		ns Per Pool) PACITY (Gal	A () 4/80 - 0,0	1" n 0.04 000 3/16" IP - Niagger I	Carlo de Carlo	1/4" - 0.000		004 3/8" = 0	5" = 1,0 008	1)2" -		12" 5.88 6/8" - 0.016 3:10: (Specify)
				anne -	SAMP	LING DA						(opecity
	He/Live	ALTHINTION	oosyntoc (Direct TUBING		no 1	and the	SAMPLING INITIATED AT	-	6	SAMPLIA INDEDIA CILTERIS	A1 1012
CPTH (NY	MI RTOC	23.6		MATERIAL C	ODI HOPI		Hitrat	ion Equipment Ty	par = N/		√)	
	TAMINATINO MATRICO LIS	ir Riistelijaleigi II Riistelijaleigi				CLSLICVATIC	nptaceal)	DUPLICATE		_	MPLINO.	SAMPLE PUN
JF_E	: 127948	WE C		PRESERVAT USCU	IVI 1	COTAL VOI	TINAL	ANALYSIS A MLTRO	NO/ON	1.00	PMI NT	(Tuper of out
Peg-3	1	L/L	250mL	1.1 HNO:	3	Nonn	NA.	Metals	•	Ηį	P	400
	1	ųγ	250ml	lco		None	NA	B, Ca, Cl SO4, Ti bicarboni Alkalim	osi, oto.	pp+		CMOD
-6B												
-4B												
- GB												

NOTES: 1. The above do not constitute all of the information required by Chapter 82-180, F.A.C.

2. Stam (2ation Criticial For Range of Variation of Tabl. Line F. Consecutive, Alaborator (all 1.8.2212, all from 3)

ph: • 0.2 units. Yemperature: • 0.2 °C. Specific Conductance: • 5% Dissolved Oxygen: all roudings • 20% saturation (see Table F.5.2200.2); aptionally, § 0.2 mg/l, or § 10% (whichever is greater). Turbidity: all readings ≤ 20 NTU, optionally + 5 NTU or § 10% (whichever is greater).

MALL NO (sm. _{NAME} La	keland Ele	ecina MPP	CCR			TE DOATION LA	akeland. FL				
MILLIFORNIA TURNOS TURNO	WULL NO	1023			SAMPTI					DATE 2 -	70-	277.3
MILLIPTORNS DIAMPTER CODES ON THE COLUMN PURCE TO WILL VOLUME - (CITAL VILL) DEPTH - STATE DEPTH TO WATER X WALL CAPACITY WELL VOLUME PURCE TO WILL VOLUME - (CITAL VILL) DEPTH - STATE DEPTH TO WATER X WALL CAPACITY TO SHAPP THE CODES OF THE CONTROL OF THE CODES OF THE CONTROL OF THE CODES OF THE CONTROL OF THE CODES OF THE								TA			20	D-0-7
Comment Volume Purce 1	WELL YOU	UME PURGE	DIAMET	If R (nohes; *	16 OL	LL SCAFEN PTH /8 7 661	N ERVAL feetB	STATE OC (filed) FIT	00 10.6.2	080	OE PUMP J	حُاثِ
NITAL PUMP OR TURBER PURCE	EQUIPMEN	IT VOLUME P	URGE 160U			LUME + (TU)		HY X T	URINGHENGTH	I + FILOW OF	I VOLUME	gallons
TIME VOLUME VOLUM	INITIAL PU DEPTH (fee	ме ов товь мівтос 12	3.75				PURGI N TIAT		PURGING	Polal	MATAL MO	CHMI -
HO	пмі	PURGED	PURGED	RATE	TO WATER	(standord		(orc's units)	(circle units) (mg/L) or			
NELL CAPACITY (Galace Test Look)	403	5.76		0.08	10.64	5.12	25.2	521	Contract of the Party of the Pa	10.3	461)	ar l
NELL CAPACITY (Gallors Per Lock) D.18" + D.02, 1 + D.04	406	0.24	6.00	0.08	10.0	1302	25.2	218	0.07		17	
VELL CAPACITY (Gallors Print bod) 0.75" D.00; 4" - 0.64 1.25" F.00H, 2" - 0.16, 3" - 0.37, 4" - 0.80, 8" - 1.07, 6" - 1.47 12" 5.88 USING INSIDE DIA, CAPACITY (Gallors Print bod) 0.75" D.00; 30H - 1.00H, 1.25" F.00H, 2" - 0.00 30H - 1.00H, 1.25" F.00H, 2009 S.015" - 0.004 20H - 0.00H, 1.00H -	<u> এ</u>	4.201	6.24	o.οδ	10.644	5.01	25.2	531	0.07		1/	
PUBLIC DELCONTAMINATION TUBING Y N PROSPECTION TOTAL CONTAMINATION		4										
PUBLIC DELCONTAMINATION TUBING Y N PROSPECTION TOTAL CONTAMINATION												1
PUBLIC DELCONTAMINATION TUBING Y N PROSPECTION TOTAL CONTAMINATION												
PUBLIC DELCONTAMINATION TUBING Y N PROSPECTION TOTAL CONTAMINATION			ļ.,									
AMPLEO BY (PRINT) APPLIATION SAMPLEO BY (PRINT) APPLIATION CONTROL GOOD CO	TUBINO IN	SIDE DIA, CA	PACITY (Cal.)	(1 7/8" - D C	000 3/16	' : 0 g0'4. Ритр. — Е	1/4" + 0,00: SP = Electric	76 5/16 1 - 0 Submersbæ P.	004 2/6" - 0	DOM: 107	- n.a.a	MA" - 0.01%
MATERIAL COOK HORE'S PROPERTY ON FILTERSO Y NOTICE OF THE STATE OF THE	SAMPLED	BY (PRINT) /	AFFILIATION:	osvntec /	SAMPLER(S	SAMP	LING DA	NED.	SAMPLING INITIATED A	,luoq		NG 1415
ILLU DILCONTAMINATION PUMP Y N TURING Y N POPLACOS: DIUR (CATT V N SAMPLE PUMP SAMPLE PP SAMPLE PUMP SAMPLE PP SAMPLE PUMP SAMPLE PP SAMPLE PUMP SAMPLE PP SAMPLE PUMP SAMPLE		HUDING (72 75			OOL HIDEE	s vye		FILTEREO Y	(N)	_	`
TOTAL VOI USEU ADDEDIN PELD (mt.) BH METHOD CODE (TE per moute of the per			ON PUM		1		-		1		(N)	
ADDITION OF THE PROPERTY OF TH	SAMP	TO CONTAIN	OR SPICIFICA	TION	,	SAMPLE P	RESPRIVATION	N N				SAMPLE PUMP
NAMERICAL CODES AG-Ambel Glass CG-Cless Glass. Pt - Polyethylene PP - Polypropylene S - Sicone T - Infon O Other (Speechy)	SAVP.F 101.006			VOLUME								fLOW RATE (#L per minuse)
HARRIS AG-Ambel Glass EG-Cless Glass. PP-Polyethylene PP-Polypropylene S-Sicone T-Tofon O Other (Specify)				250mL					Motals	* kg	179	6400
Sample At 1409 MATERIAL CODES AG - Amber Glass CG - Clear Glass. PF - Polyethylene PP - Polypropylene S - Sticone T - Fasion O Other (Specify)	Q-7B	1	PP.	250mL	ice		None	NA	504, 10 bicerbon.	28. 14	44	2400
Sample At 1409 MATERIAL CODES AG - Amber Glass CG - Clear Glass. PF - Polyethylene PP - Polypropylene S - Sticone T - Fasion O Other (Specify)	H MARKS											
	27	rpleat	24 11	નળ								
REPP = Reverse Flow Pensions Pump SM = Straw Moraod (Tubing Gravity Ordin), O = Other (Specify)			copes: A	PP • After Per	retello: Pomp	B Ro	ileir, BP -	Maddin : Plump	85P = Herb	ric Submersial	ie Pump	Other (Specify)

pH: + 0.2 units. Temporature: + 0.2 °C. Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2), optionally, ± 0,2 mg/t, or ± 10% (whichever is greater). Turbidity: all readings ≤ 20 N1U, optionally ± 5 N1U or ± 10% (whichever is greater).

² STANIGIZATION CRITERIA LOR RANGE OF VARIATION OF LAST THREE CONSTITUTE READINGS (SEE FS 2212, SECTION 3)

WITH NO	7.40	- ^		SAMPLE		R-8	koland, FL		DATE 7		
	CCR.	- 8				HGDA	T.A.		DATE Z	. 71.	223
WELL VO	it if applicable)	1 WELL YOL	I.K (inches) UMC = (TOT	ALMITT DES	LL SCHLEN THE THOM THE STA	NTI.RVAL IAM Acertic TIC DEPTH T	NIATIC I OC [Mobile 10 OC (MATER) X	DEPTH TO WAT DO YOUNG WILL CAPAC	A GR	RO), PUMP (HAILTR	P.P.
lanly III o	MT VOLUME P	WARRING CONTRACTOR	IPMENT VOL			OT GAPACI	TY X T	UISING EL NGTH 5 MHH) + FLOWICE	LI VOLUMI	
DITINI P	IMP OR TUBIN Int) BTOC	~ 24	FINAL PUN (SERVICE (No.	ed BLOC M. OK LIMING	~ 24	PURGIS NITIATI	DAI WYB	PORGING ENDED AT	1222	1751 AT 377	
IJMI	VDLUM! PURGITI (gallone)	GUMUL. VOLUME PURCED (gallone)	PORGE (ATT (Som)	DI PTH TO WATE K (feet)	DFF (# im reduced urane)	(CC)	(c-rele unita) µmhos/cm or us/cm	DISSOLVED OXYGLN (cycle units) (mg/L) pr % terroration	TURRION (MTUR)	v Core	OK OKO
1153	-50	.50	. 10	(0.27	P-26	24.L	++24	0.08	43.4	<.(en	r
			-					(1)	unged	extra	Appendix and a second
2.18	3.00	3.00	.10	10.27	4.56	24.7	459	0.03	7.73		(RW)
1170	- 7.0	5.20	.10	(0.Z3	6.55	24.7	457	40.4	5.7	-	Ay
12.27	.Zo	3.40	·lo	16.27	6.55	24.7	4160	6.7	4.70		
WELL CA	PACITY (Gallon	s Per Foots: 0	75" = 0.02;	1" - 0 04	1.25" - D Od				5" = 1.02	5 - 1.67	12" - 5.88
rueing i	PACITY (Gallon NSIDE DIA, CAI COUIPMENT C	PACITY (Gal /F	t): 1/8" 0.0	1" - 0 04, 0004; 3/16" SM - Hacklor P	0.0014	1/4" = 0.002		004; 3/8" - 0	006 1/2	# 0.010;	5/8" U U 16
FURGING	COUIPMENT C	PACITY (Gal /F	t): 1/8" 0.0	oonn: 3/16* BP - Naddar P	ump E SAMP	IM" = 0.002 SP - t locario: LING DA	6; 5/16" = 0 Submersible Pu	004; 3/8" - 0		# 0.010;	
FURGING PURGING SAMPLED	ISIDE DIA, CAI	PACITY (Gal)F CODES: B	t): 1/8" 0.0	500h; 5/16-	ump E SAMP	IM" = 0.002 SP - t locario: LING DA	6; 5/16" = 0 Submersible Pu	004; 3/8" - 0	elega 1/2	# 0,010; p; O - 0	S/E" () () () () () () () () () () () () ()
PURGING III SAMPLED PLIME OF	EQUIPMENT OF CAMERITY AND CAMER	PACITY (Gal /F PODES: 8 JEILIATION /Get	t): 1/M" ().c - legalert [SAMPLER(S)	SAMP	IM" = 0.002 SP - I lectric LING DA	6; Srie* = 0 Submersible Pu	SAMPLING INITIATED A FILTERED Y	, 1273	9. 0 - 0	Ster a a le Other (Specify)
PURGING SAMPLED SAMPLED PLIMP OR DEPTH (R	EQUIPMENT OF CAMERITY AND CAMER	PACITY (Gal /F CODE#: B JEIL IATION /Get	t): 1/8" 0.0 - Kader E	SAMPLER(S) TUBING MATERIAL CO	SAMP	IM" = 0.002 SP - I locario: LING DA	6; Srie* = 0 Submersible Pu	SAMPLING INITIATED A	, 1273	SAMPLE FILTERS	Ster u que Other (Specify)
PURGING SAMPLED PUMP OR DEPTH (R CITED DES	COUIPMENT OF CALL CALL CALL CALL CALL CALL CALL CAL	PACITY (Gail F CODER: B I FILIATION /Get - 24	Syntec	SAMPLER(S) TUBING MATERIAL CO	SAMP SIGNATURE POIL HOPE TURING	IM" = 0.002 SP - I locario: LING DA	Submersible Pu	SAMPLING INITIATED A FILTERED Y ON Equipment Ty DUPLICATE INTEND	1/2 3	SAMPLE FILTERS	SAMPLL PUMP
PURGING SAMPLED SAMPLED PUMP OR DEPTH (6)	CONTAMINATIO	PACITY (Gal /F CODER: B JEILIATION /Get - 24 DN PUMP R 5PI CIFICATI	Syntec	SAMPLER(S) TUBING MATERIAL CO	OUD HOPE TURING	S V N IM	Submersible Pu	SAMPLING INITIATED A FILTERFO Y ON Equipment Ty	NOOR IN	SAMPLE FILTERS	Ster u u u e Other (Specify) Ar 72. Z le Arz
SAMPLED SAMPLED SAMPLED SAMPLED SAMPLED SAM SAUPLE TO COOK	CONTAINERS	PACITY (Gal) P CODES: B JEILIATION /Get 24 ON PUMP R SPI CU ICAL MATERIAL CODE PP	Syntec	SAMPLER(S) TUBING MATERIAL CO	U U014 SAMP SIGNATURA OUI HOPE TURING SAMPIL (**)	S N (M	Submersible Pu	SAMPLING INITIATED A FILTERED Y ON Equipment Ty DUP(ICATE INTEND	NOZOR LIC	SAMPLE FILTER S AMPLING SUPPER NT	SAMPLL PUMP
SAMPLED SAMPLED SAMPLED SAMPLED SAMPLED SAM SAUPLE SAUPLE SAUCE SAUPLE SAUPLE SAUPLE SAUPLE SAUPLE SAUPLE SAUPLE	CONTAINERS	PACITY (Gail F CODE#: B JELLIATION /Get / 24 ON PUMP R 5PL CU ICAL MATERIAL CODE	ty 1/8" or - keer E	SAMPLER(S) TUBING MATERIAL CO PRESERVATI	U U014 SAMP SIGNATURA OUI HOPE TURING SAMPIL (**)	S V N (M ESILIVATIO) DATAL VOI	Submersible Pu	SAMPLING INITIATED A EILTERED Y SO Equipment Ty DUPLICATE INTEND	NORGE IN	SAMPLING SAMPLING SAMPLING AMPLING SUJEMENT NT COOLE	SAMPLL PUMP FLOW HATE (mL par minule)
SAMPLED SAMPLED SAMPLED SAMPLED SAMPLED SAM SAUPLE DOOS	CONTAINERS	PACITY (Gal) P CODES: B JEILIATION /Get 24 ON PUMP R SPI CU ICAL MATERIAL CODE PP	ty 1/8" or - keer E syntec - v non vorumi 250ml	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USFO 1 1 HNOS	U U014 SAMP SIGNATURA OUI HOPE TURING SAMPIL (**)	S V N (M ESLHVATIO) DATAL VOI NORO	Submersible Pu	SAMPLING INITIATED A FILTERED Y ON Equipment Ty DUPLICATE INTEND ANALYSIS A METHO Morals 8. Co., Ci SO4, TO Dicarboni	NORGE IN	SAMPLING SAMPLING SAMPLING AMPLING SUJEMENT NT COOLE	SAMPLL PUMP FLOW HATE (mL par minule)
SAMPLED SAMPLE	COUIPMENT OF COUIPMENT OF COUIPMENT OF COUIPMENT OF COUIPMENT OF COUIFMENT OF COUIF	PACITY (Gaile CODES: B JELIATION /Get 24 ON PUMP R SPLCUICAL MATERIAL CODE PP	ty 1/8" or - keer E syntec - v non vorumi 250ml	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USFO 1 1 HNOS	U U014 SAMP SIGNATURA OUI HOPE TURING SAMPIL (**)	S V N (M ESLHVATIO) DATAL VOI NORO	Submersible Pu	SAMPLING INITIATED A FILTERED Y ON Equipment Ty DUPLICATE INTEND ANALYSIS A METHO Morals 8. Co., Ci SO4, TO Dicarboni	NORGE IN	SAMPLING SAMPLING SAMPLING AMPLING SUJEMENT NT COOLE	SAMPLL PUMP FLOW HATE (mL par minute)
SAMPLED SAMPLE	COUIPMENT OF COUIPMENT OF COUIPMENT OF COUIPMENT OF COUIPMENT OF COUIFMENT OF COUIF	PACITY (Gaile CODES: B JELIATION /Get 24 ON PUMP R SPLCUICAL MATERIAL CODE PP	ty 1/8" or - kipier E syntec ' v (*) non vorumi 250mt	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USFI) 1 1 HNO3	OUDIA DUMPE FUNING SAMPIL (PH V/ 1 ADDI:	S V N (M ESLHVATIO) DATAL VOI NORO	Submersible Pu	SAMPLING INITIATED A FILTERED Y ON Equipment Ty DUPLICATE INTEND ANALYSIS A METHO Morals 8. Co., Ci SO4, TO Dicarboni	NORGE IN	SAMPLING SAMPLING SAMPLING AMPLING SUJEMENT NT COOLE	SAMPLL PUMP FLOW HATE (mL par minule)

pHt ± 0.2 units. Temperature: + 0.2 °C. Specific Conductance: + 5% Dissolved Gaygan: all readings ± 2.0% autoration (see Table FS 2200-2), optionally ± 0.2 mg/L or + 10% (whichever is greater). Turbidity: all readings ± 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater).

NOTES: 1 The above do not constitute all of the information required by Chapter 62-180, F.A.C.

² STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

WELL VOLUME PURGE: 1 WELL VOLUME (COTAL WITE DEPTH STATIC DEPTH (1997) Tent) X TOTAL VOLUME PURGE: 1 EQUIPMENT PURGE: 1 EQUIP	MAME La	keland Ele	cine MPP	COR			etit Location Le	skeland. FL				
DUMM. THE CHURCH DUMM. THE CHEST NOT THE	WELL NO	CCR -	9		8AM	ercuro 🐧	CR-9			DAII 🍞 .	22. 20	23
DAMILLE (Markes)						PUR	GING DA	TA				
	DWML CER		DIAMI.	H.H (mchas)		DUPTO ₹-Ť lex	at to 30 - T ootta f	OC (Mot) (1)	oc 5.35	ORA		.4.4
EQUIPMENT YOURS: 1 EQUIPMENT VOL PLANT YOURS: 1 CONST. X 1000 Y CONST.	(only farour	is with the section of		·		feet -		front) >				Q#110/14
NOTAL VOLUME PURCE			JRÓE: 1 EGI	JIPMENT VO	L PDAIN -					_		
TMIC VOLUMI PURCLED PATT 10 PA			£ 24			lerair :	1	-		1.1-1	TOTAL VOI	IMI
SAMPLING BY PRIMAR FOR SPECIFICATION PUMP Y PUMP PUMP Y PUMP PUMP Y PUMP Y PUMP	TIME	PURGLO	PURGED	RATI	WALL	.it (elandard	TEMP	(circle units) (mhos/on	(citate nuits) (way) at			
## A 1 PP 250mt 1 PP 250mt 1 100 100 None NA PC PC PC PC PC PC PC P	०९०म	.50	· 50	.10	6.9	D ₹19	24.4	3421	4-13			
126	An.	A 10.0		4-	+ 0		71L L	2402				tures
WELL CAPACITY (Gelloons Por Fong 6.78" 0.02, 1" 0.04, 1.24" - 0.05, 2" - 0.11, 3" - 0.27 4" - 0.65, 5" - 1.02, 2" - 1.47, 12" - 2.66 10" - 0.016 2.76 2.64 3.50 021 318 4" 0.04 1.24" - 0.05 2.76 3.50 021 318 4" 0.04 1.24" - 0.05 2.76 3.50 021 318 4" 0.04 1.24" - 0.05 2.76 3.50 021 318 4" 0.04 3.05 0.00 3								_			<u> </u>	(F)
WELL CAPACITY (Gellonx Por Font)	1126	14.7	14.7	.10	6.9	0 5.21	25.3	3527	0.2)	2.32	. 11	
## WELL CAPACITY (Cellions Por Foor) 0.78" 0.02 1" 0.04 1.24" 0.00, 3" 1.111, 3" 0.37 4" 0.05, 5" 1.27 5 8 1.27 0.010 0.00	1128	.20	ાવે.વ	1	6.9							
TUBING INSIDE DIA CAPACNIVICATION 185" - 0.0006 3/16" - 0.0007 1/4" - 0.0006 8/16" - 0.004 28" - 0.006 1/2" - 0.016 28" - 0.01	o £]]	.20	15.1	1	6.9	D 5. 20	25.4	32.30	0.21	3.78	4/	
PUMP OR TUBING DEPTH (feat) PITCC TUBING MATERIAL COUR, RUPE, 8 FIELD-FUTERED Y (N) INTERIOR TYPE N/A FIELD-FUTERED Y INTERIOR TYPE N/	TUBINO IN PUKAINO I	BIDE DÍA CAP EQUIPMENT C	ODEB: 6	11) 1/67 - 0	BP Block	0 0014 der Pomp. SAMI	1/4" - 0.002 ESP - 4.6cb/c PLING DA	6 E/161 - 0 Submorable Pf	1,004 <u>3/8° - 6</u> ump, <i>PP</i> = 1°6	006 1/2"	- 0,010 B	VR" - 0.016 her (Siperity)
MATERIAL COUT, POINT, 8 — Intration Transmit Type N/A FILLD DISCONFAMINATION PUMP Y D TOBING Y N (replaced) DDPL/CATE Y N SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE DISCONFAMINATION PRESERVATION INTENDED ANALYSIS AND/OR OCCUPANTING CODE. DATER VOLUMI PRESERVATION INTENDED ANALYSIS AND/OR OCCUPANTING CODE. PP 250mL 1 1 1003 None NA Metals APP 180 1 PP 250mL 1 11003 None NA B. Ca. Ci. F., SOA 1135, bicurbanato, gilkelinity ME MAKES	RIV (MATHIA		osyntec		R-FV	Calle	٠	INITIALED V.		INDLDA	1135
SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION INTLINUED ANALYSIS AND/OR METHOD GODI. (mit. per mit. per	OF LATE (per	it in oc	0.00		MATERIA		-	I diret	ion 1 quipment Typ	pin NVA		'I;m
SAMPLE COSTAINERS CODE VOILUMI PRESENVATIVI TOTAL VOL ANDID IN FILL D (m). PH ME. THOD GODI. (m). PH ME. THOD ME. THOD GODI. (m). PH ME.					0				DDPUGATE		_	
PP 250ml. Ice None NA B. Ca. Cl. F., SOA 1135, bicurbonate, pikelinity ME MAKES	SAMPLE		WATERIAL			VATIVE	TOTAL VOL	UNAL	ANALYSIS AF	ADVOR DOVE	INPMINT	FLOW RATE, (ml. per minute)
SOA 1175. bicurbonato, pikelinily ME MAKES	R-P-R	1	l15	250mL	1111	403	None	NA	Metals	A	44,	~ 180
	p-15	1	PP	250ml.	ho	٥	None	NA	SQA 117 bicerbone	is.	44.	
PHYMATE LING: 1/2 ;	HE WAKER		ubs se	·	, 11-	2.3						
		-										
MATERIAL CODES — ACI Amber Class — CC - Clear Class. — PE - Polychylero — PY - Polypropylerie. — 3 - Silicone — T - Teñon — O - Other (Specifi SAMPLING EDUPMENT CODES: — APP - After Pointeillé Pump. — B - Darler — BP - Bladder Pomp. — ESP - Llocine Submensible Pump.												har (Specify)

pH: + 0.7 units. Temperature: ± 0.2 °C. Specific Conductance: + 5% Dissolved Oxygen: all readings ∈ 20% saturation (see Lebin I © 2700.2); optionally, + 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all readings ≤ 20 N1U, optionally ± 5 NTU or ± 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2 STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

*** ***	CCQ-	11		SAMPLE	10 CC	12-11			DATE 7.	16-7	023
		•		_		SING DA	TA			, 60	202
WELL DIAME, TER			ER (nches)	1	ar scarra Pro t∂S ent	INTLIEVAL IO 21-T HOMBTO	STATIC I	DLPTII TO WATI		DHGE PUMP RIBAILEN P	
Tunly fill ou	UME PUNGE: THAPPICABIA)		= (feet -		feet) X	WELL GAPAG	gallons/f	oot =	ء - دي
	(4400 Ca0(0)						ns/lool X 8	_	. 0.1		173 = 6 1 - 0.14
INCHAE PU DEPTH (Io	ме ок тивія відплас — 24	3.5	DEPTH (mc	P OR THINK		PURGIN		PURGING			OLUMF (guillens)
TIME	VOLUME PURGLU Igallens:	COMUL VOLUME PURGLID (gatteria)	PURGE RATE (gpm)	OEPTN TO WATER (lost)	pi4 (ASAnderd units)	TEMP, L'C)	oc(ngycm) hupdaycu conus conus	DISSOLVED OXYCEN (circle units) (mg/L) or % seruration	1 DRBID INTO:	ory toot if idesc	DR
1757	22. GH	22.64	80.0	7.61		23.8	4244	2.49	8.9	8 000	- N
1759		22.80	80.6	7.61	4.57	23.7		0.44	7.0	4 "	1
801	8.16	22.96	0.08	7.61	4.52	23.7	4281	0.45	6.5	2 3	- 1
			_								
			-				_				
			-		_					_	-
			_						-		-
PURGING	AGITY (GA OF ISIDE DIA, CAI EQUIPMENT C	PACITY (Galifi DOES: N	t) 1/8° = 0.6 • Chader C	LP - Filindder i	SAMP	SP - Electric LING DA	b an é ⊤⊹d Submeisible Pu	004 3/67 + 0	6" = 1 02 1 004	6" = 1,47, 2" - 9,010 mp;	12" - 5,6 565" = 3,0 Olmor (Spec
lina	HOLLINGS	not-Ge	osyntec /	SAMPLER(8)	a Ci	tolle	a Comment	SAMPLING INITIATED AT		LINDED	ING 18 0
DUPTH (In	m) BTOC	23.5	- 24	MATERIAL C			— - Freas	on Equipment Ty	par N/A		
	ONTAMINATIO)	TUBING		placed:	DVIPLICATI	Y	Ð	-
SAMI Saffai Tale	TI CONTAINI	SPI CIFICA		PRESENVAT USS D	IVI:	RESERVATIO FOTAL VOL DIN FIELD (I	FINAL	AMALYSIS A METHO	NU/OR	SAMPONG LODIUMENT GODE	SAMPLI FLOW ImL per
	1	PP	250ml	1 1 HNO:		None	NΛ	Metals	١ ١	APP	Δчο
	1	PP	250mL	lce		None	NA	B. Ca. Cl SQ4, FD bicarbon; Alkalans	os. 1 ale. 1	በ የቦ	스닉()
11.49 2-11.63											
2-NB			-								
REMARKS	sup bel	ا جو ا	01								

NOTES: 1. The above do not constitute all of the information required by Chapter 82-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STABISIZATION CHISTAIN FOR IMABLE OF VARIATION OF LAST SHILL CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME LOI	keland Ele	ctric MPH (CCR		\$1 1.0	_	akeland, FL				
	CC &-1			SAMPL	E 10 C C				DATE 2	16-20	2.3
					PURC	ING DA	YA				
	UME PURGE:	TUBING DIAME* 1 WELL VOL	H (nches)	Dr.	U SCRCIN PTH T S TA	- Q _{ootB}	Of: (feet) ILLO	WELL CAPAC	S CR	RGE PUMP I BAILER (P
EQUIPMEN	if applicable) I VOLUME Pi I app cable)	URBE. 1 EQUI	PMENT VOL		feel - I UME + (TUP polksons + (O -		feet) X ITY X Ty now/ext X 3 4	JRING LENGTH	- 1	TE VOLUME	gallon 43+ ,43 - ,14 gallon
NITIAL PUI DEPTH (fee	имонтирім фатос 23	°.6	FINAL PUM DEPTH (fee	P OR TUBIN	23.6	DAME		PURGING ENOLD A)	1203		LUME 5. OL
TIME	VOLUMI, PURGED Igalians;	GUMUL VOLUMP PUNGED (QUEON)	PURCH IOA1E IQOM)	DEPTH TO WATER (Mot)	pK (standerd uncs)	IEMP, L'Cl	COND. (circle units) µmhastan or us/cm	OISSOLVI D DXYGI N (circle units) (mg/L) or % saturation	I GREGOT (NTUA)	ry GOLO	K ON
แรช	4.24	4.24	80.6	8.22	6.60	24.1	2091	0.08	3.52	· COas	
ii55	0.16	4.4	o. 08	8.22	C.62	24.1	2097	80.0	G.84	1 11	
1157	0.16	4.50		8.02		74.1	2014	0.08	6.25		1
101	930	884	80.6	8.72	662	24.1	2102	80.0	4.6	-	1
203	01.6	5.04	\$a.0	8.12	6.62	24.1	2102	0.08	465	"	
			-	_	-				-	_	
			-	_	_				-	_	_
		_		-							_
									T	-	
URING IN		n Perfoot 0 PACITY (Gal.) COOLS. B	1.00 × 0.0	11" - 0 04. 1006 - 3/10 11" - B'inkter		1/4T = 0.00	26, 5/16°-a Subir a nsible Pu		5" = 1,02, 0,036	67 = 1,47 27 = 0.010, 40	127 = 5,89 5/87 = 0.018 Simer (Specify)
	BY (PRINT) / A	AFFILIATION /Ge	osyntec	BAMPLERIS	SIGNATUR	Activity for the formation of the state of	mue	SAMPLING INITIATED A	,1203	SAMPUII I'NDI'D	
PUMP OR 1 DEPTH (fee	TURING U	\$23.0		MATERIAL I	CODE HOPE	. 6		of Equipment Ty		FILTERS	9ZE p7
	ONTAMINATI	_)	TUNING	Y (No	eplaced)	DARFICATI	Y	\odot	
		LR SIPECIFICA	HON			RESERVATO		INTENS		SAMPLING	SAMPLE PUN
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOCUMI.	PRESERVA USED		DINTELLI	(rel) pW	MI THO		CODE	(mt per minu)
1214	1	PP	250mL	1 1 HNC		None	NA NA	Matin	.n k	APP	2400
-12[3	1	PP	250ml	lo c		None	NA	B, Ce. C SO4, Ti bicarbor atkelin	os. F	APP	ZHOO.
REMARKS											
MATERIA-	CODES	AG = Amhar /	Case Cris	Clear Glass	DF - 9	yelliylene.	PP - Polypropy	leco Si-Suc	Δnn, T=T	ofica D -	Olher (Specify)
MATERIAL SAMPLING	EGOIPMENT	AG = Arber 0	PP - After Pe				 Hladder Pump 		zana. T = T Iric Sizbi nara i		on a Japeo y
		P	FPP - Itavera	a Provi Park	Jatin Pilmp,	384 - 28tos	· Middler Pump « Method (Tubing Mor 82.480, E.4	Converty Drawn)		ы (Spec4y)	

STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH. + 0.2 units. Temporature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: fill routings < 20% saturation (see Table FS 2200-2) optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity, all readings < 20 NTU, optionally \pm 5 NTU or + 10% (whichever is greater).

	keland Fig	stric MPP (one -		51		keland, FL				
WELLED	CC12-		0011	SAMPLE		Q - 13	ikelalia, FE		олто 2-	10.0	·12
	CUL	13				ING DA	ТА			16-0	3/23
		1 UBING GIAMET 1 WELL VOL	EK (moline) UME = (TOTA	MI DIP	I SCREEN	n 28 SBT	OC (feet) 970	WELL CAPACI	CHCF		gallon
(soly for Sur	ME OR TURNA	1 0000000	PMENT VOL.		UMI • 1400 Nona • (0 •)	pulcas	ry x 10 Sealast X 3 II 91624	PURGING L	B.	AMD JOV 1.	.43 .43 .14 .43
III PTH (fe	ep aroc 🤫	T . Co	OEPHH (feet	вгос 🧏	23 · Co	INITIATE	TA U	ENDED AT	03 60	PORGED I	on lord) P. 16
TIME	VOLUMI PUNCI II (gallona)	COMU(VOLUME PORCH D (Ballons)	PURGE RATE (9Pm)	DEMAH TO WATER (foot)	pH (slandard (elim	('C)	(urcle units) µmhos/cm or (uS/cm)	OXYGEN (ojsele units) (mg/L) of % Saturation	TURRIDITY (NEUs)	/ COLO	
032	4.34	4.84	0,04	6.39	4.20	2.0	2882	0.10	4,19	(Oas	
034	0.16	10.0	0.08		4.20		2585	0.10	3.89	to to	
020	0.16	1D.14	0.08	8.39	4.200	28.7	2592	O.11	3.29		-
_		-								-	
	-				-	_				_	
									_	+	_
										-	
	ACITY (Gallon				1 75T - 0 06 - 0.0014;	2" - 0.1 1/4" = 0.002	C II COULTING TO BE			5 - 1,47. • 0,030	12" ·· 5,88 5/8" · 0,016
PURGING	еашимент с	ODES: 0	Baller; II	P - Flindder P	1/2/2 /2/2/2		Submirishta Pu	mp; PP • Po	ristaliic Pump	D - 0	Other (Specify)
					SAMP	LING DA					
SAMPLED	DV IODINT . A	CEILIATION	1.4	AMERICA. O.	SKINATURE		AIA	_			
	BY IPRINT) A		syntec /	MAPLER(S)	SIGNATURE	(S) m/	-	SAMPLING DINITIATED AT	1030	SAMPLIN	(F 1040
کان <i>ان</i> د	Holling	Short	syntec [DELLE VERNE	ea Ca-Z	ACDE	njones	DINITIATED Y	CND	SAMPLIN ENDED A	
Divid POMP DR DEFFIRE	HOLING TOURNS	3 Co	osyntec	live	CA-2	ACD E	ngowo FIELD Collector	SI: TEREO Y	CND	HIBRO	
Divide POMP OR DEPTH (fer PILLO DI C	TOBING TOBING	SVORVIGE 3.Co N PUMP	osyntec /	DEING MIERIAL CO	DE HOPE.	#C#250 5 V (Non	FIFT D following	FI: TERED Y TO Equipment Ty Dul'LIGATE	pe: N/A	NI TERM	121
Divide POMP OR DEPTH (fer PILLO DI C	HOLING TOURNS	3 · Co B · Co N PUMP R SPECIFICAT	Y Y Y	PRI.SI RVATI	CA-ZODE HOPE. TUBING SAMPLE PR	ACD E	FIELD fillrain	SI: TERED Y TO Equipment Ty DUPLICATE INTENDE ANALYSIS AL	PR N/A ED S/ YD/OR EO	HIBRO	
POMP OR DEPTH (fee	TUBING TO BE CONTAINED	3 Co N PUMP R SPECIFICAT	osyntec /	MATERIAL OC	CA-ZODE HOPE. TUBING SAMPLE PR	S V Non GLAVALIO	FIELD fillrain placesti	FIGURATION AT STREET YOUR EQUIPMENT TY DUPLICATE INTENDE ANALYSIS AT	PO SA	MILITAR S MILING UIPMENT	SAMPLE PUR
SAME	TUBING TO BE CONTAINED	3 · Co B · Co N PUMP R SPECIFICAT	Y Y Y	PRI.SI RVATI	CA-ZODE HOPE. TUBING SAMPLE PR	S V NO	FIELD FIELD (IIII III III III III III III III III	SI: TERED Y TO Equipment Ty DUPLICATE INTENDE ANALYSIS AL	PRE N/A SO S/ YD/OR EO D A	MIPTING UPMENT GODE	SAMPEL PUN TEÓW HATI (INT PER MINU
Divide DEPTH (for DEPTH (for DEPTH (for SAME	TOURING TOURING ON TAMINATION PLE CONTAINS	3 · Co 3 · Co PUME R SPECIFICAT PP	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	WEST ROAT USED 1 1 HNO3	CA-ZODE HOPE. TUBING SAMPLE PR	S V NOTO COTAL VOIL D'IN FILLD O	FIELD FIELD (IIIIan III	SI: TERED Y TO Equipment Ty DUPLICATE INTENDE ANALYSIS A METRO Mothic B, Cn, Ci SO4, TD bicarbons	PRE N/A SO S/ YD/OR EO D A	MIPPING DIPMENT CODE	SAMPLE POWEATE (PER PER PER PER PER PER PER PER PER PER
SAME	TOURING ON FOC CONTAMINATION PLE CONTAINE	3 · Co 3 · Co PUME R SPECIFICAT PP	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	WEST ROAT USED 1 1 HNO3	CA-ZODE HOPE. TUBING SAMPLE PR	S V NOTO COTAL VOIL D'IN FILLD O	FIELD FIELD (IIIIan III	SI: TERED Y TO Equipment Ty DUPLICATE INTENDE ANALYSIS A METRO Mothic B, Cn, Ci SO4, TD bicarbons	PRE N/A SO S/ YD/OR EO D A	MIPPING DIPMENT CODE	SAMPLE PUR FLOW RATE (ref. per meru)
SAME BLANARKS	TOURING OBTOC CONTAMINATION PLE CONTAINE	S GO PUMP R SPECIFICAT	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	WEST ROAT USED 1 1 HNO3	CA-ZODE HOPE. TUBING SAMPLE PR	S V NOTO COTAL VOIL D'IN FILLD O	FIELD FIELD (IIII III III III III III III III III	SI: TERED Y TO Equipment Ty DUPLICATE INTENDE ANALYSIS A METRO Mothic B, Cn, Ci SO4, TD bicarbons	PRE N/A SO S/ YD/OR EO D A	MIPPING DIPMENT CODE	SAMPLE PUR FLOW RATE (ref. per meru)
SAME BLANARKS	TOURING TOURING TONTAMINATION TE GONTAINS	3 · Co 3 · Co PUME R SPECIFICAT PP	y y N NON VOLUM: 250mL	WEST ROAT USED 1 1 HNO3	CA-ZODE HOPE. TUBING SAMPLE PR	S V N (ii) SI SI RVATIO OTAL VOI D IN PILLO None	FIELD FIELD (IIII III III III III III III III III	DINITIATED AT SETFRED YOU Equipment Ty DUPLICATE INTENDE ANALYSIS AL METRICO Modelle B. Co. Ci. SO4, TO bicarbon, alkalimit	PRE N/A SO S/ YD/OR EO D A A A A A A A A A A A A A A A A A A	MPTING UIPMENT GODE	SAMPLE PUR FLOW RATE (ref. per meru)

OTES: 1. The above do not constitute all of the information required by Chapter 82-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5% Dissolved Oxygen: nil readings \pm 20% seturation (see Table FS 2200-2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STABILIZATION SHITERIA FOR BANGE OF VARIATION OF LAST THREE CONSECUTIVE REACINGS (SEE FS \$212, SECTION 3)

MAME: La	akeland Etc	otric MPP (CCR			III Seanon La	akeland, FL				
WELL NO	***			SAMP. F		Q-15	inciario, re		DATE 7	-20-1	o22
	COP	0		1,24111111	ساريا	SING DA	TA		2	-20-1	Vus
WELL VO			3, ER inches UMF - (TOT/	Co OFF	LL SCHLEN PTH [E.S AM	INTERVAL Id 78-5 -A(RT	STATIC (OH	вог ромет памиле Т	Abl.
EQUIPME	MT VOLUME P In it apa-cable)	URGE: 1 EQU	PMENT VOL			0A9A0 0A8A0 • • • • • • • • • • • • • • • • • • •	00000	JBING LI NGTHS			
	DMP OR TUBIN	2.3.%	DEPTH (for	PORTUNING	3.5	PURÇIN	° ₽825	PURGING ENDFO AT		FOTAL VO	
TIMI	VOLUME PURSEO (gallons)	CUMUL VOLUME PURGED Igalions)	PURGE RATE (QAM)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (10)	CUND (curte units) pr(p8/cm)	OXYGEN (cipcle units) (mg/L) or % metoration	тымица (NT Ja)		
AS3	7.04	7.04	0.08	17.34	4.15	24.6	3.7.8	4-160	5.32	Charles	1
456	0.344	7.28	80.0	17.37	3.98	24.6	324.0	0.16	6.50		
7751	9 .264	4.52	80.0	17.37	3 99	24.Co	3/84	0.18	5.30	5 '	
002	0.24	7.70	0.08	17.37	3,99	24 5	327.3	0.19	5.08		
200	0.24	800	80.0	17.3 7	4.00	24.7	324.B	0.17	4.70	7 "	+
	-										-
	_										1
S = 52	4	n	-								
WELL CA TUBUNO I	PACITY (Gallor NAIDE OIA, CA	na Por Fort) = 0. PAC(TY (Cal./h	.75" - 0,02, Li 375" - 0.0	1" - 0 04.	1.76" 0.0 - 0.0014	0, 2'-0,1 1/4" - 0,000			5" = 1,02. 128 - 15	6" - 1,47. " - 3,010	12" = 3.86 5/8" = 0.016
	EQUIPMENT			P • Obddor I	tump, 6	SP - 1 Moure	Supmersible Pur		restated from		thar (Specify)
CALINIA C	AA (URINT) / A	MARINE TIVAL		CALABOT COUNTY	SAMP	LING DA	ATA			_	
		anoft MGC	Syntoc	ODINT	ac.	20200	erone	SAMPLING INITIATED AT	1005	SAMPUS ENDED A	1010
PUMP OR	et) (100)	23.6		TUBING MATERIAL CI	DOE TOPE.	8		n Equipment Ty		FILTERS	126 µ
ום מדווי	CONTAMINATI	יאטיז אט	Y (P)		TURING	Y (N (n	oplaceo;	DUPLICATE	¥	(V)	
SAM	PLE CONTAIN	FR SPLOIDOA	HON	11	SAMPLE PI	KLBERVATIC	N	IN11 NOI		SAMPLING	SAMPLE POM
54 9 5	200 v 28	WEEK.	VOLUME	PRESERVAT USED		rotal voi Din eletor	n() pH	ANALYSIS AL MLDIDI		GODI CODI	(m) per minu)
	1	טט	250ml	1.1 HNO:		None	NA	Metale	, ,	9 <i>PP</i>	4400
S₩ .						None	NA	B, Ca, Ct,			
	1	bb	250mL	IC#				SQ4, 10 bioarburu alkalant	18341,	MPP	2400
-17.12				ICA				bicarburu	18341,	nne —	2400
-128	ا مرسولو		250mL	ICA				bicarburu	18341,	nne ———————————————————————————————————	2400
CIMALINO		AC - Arriber C	1805	Сенг Сіаза	P Ε = 12(x) B • Ω ₁	rethylone.	PP Poxypropyl	bigarburu alkalani	27.5 f = 1	eñon. On t	2460 JUher (Specify)

2 STABLIZATION CRITINA FOR PANCE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH; + 0.2 units. Temperature: + 0.2 °C: Specific Conductance: + 5% Dissolved Osygen: all conducts + 20% entiration (see 1 able) ii 22(k) 2), optionally, + 0.2 mg/l or ± 10% (whichever is greater). Turbidity; all readings ± 20 NTH, optionally ± 5 NTU or ± 10% (whichever is greater).

		ectric MPP	CCR				skeland, FL				
WELL NO	CC.L -	lG .		SAMPLE	" CCC	2-16			DA1F 7	20-20	123
						SING DA	TA				
WELL DIAMETER			ER (miches)	file loca	HISGREEN YH ad ⊊Nast	cc) 2 Seeint	OC Lideeu B (d	лин то waт ос. 16., 60	OR	RGEPUMP 1 MAILLE 1 7 1	
WELL VOL	LUME PURGE:	1 WELL VOL	UMF - (TOT	AL WELL DEP	TH - STA	TIC DEPTH	O WATER) X	WELL CAPAC	ITY		
			= (ALL CONTRACTOR AND ADDRESS OF TAXABLE PARTY.	feet	0.011.00 - 12.01	feet) X		gallons/fo	ot =	g#
COUPMEN	Ni VOLUMET! I-Lappiirable)	URGE: 1 COU	IPMENT VOL			OU SUCCESSAGE CONTRACT		JIHNG LENGTH		LL VOLUME	13=65.4
mer bada sara	MP OR TUBIN						ons/ootx 3 i	_	· 9.1		D-14 90
DEPTH (As		23.5	DEPTH IIm		3.5	IN TIAT	COND	PURGING INDEDIAT DISSOLVED	1034	PURGED (Out own S Y
TWF	VOLUME PURGED (gallors)	CUMUI VOLUMI PURCED (gallone)	PURGE RATE (gpm)	DEPTH TO WATER (MAD)	pH (standard units)	TFMP, (°C)	ICVC-e Jirds) jimhquicen gr (uS/cm)	(ciccle units) (mg/L) or % tenturation	(DANIDI INTUs)		
03¢	0.45	8.45	0.01	160.04	3.93	Z4.8	9719	D.24	2.07	1000	1
032	200	ഉ.63	0.09	16,04	8.94	24.8	4487	8.20	2.51	'n	1
1034	D.18	ଚ.ଷ୍ଟା	0.09	1604	3.95	24.9	9820	5.19	2 7-8	V	1
-											1
	-					h = 1					i i
											ì
						_					
- 55.5										1	_
TUBING IN	BIUL DIA. CAL	SPC Foot): 0 PACITY (Gal /F	1.3: 1/8" = 0.0	1" = 0,34, 006; 3/16"	1 25" = 0 01 = 0.00 -4;				5" = 1.02 .006: 1/2	5" - 1.47 " • 0.010;	12" = 5.88 5/8" = 0.016
			- Dailor, O	IP • Madder P	tump; E	SP - Lection	Submers-bla Pur	mp: CP - Pa	nussalsır. Pum		Che (Specify)
1-115	EQUIPMENT	O028. B			O 4 545						
PUROING				SAMPLER(S)		LING DA		1			
PUROING I SAMITED	вү (PRINT) га Макелет	UTUATION	osynlec	SAMPLER(S)		LING DA		SAMPLING INITIATED A	, 1034	SAMPI III	
SAMPLED	BY (PRINT) CA	MIDUATION 1964	osynlec (TUBING	ELC.	LING DA	LTA FIELD	SAMPLING INITIATED AT	(N)		AT 120
SAMPLED SAMPLED POMP OR DI PTH day	BY (PRINT) CA	11111110N 4~ /Geo 23.5	osynlec	The	ELC.	LING DA	LTA FIELD Fiffrate	SAMPLING INITIATED A	(N)	PROFES	ат / ጜ 🌣
SAMPLED SAMPLED FOMEON DIPTHON PRINTED DEC	BY (PRINT) (A LONG) TOMBC M) RTOC CONTAMINATIO	11111110N 4~ /Geo 23.5	osynlec	TUBING MATERIAL CO	DOF HOPE	LING DA	Filtrate	SAMPLING INITIATED AT FILTERED Y or Equipment Ty	per N/A	FINDED.	AT 150
SAMPLED SAMPLED FOMP OR DI PTH day FILL TO DE C SAMP	BY (PRINT) (A LONG) LUNG) M) RTOC CONTAMINATION SE CONTAINI	OFFICIAL PROPERTY OF THE PROPE	osynlec v N	TUBING MATERIAL CO	SAMPLE PR	EING DA	Filhati	SAMPLING INTIATED AT FICHERLD Y OF Equipment Ty DOPLICATE INTENDI ANALYSIS AT	PRE N/A	FINES:	SAMPLE P
SAMPLED SAMPLED FOMP OR DI PTH day FILL TO DE C SAMP	BY (PRINT) (A TUMBG M) BTOC (ONTAMINATION PLE CONTAINI	CONTRACTOR 23.5 DN POMI	osynlec v N	TUBING MATERIAL CO	SAMPLE IN	LING DA	Filhati	SAMPLING INITIATED AT FICHERED Y OF Equipment Ty DOPHICATE INTENDI ANALYSIS AL METHO	D S	FINES SAMPLING SUPPRENT COOL.	SAMPLE POWER
PUROINO SAMPLEO FOMP OR DI PTH (fine) SAMPLEO SAMPLEO FOMP OR	BY (PRINT) (A TOMAC TOMAC M) RTOC (ONTAMINATIO PLE CONTAINI	CONTRACTION Amage / Geo 23.5 ON POMI RESPECTICA PP	osyntec 2 v N nion vortimi 250mL	TUBING MATERIAL CO PRESERVATO 10500 1 1 HNOS	SAMPLE IN	EING DA	Finate NA	SAMPLING INITIATED AT FICHERED Y OF Equipment Ty DOPLICATE INTENDI ANALYSIS AT M61218	Per N/A V I) S NO/OR I	FINES:	SAMPLE P
SAMPLED SAMPLED FOMP OR DI PTH day FILL TO DE C SAMP	BY (PRINT) (A LONG) LUNG) M) RTOC CONTAMINATION SE CONTAINI	OFFICIAL POINTS OF POINTS OF POINTS OFFI CHICA	osyntec v v N non vorumi	TUBING MATERIAL CO PRESERVATIONS DISCO	SAMPLE IN	EING DA	Final pM	SAMPLING INITIATED AT FICHERED Y OF Equipment Ty DOPHICATE INTENDI ANALYSIS AL METHO	PRE NAA V NOZOR III	FINES SAMPLING SUPPRENT COOL.	SAMPLE POWER
PUROINO SAMPLEO FOMP OR DI PTH (fine) SAMPLEO SAMPLEO FOMP OR	BY (PRINT) (A TOMAC TOMAC M) RTOC (ONTAMINATIO PLE CONTAINI	CONTRACTION Amage / Geo 23.5 ON POMI RESPECTICA PP	osyntec 2 v N nion vortimi 250mL	TUBING MATERIAL CO PRESERVATO 10500 1 1 HNOS	SAMPLE IN	EING DA	Finate NA	SAMPLING INTIATED AT FIGHERED Y OF Equipment Ty DOPLICATE INTENDI ANALYSIS AT Metals B Ca. Cl. SO4, 113 bicarbons	PRE NAA V NOZOR III	HITTES	SAMPLE POWER
PUROINO SAMPLEO POMP ON DI PTERIOR PICTO DEC SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	BY (PRINT) (A TOURISC IN) RTOC CONTAMINATION SEE CONTAINS	PP	osyntec 2 v N nion vortimi 250mL	TUBING MATERIAL CO PRESERVATO 10500 1 1 HNOS	SAMPLE IN	EING DA	Finate NA	SAMPLING INTIATED AT FIGHERED Y OF Equipment Ty DOPLICATE INTENDI ANALYSIS AT Metals B Ca. Cl. SO4, 113 bicarbons	PRE NAA V NOZOR III	HITTES	SAMPLE POWER
PUROINO SAMPLEO POMP ON DI PTERIOR PICTO DEC SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	BY (PRINT) (A TOURISC IN) RTOC CONTAMINATION SEE CONTAINS	PP	osyntec v v N non vorumi 250mL 250mL	TUBING MATERIAL CO PRESERVATO 10500 1 1 HNOS	SAMPLE IN	EING DA	Finate NA	SAMPLING INTIATED AT FIGHERED Y OF Equipment Ty DOPLICATE INTENDI ANALYSIS AT Metals B Ca. Cl. SO4, 113 bicarbons	PRE NAA V NOZOR III	HITTES	SAMPLE POWER
PUROINO SAMPLEO POMP ON DI PTERIOR PICTO DEC SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	BY (PRINT) (A TOURISC	PP	osyntec v v N non vortivi 250mL 250mL	TUBING MATERIAL CO PRESERVATO 10500 1 1 HNOS	SAMPLE IN	S Y N (re COTAL VOL D IN FELLO () None	File D File D File A I I I I I I I I I I I I I I I I I I	SAMPLING INTIATED AT FIGHERED Y OF Equipment Ty DOPLICATE INTENDI ANALYSIS AT Metals B Ca. Cl. SO4, 113 bicarbons	NOZOR III	HITTES	SAMPLE POWER

pH: ± 0.2 unite Temporature: ± 0.7. C. Specific Conductance: ± 5% Disselved Oxygen, all (nathings < 20% seturation (see Table) S 2200.2), opporably, ± 0.7 mg/L or + 10% (whichever is greater). Turbidity: all readings < 20 N (0), opporably ± 5 N (0) or + 10% (whichever is greater).

^{2.} STABILIZATION ORITH RIA FOR PANCE OF VARIATION OF LAST TURKED CONSCIUNTER READINGS (BLC. F.S. 2212, SECTION 3).

	keland Ek	ectric MPP	CCR		51	_	akeland, FL				
WELL NO	CCR-	17		SAMPLE	10 00	L-17			DATE 2-	1.0-20	2.2
						ING DA			-	- 10	-
	t (menns) Ž	TUIUNO DIAMI : 1 WELL VOI	FER (inches):	CO DE	LL SCREEN PTH: /8. Wood	to S Photes	COC (feet) Bit	OC 15.06 WELL CAPAC	OHE	GL PUMP I BAILER	PP
tonly fill out	(f applicable)	7.11000	- (101)			TIG DEFIN		33000 E30 0E40		_	
EDUIPMEN (odly fill su)	AT VOLUME P of Applicable)	'URGE: 1 EQU			nllona – c er t			UBING IT NGTH	gallans/foo I + FLOW GEL) +	: # .I VOLUME gallons	12
иннасти ВЕРти Рес	и сот голи Миот по ты	23.6	FINAL PUM DEPTH (fee	P OR TUBING	23.6		NG JOS	PURGING FINDLO AT	1159	COLUMN TOTAL	
1IMI	VOLUME PURGEO (galloux)	CBMUL VOLUMI PURGIJO (gallons)	PURGE RATE (gpm)	OF PTRE TO WATER (Pool)	pH (standard units)	TEMP, PCI	COND. (circle units) µmhgalcm g(µ8/cm)	OXYCEN (circle units) (mg/L) or % saturation	(MTUN)		OPP
1153	4.16	4.16	0.08	\$0.21	4.35	25.8	1135	0.12	5.85	can	
1150	0,24	4,40	ව.රැ	15.08		25. %	1118	0.11	4.44	11	
1159	024	4.64	80.0	₹0.21	6.35	2.Z.C	1123	0,1}	4.58	11	
											1
											İ
											1
verne nest	Levy -		-								
TUBING IN	ACITY (Gir oi 810E DIA CAI EQUIPMENT C	PACITY (Gal/F	1.): 1/8" = 0.0	1" - E 04 006; 3/16" P - Mindder P	1.25" - a.or - 0.0014 'ump; E	1/4" = 0.000		004; 3/8" = 0		FT - 1,47, 0,010; 0 - 0	12" • 5 88 5/8" = 0,016 thar (Specify)
TUBING INS PUROING E	BIOE DIA ICAI EQUIPMENT C	PACITY (Gal./F	1.): 1/8" = 0.0 = Bailer; II	006; 3/16" P - Mindder P	- 0.0014 tump; E SAMP	SP - Electro LING DA	Substremuble Pu	004; 3/8" = 0	006; 1/2	U 010;	5/8" = 0.016
SONIORUS TURINANA TURINANA TURINANA TURINANA	BIOE DIA CAR EQUIPMENT C EXP (IPRINT) (I	PACITY (Gal.# CODES: B	t): 1/8" = 0.0 = Bailer; III OSyntec /	SAMPLER(S)	- 0 6014 Tump; E SAMP SIGNATUR	SP - Electro LING DA	Substremuble Pu	004; 3/8" = 0	115°)	U 010;	Si8" = 0.016 Wher (Specify)
TUBING NAME OF THE PURCH OF THE	EQUIPMENT C	PACITY (Gal.# CODES: B	t): 1/8" = 0.0 = Bailer: III Osyntec (006: 3/16" P - Mindder P	SAMP	SP - ENCIRCIPE	ATA	SAMPLING INHIALED A THE REPORT OF	1159	0 010; 0 = 0	5/8" = 0.016 (ther (Specify)
FURDING INS PURDING E SAMPLE OF T LIVE 2 H PUMP OR T DEPTH I'GE	EQUIPMENT C	PACITY (Gal.) SODES: B AFFILIATION: (C) (C) (C)	1): 1/8" = 0.0 = Bailer; III 08ynted	SAMPLER(S)	SAMP	SP - ENGLISE LING DA	ATA	SAMPLING INITIATED A	1159	SAMPLIA	5/6" = 0.016 ther (Specify)
FURING INS PUROING E SAMPLE DE PUMP OR 1 DEPTH INS III LD DEG	SIGE DIA CAI EQUIPMENT C LY (I'RINT) (I DBING LI BTOG	PACITY (Gal/Ficority (Gal/Fico	DSYNTEG	SAMPLERIS) SAMPLERIS SAMPLERIS SAMPLERIS MAII FRIAL CC	- 0.0014 UMP; E SAMP SIGNATURY DOL HOPE TURING	SP - Electricists LING DA	ATA TRICAL T	SAMPLING SAMPLING INHIATED A THERED Y ON Equipment Ty OUPLICATE ANALYSIN A	1154) PO N/A Y TO STORY I O	5AMPLIA ENDED A	5/6" = 0.016 ther (Specify)
SAMPLE DEPTH INC. SAMPLE SAMPL	EQUIPMENT CA	PACITY (Gal/Ficor) AFFILIATION: AFFILIATIO	DSYNTEG	DOS: 3/16" P - Mindder P SAMPLER(S) DWY TUBING MATTIFELAL CO	- 0 6014 TUMP; E SAMP SIGNATURE DIDL HOPE TURING SAMPET PR VE ADGR	SP - Existing DA	ATA TIETO DOWN	SAMPLING SAMPLING SAMPLING INHIATED A THE RED Y ON Equipment Ty OUPLICATE	D SA	SAMPLIA ENDED A FILLER & S	SAMPLE PUMP FLOW RATI
SAMPLED BOOKS SA	SIGE DIA CAL EQUIPMENT C RY (ITRINT) (I UBING II BTOC ONTAMINATIO	PACITY (GILIF SODES: B VERILLATION: VERILL	DSYNTEG OSYNTEG OSYNTE	AMPLER(S) SAMPLER(S) VALUE (SERVATI LIST D 1 1 MNO3	- 0 6014 TUMP; E SAMP SIGNATURE DIDL HOPE TURING SAMPET PR VE ADGR	SP - ERICHO SP - ERICHO LING DA S V N IN FST AVATIO GTALVOI SIN A FELD (None)	ATA I IE IO Onthoed IN FINAL IN NA	SAMPLING SAMPLING INHIATED A THE RED Y ON Equipment Ty OUPLICATE ANALYSIN AL MUTRIO MAIAB	PO N/A	SAMPLIA ENDED A PILLER & S	SAMPLE PUMP
SAMPLED BOOKS SA	BIOE DIA CAL EQUIPMENT C KY (PRINT) (A DBING BIOC ONTAINATIC TO CONTAINATIC	PACITY (Gal/ SODES: B VEHILLATION: /Oe/ ON FOMI R SPECIFICA	DSYNTEG OSYNTEG OSYNTE	SAMPLER(S) SAMPLER(S) VIBING MATTRIAL CC	- 0 6014 TUMP; E SAMP SIGNATURE DIDL HOPE TURING SAMPET PR VE ADGR	SP - ENCHOR	ATA THE TO THE TO THE POPULATION FINANCE OF THE POPULATION FINANCE OF THE POPULATION OF THE POPULATIO	SAMPLING SAMPLING INHIATED A THE RED Y ON Equipment Ty OUPLICATE ANALYSIN AL METRIC	DOS SANDON POR SANDON	SAMPLIA ENDED A FILLER & S	SAMPLE PUMP
SAMPLED BOOKS SA	BIOE DIA CAL EQUIPMENT C KY (PRINT) (A DBING BIOC ONTAINATIC TO CONTAINATIC	PACITY (GILIF SODES: B VERILLATION: VERILL	DSYNTEG OSYNTEG OSYNTE	AMPLER(S) SAMPLER(S) VALUE (SERVATI LIST D 1 1 MNO3	- 0 6014 TUMP; E SAMP SIGNATURE DIDL HOPE TURING SAMPET PR VE ADGR	SP - ERICHO SP - ERICHO LING DA S V N IN FST AVATIO GTALVOI SIN A FELD (None)	ATA I IE IO Onthoed IN FINAL IN NA	SAMPLING INHIATED A FITTER D Y ON Equipment Ty OUPLICATE ANALYSIS AL METRIC B Ca, CI SOA, TO becarbone	DOS SANDON POR SANDON	SAMPLINE PLANT COOL	SAMPLE PUMI FLOW RATI (nit per moute
PURDING INS SAMPLE IT PUMP OR 1 DEPTH INS SAMP SAMP SAMP TAR TAR TAR PUMP OR 1	BIOE DIA CAL EQUIPMENT C KY (PRINT) (A DBING BIOC ONTAINATIC TO CONTAINATIC	PACITY (GILIF SODES: B VERILLATION: VERILL	DSYNTEG OSYNTEG OSYNTE	AMPLER(S) SAMPLER(S) VALUE (SERVATI LIST D 1 1 MNO3	- 0 6014 TUMP; E SAMP SIGNATURE DIDL HOPE TURING SAMPET PR VE ADGR	SP - ERICHO SP - ERICHO LING DA S V N IN FST AVATIO GTALVOI SIN A FELD (None)	ATA I IE IO Onthoed IN FINAL IN NA	SAMPLING INHIATED A FITTER D Y ON Equipment Ty OUPLICATE ANALYSIS AL METRIC B Ca, CI SOA, TO becarbone	DOS SANDON POR SANDON	SAMPLINE PLANT COOL	SAMPLE PUMP FLOW RATI (nil per mouty)
PURDING INS PURDING S SAMPIFUL TO DEPTH INSE SAMPIFUL TO DECIDENTS	BIOE DIA CAL EQUIPMENT C RY (PRINT) (I) DIBING UBTOG ONTAMINATIO 1 1	PACITY (Gal/Fication / Certification / Certifi	DSYNTEC DSYNTEC P P P P P P P P P P P P P P P P P P P	AMPLER(S) SAMPLER(S) VALUE (SERVATI LIST D 1 1 MNO3	- 0 6014 TUMP; E SAMP SIGNATURE DIDL HOPE TURING SAMPET PR VE ADGR	SP - ENCIRCIPE LING DA SP - ENCIRC ING DA SP - ENCIRC Substitute Public Publi	SAMPLING INHIATED A FITTER D Y ON Equipment Ty OUPLICATE ANALYSIS AL METRIC B Ca, CI SOA, TO becarbone	DE NA POSE STATE OF S	SAMPLIA ENDEDA	SAMPLE PUMP FLOW RATI (nil per moute	

pH. • 0.2 units. Temporatum; ± 0.7 °C. Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Trible FS 2700-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all modings ≤ 20 NTU, optionally ± 6 NTU or ± 10% (whichever is greater).

Revision Date: February 12, 2009.

The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

NAME La	keland Ela	ctne MPP	CCR		1 '	rte ocation La	keland, FL				
	CCR-			SAMPLE		R-16			DAII:	2 - 16 - 20	23
						SING DA	TA				
	(nones) 2		11 ft (mehent)	916 014	н зоветн чи ц⊪.⊈ он	MTERVAL m28-Someto	STATIC (feet) AT	the state of the s	6	PURGE PLIMP OR BAILEN	.4.4 ^{navi}
(only the out EQUIPMEN	if approaping		= (TAL WEET DEF	feet - (JMF • (TLII	124	feet) X	OBING CENG	gallons 111) • FLOW	CELL VOLUM!	gallons • • • • • • • • • • • • • • • • • •
INITIAL PUI	MP OR TUUN	د د ع		MP OR TUNING		PURCIN				TOTAL VI	DILUMI CITA
ШМІ	VOLUME PURCED (gallerie)	CUMUL VOLUMI PURGLO (garons)	PORCE NATE (gard	DEITH TO WATER (fom)	při (elandařtí uzela)	TUMP, FC;	COND (2 no strict moleumu (moleu) 10	OXYGEN (clock units (mg/L) or % seturatio	D TUNBI	DILY COL	air oiri
ፍዛይ	.50	-50	.10	9.40	الإياري	25.2	366.2	0.39		الما الم	PF - 217.8
1550	,7.5	. 40	i	9.40	6.69	25-1	365.1	D -34	2.2	9 11	
1552	.20	୍ବନ		9.40	6.6A	25.1	363.7	0.36	2.0	8 લ	~ Z29.2
PURGING IN SAMPLED E PLIME OR T DUPTH (Re- EIELD DEC	TURING	AGITY (CS) / (CO) / (CO	rosyntec	THUM, ODDS 3/16* ODDS 3/16* ODDS 3/16* ODDS 3/16* SAMPLER(S) THUING MATERIAL C	SAMP SIGNATURE ON HINDE TURING	SP Ficcinc LING DA	SMBT = 0 Submeriar bio Pu LTA F ELO L. Tab	SAUPLING IN-TATED STILTERED OF Equipment DUPLICAT	AT 155 Type: N/A	3 SAMPIN ENDED FILTER	AI (555
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRUSERVAT USUD	ADDO	OTAL VOL DIN FIELD (FINA III.I pH	AMALYSIS MI 11		COUL	(ml_parmoule)
CR-18	1	ילכן	250mi	1 1 HNO:	3	None	NA	Mal	nje.	444	~ 380
CE-VB B	1	ьь	730ml	Ica		None	NA	B, Ca SO4. bicarbi pikal	FD45. anate,	1	1
INDAMA IN A		V									
REMARKS	SAMP	LØ Τιν	AIF 1	(553							
MATERIAL		AG - Aniber		- Clour Glass	PE = Poh	vniliy ¹ one	PF - Polypropy	inna, 3 - Si	usona T	Tañon, O "	Obser (Specify)
	COUIPMENT	CODES: /	SPP - Affer P	or-makin Pump, an flow Prointe	E = Ila	ilor, BP	Bladder Pump, McProd (Fubing	159 - 00	rano Subme	rsibin Pump, ther (Specify)	7

pH: • 0.2 units. Comparature: • 0.2 °C. Specific Conductance: • 5% Dissolved Oxygen: all medings • 20% saturation (see Eather 2700.2), optionally, \pm 0.7 mgR or \pm 10% (whichever is greater). Turbidity: all readings \pm 70 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STABILIZATION CRITCHIA FOR PANCE OF VARIATION OF CAST THRUE CONSECUTIVE READINGS (SEE F.S. 2212, SECTION 3)

SITE	keland Ele	ctric MPP	ccr			SET LOCATION L	akoland, Fl.				
WILL NO	CCR-			SAM	ertin C	CR-19			DATE 2 .	14-20	23
						RGING DA	AΤΑ				
MICH DIAMILIEN WELL VOL	Uniches) 2		FFR (inches)	3/16	опеты ф. ју	I NINTENVAL Nacco 20 (Se n0) STATIC OLUTH	OC (/ear) 810	UPH TOWAT S.45 WELL CAPAC	ORI	GE PUMP T SALLER	P, P.
(ONLY DITION)	if applicable)				inol		tont) X	*** 6.1 ******	parinnañoo		(h=IIOrha
	at Vol UMF P I if applicate(a)	VRGF: 1 EQI	JIPMENT VOL	140 M 14		Tering Cyllyd Turing Cyllyd		IIIING EL NGTII			
INITIAL PU DEPTH (fee	MP OR TURN eg 810C	- 23	DI PTH (fo			- 100,000,00		THERMANIA	1563	TC1TAL 5/0	
1IMI	VOLUME PUROFFI (gallana)	COMU() VOLUMI PURO(I) (gallers)	PURCE NATI (gen)	DEPT TO WATE (feet)	(atminda		COND (prod units) µmhgalem or µ8/cm	OXYCE N (circle units) (mg/L) or % saturation	(NTUs)		OK ORI
I 459	-50	.¢ъ	-10	5.40	1 4.31	24.7	1717	0.00	4.32	- Cle	ar -197.9
1501	.7.0	OF.	1	5.4	4.72	24.7	1770	0.71	3.49		-J98.
1503	170	.95	-1-	5.4	1 4,7	24.6	72F1	01.0	22-6	9 (1	-)98.
PURGING IN SAMPLED	ACITY (Gallon SIDE DIA. CAI EQUIPMENT O	PACITY (Gal.) CODES R	Ft.): 1/8" - D	BP (Made	/16" = 0.0014 Pump:	ESP FINCHE	26 S/16" = 0 (Submersible Fur	finish .	006 1/2" orrstaltic Pump	SAMPLE ENDICE	
PUMP OR	TUNING			TUBING	, ,	00 - 00		DITTERED Y	(N)	FILTER S	
DISPTH (FM	ONTAMINATIO	ー <u>23</u> on euw	P Y 8		r Coor Ho Migal	-	eplaced)	DUPLICATE	ype: N/A	(A)	
	III CONTAINI					PRESERVATION		INTEND		AMPLING	SAMPLE PUMP
0.0007	CONTRININGS	MATERIA. CO.2.	VOLUMI	PHESER	WATIVE.	TOTAL VOL	FINAL	ANALYSIS A	ND/OR 10	COUL	(roll per m-oute)
CR-IQ	1	PP	250mL	1 1 147	NO3	None	NA	Metal	" A	99-	~380
ср-19 В	1	ЬĿ	250mL	lor	'	Nona	NA	II, Ca, Ci SO4 Ti bicarbon glkglin	DS, pate,	49/	1
RUMAUKS											
	MAZ	MARE .	rimo	- 15	34						
MATERIAL.		AG Amoni		Clear Out		'o'yet'nylene	PP Polypropyle		one. This		Other (Specify)
ACMPLING	- FQUIPMENT		APP - Attar Pr CEPP - Novem	ia Flow Por	ratella, Planta	. SM Straw	Hisdour Pump, Method (Tubing: ter 82-160, F.A.	Cirnwity Drawn).	ric Subminion O - Other		

pH: ± 0.2 units. Temporature: ± 0.2 °C. Specific Conductance: ± 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2), optionally, 4.0.2 mg/Lor 4.10% (whichover is greater). Yurbidity: all rendings 4.20 NTU, optionally 4.5 NTU or 4.10% (whichover is greater).

Revision Date: February 12, 2009.

² STABILIZATION CRITERIA FOR RANGE OF VARIATION OF CAST TORPT CONSEQURING HEADINGS (SEE J. 5/22)/2_BEQUION 3)

SITE NAMI ÇAL	keland Fle	ctric MPP	CCR			PIE. OCATION L	akeland	. FL				
WELL NO	CCR-	20		SAMPLE		2-70				DATE Z	14 - 24	23
						GING DA	·ΤΑ					
WELL VOL	unches) Z		T(.R (incress)	3/4 WIT	тн 18.2ла	INTERVAL RIOZO ISSIBI	OC (fee	ab) IJ (di	PPTH TO WAL C (a . (a WELL CAPAC	2 00	ROLPUMP DAILER	P.P.
FQUIPMEN	1 aborcable: IT VOLUME PI	URGE 16QL	(feet	BING GAPAG	fee	n x	IRNG LL NGTH	gallons/fo		galinos
(gray 11 30)	faporcable;			ii ge	1100# + L .	DEPTH GOIL	une/fout X	35	[त्तर]	, , , (4)	Q uilloni	gallons
DEPTH (fee	MP OR TURIN el) BTOC	~ 23	DI PTH (II	MP OR TURING MI) RTOX:	~ 2	5 PURGIT	ED AT 1			1424	*OTAL VO	
TIMI	VOLUMI PURCED (gallera)	CUMUL VOLUMI PURGCD (gallone)	PUROF NATE (dgm)	VVOTER (fom)	pi ((***********************************	fI'MP (°C)	(circle iii jumbou or (us/	nuls) (age)	OXYGI N (Citale units) (mg/L) or % Instantion	TOPFOEII (NTOs)		
1017	.50	.50	. LD	6.68						45.1		
										Par	-	extra to t
												reposity.
1125								_		19.		
1146										18.4		
(ZOO)				6.67						1Z,1		
1332.							.114	.		(Carl	5	
			, 10				416					
1425	21.30	Z1.30		LLT	2.0	z4.5			0.25	le . le . l	C.(+	
1427	20	21.50		la 67	2.0k	24.5	411	_	6 .24	6.37	-	- 273.9
1424	AGITY (Gallery	21.7-0	0.75" = 0.02,	6 67	5.05		416	0.37	47 (9.95)	5" - 1.02.	<u> </u>	12" - 5 AA
TURING IN	SIDE DÍA CAI	PACITY (Gal./	Ft.) 1/8" - 0		- 6,001#	174" - 0.00	er géné	5" O.O	юм. 3/6 -1 - (··· u u10.	6/8" DO18
PURGINO	EQUIPMENT	ODES. 0	Guiler.	BP Buildoorf		ESP - Electric		Ma Murr	10. PF - 11	eristolika Pun	1D. O.	Other (Specify)
SAMPLED	BY HERING CA	ELILIATION:		SAMPLER(S)		PLING DA	ATA	_			1.	
	LATU		osyntoc	RX	MA	him			INTIALL DIA	. 1430	I NOT D	
COMP OR		-23		TUBING MATERIAL CO	NIN 144111				ILILIA Y		F.TER	
DILLIDER	ONTAMINATIO	~	er v C	-	TURING	-	oplacied)) III rario	DUPLICATE	/pe: N/A	60	
	TE CONTAINE					HEBERVATIO	-		INTINU		SAMPLING	SAMPLE PUMP
SAVPLE	=	WATERA		PRESERVAT		TOTAL VOI		NAI	ANALYSIS A	ND/OR L	CONTINUE	TEOMINATE
ID CODE	CONTAINERS	CODE	VOLUME	USED		CO IN TIELO		pH	MI THE		COOL	(m) per minute)
CRZO		PP	750ml	1.101003		None		γA	Motel	,	49A	~ 380
ce-zo	1	PP PP	250ml.	Ice		None		NA.	B, Ca, C SO4, Tu		1	1
8									bicarbon	ate.	\ 	_ \
III MARKS	ww42	Ple Ti	we.	U30			0					
MAYERIAL		AO - Amuni		Ginar Cinsa.	PF - Po	Methylene.	PP - Pply	/III OCH !!	no. 5 - Suc	one. T-T	ellon O -	Other (Specify)
	EQUIPMENT			minimic Pomp.	Pi - Pi		Blander P			no Submere		A-mon Pathologia
200		- 1	TPP - Kovo	to Flow Poreto					Gravity Drum)	0 - Olive	(Specify)	

pH. ₹ 0.2 units. Temperature: ± 0.2 °C. Specific Conductance: ± 6%. Disselved Oxygen: all contings ≤ 70% saturation (see Table 1 % 7700.2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all readings ≤ 70 NTU, optionally ± 5 NTU or ± 10% (whichever is greater).

^{2.} STABLEZATION CHARCER'S LORERANCE OF VARIATION OF LAST THREE GONDECOMING, NEADINGS (SEE, § \$ 22/2, 8E0/309/3)

	keland Lie	ctric MPP	CCR	(1)		TI. ICATION LE	keland, FL				
MULLI NO	CCR-	L۱		SAMPLE	o cc	R-21			DATE Z.	(L.2023	
					PURG	ING DA	TA				
	(inches) Z		TEH (inches)	DEP	LSCRIAN H#Ma¶ect	La Berlin I	OC (fuel) BT(SEPTH TO WATE		DE POMP 19) ALTR	" P.P.
	d opp (sable)	* WELL YOU	- 1 FOME (LO	TAL WELL DEP	114 - STA feet-	TIC DEPTER	X (SOTAWO)	WELL CAPACI	TV gallynedood		gallons
e QUIPMEN (only fill out	(T VOLUME PO If applicable)	JROF. 1 EQL		L POMP VOL	UME. • (1111)	ING CAPACI	IY X T	ONING (TNGTR)	* BLOW OF		, ILL Toulons
INITIAL PU OFFICE (Inc	MP OR TURUN II) UTDC — *	23		MP OR TUBING set) BTOC:			.⊔∧ı 093 €	PURGING ENDED AT	6947	PURGED (OF	ME An
LI MF	VOLUMI PURCE O (gallone)	COMOL: VOLUMS PURGLD (gallons)	PUNCE RATE (gpm)	HITIN TO WATER (1001)	pH (standard u^1\$)	TEMP (C)	(COND. (cribe unds) pr(us/cm)	OAYGEN (citale units) (mg/L) or % terturation	TORBIDITY (NTO)	COLOR (describe	OHP (mV)
*443	.50	.50	.10	7.99	6.48	23.1	1991	0.48	4.21	C 1992	o - 254.E
०९५५	. 20	-10	1	7.19	6.49	23-1	1991	6.47	4.48	5 11	~ 24.3
०१५२	. 20	.90	1	7.99	6.49	23.	1991	0.46	4.91	tt	- Z4.5
											after
			-		_				Sorvia	وددام	was
			-	_						3.9	le serve
										-	(100)
TURING IN PUROING (SAMPLEO)	ACITY (Galloni SIDE DIA, CAR EQUIPMENT C	ACITY (Gal /I ODES: B	- Bailei.		SAMP	TAT - 6 007 SP 1. lectric LING DA	0. B/18" - 0 Subronanio\n (h)	004, 3/8" = 0	oos wz	• 0 d 10 - 6/	27 4 5 68 A" - 0 0 10 M (Specify)
TURING IN PUROING I SAMPLED PUMP OR	SIDE DIA. CAS EQUIPMENT O EVILLANDO A ALCTA A LES LUBINO	MOTY (Call) ODES: 6 FILIATION , /Ge	Ft) 1/8% 0	SAMPLER(S)	SAMP	TAT - 6 007 SP 1. lacine: LING DA	Subministration (*) TA	SAMPLING INDIALED A	008 1/2" Instalic Pump 6448	O - OIN	PASO
FURDING IN PURDING I SAMPLED \$1 K T PUMP OR I OF PTH (for	SIDE DIA. CAS EQUIPMENT O EVILLANDO A ALCTA A LES LUBINO	ODES. 6 ODES. 6 ODES. 6 ODES. 6	r) 1/6" 0 - Bailei. iosyntec	SAMPLER(S) TURING MATERIAL CO	SAMP	TAT - 6 007 SP I. lectric LING DA	Subministration (*) TA	SAMPLING	008 1/2" Instalic Pump 6448	SAMPLING	29.50 ≥9.50
TURING IN PURDING (SAMPLED) \$1 In TO PUMP OR I OF PTH (for	SIDE DÍA. CAR EQUIPMENT O BY IPRINT) / A AACHA & S TUBINO	0028. 9 11104110N 7Ge	ri) 1/6" 0 - Bailei. losyntec	SAMPLERS) TURING MATERIAL CO	SAMP SIGNATURE TUBING	TAT - 6 007 SP I. lectric LING DA	Subran-nicha (hu ATA Filico placad)	SAMPLING INTERED Y OUPLICATE INTERED INTERED OUPLICATE INTERED	ode 1/2" instance Pump one No.	SAMPLING ENDED AT TILLER SIZE	PASO
SAMPLED DE CONTROL SAMPLED DE CONTROL SAMPLE CONTRO	SIDE DIA. CAR EQUIPMENT C INTERNATIONAL LUBING INTROC CONTAMINATIONAL CONTAMENS	MOTY (CALA) ODES. 6 FRICKTION /Ge - 2-3 IN PUM IN SPECIFICATION MASSIGN COSC	nosyntec OSyntec OSyntec OSyntec ONO ONO ONO ONO ONO ONO ONO O	SAMPLER(S) TURING MATERIAL CO PRESERVATO DSCH	O 0014. SAMP SOL HOPE. TOBING SAMPLE PIP	TAT - 0 007 SP Lincing LING DA (S) Y N (re ENERVATIO OTAL VOL DEN ENERVATIO	Subminimote (*u ATA FILLU Falinate N FINAL BILL FINAL BILL FINAL BILL BILL FINAL BILL BI	SAMPLING INCLASED AT THERED Y OUT END Y ANALYSIS AT METHO	OOB 9/2" INILIANIC PLIMP OPENING OPEN	SAMPLING FNDED AT TILLER SIZ MPLING UIPMENT	PR SO
SAMPLED DE CONTROL SAMPLED DE CONTROL SAMPLE CONTRO	SIDE DÍA. CAR EQUIPMENT C LEY IPRINT) / A ALCHA LES LUBING BI BTOC CONTAMINACIÓ LE CONTAMINA CONTAMENS	MOTY (CALA) ODES. 6 FICKTION /Ge FICKTION REPUBLICATION RE	nosyntec osyntec rosyntec rosyntec rosyntec rosyntec rosyntec	SAMPLERS) THRING MATERIAL CO PRESERVATO DSCH 1 1 HNO3	O 0014. SAMP SOL HOPE. TOBING SAMPLE PIP	ENLIGATION NOTES	Subminimon (*u ATA FILLU Fairain N FINAL NA	SAMPLING SAMPLING INITIATED AT THERED Y ON Equipment by OUPLICATE INTENDE ANALYSIS AT METHO	ODB 9/2" Instante Pump G448 NOVER 10	SAMPLING FNDED AT TILLER SIZ MPLING UIPMENT CODE	PASO
SAMPLED OF COLUMN SAMPLED OF PTICE OF COLUMN SAMPLED OF COLUMN SAMPLES SAMPLES AMPLES	SIDE DIA. CAR EQUIPMENT C INTERNATIONAL LUBING INTROC CONTAMINATIONAL CONTAMENS	MOTY (CALA) ODES. 6 FRICKTION /Ge - 2-3 IN PUM IN SPECIFICATION MASSIGN COSC	nosyntec OSyntec OSyntec OSyntec ONO ONO ONO ONO ONO ONO ONO O	SAMPLER(S) TURING MATERIAL CO PRESERVATO DSCH	O 0014. SAMP SOL HOPE. TOBING SAMPLE PIP	TAT - 0 007 SP Lincing LING DA (S) Y N (re ENERVATIO OTAL VOL DEN ENERVATIO	Subminimote (*u ATA FILLU Falinate N FINAL BILL FINAL BILL FINAL BILL BILL FINAL BILL BI	SAMPLING INCLASED AT THERED Y OUT END Y ANALYSIS AT METHO	OGS 1/2" Instance Pump O 448 O 50 F- S. Her,	SAMPLING SIZE OF THE PROPERTY	PASO SAMPLE PUMP FLOW RATE (int. per minute)
SAMPLED DE CONTROL SAMPLED DE CONTROL SAMPLE DE	SIDE DÍA. CAR EQUIPMENT C LEY IPRINT) / A ALCHA LES LUBING BI BTOC CONTAMINACIÓ LE CONTAMINA CONTAMENS	MOTY (CALA) ODES. 6 FICKTION /Ge FICKTION REPUBLICATION RE	nosyntec osyntec rosyntec rosyntec rosyntec rosyntec rosyntec	SAMPLERS) THRING MATERIAL CO PRESERVATO DSCH 1 1 HNO3	O 0014. SAMP SOL HOPE. TOBING SAMPLE PIP	ENLIGATION NOTES	Subminimiche (*u ATA FILLU Falinate N FINAL BH NA	SAMPLING MODIFICATE ANALYSIS AT MODIFICATE SOA, 110 Dicarbonal	OGS 1/2" Instance Pump O 448 O 50 F- S. Her,	SAMPLING ENDED AT TILLER SIZE OF THE SIZE	PASO SAMPLE PUMP FLOW RATE (int. per minute)
SAMPLED DE CONTROL SAMPLED DE CONTROL SAMPLE DE	SIDE DÍA. CAR EQUIPMENT C LY IPRINT) / A ALCHA LES LUBING BI BTOC CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ	MOTY (CALA) ODES. 6 FICKTION FOR NOTE OF THE MOTE OF T	Tr) 1/6" 0 - Bailer. HOSYNTEC HIT Y CONTINUM VOLUME 250ml	SAMPLER(S) TURING MATERIAL CC PRESERVATI USELI 1 HNO3	O 0014. SAMP SOL HOPE. TOBING SAMPLE PIP	ENLIGATION NOTES	Subminimiche (*u ATA FILLU Falinate N FINAL BH NA	SAMPLING MODIFICATE ANALYSIS AT MODIFICATE SOA, 110 Dicarbonal	OGS 1/2" Instance Pump O 448 O 50 F- S. Her,	SAMPLING ENDED AT TILLER SIZE OF THE SIZE	PASO SAMPLE PUMP FLOW RATE (int. per minute)
SAMPLED DE CONTROL SAMPLED DE CONTROL SAMPLE DE	SIDE DÍA. CAR EQUIPMENT C LY IPRINT) / A ALCHA LES LUBING BI BTOC CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ LE CONTAMINACIÓ	MOTY (CALA) ODES. 6 FICKTION /Ge FICKTION REPUBLICATION RE	Tr) 1/6" 0 - Bailer. HOSYNTEC HIT Y CONTINUM VOLUME 250ml	SAMPLERS) THRING MATERIAL CO PRESERVATO DSCH 1 1 HNO3	O 0014. SAMP SOL HOPE. TOBING SAMPLE PIP	ENLIGATION NOTES	Subminimiche (*u ATA FILLU Falinate N FINAL BH NA	SAMPLING MODIFICATE ANALYSIS AT MODIFICATE SOA, 110 Dicarbonal	OGS 1/2" Instance Pump O 448 O 50 F- S. Her,	SAMPLING ENDED AT TILLER SIZE OF THE SIZE	PASO SAMPLE PUMP FLOW RATE (int. per minute)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 70% saturation (see Table 1.5.7700.2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STABILIZATION CRITICINA LOR RANGE OF VARIATION OF LAST THREE CONSCIUTIVE READINGS (SEE FS 2212, SECTION 3).

SITI. NAME LA	keland Ele	etric MPP	CCR			50 LOC	e Sation Le	ikels	and, FL				
WELL NO	CCR-	- 22		SAM	LE ID	CC	A. – z	·Z.			DATE	Z = 1%+ 1	2013
					Р	URG	ING DA	TΑ		•			
WELL DIAMETER	concress 2	DIAMI.	5 N.R (mohos)	3/12	ATLL SCA SLATH 📽	anna is Seocial	NTORVAL S ZÍM K ohli	oc l	STATIC OF (font) (kTO)	PTR 10 WAT		UROF PU MP T R IUML I R	.4.4
	UME PURGE:	1 WELL VO	LUME - FO	TAL WITE	итчти	STAT	IC DEPTH	O W		WELL CAPAC			
		1005 450	- [1 456415	feel			1	16611 X		galluna/		gallona
	IT VOLUME PI (d applicable)	UKUE. 1 EQL	JIPMENI VO	C - NOMIN					х 10 ых 35	BING LENGTH		STALL VOLUME	149 _{gallan}
INITIAL PO	MP OH TURIN	0	FINAL PL	MI OR TUH	iNC	-7-25 -((6				PURGING	~~~		
шын (м	el) HTOC	~ 23	DEPTH (een BTOC:	- /	43	INITIAT	'D AT	0849	ENDED AT	0828	PUNCED	
FIMIL	VOLUME PORGLO (gallona)	CUMUL VOLUMI PUNGEO (galloos)	PURGH RATE (QBM)	TO VWATEL (foot)	(star	H voland iln)	TEMP (°C)	Jún pr	Hoston uStom	OXYGEN (cipole units) (mg/L) gr	108 3 ((N10		
6894	, SD	.50	d).	6.16	4,4	H.,	22.B	16	53	% tartiration	(.48	cle	15 -47
0856	.20	-70	1	6.11			27.4		-89	0.53	1.42		F49.
08 2B	.76	.90	1	8.0	, a.	51	22.9	17	18-	0.51	1.40		-54.
		_											
			-	+					_				
	-		-	-	-	-		-	_				
			-	+	_	-		-			-	_	
			_	+							-	_	
lyanawa pena	a company	September 6	d according	Too was	1,000	anaya i	-99%		Sec. 13		-		
	ACITY (Gallon ISIDE DIA, CAI			1" = 0.04	1,25	= 0.06	2" - 0 1 1/4" = 0 00;		3" - 0.37, 6/16" - 0.0	4" - 0 85, 04; 3/8" (0.006;	6" - 14/. /2" - 0 010	#27 = 5.66 6待" 0.018
PURGING	EQUIPMENT (ODES: B	= Bailer:	BP - Rigod	and the second s		(0.1		versible Pum	io en en	orretall d Pu	imp; O = 0	iller (Specify)
SAMPLEO	BY (PHINT) / A	VER MITTON		SAMMUNE			ING DA	ATA		£4115		2	
	WATH.		asyntac	A	1	Mi	Itrin	4		INITIATED A	, ቀንድ	SAMPLA ENDED	
PUMP OR	TURING ,	V 23		TUBING MATERIA	con	HOPE 5				HINRID Y		HELFE S	517Epm
	ONTAMINATIO	ON PUN	ω ν σ	D		IINO		eplace	_	DUPLICATE	Y	®	
SAME	PLE CONTAINE	R SPCOIFICA	TION		ŞAMP	(F PA	SERVATIO	N		INTEND	LD	SAMPLING	SAMPLE PUMP
SAMPU -0.0005	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERV USE			OTAL VOL		FINAL pH	ANALYSIS A ML DIC	ND/QR	EQUIPMENT CDDI	(mi_perminale)
-22	1	רירי	250ml	1 1 1 1 1			None	-	NA	Motal	ie.	494	~ 360
-	1	PP	260ml.	Ice			None	-	NA.	B. Cs. C	LF.	711	200
CB-22	·	''								SO4, III bicarbor	OS.	- 1	
B										alkalın		١	__\
141 845 145													
REMARKS	< \$ u.	UPLE T	TIME	. 08	59								
MATERIAL		AG - Ameri				- Polyn	elbyman,	PP -	Polypropyle	no, a - Silic	wn, T⊣	Taban, O -	Other (Specify)
•	EQUIPMENT	CODES: 3	APP - After P	elistata: Pur	np, E	a – Bare	ir. 8P -	Вию	sur Purng.	EBP - Hace	Inc Sublier:	sider Pump	
OTES: 1	The above		Reve							Sravely Orain). .C.	0.00	rer (Specify)	

pH: ± 0.2 units. Temperature: ± 0.2 °C. Specific Conductance: ± 5% Dissolved Oxygen; all readings ± 20% agturation (see Table FS 2200.2), optionally, + 0.2 ingst. or + 10% (whichever is greater). Turbidity: all readings < 20 NTU, optionally + 5 NTU or + 10% (whichever is greater).

STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

INITIAL PUMP OR TURING DEPTH (feet) NTOC	erione gerione "WTgariona imitational "95 consp. (inv)
VALUE COLOMB CO	garinna JHTgarinna JHTgarinna JAN GRP (INV) - 138.6
COLOMB C	garinna WTgarinna UMI Ploral
FOR PURCE FOR	
INITIAL PUMP OR TURING DEPTH (feet) DTOC DEPTH (feet) BTOC	ORP (INV)
TIME VOLUME VOLUME PURCE. PURC	n - (38 .c - 140.4
0828 .50 .50 .10 6.15 5.24 29.1 1635 D.93 2.09 Clear 0830 .20 .40 1 6.15 5.24 23.2 1630 0.86 1.7) 11	- 140.4
0837 .70 .40 \ 6.15 5.26 23.3 1624 0.2(1.43 "	7142.5
TUBING INSIDE DIA, CAPACITY (Gal // 1) 978" 0 0000 3/18" 0 0014 1/4" - 0 0026 \$/45" - 0 006 3/8" - 0 006, 1/2" - 0 010 \$ PURGING EQUIPMENT CODES: B - Nation BP - Hadder Pump CSP - Hindric Submorable Pump, PP - Pontabilic Pump O Oth SAMPLING DATA	73" - 5 58 VE" - 0.016 Per (Specify)
RIV MATHING /Geosyntec Rik Mathing Intrated at 0833 INCED AT	
PUMP OR TUBING - ZO THRING MAR.HUA. CODE. HOPE S FIELD FILTERED Y (N) FILTER SIZE	/I
FILLO DI CONTAMINATION PUMP Y N TUDING Y (N (replaced)) DUPLICATE Y	
	SAMPLE PUMP
ID CODE CANTA WAS CODE USED ADVISTMENT FLOORING BY	(III) per minule)
CEP25 1 PP 750mt 11 HNOS None NA Metala APA	~ 350
B PP 250niL Ice None NA B, Ca, Ci, F-, SOA, 105, bicerbonete, alkalindy	
REMARKS SAMPLE TIME: 0833	
	ther (Specify)
SAMPI,ING EQUIPMENT CODES: APP = After Persis to Pump, B = Bailer, BP = Blacker Pump, ESP = Flectic Submerratio Pump, REPP = Reverse Flow Penalaric Pump, SM = Straw Method (Tubing Gravity Drain) O = Other (Specify)	

pH: + 0.2 units. Temperature: + 0.2 °C. Specific Conductance: ± 5%. Dissolved Oxygen: pil reagings ≤ 20% saturation (see Table FS 2200.2), optionally, + 0.2 mg/t, or + 10% (whichever is greater). Turbidity: ell readings < 20 NTU loptionally + 5 NTU or + 10% (whichever is greater).

² STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

MARTER (ROCKING) CONTROL CONTR		_	ctric MPP	OUR	VALUE			akeland, FL		DATE T	-	
MALE MARKET R (INCHES) 2 DUMBTER CADDES 3 DUMBTER CADDES		۔ س	104		594M111					DATE X-	ZZ. Z.	32
MARCET REPORTS Z DEMONSTRESCENCES 1 2 21111	WI.LL		1118.8	G.	~ W				al deles (ricesses)	i i I mar	9 100MB 198	1 -
2011 100	DIAMETER		CIAME	FER (nones)	12 DR.	inat that	to 28 heets I	OC (feet) NTC	nc: \3.1	ORH		4.9
Dulphew 1 Volume Publish Total Publish Total			1 WELL VO					TO WATERS X		II Y	- 41%	11
MITHAL PURIS OF TIME CONTINUE	DUIPMEN	NT VOLUME P	UBOF: 1 FOI	IIPMENT VOI	2 10 - 1 Z	teng %	TS.11					gallona
MILE CAPACITY (Gallora Per I net) C.75" - O.0. 13.25 C.40 23.3 115.5 D.114 C.75" C.7	Only fill Out	(dianbachipie)										
MITH CORD CO	NITIAL PU	MI OIL TUUIN	iG	TINAL PLA		-	1					UE .
MATERIA MATE	EPTH (to	60(4100	~15	DUITH (N	mi) INOC	~15	INITIATI	DAT 1333	TA G RIN'T	1723	PURGEO (gal	ors: 234
13.25 1.0 1.3.25 1.0 1.3.25 1.0 1.3.25 1.0	IMI.	PURGLD	PURGED	HATE.	HITAW	(standavii		(circle units) µmhos/cm	(circle units) (mg/L) or			OKI! (mV)
13.25 13.15 15.00 14.5	1357	2.40	2.40	.10	13.25				78 MINICE MINICE	173	1 pur	pid eals
1	416										14mg t	clear !
THE CAPACITY (Galloon Per Loot) 0.78" -0.02, 1"-0.04 1.28" 0.00, 2"-0.01, 1"-0.02 5"-0.05 5"-0.05 1"-0.05 1"-0.00 1"-0.002 5"-0.00 1"-0.05 1"-0.002 5"-0.00 1"-0.05 1"-0.00 1"-0.002 5"-0.00 1"-0.00 1"-0.002 5"-0.00 1"-0.00 1"-0.0		-100		(-	huchidi	- Lead	angs !	0, 194, 2	17. ZOO		
21.8 21.8 21.8 10 13.25 5.40 23.3 115.0 0.14 6.84 Clear 13.25 5.47 25.3 116.0 0.14 6.33 13 14 14 14 14 14 14											1	
13.25 5.79 23.4 13.25 5.79 23.4 13.55 114.0 0.16 0.33 13 14 14 14 14 14 14						1000					11	1
Table Tabl	+11			-10								
THE CONTAINER PRECIPICATION SAMPLE PRESCRIVATION NOT NOTE OF A MATERIAL COOPE OF A MAT				+								
The container appropriation Pump V Tubing V V V V V V V V V	+23	.60	×3.0	-	13.25	5.37	23.4	() 5.5	D . 11	7.43	II	-
AMPLEO BY (PIGNATIVATION / COOSYNTOC SAMPLERS) SIGNATURES LINE TITLE OF THE PROPERTY SAMPLERS SAMPLERS LINE TITLE OF THE PROPERTY SAMPLERS LINE OF THE PROPERTY LINE OF THE												
CODE TO PP 250mL TO None NA B Ca, CI F., SCM, 103, bicarbonate. 1 MARKS COCOSYNTEC CODE TO HOS SAMPLE PRESCRATION AND THAT NOT NOTE TO THAT WITH DO NOT NOT SAMPLE PROPERTIES TO THAT THE PRESCRATION SAMPLE PRESCRATION SAMPLE PRESCRATION AND THAT NOT NOT SAMPLE PROPERTIES TO THAT THAT NOT NOTE NA METERAL COOK AND SAMPLE PROPERTIES TO THAT THAT NOT NOT SAMPLE PROPERTIES TO THAT THAT NOT SAMPLE PROPERTIES TO THAT THAT NOT SAMPLE PROPERTIES TO THAT SA	MI CHIND	SIDE DIA CA	PACIYY (Gal)	PL1 108" - 0	00000. 3776	0.0014.	1747 - 0,002	A, 81 - 007 20 Sm61 - 0	4" = 0.85 004	5" = 1 07 6 006 1/7" :	T= 1.47 12 0010 M	A" - DOTE
INTERDIFFCONTAMINATION PUMP V TUBING V Nigeplaces) SAMPLE CONTAINER SPECIFICATION SAMPLE PRESCRIATION INTERDIFF SAMPLING SAMPLING SAMPLE PRESCRIATION INTERDIFF SAMPLING SAMPLE PRESCRIATION INTERDIFF SAMPLING SAMPLE PRESCRIATION INTERDIFF SAMPLING SAMPLE PLO FLOW HAT ONE PRESCRIATION FROM THE PLO FROM THE PLO FLOW HAT ONE PRESCRIATION FROM THE PLOW HAT ONE PRESCRIATION FROM THE PRESCRIATION	ONIONE!	SIDE DÍA CA EQUIPMENT C	PACIYY (Gal) GODEB. B	PL1 108" - 0	0006. žíriší BP = Bladdni l	POIND E	IMT - 0,002 SP - 1 lectric LING DA	A, 31 - 337 25 Sh61 - C Submarable Pu	4" = 0.85 004	5" = 1 07 6 006 1/7" :	T= 1.47 12 0010 M	A" - DOTE
SAMPLE CONTAINER SPECIFICATION SAMPLE PRESCRIVATION SAMPLE PRESCRIVATION SAMPLE PRESCRIVATION SAMPLE PRESCRIVATION SAMPLE PRESCRIVATION SAMPLE PRESCRIVATION ANALYSIS AND SHIP IN TOWN AT TOTAL VOIL ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONL	ONIONE:	SIDE DÍA CA EQUIPMENT C	PACITY (Gal) CODEB. B	≱ii Trab" ∪ Isanimi.	0006. žíriší BP = Bladdni l	POIND E	IMT - 0,002 SP - 1 lectric LING DA	A, 31 - 337 25 Sh61 - C Submarable Pu	4" = 0.65 004	5" = 1 07	0 - Otos	N" - 15 0 1 11
# MATERIAL VOLUMI: PRESERVATIVE: TOTAL VOLUMI: PRESERVATIVE: ADDITION FILED TOTAL VOLUMI: ONE PRESERVATIVE: ADDITION FILED TOTAL VOLUMI: ONE PRESERVATIVE: ADDITION FILED TOTAL VOLUMI: ONE PRESERVATIVE: ONE PRES	NEW V	BIDE DÍA CA EQUIPMENT O BY (PIONTI // NATHI A TURING	PACITY (Gall CODES. B NEPLIATION A /CC	osyntec	SAMPLERS	SAMP	LING DA	n, 31 - 9 97 29 Sh61 = C Submorable Put	47 = 0.85 004	5" = 1 07 6 0006 1/7 : 0006 1/7 : 0006 1/7 :	SAMPLING	M - 0 0 m or (800cm) (子2字・
TIMARKS: SANDERS CODE VOLUMI: USI I) ADJULTIN HILLD INTO BH MITHOD CODE (OR PHYRIDIN DELTA DELTA DELTA DELTA DELTA DELLA DELL	PUMBINO IN SAMPLEO REME V PUMPICIS SUPPRISO	BIDE DÍA CA EQUIPMENT O BY (PION 1177 MATELLA TURINO 55 BTOG	PACITY (GAU SODES. B NEPUMION /CC	eosyntec	SAMPLERIS TUBING MATERIAL C	POIND E	IMT - 0.007 BP - 1 loctric LING DA	A, 31 - 307 Sin6 = C. Submorsuble Put ATA PRIOR	47 = 0.85 004 Styr = 3 mp, PP = Pa SAMPLING INITIATED A 11 TYPEO Y 22 Equipment Ty	5" = 1 07	SAMPTING (WORD A)	N° - 0.0111 or (Specify) (子2字:
1 PP 250mL (ce None NA Mela's APP ~ 39C) 1 PP 250mL (ce None NA B Ca, CI F-, SCM, 103, bicarbonate, alkalinity 1 MARKS SANAPLE TIME: (724)	PUNGING IN PUNGING BAMPULO PUMP GIR DUPUN ING BITLD DIPG	BIDE DÍA CA EQUIPMENT O BY (PION 1177 MATTE) A TURINO BESTOG CONTAMINATIO	PACITY (GALL) SODEB. B ATTUATION ATT	eosyntec	SAMPLERIS TUBING MATERIAL C	O 0014. POIND E SAMP SIGNATURE ODE: HOPE TUBING	SP - 1 loctric LING DA	A, 31 - 0.07 Sn6 - c. Submarsible Put ATA Fit no. Fet size	4"=0.85 004 2%"=0 mp, PP = P, SAMPLING INITIATED AT THITPED V on Equipment Ty DUPLICATI. INTI NOI	5" = 1 07	SAMPLING (NOEG A) FILLER SIZE MIPLING (STAMPLING)	(727
1 PP 250mL (ce None NA B Ca, CI F., SCH, 103), bicarbonate, alkalimity I MARKS SANAPLE TIME: (724)	PUMBING IN PUMBING I BANNECO PUMPI MISI PUMPI MISI PUMPI I SAME SAME SAME	BIDE DÍA CA EQUIPMENT O BY (PION 1177 MATTELLA TURINO BE BLOG CONTAMINATIO #	PACITY (GALL SODER. B APPLIATION /G(ON PUM THIS PEGIFIC MATERIAL	Bailer.	SAMPLERS TUBING MATERIAL C	CODI HOPE, TUBING SAMPLE PR	S V N (M) ESCRVATIO	ATA PB 10 Shaper subbenerable Pur ATA PB 10 Factors PN CINAL	4" = 0.85 004 \$5" = 0 mp. PP = P. SAMPLING INITIATED A 11 SPACO Y 00 Equipment Ty DUPLICATI. INTI NO	5" = 1 07	SAMPLING SUPPLING SUP	(727
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SAMPLE TIME: 1724	PUMBING IN PUMBING IN PUMPIC DITTO DITTO DITTO SAME SAME SAME SAME SAME SAME SAME SAME	BIDE DÍA CA EQUIPMENT O BY (PION 1177 MATTEL TURING BE ISTOC CONTAMINATION PLE CONTAINS SCATAGOS	PACITY (GILL) SODEB. B AFFICIATION AFFICIATION AFFICIATION PUM PH SPECIFIC MATERIAL CODE PP	Bailer. COSYNTEC ATION VOLUME 250ml	SAMPLERS TUBING MATERIAL C PRESTRVAT (981) 1 1 NNO	ODI HOPE. TUBING SAMPLE PR	S NOTAL VOID TO NOTAL VOID NOTAL	ATA Sin6 = C. Submarsible Put ATA Figure Figure Figure N Final NA	4" = 0.85 004 2-9" = 0 mp. PP = P. SAMPLING INITIATED A 1-11 TYPEO V 20 Equipment Ty DUPLICATI. INTI NOI ANALYSIS A METHO	5" = 1 07	SAMPLING (WORD A) FILTER SIZE MIPLING (SIZE MIPL	(727
SAMPLE TIME: 1724	SAMPLE DE SAMPLE DE DE CO	BIDE DÍA CA EQUIPMENT O BY (PION 1177 MATTE) A TUNINO BE BLOG CONTAMINATIO SCATANCES 1	PACITY (GILL) SODEB. B AFFICIATION AFFICIATION AFFICIATION PUM PH SPECIFIC MATERIAL CODE PP	Bailer. COSYNTEC ATION VOLUME 250ml	SAMPLERS TUBING MATERIAL C PRESTRVAT (981) 1 1 NNO	ODI HOPE. TUBING SAMPLE PR	S NOTAL VOID TO NOTAL VOID NOTAL	ATA Sin6 = C. Submarsible Put ATA Figure Figure Figure N Final NA	47 = 0.65 004	5" = 1 07	SAMPLING (WORD A) FILTER SIZE MIPLING (SIZE MIPL	(727
9/1/ -1	SAMPLE DESCRIPTION OF THE PROPERTY OF THE PROP	BIDE DÍA CA EQUIPMENT O BY (PION 1177 MATTE) A TUNINO BE BLOG CONTAMINATIO SCATANCES 1	PACITY (GILL) SODEB. B AFFICIATION AFFICIATION AFFICIATION PUM PH SPECIFIC MATERIAL CODE PP	Bailer. COSYNTEC ATION VOLUME 250ml	SAMPLERS TUBING MATERIAL C PRESTRVAT (981) 1 1 NNO	ODI HOPE. TUBING SAMPLE PR	S NOTAL VOID TO NOTAL VOID NOTAL	ATA Sin6 = C. Submarsible Put ATA Figure Figure Figure N Final NA	47 = 0.65 004	5" = 1 07	SAMPLING (WORD A) FILTER SIZE MIPLING (SIZE MIPL	GAMPLE PUM
9/1/ -1	SAMPLE DE SAMPLE DE DE CO	BIDE DÍA CA EQUIPMENT O BY (PION 11 / A TURINO BO ISTOO CONTAMINATION SCATALISERS 1 1	PACITY (GILL) SODEB. B AFFICIATION AFFICIATION AFFICIATION PUM PH SPECIFIC MATERIAL CODE PP	Bailer. COSYNTEC ATION VOLUME 250ml	DRI SERVAT UBING MATERIAL C PRESERVAT USED 1 1 HAIO	ODI HOPE. TUBING SAMPLE PR	S NOTAL VOID TO NOTAL VOID NOTAL	ATA Sin6 = C. Submarsible Put ATA Figure Figure Figure N Final NA	47 = 0.65 004	5" = 1 07	SAMPLING (WORD A) FILTER SIZE MIPLING (SIZE MIPL	GAMPLE PUM
· · · · · · · · · · · · · · · · · · ·	SAMPLE DE SAMPLE DE DE COMPANIO EN PERCONA DE COMPANIO	BIDE DÍA CA EQUIPMENT O BY (PION 1177 MATTEL A TURING BE ISTOC CONTAMINATION PLEI GONTAIN SCATALOGAS 1	PACITY (GILL) SODEB. B NEPTUATION CON PUM PH SPEGIFIC MATERIAL CODE PP	Bailer. COSYNTEC ATION VOLUMI 250mL	DESCRIPTION OF THE STRUCTURE OF T	ODI HOPE. TUBING SAMPLE PR	S NOTAL VOID TO NOTAL VOID NOTAL	ATA Sin6 = C. Submarsible Put ATA Figure Figure Figure N Final NA	47 = 0.65 004	5" = 1 07	SAMPLING (WORD A) FILTER SIZE MIPLING (SIZE MIPL	(727

pH: • 0.2 umls. Femperature: • 0.2 °C. Specific Conductance: • 5% Dissolved Oxygen: all readings • 20% saturation (see Table FS 2200.2); optionally ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater).

^{2.} STATILIZATION DRITTERIA FOR RANGE OF VARIATION OF LAST THIRTH CONSECUTIVE HEADINGS (SEE FS VZ1V, SECTION 3)

siti Nami Lai	keland Ele	oine MPP	CCR		21	II DOMENN LE	skeland	FI					
WILL NO	Fish			SAMPLE	A could't	Lake				DATE.	7.1	7-20	2.5
	FISH				PURC	ING DA		I	evu				
	UME PURGE:		G TER (inches) LUME - (FOT)	DO:	L SCKLLN		TIC ('col)	HOR:	129 . 25	er-	PURG	PPUMPT	YPÉ
QUIPMEN	T VOLUME PU	JRGE: 1 FQC	UIPMENT VOI	- POMP VOLU	feet -		feet)	х	IGTI NGTH	gallor	w/foot N ÇFI I		gations
		_	I make make	THE REAL PROPERTY.	form + (ons/foot X		1661) +		g.a.kana	
MITIAL PU	MP OR THRINI HINTOC		DEPTH (160	P OR TUBING	v-	INTERCH			PURGING	_		TUTAL VO	
HMC	VOLUMI PURGEO (guilare)	COMOL. VOLUM(* PORGED 1908/05%)	PURGE RATI (98M)	(lee)	pi ((siandara unts)	rome (SC)	COND. Iorere unit jumboslar or (uS/an	a) (9	SSO(VH) DXYER N (cia units) mg/L) or farturation		NOTY (BA)	COLO (rinscut)	a om
2.25				124.15	8.94	22.5	7001		.44	2.5	7-3	COL	
	ACITY (Gallon			1" = 0.04;	1.25" - 0 0	5. 2'-0:	6. 3" - 4						
FURGING IN FURGING I		ODFS: B	Ft): 1/8" - 0.0 = Bailer: B		0.0014; imp; £ SAMP	SP - Finetric LING DA	Submirouble	= 0 004; Pump;	3/8" = 0 PP = 1N AMINING N/LATED A	HEIRIM DIC	Pump;	0-0	
MIMP ON I	CIRING	. Pest	-	UBING		.000	0 11	CUTILI	EHED Y	(N)	20	FILTER S	ZL , par
MEPTH (ME MEDIANCE	ONTAMINATIO	N PUN	-	MATERIAL-00	TUBING		eplaced)	-	DPLICATE	pe: N/	_	N	
SAMP SAMPLE SIDAM	LL CONTAINE I CONTAINES	RISPLODICA MULENIAL STOP		A PRESERVATIV USEO	AMPLE PR	OTAL VOI OTAL VOI	N CIN/	u ^	INTENDI NALYSIS A METHO	F SS ND/OHR	1.00	MPLING MPMLN3	SAMPLE PUMI FLOW RATE [mt. per minute
see 14	1	pp	250mL	1.1 HNO3	~13136.	None	m() pH NA		Metak	5	(me	2400
we B	1	pp	360ml	ice		None	N/A		B Ce, Ci SQ4, 70 bicarbon pikplini	, 1 -, 25. ele, ty	G,	Same 240	Z4 00
REMARKS S 242-P	دروا عد	122	1		-								
MATERIAL	CODES	AG = Amber	Glass CG :	Clear Cress	PE - Pay	ninykata	PP - Potypi	ogryin næ,	3 · Nikez	ime, I	- Lefta	n. O • 0	ilhar (Specify)
AMPLING	EOUII'MENT		APP = ACer Por RFPP = Reverse		B Uni c Pump,		Blasder Por Method (Tut		SP = Elecu aly Cham)			Pump (prody)	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-180, F.A.C.

pH: ± 0.2 units. Temperature: ± 0.2 °C. Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally. ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all readings ≤ 20 NTU, optionally. ± 5 NTU or ± 10% (whichever is greater).

² STABLIZATION CRITICIA FOR HANGE OF VARIABLESCOP FAX FIRST CONSCIQUOUS READINGS (SEE J. S. 2212, SECTION 3)

SUF CA WARE FORM FD 9000-24 GROUNDWATER SAMPLING LOG

		ctric MPP	******		1.0	CATION CO	keland, FL				
WITT NO.	Lake	P		SAMPLE	10 L	ake-I	\supset		DATE 2-	17-2	023
						ING DA		elevation	MASO		
WLTI DIAMETER	(Alches) [V]	H LIAMET	FR (metant)	L.D.L.		top pick female (No. 1, 7, 7, 7, 7, 7, 700, 701	121.10	OR	BAREK T	₩
	Lappiceble)	1 WELL VOL		AL VIII DEF	31.7.	IIG DEFINI		VIII T.			
	Y VOLUME P	JRGE: 1 EQU	PMENT VOL.	A CONTRACTOR OF THE PARTY OF TH	A 100 - 10 - 10	And the property of the	Carl read their	BING LING 1H		LL VOLUME	gullaris
BUTIAL OLD	MP OR TUBIN		LINAL DUA	e MINIT SO 4	olona + (PURGIN	ici NA	PURGING	NIA	TOTAL VO	
DEPTH (fee	0 BTOC	Ň/A	DEPTH Ifee		N/A	ITALLIAL		1 NOLD AT	中	PURGED (Dalkins N / F
TIME	VOLUMI PUROL'D (gallons)	CUMOL VOLUMI PUNGLO (ga/cass)	PHRGE RATE (gpt)	MATER WATER WEST	pH Istandard mails)	16MP; (-C)	(circle units) µmhqulcan ar (µS/am)	OXYGI N (circle units) (mg/L) or % saturation	TURRIDIT (NTOs)	Y COLO	
8ામ્યુ		_		21.10	6.44	(구, 역	707	4.30	3.12	دواء	/ -11.4
TUBING IN		s Per Foot): 0 PACITY (Gal //	Ft) 178" U.(1" = 0,04, 0006; 5/16' BP Bindde/1	4.25" - 0.3 - 0.0014; Pump; t:	1/4 0.002			5" - 1 02 0.006 1/2 principle Pur	6" - 147; "= 0.010; p; O - 0	12" = 5.68 5/8" = 0.016 Ither (Specify)
TUBING IN	SIDE DIA, CAI	PACITY (Gal /I	Ft.): 178" U.(9006; 5/46' BP Bridder (-0.0014; Pump; t SAMP	1/47 0.002 5P - Hestiss LING DA	6. 6/14T - 0. Sictimeralisa Pur	004; 3/8" = 0 mp; PP = P	006 1/2 Principlic Puri	= 0.010; p; O = 0	5/8" = 0.016 htre/ (Specify)
TUBING IN PURBING I SAMPLED I Livi-16	SIDE DIA. CAI SOUIPMENT D BY (PRINT) JA	PACITY (Gal./ CODES. B	Fil): 178" U (SAMPLER(S	-0.0014; Pump; t SAMP	1/47 0.002 5P - Hestiss LING DA	Sictionerality Pu	SAMPLING	006: 1/2 hrikraliic Purr 1085 2	SAMPL T	Ste" = 0.016 Other (Specify)
FUBING IN PURBING I SAMPLED I LUMP AR 1	RY (PRINT) / A	PACITY (Gal /I	- Bailer (9006; 5/46' BP Bridder (SAMP SENATUR	LING DA	Siction rails Pu	004; 3/8" = 0	006: 1/2 NURRALING PUR 085: 5	9 0 0 0 SAMPLY	Ste" = 0.016 Other (Specify)
SAMPLED OF THE PURP OF THE PUR	RY (PRINT) / A	PACITY (Gal // RODES. B OFFICIATION OVA /GE	- Hadar 6	SAMPLER(S,	SAMP SENATUR	EING DA	Siction rails Pu	SAMPLING INJUNE DA	NOS 1/2 NINTALIS PUT OSS 2 ON NA	SAMPL T	Ste" = 0.016 Other (Specify)
SAMPLED OF THE BOOK OF THE BOO	SIDE DIA. CAI SQUIPMENT D RY (PRINT) J LI (PACITY (Gal III RODES. B OFFICIATION IN IGH ON PUM IR SPECIFICA	- Hadar di - Hadar di Josymted Japan Y	SAMPLER(S) TOBING MATERIAL C	Pump; E SAMP SAMP SINATUR DDE HDPE TURING SAMPIT PI	SP-1 loctor EING DA E(S) Y N 20 E(SLIVANO TOTAL VOL	Si, Sinoralida Pul ATA FIFL D Fift and poliscodi N FINAL	SAMPLING IN TERED Y DUPLICAR: INTEND ANALYSIS A	OSS S N/A PO N/A NOVOR	SAMPLY FILTER S SAMPLY FILTER S OUTPMINT	SAMPLE PUM FLOW RATI
SAMPLED OF PHELIPS	SIDE DIA. CAI SQUIPMENT D RY (PRINT) / A LL / AST Y FURING Y IN BIOG ONTAMINATIO	PACITY (GAI A PODES. B OFFICIATION OFFICIAL ON PUM OR SPECIFICA	osyntec	SAMPLER(S) TUBING MATERIAL C	Pump; E SAMP SAMP SENATUR DDE HDPE TURNE SAMPTI TI	EING DA	Si, Sinoralida Pul ATA FIFL D Fift and poliscodi N FINAL	SAMPLING SAMPLING HATED A FILTERED Y DUPLICARL INTERNET	NOS 2	SAMPUT FILTER S	SAMPLE PUM FLOW RATI (ML par minute)
SAMPLED OF PHELIP	SIDE DIA. CAI SQUIPMENT D RY (PRINT) / A LL / AST Y FURING ON ON LAWINATION CC CONTAINI	PACITY (Gall III RODES. B OFFICIATION OFFI	DESTRUCTION TO SYNTEC TO SYNTEC TO SYNTEC TO SYNTER SAMPLER(S) TOBING MATERIAL C PRESCRIVAT USED	Pump; E SAMP SAMP SENATUR DDE HDPE TURNE SAMPTI TI	SP-1 loctor EING DA E(S) Y N :n CLEAR VOI LUNH VOI LUNH ILL	Si, Sinoralista Pui ATA FIFL D Fift and polacodi ON FifthAL pH	SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING ANALYSIS A MUTHC	OSS A	SAMPLING COULDING	SAMPLE PUM FLOW RATI (ML par minute)	
SAMPLED OF THE BOOK OF THE BOO	SIDE DIA. CAI SQUIPMENT D RY (PRINT) J LI (PACITY (Gall III RODES. B OFFICIATION ON PUM	DESTRUCTION TO STATE OF THE ST	SAMPLER(S) TOBING MATERIAL C PRESCRUAT USED 1.1 HINO	Pump; E SAMP SAMP SENATUR DDE HDPE TURNE SAMPTI TI	SP-Higging EING DA E	Si, Sinoraida Pui	SAMPLING SAMPLING IN HATE D A FILTERED Y DUPLICAR: INTL ND ANALYSIS A MUTHC MODIL U. Ca. C SO4 TI bicarbon	OSS A	SAMPUN COURMENT COUR	SAMPLE PJIM
SAMPLED OF THE LIBRARY	SIDE DIA. CAI SQUIPMENT D RY (PRINT) J LI (PACITY (Gal // PODES. B OFFICIATION ON PUM TRISPICIFICA PP PP	DESTRICT OF TRAILOR OF THE PROPERTY OF THE PRO	SAMPLER(S) TOBING MATERIAL C PRESCRUAT USED 1.1 HINO	Pump; E SAMP SAMP SENATUR DDE HDPE TURNE SAMPTI TI	SP-Higging EING DA E	Si, Sinoraida Pui	SAMPLING SAMPLING IN HATE D A FILTERED Y DUPLICAR: INTL ND ANALYSIS A MUTHC MODIL U. Ca. C SO4 TI bicarbon	OSS A	SAMPUN COURTE	SAMPLE PUM FLOW RATI (ML par minute)
SAMPLED OF PLUMBER OF	SIDE DIA. CAI COUIPMENT D RY (PRINT) / A FUTURE OF CONTAINS 1	PACITY (Gal // PODES. B OFFICIATION ON PUM TRISPICIFICA PP PP	OSYNTEC OF THE PROPERTY OF THE	SAMPLER(S) TOBING MATERIAL C PRESCRUAT USED 1.1 HINO	Pump; E SAMP SENATUR DDE HDPE TURING SAMPIT VI ADDE	SP-Higging EING DA E	Si, Sinoraida Pui	SAMPLING INTERED Y DUPLICARL INTL. NIT ANALYSIS A MUTHC W. Co. C SO4 TI bicarbon alkalin	NOS D	SAMPLING CHOCK SAMPLING CHOCK FILTER S SAMPLING COURAINAT COD.	SAMPLE FUM FLOW RATI (ML per minut

pH; \pm 0.2 units. Temperature, \pm 0.2 °C. Specific Conductance; \pm 5%. Dissolved Oxygen: eliteratings \times 20% saturation (see Table 1.5 2200-2), optionally, \pm 0.2 mg/l or \pm 10% (whichever is greater). Turbidity: all readings \times 70 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 62-180, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

Geosyntec®

Water Level Measurement Field Form

Site: Lakeland Electric CCR Well's

Project No.: FR3715D

Wint 1-17-1073

Page

Weit 121	Signis-Comments	Control Paint		rasurement
WE.1161	signica i minerio	Connecto .	Time of Measurement	Depth to Water Read
CR-I	apoel	N	1048	11.29
CR-2	Good	5W	1034	10.70
CR-3	ට ුරුව	72	1450	7.67
CR-4	Speciel	7	1441	15.10
CR-4	ବ୍ୟରକ୍ଷା	Ν	1436	11,646-4
CR-6	900c!	7	1432	10.10
CR-7	9800	N	1427	10.41
CR-8	good		1424	10.07
CR-9	dood	72	1422	10.35
CR 108	ajood	N	1405	3.56
CR-11	දියය	7	1357	7.31
CR-:2	dood	N	1349	7.35
CR-13	Gard DIB-21.73	7	1340	7.25 8.05
VR-14	انصديو	N	133 1	8.71
7/R-15	අතත්	N	1019	17, 29
CR-16	good	2	1024	15.99
CR-17	ojavel	Ŋ	1005	15.02
V3-13	ನಂಎರ	7	1429	9.32
478-19	assol	N	1416	5.36
9180-20	900d	77	1400	6.22
CR-21	asurk		1352	3.83
YCR 22	ottoct	77	1344	6.55 3.83
47R-23	asol	N	1333	5-81
SW-106	J4000	2	1000	12.95

Notes			
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Advanced Environmental Laboratories, Inc. 9610 Princess Palm Ave Tampa, FL 33619

Payments: P.O. Box 551580 Jacksonville, FL 32255-1580

Phone: (813) 630-9616 Fax: (813) 630-4327

FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

October 03, 2023

Thomas Johnston Lakeland Electric 501 E Lemon St Lakeland, FL 33801

RE: Workorder: T2316486 2023 CCR Event

Dear Thomas Johnston:

Enclosed are the analytical results for sample(s) received by the laboratory between Friday August 18, 2023 and Tuesday August 22, 2023. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

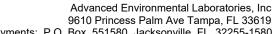
Sincerely,

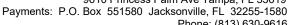
Heidi Parker, Project Manager HParker@aellab.com

Tuesday, October 3, 2023 9:53:12 AM

Page 1 of 86









Phone: (813) 630-9616 Fax: (813) 630-4327

FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Sample Summary

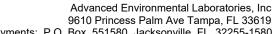
Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
T2316486001	CCR-2	WA	EPA 300.0	08/16/2023 14:53	08/18/2023 16:31	3	NA
T2316486001	CCR-2	WA	SM 2540 C	08/16/2023 14:53	08/18/2023 16:31	1	NA
T2316486001	CCR-2	WA	SW-846 6010	08/16/2023 14:53	08/18/2023 16:31	6	NA
T2316486001	CCR-2	WA	SW-846 6020	08/16/2023 14:53	08/18/2023 16:31	8	NA
T2316486001	CCR-2	WA	SW-846 7470A	08/16/2023 14:53	08/18/2023 16:31	1	NA
T2316486002	CCR-17	WA	EPA 300.0	08/16/2023 14:56	08/18/2023 16:31	3	NA
T2316486002	CCR-17	WA	SM 2320B	08/16/2023 14:56	08/18/2023 16:31	2	NA
T2316486002	CCR-17	WA	SM 2540 C	08/16/2023 14:56	08/18/2023 16:31	1	NA
T2316486002	CCR-17	WA	SW-846 6010	08/16/2023 14:56	08/18/2023 16:31	9	NA
T2316486002	CCR-17	WA	SW-846 6020	08/16/2023 14:56	08/18/2023 16:31	8	NA
T2316486002	CCR-17	WA	SW-846 7470A	08/16/2023 14:56	08/18/2023 16:31	1	NA
T2316486003	CCR-16	WA	EPA 300.0	08/16/2023 15:30	08/18/2023 16:31	3	NA
T2316486003	CCR-16	WA	SM 2320B	08/16/2023 15:30	08/18/2023 16:31	2	NA
T2316486003	CCR-16	WA	SM 2540 C	08/16/2023 15:30	08/18/2023 16:31	1	NA
T2316486003	CCR-16	WA	SW-846 6010	08/16/2023 15:30	08/18/2023 16:31	9	NA
T2316486003	CCR-16	WA	SW-846 6020	08/16/2023 15:30	08/18/2023 16:31	8	NA
T2316486003	CCR-16	WA	SW-846 7470A	08/16/2023 15:30	08/18/2023 16:31	1	NA
T2316486004	CCR-6	WA	EPA 300.0	08/17/2023 10:17	08/18/2023 16:31	3	NA
T2316486004	CCR-6	WA	SM 2320B	08/17/2023 10:17	08/18/2023 16:31	2	NA
T2316486004	CCR-6	WA	SM 2540 C	08/17/2023 10:17	08/18/2023 16:31	1	NA
T2316486004	CCR-6	WA	SW-846 6010	08/17/2023 10:17	08/18/2023 16:31	9	NA
T2316486004	CCR-6	WA	SW-846 6020	08/17/2023 10:17	08/18/2023 16:31	8	NA
T2316486004	CCR-6	WA	SW-846 7470A	08/17/2023 10:17	08/18/2023 16:31	1	NA
T2316486005	CCR-8	WA	EPA 300.0	08/17/2023 11:16	08/18/2023 16:31	3	NA
T2316486005	CCR-8	WA	SM 2540 C	08/17/2023 11:16	08/18/2023 16:31	1	NA
T2316486005	CCR-8	WA	SW-846 6010	08/17/2023 11:16	08/18/2023 16:31	6	NA
T2316486005	CCR-8	WA	SW-846 6020	08/17/2023 11:16	08/18/2023 16:31	8	NA
T2316486005	CCR-8	WA	SW-846 7470A	08/17/2023 11:16	08/18/2023 16:31	1	NA
T2316486006	CCR-9	WA	EPA 300.0	08/17/2023 11:45	08/18/2023 16:31	3	NA
T2316486006	CCR-9	WA	SM 2320B	08/17/2023 11:45	08/18/2023 16:31	2	NA
T2316486006	CCR-9	WA	SM 2540 C	08/17/2023 11:45	08/18/2023 16:31	1	NA
T2316486006	CCR-9	WA	SW-846 6010	08/17/2023 11:45	08/18/2023 16:31	9	NA
T2316486006	CCR-9	WA	SW-846 6020	08/17/2023 11:45	08/18/2023 16:31	8	NA
T2316486006	CCR-9	WA	SW-846 7470A	08/17/2023 11:45	08/18/2023 16:31	1	NA
T2316486007	CCR-20	WA	EPA 300.0	08/18/2023 07:39	08/18/2023 16:31	3	NA

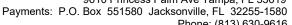
Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 2 of 86

Certificate of Analysis











Phone: (813) 630-9616 Fax: (813) 630-4327

FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Sample Summary

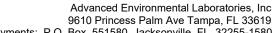
Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
T2316486007	CCR-20	WA	SM 2320B	08/18/2023 07:39	08/18/2023 16:31	2	NA
T2316486007	CCR-20	WA	SM 2540 C	08/18/2023 07:39	08/18/2023 16:31	1	NA
T2316486007	CCR-20	WA	SW-846 6010	08/18/2023 07:39	08/18/2023 16:31	9	NA
T2316486007	CCR-20	WA	SW-846 6020	08/18/2023 07:39	08/18/2023 16:31	8	NA
T2316486007	CCR-20	WA	SW-846 7470A	08/18/2023 07:39	08/18/2023 16:31	1	NA
T2316486008	CCR-11	WA	EPA 300.0	08/18/2023 08:46	08/18/2023 16:31	3	NA
T2316486008	CCR-11	WA	SM 2320B	08/18/2023 08:46	08/18/2023 16:31	2	NA
T2316486008	CCR-11	WA	SM 2540 C	08/18/2023 08:46	08/18/2023 16:31	1	NA
T2316486008	CCR-11	WA	SW-846 6010	08/18/2023 08:46	08/18/2023 16:31	9	NA
T2316486008	CCR-11	WA	SW-846 6020	08/18/2023 08:46	08/18/2023 16:31	8	NA
T2316486008	CCR-11	WA	SW-846 7470A	08/18/2023 08:46	08/18/2023 16:31	1	NA
T2316486009	CCR-23	WA	EPA 300.0	08/18/2023 09:26	08/18/2023 16:31	3	NA
T2316486009	CCR-23	WA	SM 2320B	08/18/2023 09:26	08/18/2023 16:31	2	NA
T2316486009	CCR-23	WA	SM 2540 C	08/18/2023 09:26	08/18/2023 16:31	1	NA
T2316486009	CCR-23	WA	SW-846 6010	08/18/2023 09:26	08/18/2023 16:31	9	NA
T2316486009	CCR-23	WA	SW-846 6020	08/18/2023 09:26	08/18/2023 16:31	8	NA
T2316486009	CCR-23	WA	SW-846 7470A	08/18/2023 09:26	08/18/2023 16:31	1	NA
T2316486010	CCR-13	WA	EPA 300.0	08/18/2023 09:33	08/18/2023 16:31	3	NA
T2316486010	CCR-13	WA	SM 2540 C	08/18/2023 09:33	08/18/2023 16:31	1	NA
T2316486010	CCR-13	WA	SW-846 6010	08/18/2023 09:33	08/18/2023 16:31	6	NA
T2316486010	CCR-13	WA	SW-846 6020	08/18/2023 09:33	08/18/2023 16:31	8	NA
T2316486010	CCR-13	WA	SW-846 7470A	08/18/2023 09:33	08/18/2023 16:31	1	NA
T2316486011	CCR-22	WA	EPA 300.0	08/18/2023 10:18	08/18/2023 16:31	3	NA
T2316486011	CCR-22	WA	SM 2320B	08/18/2023 10:18	08/18/2023 16:31	2	NA
T2316486011	CCR-22	WA	SM 2540 C	08/18/2023 10:18	08/18/2023 16:31	1	NA
T2316486011	CCR-22	WA	SW-846 6010	08/18/2023 10:18	08/18/2023 16:31	9	NA
T2316486011	CCR-22	WA	SW-846 6020	08/18/2023 10:18	08/18/2023 16:31	8	NA
T2316486011	CCR-22	WA	SW-846 7470A	08/18/2023 10:18	08/18/2023 16:31	1	NA
T2316486012	SW-106	WA	EPA 300.0	08/18/2023 14:25	08/18/2023 16:31	3	NA
T2316486012	SW-106	WA	SM 2320B	08/18/2023 14:25	08/18/2023 16:31	2	NA
T2316486012	SW-106	WA	SM 2540 C	08/18/2023 14:25	08/18/2023 16:31	1	NA
T2316486012	SW-106	WA	SW-846 6010	08/18/2023 14:25	08/18/2023 16:31	9	NA
T2316486012	SW-106	WA	SW-846 6020	08/18/2023 14:25	08/18/2023 16:31	8	NA
T2316486012	SW-106	WA	SW-846 7470A	08/18/2023 14:25	08/18/2023 16:31	1	NA
T2316486013	EQ BLANK	WA	EPA 300.0	08/18/2023 10:36	08/18/2023 16:31	3	NA

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 3 of 86

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Workorder: 2023 CCR Event (T2316486)

Sample Summary

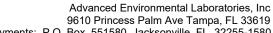
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T2316486013	EQ BLANK	WA	SM 2320B	08/18/2023 10:36	08/18/2023 16:31	2	NA
T2316486013	EQ BLANK	WA	SM 2540 C	08/18/2023 10:36	08/18/2023 16:31	1	NA
T2316486013	EQ BLANK	WA	SW-846 6010	08/18/2023 10:36	08/18/2023 16:31	9	NA
T2316486013	EQ BLANK	WA	SW-846 6020	08/18/2023 10:36	08/18/2023 16:31	8	NA
T2316486013	EQ BLANK	WA	SW-846 7470A	08/18/2023 10:36	08/18/2023 16:31	1	NA
T2316486014	CCR-21	WA	EPA 300.0	08/18/2023 12:01	08/18/2023 16:31	3	NA
T2316486014	CCR-21	WA	SM 2320B	08/18/2023 12:01	08/18/2023 16:31	2	NA
T2316486014	CCR-21	WA	SM 2540 C	08/18/2023 12:01	08/18/2023 16:31	1	NA
T2316486014	CCR-21	WA	SW-846 6010	08/18/2023 12:01	08/18/2023 16:31	9	NA
T2316486014	CCR-21	WA	SW-846 6020	08/18/2023 12:01	08/18/2023 16:31	8	NA
T2316486014	CCR-21	WA	SW-846 7470A	08/18/2023 12:01	08/18/2023 16:31	1	NA
T2316486015	CCR-12	WA	EPA 300.0	08/18/2023 14:14	08/18/2023 16:31	3	NA
T2316486015	CCR-12	WA	SM 2320B	08/18/2023 14:14	08/18/2023 16:31	2	NA
T2316486015	CCR-12	WA	SM 2540 C	08/18/2023 14:14	08/18/2023 16:31	1	NA
T2316486015	CCR-12	WA	SW-846 6010	08/18/2023 14:14	08/18/2023 16:31	9	NA
T2316486015	CCR-12	WA	SW-846 6020	08/18/2023 14:14	08/18/2023 16:31	8	NA
T2316486015	CCR-12	WA	SW-846 7470A	08/18/2023 14:14	08/18/2023 16:31	1	NA
T2316486016	Fishlake	WA	EPA 300.0	08/21/2023 09:57	08/22/2023 16:03	3	NA
T2316486016	Fishlake	WA	SM 2540 C	08/21/2023 09:57	08/22/2023 16:03	1	NA
T2316486016	Fishlake	WA	SW-846 6010	08/21/2023 09:57	08/22/2023 16:03	6	NA
T2316486016	Fishlake	WA	SW-846 6020	08/21/2023 09:57	08/22/2023 16:03	8	NA
T2316486016	Fishlake	WA	SW-846 7470A	08/21/2023 09:57	08/22/2023 16:03	1	NA
T2316486017	CCR-15	WA	EPA 300.0	08/21/2023 11:27	08/22/2023 16:03	3	NA
T2316486017	CCR-15	WA	SM 2320B	08/21/2023 11:27	08/22/2023 16:03	2	NA
T2316486017	CCR-15	WA	SM 2540 C	08/21/2023 11:27	08/22/2023 16:03	1	NA
T2316486017	CCR-15	WA	SW-846 6010	08/21/2023 11:27	08/22/2023 16:03	9	NA
T2316486017	CCR-15	WA	SW-846 6020	08/21/2023 11:27	08/22/2023 16:03	8	NA
T2316486017	CCR-15	WA	SW-846 7470A	08/21/2023 11:27	08/22/2023 16:03	1	NA
T2316486018	CCR-1	WA	EPA 300.0	08/21/2023 13:43	08/22/2023 16:03	3	NA
T2316486018	CCR-1	WA	SM 2540 C	08/21/2023 13:43	08/22/2023 16:03	1	NA
T2316486018	CCR-1	WA	SW-846 6010	08/21/2023 13:43	08/22/2023 16:03	6	NA
T2316486018	CCR-1	WA	SW-846 6020	08/21/2023 13:43	08/22/2023 16:03	8	NA
T2316486018	CCR-1	WA	SW-846 7470A	08/21/2023 13:43	08/22/2023 16:03	1	NA
T2316486019	CCR-19	WA	EPA 300.0	08/21/2023 14:06	08/22/2023 16:03	3	NA
T2316486019	CCR-19	WA	SM 2320B	08/21/2023 14:06	08/22/2023 16:03	2	NA

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 4 of 86

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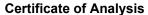
FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Sample Summary

Lab ID	Sample ID	Matrix	Method	Date Collected	Date Received	Analytes Reported	Basis
T2316486019	CCR-19	WA	SM 2540 C	08/21/2023 14:06	08/22/2023 16:03	1	NA
T2316486019	CCR-19	WA	SW-846 6010	08/21/2023 14:06	08/22/2023 16:03	9	NA
T2316486019	CCR-19	WA	SW-846 6020	08/21/2023 14:06	08/22/2023 16:03	8	NA
T2316486019	CCR-19	WA	SW-846 7470A	08/21/2023 14:06	08/22/2023 16:03	1	NA
T2316486020	CCR-4	WA	EPA 300.0	08/21/2023 14:41	08/22/2023 16:03	3	NA
T2316486020	CCR-4	WA	SM 2540 C	08/21/2023 14:41	08/22/2023 16:03	1	NA
T2316486020	CCR-4	WA	SW-846 6010	08/21/2023 14:41	08/22/2023 16:03	6	NA
T2316486020	CCR-4	WA	SW-846 6020	08/21/2023 14:41	08/22/2023 16:03	8	NA
T2316486020	CCR-4	WA	SW-846 7470A	08/21/2023 14:41	08/22/2023 16:03	1	NA
T2316486021	CCR-7	WA	EPA 300.0	08/22/2023 13:41	08/22/2023 16:03	3	NA
T2316486021	CCR-7	WA	SM 2320B	08/22/2023 13:41	08/22/2023 16:03	2	NA
T2316486021	CCR-7	WA	SM 2540 C	08/22/2023 13:41	08/22/2023 16:03	1	NA
T2316486021	CCR-7	WA	SW-846 6010	08/22/2023 13:41	08/22/2023 16:03	9	NA
T2316486021	CCR-7	WA	SW-846 6020	08/22/2023 13:41	08/22/2023 16:03	8	NA
T2316486021	CCR-7	WA	SW-846 7470A	08/22/2023 13:41	08/22/2023 16:03	1	NA
T2316486022	Lake D	WA	EPA 300.0	08/21/2023 10:30	08/22/2023 16:03	3	NA
T2316486022	Lake D	WA	SM 2540 C	08/21/2023 10:30	08/22/2023 16:03	1	NA
T2316486022	Lake D	WA	SW-846 6010	08/21/2023 10:30	08/22/2023 16:03	6	NA
T2316486022	Lake D	WA	SW-846 6020	08/21/2023 10:30	08/22/2023 16:03	8	NA
T2316486022	Lake D	WA	SW-846 7470A	08/21/2023 10:30	08/22/2023 16:03	1	NA
T2316486023	CCR-18	WA	EPA 300.0	08/21/2023 14:47	08/22/2023 16:03	3	NA
T2316486023	CCR-18	WA	SM 2320B	08/21/2023 14:47	08/22/2023 16:03	2	NA
T2316486023	CCR-18	WA	SM 2540 C	08/21/2023 14:47	08/22/2023 16:03	1	NA
T2316486023	CCR-18	WA	SW-846 6010	08/21/2023 14:47	08/22/2023 16:03	9	NA
T2316486023	CCR-18	WA	SW-846 6020	08/21/2023 14:47	08/22/2023 16:03	8	NA
T2316486023	CCR-18	WA	SW-846 7470A	08/21/2023 14:47	08/22/2023 16:03	1	NA
T2316486024	CCR-5	WA	EPA 300.0	08/22/2023 12:32	08/22/2023 16:03	3	NA
T2316486024	CCR-5	WA	SM 2320B	08/22/2023 12:32	08/22/2023 16:03	2	NA
T2316486024	CCR-5	WA	SM 2540 C	08/22/2023 12:32	08/22/2023 16:03	1	NA
T2316486024	CCR-5	WA	SW-846 6010	08/22/2023 12:32	08/22/2023 16:03	9	NA
T2316486024	CCR-5	WA	SW-846 6020	08/22/2023 12:32	08/22/2023 16:03	8	NA
T2316486024	CCR-5	WA	SW-846 7470A	08/22/2023 12:32	08/22/2023 16:03	1	NA











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Workorder: 2023 CCR Event (T2316486)

Workorder Summary

Batch Comments

ICMj/3417 - ICPMS 6020 Analysis

The upper control criterion was exceeded for the following analytes in the closing Continuing Calibration Verification (CCV): Silver and Cadmium. The client samples analyzed in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

WCAt/23158 - Alkalinity, SM2320B, Water

The initial pH of T2316486003 fell below the endpoint causing the value for alkalinity to be undetcted.

WCAt/23160 - Alkalinity, SM2320B, Water

The initial pH of T2316641003 fell below the endpoint causing the value for alkalinity to be undetected.

WCAt/23555 - IC,E300.0,Water

The matrix spike recovery of Chloride and Sulfate for T2316510003 was outside control criteria, and sulfate for T2316620001. Recoveries in the Laboratory Control Sample (LCS), and %RPD were acceptable, which indicates the analytical batch was in control. No further corrective action was required.

Analysis Results Comments

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T2316486019 (CCR-19) - Cobalt

Due to non-target background analytes, the proper quantitation of the internal standard in T2316641005 was obstructed. In order to return the internal standard to within acceptance limits, this sample was analyzed at a dilution.

T2316486024 (CCR-5) - Cobalt

The matrix spike (MS) recoveries of multiple analytes for T2316641008 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Matrix Spike Duplicate (MSD) were acceptable, which indicates the analytical batch was in control. The data are qualified accordingly.





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Workorder: 2023 CCR Event (T2316486)

Analytical Results Qualifiers

Parameter Qualifiers

U The compound was analyzed for but not detected.

The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

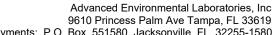
Lab Qualifiers

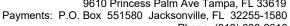
DOH Certification #E82574 (FL NELAC) AEL-Jacksonville DOD-ELAP Certification #L23-514 (ISO/IEC 17025:2017) AEL-Jacksonville

J^

Т DOH Certification #E84589 (FL NELAC) AEL-Tampa









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Workorder: 2023 CCR Event (T2316486)

	72316486001 CCR-2		Date Collec Date Recei		08/16/2023 1 08/18/2023 1			Matrix: Water		
Parameter		Results	Units	PC	lL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-8	46 3010A/SW-846 6	010)								
Barium		7.0 I	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 19:30	J
Beryllium		2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 19:30	J
Boron		100 U	ug/L	40	0	100	1	08/24/2023 04:20	08/24/2023 19:30	J
Calcium		21	mg/L	8.0	30	0.20	1	08/24/2023 04:20	08/24/2023 19:30	J
Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 19:30	J
Lithium		60 U	ug/L	24	0	60	1	08/24/2023 04:20	08/24/2023 19:30	J^
METALS (SW-8	46 3010A/SW-846 6	6020)								
Antimony		1.0 U	ug/L	4.0)	1.0	1	08/28/2023 07:12	08/28/2023 22:05	J
Arsenic		0.33 I	ug/L	1.0	1	0.25	1	08/28/2023 07:12	08/28/2023 22:05	J
Cadmium		0.25 U	ug/L	1.0)	0.25	1	08/28/2023 07:12	08/28/2023 22:05	J
Cobalt		0.25 U	ug/L	1.0)	0.25	1	08/28/2023 07:12	08/28/2023 22:05	J
Lead		0.50 U	ug/L	2.0)	0.50	1	08/28/2023 07:12	08/28/2023 22:05	J
Molybdenum		0.74 I	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:05	J
Selenium		1.2 U	ug/L	5.0)	1.2	1	08/28/2023 07:12	08/28/2023 22:05	J
Thallium		0.25 U	ug/L	1.0)	0.25	1	08/28/2023 07:12	08/28/2023 22:05	J
METALS (SW-8	46 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 12:33	Т
WET CHEMISTE	RY (EPA 300.0)									
Chloride		3.9 I	mg/L	10		2.0	2	08/30/2023 20:22	08/30/2023 20:22	Т
Fluoride		0.40 U	mg/L	1.0)	0.40	2	08/30/2023 20:22	08/30/2023 20:22	Т
Sulfate		15	mg/L	10		2.0	2	08/30/2023 20:22	08/30/2023 20:22	Т
WET CHEMISTE	RY (SM 2540 C)									
Total Dissolved	Solids	140	mg/L	10		10	1	08/20/2023 12:00	08/20/2023 12:00	Т





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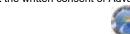
Workorder: 2023 CCR Event (T2316486)

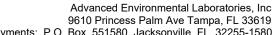
Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00)

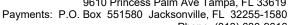
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Analytical Results











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Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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Lab ID: T2316486002 Sample ID: CCR-17			Collected: 08/16/2023 14:56 Matrix: Water Received: 08/18/2023 16:31							
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab		
METALS (SW-846 3010A/SW-84	6 6010)									
Barium	3.4 I	ug/L	12	3.0	1	08/24/2023 04:20	08/24/2023 19:35	J		
Beryllium	2.0 U	ug/L	8.0	2.0	1	08/24/2023 04:20	08/24/2023 19:35	J		
Boron	150 I	ug/L	400	100	1	08/24/2023 04:20	08/24/2023 19:35	J		
Calcium	150	mg/L	1.6	0.40	2	08/24/2023 04:20	08/28/2023 14:29	J		
Chromium	5.0 U	ug/L	20	5.0	1	08/24/2023 04:20	08/24/2023 19:35	J		
Lithium	60 U	ug/L	240	60	1	08/24/2023 04:20	08/24/2023 19:35	J^		
Magnesium	12	mg/L	0.40	0.10	1	08/24/2023 04:20	08/24/2023 19:35	J		
Potassium	21	mg/L	2.0	0.50	1	08/24/2023 04:20	08/24/2023 19:35	J		
Sodium	22	mg/L	3.2	0.80	1	08/24/2023 04:20	08/24/2023 19:35	J		
METALS (SW-846 3010A/SW-84	6 6020)									
Antimony	1.0 U	ug/L	4.0	1.0	1	08/28/2023 07:12	08/28/2023 22:22	J		
Arsenic	8.4	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:22	J		
Cadmium	0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:22	J		
Cobalt	0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:22	J		
Lead	0.50 U	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 22:22	J		
Molybdenum	4.2	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 22:22	J		
Selenium	1.2 U	ug/L	5.0	1.2	1	08/28/2023 07:12	08/28/2023 22:22	J		
Thallium	0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:22	J		
METALS (SW-846 7470A)										
Mercury	0.011 U	ug/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 12:42	Т		
WET CHEMISTRY (EPA 300.0)										
Chloride	100	mg/L	10	2.0	2	08/30/2023 21:10	08/30/2023 21:10	Т		
Fluoride	0.40 U	mg/L	1.0	0.40	2	08/30/2023 21:10	08/30/2023 21:10	Т		
Sulfate	210	mg/L	10	2.0	2	08/30/2023 21:10	08/30/2023 21:10	Т		
WET CHEMISTRY (SM 2320B)										
Alkalinity, Bicarbonate	220	mg/L	20	5.0	1	08/24/2023 21:30	08/24/2023 21:30	Т		
Alkalinity, Total	230	mg/L	20	5.0	1	08/24/2023 21:30	08/24/2023 21:30	Т		

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 10 of 86

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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

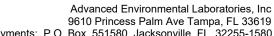
 Lab ID:
 T2316486002
 Date Collected:
 08/16/2023 14:56
 Matrix:
 Water

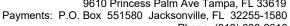
Sample ID: CCR-17 **Date Received:** 08/18/2023 16:31

				-0-0 . 0.0 .				
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	940	mg/L	10	10	1	08/20/2023 12:00	08/20/2023 12:00	Т











FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

	T2316486003 CCR-16		Date Colle Date Rece		08/16/2023 19 08/18/2023 19			Matrix: Water		
Parameter		Results	Units	PC	L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-	-846 3010A/SW-846	6010)								
Barium		92	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 19:39	J
Beryllium		2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 19:39	J
Boron		570	ug/L	40)	100	1	08/24/2023 04:20	08/24/2023 19:39	J
Calcium		1000	mg/L	8.0		2.0	10	08/24/2023 04:20	08/28/2023 14:34	J
Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 19:39	J
Lithium		150 I	ug/L	24)	60	1	08/24/2023 04:20	08/24/2023 19:39	J^
Magnesium		13	mg/L	0.4	0	0.10	1	08/24/2023 04:20	08/24/2023 19:39	J
Potassium		530	mg/L	10)	25	50	08/24/2023 04:20	08/29/2023 11:47	J
Sodium		430	mg/L	32		8.0	10	08/24/2023 04:20	08/28/2023 14:34	J
METALS (SW-	-846 3010A/SW-846	6020)								
Antimony		1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 22:28	J
Arsenic		0.52 l	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:28	J
Cadmium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:28	J
Cobalt		0.70 I	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:28	J
Lead		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:28	J
Molybdenum		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:28	J
Selenium		1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 22:28	J
Thallium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:28	J
METALS (SW-	-846 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 12:44	Т
WET CHEMIST	TRY (EPA 300.0)									
Chloride		2500	mg/L	12)	25	25	08/30/2023 21:26	08/30/2023 21:26	Т
Fluoride		5.0 U	mg/L	12		5.0	25	08/30/2023 21:26	08/30/2023 21:26	Т
Sulfate		1400	mg/L	12)	25	25	08/30/2023 21:26	08/30/2023 21:26	Т
WET CHEMIST	TRY (SM 2320B)									
Alkalinity, Bicar	rbonate	5.0 U	mg/L	20		5.0	1	08/24/2023 21:37	08/24/2023 21:37	Т
Alkalinity, Total	I	5.0 U	mg/L	20		5.0	1	08/24/2023 21:37	08/24/2023 21:37	Т

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 12 of 86

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Workorder: 2023 CCR Event (T2316486)

Analytical Results

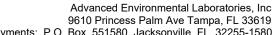
 Lab ID:
 T2316486003
 Date Collected:
 08/16/2023 15:30
 Matrix:
 Water

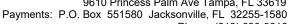
Sample ID: CCR-16 **Date Received:** 08/18/2023 16:31

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	8200	mg/L	10	10	1	08/20/2023 12:00	08/20/2023 12:00	Т











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Workorder: 2023 CCR Event (T2316486)

Analytical Results

	Г2316486004 ССR-6		Date Colle Date Rece		23 10:17 23 16:31		Matrix: Water		
Parameter		Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-8	346 3010A/SW-846 6	6010)							
Barium		3.0 U	ug/L	12	3.0	1	08/24/2023 04:20	08/24/2023 19:44	J
Beryllium		2.0 U	ug/L	8.0	2.0	1	08/24/2023 04:20	08/24/2023 19:44	J
Boron		260 I	ug/L	400	100	1	08/24/2023 04:20	08/24/2023 19:44	J
Calcium		97	mg/L	0.80	0.20	1	08/24/2023 04:20	08/24/2023 19:44	J
Chromium		5.0 U	ug/L	20	5.0	1	08/24/2023 04:20	08/24/2023 19:44	J
Lithium		60 U	ug/L	240	60	1	08/24/2023 04:20	08/24/2023 19:44	J^
Magnesium		2.6	mg/L	0.40	0.10	1	08/24/2023 04:20	08/24/2023 19:44	J
Potassium		17	mg/L	2.0	0.50	1	08/24/2023 04:20	08/24/2023 19:44	J
Sodium		7.7	mg/L	3.2	0.80	1	08/24/2023 04:20	08/24/2023 19:44	J
METALS (SW-8	346 3010A/SW-846 6	6020)							
Antimony		1.0 U	ug/L	4.0	1.0	1	08/28/2023 07:12	08/28/2023 22:34	J
Arsenic		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:34	J
Cadmium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:34	J
Cobalt		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:34	J
Lead		0.50 U	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 22:34	J
Molybdenum		9.0	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 22:34	J
Selenium		1.2 U	ug/L	5.0	1.2	1	08/28/2023 07:12	08/28/2023 22:34	J
Thallium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 22:34	J
METALS (SW-8	346 7470A)								
Mercury		0.011 U	ug/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 12:47	Т
WET CHEMIST	RY (EPA 300.0)								
Chloride		10	mg/L	10	2.0	2	08/30/2023 21:42	08/30/2023 21:42	Т
Fluoride		0.40 U	mg/L	1.0	0.40	2	08/30/2023 21:42	08/30/2023 21:42	Т
Sulfate		90	mg/L	10	2.0	2	08/30/2023 21:42	08/30/2023 21:42	Т
WET CHEMIST	RY (SM 2320B)								
Alkalinity, Bicarb	oonate	140	mg/L	20	5.0	1	08/24/2023 21:41	08/24/2023 21:41	Т
Alkalinity, Total		140	mg/L	20	5.0	1	08/24/2023 21:41	08/24/2023 21:41	Т

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Workorder: 2023 CCR Event (T2316486)

Analytical Results

 Lab ID:
 T2316486004
 Date Collected:
 08/17/2023 10:17
 Matrix:
 Water

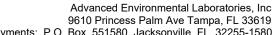
Sample ID: CCR-6 **Date Received:** 08/18/2023 16:31

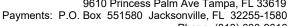
				-0-0 .0.0.				
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	320	mg/L	10	10	1	08/20/2023 12:00	08/20/2023 12:00	Т





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Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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Lab ID: Sample ID:	T2316486005 CCR-8		Date Collec Date Recei		08/17/2023 10 08/18/2023 10			Matrix: Water		
Parameter		Results	Units	PC	!L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-	-846 3010A/SW-846 6	010)								
Barium		21	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 19:48	J
Beryllium		2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 19:48	J
Boron		100 U	ug/L	40)	100	1	08/24/2023 04:20	08/24/2023 19:48	J
Calcium		72	mg/L	0.8	0	0.20	1	08/24/2023 04:20	08/24/2023 19:48	J
Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 19:48	J
Lithium		60 U	ug/L	24)	60	1	08/24/2023 04:20	08/24/2023 19:48	J^
METALS (SW-	-846 3010A/SW-846 6	6020)								
Antimony		1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 22:40	J
Arsenic		1.3	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:40	J
Cadmium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:40	J
Cobalt		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:40	J
Lead		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:40	J
Molybdenum		11	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:40	J
Selenium		1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 22:40	J
Thallium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:40	J
METALS (SW-	-846 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 12:50	Т
WET CHEMIS	TRY (EPA 300.0)									
Chloride		2.0 U	mg/L	10		2.0	2	08/30/2023 22:30	08/30/2023 22:30	Т
Fluoride		0.40 U	mg/L	1.0		0.40	2	08/30/2023 22:30	08/30/2023 22:30	Т
Sulfate		39	mg/L	10		2.0	2	08/30/2023 22:30	08/30/2023 22:30	Т
WET CHEMIS	TRY (SM 2540 C)									
Total Dissolved	d Solids	260	mg/L	10		10	1	08/20/2023 12:00	08/20/2023 12:00	Т







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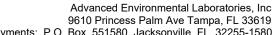
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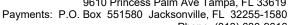
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Workorder: 2023 CCR Event (T2316486)

Analytical Results









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Workorder: 2023 CCR Event (T2316486)

Analytical Results

Barium Beryllium Boron Calcium	846 3010A/SW-846 601	Results 0) 39 2.0 U	Units ug/L	PQ	L	MDL	DF	D		
Barium Beryllium Boron Calcium	846 3010A/SW-846 601	39	ug/L				DΓ	Prepared	Analyzed	Lab
Beryllium Boron Calcium			ug/L							
Boron Calcium		20 U		12		3.0	1	08/24/2023 04:20	08/24/2023 20:01	J
Calcium		0	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 20:01	J
		460	ug/L	400)	100	1	08/24/2023 04:20	08/24/2023 20:01	J
		510	mg/L	8.0		2.0	10	08/24/2023 04:20	08/28/2023 14:38	J
Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 20:01	J
Lithium		60 U	ug/L	240)	60	1	08/24/2023 04:20	08/24/2023 20:01	J^
Magnesium		35	mg/L	0.4	0	0.10	1	08/24/2023 04:20	08/24/2023 20:01	J
Potassium		97	mg/L	20		5.0	10	08/24/2023 04:20	08/28/2023 14:38	J
Sodium		120	mg/L	3.2		0.80	1	08/24/2023 04:20	08/24/2023 20:01	J
METALS (SW-	846 3010A/SW-846 602	0)								
Antimony		1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 22:45	J
Arsenic		1.9	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:45	J
Cadmium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:45	J
Cobalt		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:45	J
Lead		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:45	J
Molybdenum		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:45	J
Selenium		1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 22:45	J
Thallium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:45	J
METALS (SW-	846 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 12:53	Т
WET CHEMIST	TRY (EPA 300.0)									
Chloride		550	mg/L	50		10	10	08/30/2023 22:46	08/30/2023 22:46	Т
Fluoride		2.0 U	mg/L	5.0		2.0	10	08/30/2023 22:46	08/30/2023 22:46	Т
Sulfate		1600	mg/L	50		10	10	08/30/2023 22:46	08/30/2023 22:46	Т
WET CHEMIST	TRY (SM 2320B)									
Alkalinity, Bicar	rbonate	29	mg/L	20		5.0	1	08/24/2023 21:45	08/24/2023 21:45	Т
Alkalinity, Total	ı	29	mg/L	20		5.0	1	08/24/2023 21:45	08/24/2023 21:45	Т

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 18 of 86

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Workorder: 2023 CCR Event (T2316486)

Analytical Results

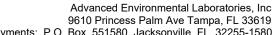
 Lab ID:
 T2316486006
 Date Collected:
 08/17/2023 11:45
 Matrix:
 Water

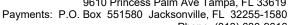
Sample ID: CCR-9 **Date Received:** 08/18/2023 16:31

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	2300	mg/L	10	10	1	08/20/2023 12:00	08/20/2023 12:00	Т











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Workorder: 2023 CCR Event (T2316486)

Analy	tical E	Pagu	lte
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Parameter	Lab ID: Sample ID:	T2316486007 CCR-20		Date Colle Date Rece		08/18/2023 0 08/18/2023 1			Matrix: Water		
Barium 52 ug/L 12 3.0 1 08/24/2023 04:20	Parameter		Results	Units	PQ	L	MDL	DF	Prepared	Analyzed	Lab
Beryllium	METALS (SW	V-846 3010A/SW-846 60	010)								
Boron 3601 ug/L 400 100 1 08/24/2023 04:20 08/24/2023 04:40 Calcium 520 mg/L 8.0 2.0 10 08/24/2023 04:20 08/28/2023 14:43 Chromium 5.0 U ug/L 20 5.0 1 08/24/2023 04:20 08/24/2023 02:00 Lithium 60 U ug/L 240 60 1 08/24/2023 04:20 08/24/2023 02:00 Magnesium 12 mg/L 240 60 1 08/24/2023 04:20 08/24/2023 02:00 Polassium 310 mg/L 20 5.0 10 08/24/2023 04:20 08/24/2023 20:00 Polassium 310 mg/L 20 5.0 10 08/24/2023 04:20 08/28/2023 20:00 Polassium 310 mg/L 20 5.0 10 08/24/2023 04:20 08/24/2023 02:00 Polassium 310 mg/L 40 1.0 1.0 08/24/2023 04:20 08/24/2023 07:12 08/28/2023 22:51 Arsenic 64	Barium		52	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 20:06	J
Calcium 520 mg/L 8.0 2.0 10 08/24/2023 04:20 08/28/2023 14:43 Chromium 5.0 U ug/L 20 5.0 1 08/24/2023 04:20 08/24/2023 20:20 Lithium 60 U ug/L 240 60 1 08/24/2023 04:20 08/24/2023 20:20 Magnesium 12 mg/L 20 5.0 10 08/24/2023 04:20 08/24/2023 20:20 Potassium 310 mg/L 20 5.0 10 08/24/2023 04:20 08/28/2023 21:43 Sodium 180 mg/L 3.2 0.80 1 08/24/2023 04:20 08/28/2023 21:43 Sodium 1.0 U ug/L 4.0 1.0 0.8/28/2023 07:12 08/28/2023 22:51 Artsenic 64 ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cadmium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0	Beryllium		2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 20:06	J
Chromium 5.0 U ug/L 20 5.0 I 08/24/2023 04:20 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28/2023 07:12 08/28	Boron		360 I	ug/L	400)	100	1	08/24/2023 04:20	08/24/2023 20:06	J
Lithium 60 U ug/L 240 60 1 08/24/2023 04:20 08/24/2023 20:20 Magnesium 12 mg/L 20 5.0 10 08/24/2023 04:20 08/24/2023 20:20 Potassium 310 mg/L 20 5.0 10 08/24/2023 04:20 08/28/2023 14:43 Sodium 180 mg/L 20 5.0 10 08/24/2023 04:20 08/28/2023 07:12 08/28/2023 07:00 METALS (SW-846 3010A/SW-846 6020) W U 4.0 1.0 1 08/28/2023 07:12 08/28/2023 22:51 Arsenic 64 ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cadmium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cobalt 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 U 1 08/28/2023 07:12 08/28/2023 22:51 Melenium 1.2	Calcium		520	mg/L	8.0		2.0	10	08/24/2023 04:20	08/28/2023 14:43	J
Magnesium 12 mg/L 0.40 0.10 1 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 04:20 08/24/2023 14:43 Sodium 180 mg/L 3.2 0.80 1 08/24/2023 04:20 08/24/2023 20:06 METALS (SW-846 3010A/SW-846 6020) Will a month of	Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 20:06	J
Potassium 310 mg/L 20 5.0 10 08/24/2023 04:20 08/28/2023 14:43 Sodium 180 mg/L 3.2 0.80 1 08/24/2023 04:20 08/24/2023 20:00 METALS (SW-846 3010A/SW-846 6020V Antimony 1.0 ug/L 4.0 1.0 1 08/28/2023 07:12 08/28/2023 22:51 Arsenic 64 ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cadmium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cobalt 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 1 08/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 5.0 1.2 1 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 1 08/28/2023 07:12 08/28/2023 22:01 <td>Lithium</td> <td></td> <td>60 U</td> <td>ug/L</td> <td>240</td> <td></td> <td>60</td> <td>1</td> <td>08/24/2023 04:20</td> <td>08/24/2023 20:06</td> <td>J^</td>	Lithium		60 U	ug/L	240		60	1	08/24/2023 04:20	08/24/2023 20:06	J^
Sodium 180 mg/L 3.2 0.80 1 08/24/2023 04:20 08/24/2023 20:06 METALS (SW-846 3010A/SW-846 6020) Antimony 1.0 u g/L 4.0 1.0 1 08/28/2023 07:12 08/28/2023 22:51 Arsenic 64 ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cadmium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cobalt 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 I 1 08/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 2.0 0.50 I 1 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 I 08/28/2023 07:12 08/28/2023 22:51 TAIL SIGNERS (SW-846 7470A) MET CHEMISTRY (EPA 300.U) CHEMISTRY (EPA 300.U) <tr< td=""><td>Magnesium</td><td></td><td>12</td><td>mg/L</td><td>0.4</td><td>0</td><td>0.10</td><td>1</td><td>08/24/2023 04:20</td><td>08/24/2023 20:06</td><td>J</td></tr<>	Magnesium		12	mg/L	0.4	0	0.10	1	08/24/2023 04:20	08/24/2023 20:06	J
METALS (SW-846 3010A/SW-846 6020) Antimony 1.0 U ug/L 4.0 1.0 U 08/28/2023 07:12 08/28/2023 22:51 Arsenic 64 ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cadmium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cobalt 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 1 08/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 2.0 0.50 1 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 U 0.8/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.01 U ug/L 0.10 0.01 U 0.9/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 5.0 10	Potassium		310	mg/L	20		5.0	10	08/24/2023 04:20	08/28/2023 14:43	J
Antimony 1.0 U ug/L 4.0 1.0 U 08/28/2023 27:12 08/28/2023 22:51 Arsenic 64 ug/L 1.0 0.25 U 08/28/2023 22:51 08/28/2023 07:12 08/28/2023 22:51 Cadmium 0.25 U ug/L 1.0 0.25 U 08/28/2023 27:12 08/28/2023 22:51 Cobalt 0.25 U ug/L 1.0 0.25 U 0.828/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 U 0.80/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 2.0 0.50 U 0.80/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 U 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 1.0 0.25 U 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 U 0.011 U 0.010 U 0.011 U 0.010 U 0.011 U 0.010 U 0.011 U 0.0	Sodium		180	mg/L	3.2		0.80	1	08/24/2023 04:20	08/24/2023 20:06	J
Arsenic 64 ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cadmium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Cobalt 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 1 08/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 2.0 0.50 1 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 0.50 1 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 5.0 1.2 1 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 1 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Fluoride 450 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2.0 U mg/L 5.0 2.0 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) METALS (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 5.0 1 08/24/2023 21:49 08/24/2023 21:49	METALS (SW	V-846 3010A/SW-846 60	020)								
Cadmium 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 Cobalt 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 I 08/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 2.0 0.50 I 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 I 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 I 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 50 10 08/30/2023 23:02 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2100 mg/L 50 10 08/30/2023 23:02 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM	Antimony		1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 22:51	J
Cobalt 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 Lead 0.50 U ug/L 2.0 0.50 I 08/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 2.0 0.50 I 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 I 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) WET CHEMISTRY (EPA 300.0) Ug/L 0.10 0.011 I 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Ug/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2100 mg/L 50 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 </td <td>Arsenic</td> <td></td> <td>64</td> <td>ug/L</td> <td>1.0</td> <td></td> <td>0.25</td> <td>1</td> <td>08/28/2023 07:12</td> <td>08/28/2023 22:51</td> <td>J</td>	Arsenic		64	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:51	J
Lead 0.50 U ug/L 2.0 0.50 U 08/28/2023 07:12 08/28/2023 22:51 Molybdenum 0.50 U ug/L 2.0 0.50 I 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 I 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 I 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 5.0 10 08/30/2023 23:02 08/30/2023 23:02 Fluoride 2.0 U mg/L 5.0 2.0 10 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2100 mg/L 50 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 </td <td>Cadmium</td> <td></td> <td>0.25 U</td> <td>ug/L</td> <td>1.0</td> <td></td> <td>0.25</td> <td>1</td> <td>08/28/2023 07:12</td> <td>08/28/2023 22:51</td> <td>J</td>	Cadmium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:51	J
Molybdenum 0.50 U ug/L 2.0 0.50 I 08/28/2023 07:12 08/28/2023 22:51 Selenium 1.2 U ug/L 5.0 1.2 I 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 I 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 Fluoride 2.0 U mg/L 5.0 2.0 I 0 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2100 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49	Cobalt		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:51	J
Selenium 1.2 U ug/L 5.0 1.2 I 08/28/2023 07:12 08/28/2023 22:51 Thallium 0.25 U ug/L 1.0 0.25 I 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 I 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 Fluoride 2.0 U mg/L 5.0 2.0 U 10 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2100 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49	Lead		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:51	J
Thallium 0.25 U ug/L 1.0 0.25 1 08/28/2023 07:12 08/28/2023 22:51 METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 1 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 Fluoride 2.0 U mg/L 5.0 2.0 10 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2100 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49	Molybdenum		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 22:51	J
METALS (SW-846 7470A) Mercury 0.011 U ug/L 0.10 0.011 1 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 50 10 10 08/30/2023 23:02 <	Selenium		1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 22:51	J
Mercury 0.011 U ug/L 0.10 0.011 I 09/01/2023 10:05 09/05/2023 12:56 WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 50 10 10 08/30/2023 23:02	Thallium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 22:51	J
WET CHEMISTRY (EPA 300.0) Chloride 450 mg/L 50 10 10 08/30/2023 23:02 </td <td>METALS (SW</td> <td>V-846 7470A)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	METALS (SW	V-846 7470A)									
Chloride 450 mg/L 50 10 10 08/30/2023 23:02	Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 12:56	Т
Fluoride 2.0 U mg/L 5.0 2.0 10 08/30/2023 23:02 08/30/2023 23:02 Sulfate 2100 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49	WET CHEMIS	STRY (EPA 300.0)									
Sulfate 2100 mg/L 50 10 10 08/30/2023 23:02 08/30/2023 23:02 WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49	Chloride		450	mg/L	50		10	10	08/30/2023 23:02	08/30/2023 23:02	Т
WET CHEMISTRY (SM 2320B) Alkalinity, Bicarbonate 7.3 l mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49 08/24/2023 21:49	Fluoride		2.0 U	mg/L	5.0		2.0	10	08/30/2023 23:02	08/30/2023 23:02	Т
Alkalinity, Bicarbonate 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49	Sulfate		2100	mg/L	50		10	10	08/30/2023 23:02	08/30/2023 23:02	Т
•	WET CHEMIS	STRY (SM 2320B)									
Alkalinity, Total 7.3 I mg/L 20 5.0 1 08/24/2023 21:49 08/24/2023 21:49	Alkalinity, Bica	arbonate	7.3 I	mg/L	20		5.0	1	08/24/2023 21:49	08/24/2023 21:49	Т
	Alkalinity, Tot	al	7.3 I	mg/L	20		5.0	1	08/24/2023 21:49	08/24/2023 21:49	Т

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 20 of 86

Certificate of Analysis







Payments: P.O. Box 551580 Jacksonville, FL 32255-1580

Phone: (813) 630-9616 Fax: (813) 630-4327

FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

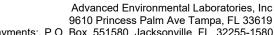
 Lab ID:
 T2316486007
 Date Collected:
 08/18/2023 07:39
 Matrix:
 Water

Sample ID: CCR-20 **Date Received:** 08/18/2023 16:31

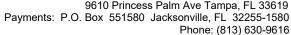
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	3500	mg/L	10	10	1	08/20/2023 12:00	08/20/2023 12:00	Т



Certificate of Analysis



Fax: (813) 630-4327





FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Populto

Lab ID: T23164 Sample ID: CCR-11		Date Colle Date Rece		08/18/2023 08: 08/18/2023 16:			Matrix: Water		
Parameter	Results	Units	PQ	L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 301	0A/SW-846 6010)								
Barium	48	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 20:11	J
Beryllium	2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 20:11	J
Boron	360 I	ug/L	400)	100	1	08/24/2023 04:20	08/24/2023 20:11	J
Calcium	580	mg/L	8.0		2.0	10	08/24/2023 04:20	08/28/2023 14:47	J
Chromium	5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 20:11	J
Lithium	60 U	ug/L	240)	60	1	08/24/2023 04:20	08/24/2023 20:11	J^
Magnesium	15	mg/L	0.4	0	0.10	1	08/24/2023 04:20	08/24/2023 20:11	J
Potassium	340	mg/L	20		5.0	10	08/24/2023 04:20	08/28/2023 14:47	J
Sodium	230	mg/L	3.2		0.80	1	08/24/2023 04:20	08/24/2023 20:11	J
METALS (SW-846 301	0A/SW-846 6020)								
Antimony	1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 23:08	J
Arsenic	58	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:08	J
Cadmium	0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:08	J
Cobalt	0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:08	J
Lead	0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:08	J
Molybdenum	0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:08	J
Selenium	1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 23:08	J
Thallium	0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:08	J
METALS (SW-846 747	0A)								
Mercury	0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 12:58	Т
WET CHEMISTRY (EP	A 300.0)								
Chloride	780	mg/L	50		10	10	08/30/2023 23:18	08/30/2023 23:18	Т
Fluoride	2.0 U	mg/L	5.0		2.0	10	08/30/2023 23:18	08/30/2023 23:18	Т
Sulfate	2000	mg/L	50		10	10	08/30/2023 23:18	08/30/2023 23:18	Т
WET CHEMISTRY (SN	l 2320B)								
Alkalinity, Bicarbonate	5.0 U	mg/L	20		5.0	1	08/24/2023 21:52	08/24/2023 21:52	Т
Alkalinity, Total	5.0 U	mg/L	20		5.0	1	08/24/2023 21:52	08/24/2023 21:52	Т

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 22 of 86

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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

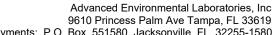
 Lab ID:
 T2316486008
 Date Collected:
 08/18/2023 08:46
 Matrix:
 Water

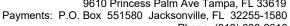
Sample ID: CCR-11 **Date Received:** 08/18/2023 16:31

Cumpic ISI Cont III		D 410 11000	00/10/	2020 10.01				
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	4200	mg/L	10	10	1	08/20/2023 12:00	08/20/2023 12:00	Т











FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Allalytical Res	Analytic	cal Re	esults
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Lab ID: Sample ID:	T2316486009 CCR-23		Date Colle Date Rece		/18/2023 09:26 /18/2023 16:31		Matrix: Water		
Parameter		Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW	/-846 3010A/SW-846 6	010)							
Barium		9.2 I	ug/L	12	3.0	1	08/24/2023 04:20	08/24/2023 20:15	J
Beryllium		2.0 U	ug/L	8.0	2.0	1	08/24/2023 04:20	08/24/2023 20:15	J
Boron		710	ug/L	400	100	1	08/24/2023 04:20	08/24/2023 20:15	J
Calcium		260	mg/L	8.0	2.0	10	08/24/2023 04:20	08/28/2023 14:52	J
Chromium		5.0 U	ug/L	20	5.0	1	08/24/2023 04:20	08/24/2023 20:15	J
Lithium		60 U	ug/L	240	60	1	08/24/2023 04:20	08/24/2023 20:15	J^
Magnesium		28	mg/L	0.40	0.10	1	08/24/2023 04:20	08/24/2023 20:15	J
Potassium		16	mg/L	2.0	0.50	1	08/24/2023 04:20	08/24/2023 20:15	J
Sodium		48	mg/L	3.2	0.80	1	08/24/2023 04:20	08/24/2023 20:15	J
METALS (SW	/-846 3010A/SW-846 6	020)							
Antimony		1.0 U	ug/L	4.0	1.0	1	08/28/2023 07:12	08/28/2023 23:14	J
Arsenic		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:14	J
Cadmium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:14	J
Cobalt		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:14	J
Lead		0.50 U	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 23:14	J
Molybdenum		0.50 U	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 23:14	J
Selenium		1.2 U	ug/L	5.0	1.2	1	08/28/2023 07:12	08/28/2023 23:14	J
Thallium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:14	J
METALS (SW	/-846 7470A)								
Mercury		0.011 U	ug/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 13:01	Т
WET CHEMIS	STRY (EPA 300.0)								
Chloride		160	mg/L	25	5.0	5	08/30/2023 23:34	08/30/2023 23:34	Т
Fluoride		1.0 U	mg/L	2.5	1.0	5	08/30/2023 23:34	08/30/2023 23:34	Т
Sulfate		770	mg/L	25	5.0	5	08/30/2023 23:34	08/30/2023 23:34	Т
WET CHEMIS	STRY (SM 2320B)								
Alkalinity, Bica	arbonate	41	mg/L	20	5.0	1	08/24/2023 21:56	08/24/2023 21:56	Т
Alkalinity, Tota	al	41	mg/L	20	5.0	1	08/24/2023 21:56	08/24/2023 21:56	Т

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 24 of 86

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Workorder: 2023 CCR Event (T2316486)

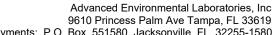
Analytical Results

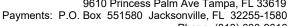
 Lab ID:
 T2316486009
 Date Collected:
 08/18/2023 09:26
 Matrix:
 Water

Sample ID: CCR-23 **Date Received:** 08/18/2023 16:31

Campic ID: Cort 20		D 410 11000	00/10/	2020 10.01				
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	1500	mg/L	10	10	1	08/20/2023 12:00	08/20/2023 12:00	Т









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Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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Lab ID: T2316486010 Sample ID: CCR-13		Date Collec Date Recei		08/18/2023 09 08/18/2023 16			Matrix: Water		
Parameter	Results	Units	PC)L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3010A/SW-84	46 6010)								
Barium	23	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 20:19	J
Beryllium	2.0 U	ug/L	8.0)	2.0	1	08/24/2023 04:20	08/24/2023 20:19	J
Boron	640	ug/L	40	0	100	1	08/24/2023 04:20	08/24/2023 20:19	J
Calcium	450	mg/L	8.0)	2.0	10	08/24/2023 04:20	08/28/2023 15:00	J
Chromium	5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 20:19	J
Lithium	120 I	ug/L	24	0	60	1	08/24/2023 04:20	08/24/2023 20:19	J^
METALS (SW-846 3010A/SW-84	46 6020)								
Antimony	1.0 U	ug/L	4.0)	1.0	1	08/28/2023 07:12	08/28/2023 23:20	J
Arsenic	0.32 I	ug/L	1.0)	0.25	1	08/28/2023 07:12	08/28/2023 23:20	J
Cadmium	0.25 U	ug/L	1.0)	0.25	1	08/28/2023 07:12	08/28/2023 23:20	J
Cobalt	0.77 I	ug/L	1.0)	0.25	1	08/28/2023 07:12	08/28/2023 23:20	J
Lead	0.50 U	ug/L	2.0)	0.50	1	08/28/2023 07:12	08/28/2023 23:20	J
Molybdenum	0.50 U	ug/L	2.0)	0.50	1	08/28/2023 07:12	08/28/2023 23:20	J
Selenium	1.2 U	ug/L	5.0)	1.2	1	08/28/2023 07:12	08/28/2023 23:20	J
Thallium	0.25 U	ug/L	1.0)	0.25	1	08/28/2023 07:12	08/28/2023 23:20	J
METALS (SW-846 7470A)									
Mercury	0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 13:04	Т
WET CHEMISTRY (EPA 300.0)									
Chloride	100	mg/L	25		5.0	5	08/30/2023 23:50	08/30/2023 23:50	Т
Fluoride	1.0 U	mg/L	2.5	5	1.0	5	08/30/2023 23:50	08/30/2023 23:50	Т
Sulfate	1700	mg/L	10	0	20	20	09/12/2023 12:16	09/12/2023 12:16	Т
WET CHEMISTRY (SM 2540 C)									
Total Dissolved Solids	2500	mg/L	10		10	1	08/24/2023 14:00	08/24/2023 14:00	Т







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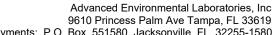
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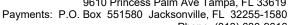
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Workorder: 2023 CCR Event (T2316486)

Analytical Results









FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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Lab ID: Sample ID:	T2316486011 CCR-22		Date Colle Date Rece		08/18/2023 1 08/18/2023 1			Matrix: Water		
Parameter		Results	Units	PQ	L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW	/-846 3010A/SW-846	6010)								
Barium		37	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 20:24	J
Beryllium		2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 20:24	J
Boron		390 I	ug/L	400)	100	1	08/24/2023 04:20	08/24/2023 20:24	J
Calcium		390	mg/L	8.0		2.0	10	08/24/2023 04:20	08/28/2023 15:18	J
Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 20:24	J
Lithium		89 I	ug/L	240)	60	1	08/24/2023 04:20	08/24/2023 20:24	J^
Magnesium		23	mg/L	0.4	0	0.10	1	08/24/2023 04:20	08/24/2023 20:24	J
Potassium		180	mg/L	20		5.0	10	08/24/2023 04:20	08/28/2023 15:18	J
Sodium		60	mg/L	3.2		0.80	1	08/24/2023 04:20	08/24/2023 20:24	J
METALS (SW	/-846 3010A/SW-846	6020)								
Antimony		1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 23:25	J
Arsenic		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:25	J
Cadmium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:25	J
Cobalt		0.33 I	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:25	J
Lead		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:25	J
Molybdenum		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:25	J
Selenium		1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 23:25	J
Thallium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:25	J
METALS (SW	/-846 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 13:07	Т
WET CHEMIS	STRY (EPA 300.0)									
Chloride		190	mg/L	25		5.0	5	08/31/2023 00:06	08/31/2023 00:06	Т
Fluoride		1.0 U	mg/L	2.5		1.0	5	08/31/2023 00:06	08/31/2023 00:06	Т
Sulfate		1500	mg/L	100)	20	20	09/12/2023 12:32	09/12/2023 12:32	Т
WET CHEMIS	STRY (SM 2320B)									
Alkalinity, Bica	arbonate	5.0 U	mg/L	20		5.0	1	08/24/2023 21:59	08/24/2023 21:59	Т
Alkalinity, Tota	al	5.0 U	mg/L	20		5.0	1	08/24/2023 21:59	08/24/2023 21:59	Т

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Workorder: 2023 CCR Event (T2316486)

Analytical Results

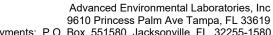
 Lab ID:
 T2316486011
 Date Collected:
 08/18/2023 10:18
 Matrix:
 Water

Sample ID: CCR-22 **Date Received:** 08/18/2023 16:31

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	2400	mg/L	10	10	1	08/24/2023 14:00	08/24/2023 14:00	Т







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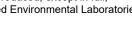
Workorder: 2023 CCR Event (T2316486)

Analytical Results

	T2316486012 SW-106		Date Colle Date Rece		08/18/2023 14 08/18/2023 16			Matrix: Water		
Parameter		Results	Units	PQ	L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-	846 3010A/SW-846 (6010)								
Barium		15	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 20:29	J
Beryllium		2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 20:29	J
Boron		100 U	ug/L	400)	100	1	08/24/2023 04:20	08/24/2023 20:29	J
Calcium		8.7	mg/L	0.8	0	0.20	1	08/24/2023 04:20	08/28/2023 15:23	J
Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 20:29	J
Lithium		60 U	ug/L	240)	60	1	08/24/2023 04:20	08/24/2023 20:29	J^
Magnesium		2.6	mg/L	0.4	0	0.10	1	08/24/2023 04:20	08/24/2023 20:29	J
Potassium		7.4	mg/L	2.0		0.50	1	08/24/2023 04:20	08/24/2023 20:29	J
Sodium		3.3	mg/L	3.2		0.80	1	08/24/2023 04:20	08/24/2023 20:29	J
METALS (SW-	846 3010A/SW-846 (6020)								
Antimony		1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 23:31	J
Arsenic		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:31	J
Cadmium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:31	J
Cobalt		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:31	J
Lead		0.82 I	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:31	J
Molybdenum		1.9 I	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:31	J
Selenium		1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 23:31	J
Thallium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:31	J
METALS (SW-	846 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 13:15	Т
WET CHEMIST	RY (EPA 300.0)									
Chloride		2.1 I	mg/L	10		2.0	2	08/31/2023 00:22	08/31/2023 00:22	Т
Fluoride		0.40 U	mg/L	1.0		0.40	2	08/31/2023 00:22	08/31/2023 00:22	Т
Sulfate		28	mg/L	10		2.0	2	08/31/2023 00:22	08/31/2023 00:22	Т
WET CHEMIST	RY (SM 2320B)									
Alkalinity, Bicar	bonate	16 I	mg/L	20		5.0	1	08/24/2023 22:03	08/24/2023 22:03	Т
Alkalinity, Total		16 I	mg/L	20		5.0	1	08/24/2023 22:03	08/24/2023 22:03	Т

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Analytical Results

 Lab ID:
 T2316486012
 Date Collected:
 08/18/2023 14:25
 Matrix:
 Water

Sample ID: SW-106 **Date Received:** 08/18/2023 16:31

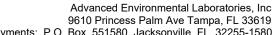
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	100	mg/L	10	10	1	08/24/2023 14:00	08/24/2023 14:00	Т

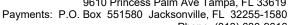














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Workorder: 2023 CCR Event (T2316486)

Analy	ytical	Results
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	T2316486013 EQ BLANK		Date Collected: 08/18/2023 10:36 Matrix: Water Date Received: 08/18/2023 16:31							
Parameter		Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab	
METALS (SW-	846 3010A/SW-846	6010)								
Barium		3.0 U	ug/L	12	3.0	1	08/24/2023 04:20	08/24/2023 20:33	J	
Beryllium		2.0 U	ug/L	8.0	2.0	1	08/24/2023 04:20	08/24/2023 20:33	J	
Boron		100 U	ug/L	400	100	1	08/24/2023 04:20	08/24/2023 20:33	J	
Calcium		0.20 U	mg/L	0.80	0.20	1	08/24/2023 04:20	08/28/2023 15:27	J	
Chromium		5.0 U	ug/L	20	5.0	1	08/24/2023 04:20	08/24/2023 20:33	J	
Lithium		60 U	ug/L	240	60	1	08/24/2023 04:20	08/24/2023 20:33	J^	
Magnesium		0.10 U	mg/L	0.40	0.10	1	08/24/2023 04:20	08/24/2023 20:33	J	
Potassium		0.50 U	mg/L	2.0	0.50	1	08/24/2023 04:20	08/24/2023 20:33	J	
Sodium		0.80 U	mg/L	3.2	0.80	1	08/24/2023 04:20	08/24/2023 20:33	J	
METALS (SW-	846 3010A/SW-846	6020)								
Antimony		1.0 U	ug/L	4.0	1.0	1	08/28/2023 07:12	08/28/2023 23:37	J	
Arsenic		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:37	J	
Cadmium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:37	J	
Cobalt		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:37	J	
Lead		0.50 U	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 23:37	J	
Molybdenum		0.50 U	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 23:37	J	
Selenium		1.2 U	ug/L	5.0	1.2	1	08/28/2023 07:12	08/28/2023 23:37	J	
Thallium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:37	J	
METALS (SW-	846 7470A)									
Mercury		0.011 U	ug/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 13:18	Т	
WET CHEMIST	ΓRY (EPA 300.0)									
Chloride		1.0 U	mg/L	5.0	1.0	1	08/31/2023 01:10	08/31/2023 01:10	Т	
Fluoride		0.20 U	mg/L	0.50	0.20	1	08/31/2023 01:10	08/31/2023 01:10	Т	
Sulfate		1.0 U	mg/L	5.0	1.0	1	08/31/2023 01:10	08/31/2023 01:10	Т	
WET CHEMIST	TRY (SM 2320B)									
Alkalinity, Bicar	bonate	5.0 U	mg/L	20	5.0	1	08/24/2023 22:07	08/24/2023 22:07	Т	
Alkalinity, Total		5.0 U	mg/L	20	5.0	1	08/24/2023 22:07	08/24/2023 22:07	Т	

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 32 of 86

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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

 Lab ID:
 T2316486013
 Date Collected:
 08/18/2023 10:36
 Matrix:
 Water

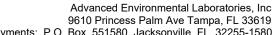
Sample ID: EQ BLANK Date Received: 08/18/2023 16:31

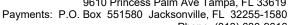
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	10 U	mg/L	10	10	1	08/24/2023 14:00	08/24/2023 14:00	Т





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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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	T2316486014 CCR-21		Date Colle Date Rece		08/18/2023 1 08/18/2023 1			Matrix: Water		
Parameter		Results	Units	PQ	L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-	846 3010A/SW-846	6010)								
Barium		44	ug/L	12		3.0	1	08/24/2023 04:20	08/24/2023 20:37	J
Beryllium		2.0 U	ug/L	8.0		2.0	1	08/24/2023 04:20	08/24/2023 20:37	J
Boron		320 I	ug/L	400)	100	1	08/24/2023 04:20	08/24/2023 20:37	J
Calcium		480	mg/L	8.0		2.0	10	08/24/2023 04:20	08/28/2023 15:32	J
Chromium		5.0 U	ug/L	20		5.0	1	08/24/2023 04:20	08/24/2023 20:37	J
Lithium		60 U	ug/L	240)	60	1	08/24/2023 04:20	08/24/2023 20:37	J^
Magnesium		16	mg/L	0.4	0	0.10	1	08/24/2023 04:20	08/24/2023 20:37	J
Potassium		20	mg/L	2.0		0.50	1	08/24/2023 04:20	08/24/2023 20:37	J
Sodium		23	mg/L	3.2		0.80	1	08/24/2023 04:20	08/24/2023 20:37	J
METALS (SW-	846 3010A/SW-846	6020)								
Antimony		1.0 U	ug/L	4.0		1.0	1	08/28/2023 07:12	08/28/2023 23:43	J
Arsenic		8.9	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:43	J
Cadmium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:43	J
Cobalt		0.42 I	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:43	J
Lead		0.50 U	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:43	J
Molybdenum		35	ug/L	2.0		0.50	1	08/28/2023 07:12	08/28/2023 23:43	J
Selenium		1.2 U	ug/L	5.0		1.2	1	08/28/2023 07:12	08/28/2023 23:43	J
Thallium		0.25 U	ug/L	1.0		0.25	1	08/28/2023 07:12	08/28/2023 23:43	J
METALS (SW-	846 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 13:21	Т
WET CHEMIST	ΓRY (EPA 300.0)									
Chloride		20 I	mg/L	25		5.0	5	08/31/2023 01:26	08/31/2023 01:26	Т
Fluoride		1.0 U	mg/L	2.5		1.0	5	08/31/2023 01:26	08/31/2023 01:26	Т
Sulfate		1200	mg/L	25		5.0	5	08/31/2023 01:26	08/31/2023 01:26	Т
WET CHEMIST	TRY (SM 2320B)									
Alkalinity, Bicar	bonate	280	mg/L	20		5.0	1	08/24/2023 22:26	08/24/2023 22:26	Т
Alkalinity, Total		280	mg/L	20		5.0	1	08/24/2023 22:26	08/24/2023 22:26	Т

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 34 of 86

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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

 Lab ID:
 T2316486014
 Date Collected:
 08/18/2023 12:01
 Matrix:
 Water

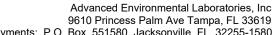
Sample ID: CCR-21 **Date Received:** 08/18/2023 16:31

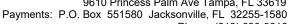
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	1800	mg/L	10	10	1	08/24/2023 14:00	08/24/2023 14:00	Т





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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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Lab ID: Sample ID:	T2316486015 CCR-12		Date Collect Date Rece		8/18/2023 14:14 8/18/2023 16:31		Matrix: Water		
Parameter		Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW	/-846 3010A/SW-846 6	010)							
Barium		17	ug/L	12	3.0	1	08/24/2023 04:20	08/24/2023 20:42	J
Beryllium		2.0 U	ug/L	8.0	2.0	1	08/24/2023 04:20	08/24/2023 20:42	J
Boron		360 I	ug/L	400	100	1	08/24/2023 04:20	08/24/2023 20:42	J
Calcium		370	mg/L	8.0	2.0	10	08/24/2023 04:20	08/28/2023 15:36	J
Chromium		5.0 U	ug/L	20	5.0	1	08/24/2023 04:20	08/24/2023 20:42	J
Lithium		60 U	ug/L	240	60	1	08/24/2023 04:20	08/24/2023 20:42	J^
Magnesium		5.3	mg/L	0.40	0.10	1	08/24/2023 04:20	08/24/2023 20:42	J
Potassium		46	mg/L	20	5.0	10	08/24/2023 04:20	08/28/2023 15:36	J
Sodium		8.3	mg/L	3.2	0.80	1	08/24/2023 04:20	08/24/2023 20:42	J
METALS (SW	/-846 3010A/SW-846 6	6020)							
Antimony		1.0 U	ug/L	4.0	1.0	1	08/28/2023 07:12	08/28/2023 23:48	J
Arsenic		61	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:48	J
Cadmium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:48	J
Cobalt		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:48	J
Lead		0.50 U	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 23:48	J
Molybdenum		13	ug/L	2.0	0.50	1	08/28/2023 07:12	08/28/2023 23:48	J
Selenium		1.2 U	ug/L	5.0	1.2	1	08/28/2023 07:12	08/28/2023 23:48	J
Thallium		0.25 U	ug/L	1.0	0.25	1	08/28/2023 07:12	08/28/2023 23:48	J
METALS (SW	/-846 7470A)								
Mercury		0.011 U	ug/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 13:54	Т
WET CHEMIS	STRY (EPA 300.0)								
Chloride		9.3 I	mg/L	25	5.0	5	08/31/2023 02:30	08/31/2023 02:30	Т
Fluoride		1.0 U	mg/L	2.5	1.0	5	08/31/2023 02:30	08/31/2023 02:30	Т
Sulfate		910	mg/L	25	5.0	5	08/31/2023 02:30	08/31/2023 02:30	Т
WET CHEMIS	STRY (SM 2320B)								
Alkalinity, Bica	arbonate	270	mg/L	20	5.0	1	08/24/2023 22:35	08/24/2023 22:35	Т
Alkalinity, Tota	al	280	mg/L	20	5.0	1	08/24/2023 22:35	08/24/2023 22:35	Т

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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

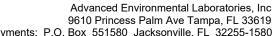
 Lab ID:
 T2316486015
 Date Collected:
 08/18/2023 14:14
 Matrix:
 Water

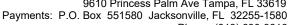
Sample ID: CCR-12 **Date Received:** 08/18/2023 16:31

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	1500	mg/L	10	10	1	08/24/2023 14:00	08/24/2023 14:00	Т











FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

Lab ID: Sample ID:	T2316486016 Fishlake		Date Collect		08/21/2023 0 08/22/2023 1			Matrix: Water		
Parameter		Results	Units	PQ	!L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW	-846 3010A/SW-846 6	6010)								
Barium		36	ug/L	12		3.0	1	08/31/2023 10:00	08/31/2023 22:13	J
Beryllium		2.0 U	ug/L	8.0		2.0	1	08/31/2023 10:00	08/31/2023 22:13	J
Boron		180 I	ug/L	400)	100	1	08/31/2023 10:00	08/31/2023 22:13	J
Calcium		97	mg/L	0.8	0	0.20	1	08/31/2023 10:00	08/31/2023 22:13	J
Chromium		5.0 U	ug/L	20		5.0	1	08/31/2023 10:00	08/31/2023 22:13	J
Lithium		60 U	ug/L	240	0	60	1	08/31/2023 10:00	08/31/2023 22:13	J^
METALS (SW	-846 3010A/SW-846 6	6020)								
Antimony		1.0 U	ug/L	4.0		1.0	1	08/29/2023 07:45	08/29/2023 18:14	J
Arsenic		2.0	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:14	J
Cadmium		0.25 U	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:14	J
Cobalt		0.25 U	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:14	J
Lead		0.50 U	ug/L	2.0		0.50	1	08/29/2023 07:45	08/29/2023 18:14	J
Molybdenum		1.8 I	ug/L	2.0		0.50	1	08/29/2023 07:45	08/29/2023 18:14	J
Selenium		1.2 U	ug/L	5.0		1.2	1	08/29/2023 07:45	08/29/2023 18:14	J
Thallium		0.25 U	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:14	J
METALS (SW	-846 7470A)									
Mercury		0.011 U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 14:30	Т
WET CHEMIS	TRY (EPA 300.0)									
Chloride		68	mg/L	10		2.0	2	08/31/2023 15:35	08/31/2023 15:35	Т
Fluoride		0.43 I	mg/L	1.0		0.40	2	08/31/2023 15:35	08/31/2023 15:35	Т
Sulfate		230	mg/L	10		2.0	2	08/31/2023 15:35	08/31/2023 15:35	Т
WET CHEMIS	TRY (SM 2540 C)									
Total Dissolve	d Solids	600	mg/L	10		10	1	08/26/2023 14:00	08/26/2023 14:00	Т











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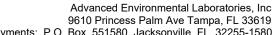
Workorder: 2023 CCR Event (T2316486)

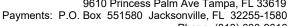
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Analytical Results









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Workorder: 2023 CCR Event (T2316486)

Analytical Results

Lab ID: Sample ID:	T2316486017 CCR-15		Date Colle Date Rece		08/21/2023 11:27 08/22/2023 16:03			Matrix: Water		
Parameter		Results	Units	PC	L M	DL	DF	Prepared	Analyzed	Lab
METALS (SW	/-846 3010A/SW-846	6010)								
Barium		19	ug/L	12	3.	0	1	08/31/2023 10:00	08/31/2023 22:22	J
Beryllium		2.0 U	ug/L	8.0	2.	0	1	08/31/2023 10:00	08/31/2023 22:22	J
Boron		100 U	ug/L	40) 10	00	1	08/31/2023 10:00	08/31/2023 22:22	J
Calcium		9.9	mg/L	8.0	0 0.	20	1	08/31/2023 10:00	08/31/2023 22:22	J
Chromium		5.0 U	ug/L	20	5.	0	1	08/31/2023 10:00	08/31/2023 22:22	J
Lithium		60 U	ug/L	24) 60)	1	08/31/2023 10:00	08/31/2023 22:22	J^
Magnesium		0.45	mg/L	0.4	0 0.	10	1	08/31/2023 10:00	08/31/2023 22:22	J
Potassium		0.96 I	mg/L	2.0	0.	50	1	08/31/2023 10:00	08/31/2023 22:22	J
Sodium		1.1 I	mg/L	3.2	0.	80	1	08/31/2023 10:00	08/31/2023 22:22	J
METALS (SW	/-846 3010A/SW-846	6020)								
Antimony		1.0 U	ug/L	4.0	1.	0	1	08/29/2023 07:45	08/29/2023 18:26	J
Arsenic		0.25 U	ug/L	1.0	0.	25	1	08/29/2023 07:45	08/29/2023 18:26	J
Cadmium		0.25 U	ug/L	1.0	0.	25	1	08/29/2023 07:45	08/29/2023 18:26	J
Cobalt		0.25 U	ug/L	1.0	0.	25	1	08/29/2023 07:45	08/29/2023 18:26	J
Lead		0.50 U	ug/L	2.0	0.	50	1	08/29/2023 07:45	08/29/2023 18:26	J
Molybdenum		0.70 I	ug/L	2.0	0.	50	1	08/29/2023 07:45	08/29/2023 18:26	J
Selenium		1.2 U	ug/L	5.0	1.	2	1	08/29/2023 07:45	08/29/2023 18:26	J
Thallium		0.25 U	ug/L	1.0	0.	25	1	08/29/2023 07:45	08/29/2023 18:26	J
METALS (SW	/-846 7470A)									
Mercury		0.011 U	ug/L	0.1	0 0.	011	1	09/01/2023 10:05	09/05/2023 14:36	Т
WET CHEMIS	TRY (EPA 300.0)									
Chloride		4.0 I	mg/L	10	2.	0	2	08/31/2023 16:06	08/31/2023 16:06	Т
Fluoride		0.40 U	mg/L	1.0	0.	40	2	08/31/2023 16:06	08/31/2023 16:06	Т
Sulfate		32	mg/L	10	2.	0	2	08/31/2023 16:06	08/31/2023 16:06	Т
WET CHEMIS	TRY (SM 2320B)									
Alkalinity, Bica	arbonate	5.0 U	mg/L	20	5.	0	1	08/24/2023 22:51	08/24/2023 22:51	Т
Alkalinity, Tota	al	5.0 U	mg/L	20	5.	0	1	08/24/2023 22:51	08/24/2023 22:51	Т

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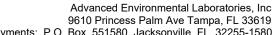
Workorder: 2023 CCR Event (T2316486)

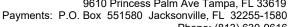
Analytical Results

Sample ID: CCR-15 **Date Received:** 08/22/2023 16:03

-								
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	110	mg/L	10	10	1	08/26/2023 14:00	08/26/2023 14:00	Т









FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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Lab ID: T231648601 Sample ID: CCR-1		Date Colle Date Rece		08/21/2023 13:43 08/22/2023 16:03		Matrix: Water		
Parameter	Results	Units	PQ	L MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846 3010A/S	W-846 6010)							
Barium	12	ug/L	12	3.0	1	08/31/2023 10:00	08/31/2023 22:35	J
Beryllium	2.0 U	ug/L	8.0	2.0	1	08/31/2023 10:00	08/31/2023 22:35	J
Boron	100 U	ug/L	400	100	1	08/31/2023 10:00	08/31/2023 22:35	J
Calcium	29	mg/L	0.8	0.20	1	08/31/2023 10:00	08/31/2023 22:35	J
Chromium	5.0 U	ug/L	20	5.0	1	08/31/2023 10:00	08/31/2023 22:35	J
Lithium	60 U	ug/L	240	60	1	08/31/2023 10:00	08/31/2023 22:35	J^
METALS (SW-846 3010A/S	W-846 6020)							
Antimony	1.0 U	ug/L	4.0	1.0	1	08/29/2023 07:45	08/29/2023 18:31	J
Arsenic	0.97 I	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:31	J
Cadmium	0.25 U	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:31	J
Cobalt	0.25 U	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:31	J
Lead	0.50 U	ug/L	2.0	0.50	1	08/29/2023 07:45	08/29/2023 18:31	J
Molybdenum	0.50 U	ug/L	2.0	0.50	1	08/29/2023 07:45	08/29/2023 18:31	J
Selenium	1.2 U	ug/L	5.0	1.2	1	08/29/2023 07:45	08/29/2023 18:31	J
Thallium	0.25 U	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:31	J
METALS (SW-846 7470A)								
Mercury	0.011 U	ug/L	0.1	0.011	1	09/01/2023 10:05	09/05/2023 14:39	Т
WET CHEMISTRY (EPA 30	0.0)							
Chloride	3.3 I	mg/L	10	2.0	2	08/31/2023 16:54	08/31/2023 16:54	Т
Fluoride	0.40 U	mg/L	1.0	0.40	2	08/31/2023 16:54	08/31/2023 16:54	Т
Sulfate	60	mg/L	10	2.0	2	08/31/2023 16:54	08/31/2023 16:54	Т
WET CHEMISTRY (SM 254	0 C)							
Total Dissolved Solids	180	mg/L	10	10	1	08/26/2023 14:00	08/26/2023 14:00	Т



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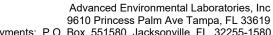
Phone: (813) 630-9616 Fax: (813) 630-4327

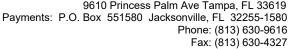
FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results









FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

	316486019 :R-19		te Collecte te Receive				Matrix: Water		
Parameter	Result	ts L	Jnits	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846	3010A/SW-846 6010)								
Barium	7	'2 u	ıg/L	12	3.0	1	08/31/2023 10:00	08/31/2023 22:39	J
Beryllium	2.0	U u	ıg/L	8.0	2.0	1	08/31/2023 10:00	08/31/2023 22:39	J
Boron	320) I u	ıg/L	400	100	1	08/31/2023 10:00	08/31/2023 22:39	J
Calcium	70	00 n	ng/L	8.0	2.0	10	08/31/2023 10:00	09/05/2023 16:18	J
Chromium	5.0	U u	ıg/L	20	5.0	1	08/31/2023 10:00	08/31/2023 22:39	J
Lithium	60	U u	ıg/L	240	60	1	08/31/2023 10:00	08/31/2023 22:39	J^
Magnesium	4	16 n	ng/L	0.40	0.10	1	08/31/2023 10:00	08/31/2023 22:39	J
Potassium	21	0 n	ng/L	20	5.0	10	08/31/2023 10:00	09/05/2023 16:18	J
Sodium	16	60 n	ng/L	3.2	0.80	1	08/31/2023 10:00	08/31/2023 22:39	J
METALS (SW-846	3010A/SW-846 6020)								
Antimony	1.0	U u	ıg/L	4.0	1.0	1	08/29/2023 07:45	08/29/2023 18:37	J
Arsenic	4.	. 2 u	ıg/L	2.0	0.50	2	08/29/2023 07:45	08/31/2023 19:26	J
Cadmium	0.25	U u	ıg/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:37	J
Cobalt	0.50	U u	ıg/L	2.0	0.50	2	08/29/2023 07:45	08/31/2023 19:26	J
Lead	0.50	U u	ıg/L	2.0	0.50	1	08/29/2023 07:45	08/29/2023 18:37	J
Molybdenum	0.50	U u	ıg/L	2.0	0.50	1	08/29/2023 07:45	08/29/2023 18:37	J
Selenium	2.5	U u	ıg/L	10	2.5	2	08/29/2023 07:45	08/31/2023 19:26	J
Thallium	0.25	U u	ıg/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:37	J
METALS (SW-846	6 7470A)								
Mercury	0.011	U u	ıg/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 14:41	Т
WET CHEMISTRY	((EPA 300.0)								
Chloride	120	0 n	ng/L	50	10	10	08/31/2023 17:10	08/31/2023 17:10	Т
Fluoride	2.0	U n	ng/L	5.0	2.0	10	08/31/2023 17:10	08/31/2023 17:10	Т
Sulfate	78	8 0 n	ng/L	50	10	10	08/31/2023 17:10	08/31/2023 17:10	Т
WET CHEMISTRY	((SM 2320B)								
Alkalinity, Bicarbor	nate 5.0	U n	ng/L	20	5.0	1	08/24/2023 22:54	08/24/2023 22:54	Т
Alkalinity, Total	5.0	U n	ng/L	20	5.0	1	08/24/2023 22:54	08/24/2023 22:54	Т

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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

Sample ID: CCR-19 **Date Received:** 08/22/2023 16:03

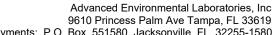
		2440 11000110411 007.22.2020 10100						
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	4200	mg/L	10	10	1	08/26/2023 14:00	08/26/2023 14:00	Т

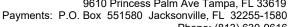














FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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	T2316486020 CCR-4		Date Collec Date Recei		08/21/2023 14:41 08/22/2023 16:03			Matrix: Water		
Parameter		Results	Units	PC	L M	DL I	DF	Prepared	Analyzed	Lab
METALS (SW-	846 3010A/SW-846	6010)								
Barium		220	ug/L	12	3.0	0	1	08/31/2023 10:00	08/31/2023 22:43	J
Beryllium		2.0 U	ug/L	8.0	2.0	0	1	08/31/2023 10:00	08/31/2023 22:43	J
Boron		600	ug/L	40	10	00	1	08/31/2023 10:00	08/31/2023 22:43	J
Calcium		1600	mg/L	40	10) !	50	08/31/2023 10:00	09/05/2023 16:23	J
Chromium		5.0 U	ug/L	20	5.0	0	1	08/31/2023 10:00	08/31/2023 22:43	J
Lithium		220 I	ug/L	24	60) .	1	08/31/2023 10:00	08/31/2023 22:43	J^
METALS (SW-	846 3010A/SW-846	6020)								
Antimony		1.0 U	ug/L	4.0	1.0	0	1	08/29/2023 07:45	08/29/2023 18:43	J
Arsenic		0.51 I	ug/L	1.0	0.2	25 ·	1	08/29/2023 07:45	08/29/2023 18:43	J
Cadmium		0.25 U	ug/L	1.0	0.2	25	1	08/29/2023 07:45	08/29/2023 18:43	J
Cobalt		1.1	ug/L	1.0	0.2	25	1	08/29/2023 07:45	08/29/2023 18:43	J
Lead		0.50 U	ug/L	2.0	0.8	50	1	08/29/2023 07:45	08/29/2023 18:43	J
Molybdenum		0.50 U	ug/L	2.0	0.8	50	1	08/29/2023 07:45	08/29/2023 18:43	J
Selenium		1.2 U	ug/L	5.0	1.3	2	1	08/29/2023 07:45	08/29/2023 18:43	J
Thallium		0.25 U	ug/L	1.0	0.2	25 ·	1	08/29/2023 07:45	08/29/2023 18:43	J
METALS (SW-	·846 7470A)									
Mercury		0.034 I	ug/L	0.1	0.0	011	1	09/01/2023 10:05	09/05/2023 14:44	Т
WET CHEMIST	TRY (EPA 300.0)									
Chloride		4100	mg/L	50) 10	00	100	08/31/2023 17:26	08/31/2023 17:26	Т
Fluoride		20 U	mg/L	50	20) .	100	08/31/2023 17:26	08/31/2023 17:26	Т
Sulfate		1400	mg/L	50) 10	00	100	08/31/2023 17:26	08/31/2023 17:26	Т
WET CHEMIST	TRY (SM 2540 C)									
Total Dissolved	d Solids	8600	mg/L	10	10)	1	08/26/2023 14:00	08/26/2023 14:00	Т



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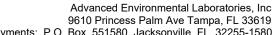
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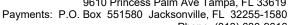
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Workorder: 2023 CCR Event (T2316486)

Analytical Results









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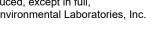
Workorder: 2023 CCR Event (T2316486)

Analytical Results

Lab ID: T231 Sample ID: CCR	16486021 2-7	Date Colle Date Rece		023 13:41 023 16:03		Matrix: Water		
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846	3010A/SW-846 6010)							
Barium	7.7	ug/L	12	3.0	1	08/31/2023 10:00	08/31/2023 22:57	J
Beryllium	2.0 U	ug/L	8.0	2.0	1	08/31/2023 10:00	08/31/2023 22:57	J
Boron	130 I	ug/L	400	100	1	08/31/2023 10:00	08/31/2023 22:57	J
Calcium	19	mg/L	0.80	0.20	1	08/31/2023 10:00	08/31/2023 22:57	J
Chromium	5.0 U	ug/L	20	5.0	1	08/31/2023 10:00	08/31/2023 22:57	J
Lithium	60 U	ug/L	240	60	1	08/31/2023 10:00	08/31/2023 22:57	J^
Magnesium	1.8	mg/L	0.40	0.10	1	08/31/2023 10:00	08/31/2023 22:57	J
Potassium	10	mg/L	2.0	0.50	1	08/31/2023 10:00	08/31/2023 22:57	J
Sodium	4.7	mg/L	3.2	0.80	1	08/31/2023 10:00	08/31/2023 22:57	J
METALS (SW-846	3010A/SW-846 6020)							
Antimony	1.0 U	ug/L	4.0	1.0	1	09/02/2023 12:14	09/05/2023 17:35	J
Arsenic	0.25 U	ug/L	1.0	0.25	1	09/02/2023 12:14	09/05/2023 17:35	J
Cadmium	0.25 U	ug/L	1.0	0.25	1	09/02/2023 12:14	09/05/2023 17:35	J
Cobalt	0.25 U	ug/L	1.0	0.25	1	09/02/2023 12:14	09/05/2023 17:35	J
Lead	0.50 U	ug/L	2.0	0.50	1	09/02/2023 12:14	09/05/2023 17:35	J
Molybdenum	0.53 I	ug/L	2.0	0.50	1	09/02/2023 12:14	09/05/2023 17:35	J
Selenium	1.2 U	ug/L	5.0	1.2	1	09/02/2023 12:14	09/05/2023 17:35	J
Thallium	0.25 U	ug/L	1.0	0.25	1	09/02/2023 12:14	09/05/2023 17:35	J
METALS (SW-846	7470A)							
Mercury	0.011 U	ug/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 14:53	Т
WET CHEMISTRY	(EPA 300.0)							
Chloride	4.9 I	mg/L	10	2.0	2	08/31/2023 18:47	08/31/2023 18:47	Т
Fluoride	0.40 U	mg/L	1.0	0.40	2	08/31/2023 18:47	08/31/2023 18:47	Т
Sulfate	45	mg/L	10	2.0	2	08/31/2023 18:47	08/31/2023 18:47	Т
WET CHEMISTRY	(SM 2320B)							
Alkalinity, Bicarbona	ate 11 I	mg/L	20	5.0	1	08/24/2023 23:07	08/24/2023 23:07	Т
Alkalinity, Total	11 I	mg/L	20	5.0	1	08/24/2023 23:07	08/24/2023 23:07	Т

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Workorder: 2023 CCR Event (T2316486)

Analytical Results

 Lab ID:
 T2316486021
 Date Collected:
 08/22/2023 13:41
 Matrix:
 Water

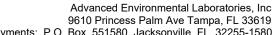
Sample ID: CCR-7 **Date Received:** 08/22/2023 16:03

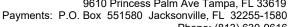
				-0-0 .0.00				
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	160	mg/L	10	10	1	08/26/2023 14:00	08/26/2023 14:00	Т





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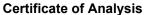
FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results	Ana	vtical	Results
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Lab ID: T23 Sample ID: Lake	16486022 e D		Date Collecte Date Receive		08/21/2023 10 08/22/2023 16			Matrix: Water		
Parameter	Resu	lts	Units	PQ	L	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-846	3010A/SW-846 6010)									
Barium	5.	.9 I	ug/L	12		3.0	1	08/31/2023 10:00	08/31/2023 22:17	J
Beryllium	2.0) U	ug/L	8.0		2.0	1	08/31/2023 10:00	08/31/2023 22:17	J
Boron	100) U	ug/L	400)	100	1	08/31/2023 10:00	08/31/2023 22:17	J
Calcium		44	mg/L	0.8	0	0.20	1	08/31/2023 10:00	08/31/2023 22:17	J
Chromium	5.0	U	ug/L	20		5.0	1	08/31/2023 10:00	08/31/2023 22:17	J
Lithium	60) U	ug/L	240)	60	1	08/31/2023 10:00	08/31/2023 22:17	J^
METALS (SW-846	3010A/SW-846 6020)									
Antimony	1.0) U	ug/L	4.0		1.0	1	08/29/2023 07:45	08/29/2023 18:20	J
Arsenic	0.25	5 U	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:20	J
Cadmium	0.25	5 U	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:20	J
Cobalt	0.25	5 U	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:20	J
Lead	0.50	U	ug/L	2.0		0.50	1	08/29/2023 07:45	08/29/2023 18:20	J
Molybdenum	0.50) U	ug/L	2.0		0.50	1	08/29/2023 07:45	08/29/2023 18:20	J
Selenium	1.2	2 U	ug/L	5.0		1.2	1	08/29/2023 07:45	08/29/2023 18:20	J
Thallium	0.25	5 U	ug/L	1.0		0.25	1	08/29/2023 07:45	08/29/2023 18:20	J
METALS (SW-846	7470A)									
Mercury	0.011	l U	ug/L	0.1	0	0.011	1	09/01/2023 10:05	09/05/2023 14:33	Т
WET CHEMISTRY	(EPA 300.0)									
Chloride	1	00	mg/L	10		2.0	2	08/31/2023 15:51	08/31/2023 15:51	Т
Fluoride	0.40	U	mg/L	1.0		0.40	2	08/31/2023 15:51	08/31/2023 15:51	Т
Sulfate		18	mg/L	10		2.0	2	08/31/2023 15:51	08/31/2023 15:51	Т
WET CHEMISTRY	(SM 2540 C)									
Total Dissolved Sol	ids 4	70	mg/L	10		10	1	08/26/2023 14:00	08/26/2023 14:00	Т











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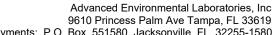
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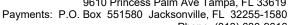
FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results









FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Allalytical Res	Analytic	cal Re	esults
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	Г2316486023 CCR-18		Date Colle Date Rece)23 14:47)23 16:03		Matrix: Water		
Parameter		Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
METALS (SW-8	46 3010A/SW-846 6	6010)							
Barium		3.0 U	ug/L	12	3.0	1	08/31/2023 10:00	08/31/2023 22:48	J
Beryllium		2.0 U	ug/L	8.0	2.0	1	08/31/2023 10:00	08/31/2023 22:48	J
Boron		100 U	ug/L	400	100	1	08/31/2023 10:00	08/31/2023 22:48	J
Calcium		70	mg/L	0.80	0.20	1	08/31/2023 10:00	08/31/2023 22:48	J
Chromium		5.0 U	ug/L	20	5.0	1	08/31/2023 10:00	08/31/2023 22:48	J
Lithium		60 U	ug/L	240	60	1	08/31/2023 10:00	08/31/2023 22:48	J^
Magnesium		4.1	mg/L	0.40	0.10	1	08/31/2023 10:00	08/31/2023 22:48	J
Potassium		4.0	mg/L	2.0	0.50	1	08/31/2023 10:00	08/31/2023 22:48	J
Sodium		1.8 I	mg/L	3.2	0.80	1	08/31/2023 10:00	08/31/2023 22:48	J
METALS (SW-8	346 3010A/SW-846 (6020)							
Antimony		1.0 U	ug/L	4.0	1.0	1	08/29/2023 07:45	08/29/2023 18:49	J
Arsenic		0.25 U	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:49	J
Cadmium		0.25 U	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:49	J
Cobalt		0.25 U	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:49	J
Lead		0.50 U	ug/L	2.0	0.50	1	08/29/2023 07:45	08/29/2023 18:49	J
Molybdenum		3.9	ug/L	2.0	0.50	1	08/29/2023 07:45	08/29/2023 18:49	J
Selenium		1.2 U	ug/L	5.0	1.2	1	08/29/2023 07:45	08/29/2023 18:49	J
Thallium		0.25 U	ug/L	1.0	0.25	1	08/29/2023 07:45	08/29/2023 18:49	J
METALS (SW-8	346 7470A)								
Mercury		0.011 U	ug/L	0.10	0.011	1	09/01/2023 10:05	09/05/2023 14:47	Т
WET CHEMIST	RY (EPA 300.0)								
Chloride		2.2	mg/L	10	2.0	2	08/31/2023 17:42	08/31/2023 17:42	Т
Fluoride		0.40 U	mg/L	1.0	0.40	2	08/31/2023 17:42	08/31/2023 17:42	Т
Sulfate		35	mg/L	10	2.0	2	08/31/2023 17:42	08/31/2023 17:42	Т
WET CHEMIST	RY (SM 2320B)								
Alkalinity, Bicarb	oonate	170	mg/L	20	5.0	1	08/24/2023 22:59	08/24/2023 22:59	Т
Alkalinity, Total		170	mg/L	20	5.0	1	08/24/2023 22:59	08/24/2023 22:59	Т

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Workorder: 2023 CCR Event (T2316486)

Analytical Results

 Lab ID:
 T2316486023
 Date Collected:
 08/21/2023 14:47
 Matrix:
 Water

Sample ID: CCR-18 **Date Received:** 08/22/2023 16:03

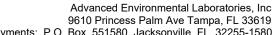
Campic IDI Cort 10		Date 1100011	00 , 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	0.00				
Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	280	mg/L	10	10	1	08/26/2023 14:00	08/26/2023 14:00	Т

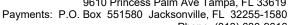














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Workorder: 2023 CCR Event (T2316486)

Analytical Results

Lab ID: T23 Sample ID: CCF	16486024 R-5		ollected: eceived:	08/22/2023 12:32 08/22/2023 16:03		Matrix:	Water		
Parameter	Results	S Units	PQ	L MDL	. DF	Prepared		Analyzed	Lab
METALS (SW-846	3010A/SW-846 6010)								
Barium	85	5 ug/L	12	3.0	1	08/31/2023	10:00	08/31/2023 22:52	J
Beryllium	2.0 L	J ug/L	8.0	2.0	1	08/31/2023	10:00	08/31/2023 22:52	J
Boron	430	ug/L	400	100	1	08/31/2023	10:00	08/31/2023 22:52	J
Calcium	2200	mg/L	40	10	50	08/31/2023	10:00	09/05/2023 16:27	J
Chromium	5.0 L	J ug/L	20	5.0	1	08/31/2023	10:00	08/31/2023 22:52	J
Lithium	4100	ug/L	240	60	1	08/31/2023	10:00	08/31/2023 22:52	J^
Magnesium	34	mg/L	0.4	0.10	1	08/31/2023	10:00	08/31/2023 22:52	J
Potassium	730	mg/L	100	25	50	08/31/2023	10:00	09/05/2023 16:27	J
Sodium	1100	mg/L	160	40	50	08/31/2023	10:00	09/05/2023 16:27	J
METALS (SW-846	3010A/SW-846 6020)								
Antimony	1.0 L	J ug/L	4.0	1.0	1	09/02/2023	12:14	09/05/2023 17:18	J
Arsenic	0.42	l ug/L	1.0	0.25	1	09/02/2023	12:14	09/05/2023 17:18	J
Cadmium	0.25 ป	J ug/L	1.0	0.25	1	09/02/2023	12:14	09/05/2023 17:18	J
Cobalt	0.25 ป	J ug/L	1.0	0.25	1	09/02/2023	12:14	09/05/2023 17:18	J
Lead	0.50 L	J ug/L	2.0	0.50	1	09/02/2023	12:14	09/05/2023 17:18	J
Molybdenum	0.50 L	J ug/L	2.0	0.50	1	09/02/2023	12:14	09/05/2023 17:18	J
Selenium	1.2 L	J ug/L	5.0	1.2	1	09/02/2023	12:14	09/05/2023 17:18	J
Thallium	0.25 L	J ug/L	1.0	0.25	1	09/02/2023	12:14	09/05/2023 17:18	J
METALS (SW-846	7470A)								
Mercury	0.11	l ug/L	0.1	0.01	1 1	09/01/2023	10:05	09/05/2023 14:50	Т
WET CHEMISTRY	(EPA 300.0)								
Chloride	5700	mg/L	500	100	100	08/31/2023	17:59	08/31/2023 17:59	Т
Fluoride	20 L	J mg/L	50	20	100	08/31/2023	17:59	08/31/2023 17:59	Т
Sulfate	630	mg/L	500	100	100	08/31/2023	17:59	08/31/2023 17:59	Т
WET CHEMISTRY	(SM 2320B)								
Alkalinity, Bicarbon	ate 49	mg/L	20	5.0	1	08/24/2023	23:03	08/24/2023 23:03	Т
Alkalinity, Total	49	mg/L	20	5.0	1	08/24/2023	23:03	08/24/2023 23:03	Т
Alkalinity, Total	₹,	, ilig/L	20	0.0	'	00/24/2020	20.00	00/24/2020 20:00	

Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 54 of 86

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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

Analytical Results

 Lab ID:
 T2316486024
 Date Collected:
 08/22/2023 12:32
 Matrix:
 Water

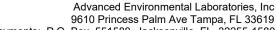
Sample ID: CCR-5 **Date Received:** 08/22/2023 16:03

Parameter	Results	Units	PQL	MDL	DF	Prepared	Analyzed	Lab
WET CHEMISTRY (SM 2540 C)								
Total Dissolved Solids	11000	mg/L	10	10	1	08/26/2023 14:00	08/26/2023 14:00	Т

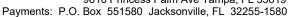




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80 - 120



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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: CVAt/2047 Analysis Method: SW-846 7470A

Preparation Method: SW-846 7470A

Associated Lab IDs: T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008,

T2316486009, T2316486010, T2316486011, T2316486012, T2316486013, T2316486014

Method Blank(4937292)

Mercury

Parameter		Results	Units	PQL	MDL	Lab
Mercury		0.011 U	ug/L	0.10	0.011	Т
Lab Control Sample (4937293)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab

.98

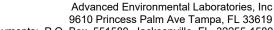
98

Matrix Spike (4937294); Matrix Spike Duplicate (4937295); Original (T2316187008); Parent Lab Sample (T2316187008)

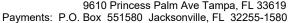
ug/L

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	ua/l	1	1	102	80 - 120	1	104	2	20	Т





80 - 120



110

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Т



FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: CVAt/2048 Analysis Method: SW-846 7470A

Preparation Method: SW-846 7470A

Associated Lab IDs: T2316486015, T2316486016, T2316486017, T2316486018, T2316486019, T2316486020, T2316486021, T2316486022,

T2316486023, T2316486024

Method Blank(4937315)

Mercury

Parameter		Results	Units	PQL	MDL	Lab
Mercury		0.011 U	ug/L	0.10	0.011	Т
Lab Control Sample (4937316)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab

1.1

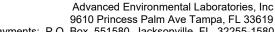
Matrix Spike (4937317); Matrix Spike Duplicate (4937318); Original (T2316486015); Parent Lab Sample (T2316486015)

1

ug/L

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Mercury	ug/L	1	.81	81	80 - 120	.81	81	1	20	





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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: ICMj/3410 Analysis Method: SW-846 6020

Preparation Method: SW-846 3010A

Associated Lab IDs: T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008,

T2316486019, T2316486010, T2316486011, T2316486012, T2316486013, T2316486014, T2316486015

Method Blank(4931728)

Parameter	Results	Units	PQL	MDL	Lab
Cobalt	0.25 U	ug/L	1.0	0.25	J
Arsenic	0.25 U	ug/L	1.0	0.25	J
Selenium	1.2 U	ug/L	5.0	1.2	J
Molybdenum	0.50 U	ug/L	2.0	0.50	J
Cadmium	0.25 U	ug/L	1.0	0.25	J
Antimony	1.0 U	ug/L	4.0	1.0	J
Thallium	0.25 U	ug/L	1.0	0.25	J
Lead	0.50 U	ug/L	2.0	0.50	J

Lab Control Sample (4931729)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Cobalt	ug/L	20	22	108	80 - 120	J
Arsenic	ug/L	20	22	111	80 - 120	J
Selenium	ug/L	20	22	111	80 - 120	J
Molybdenum	ug/L	20	22	110	80 - 120	J
Cadmium	ug/L	20	22	109	80 - 120	J
Antimony	ug/L	20	24	119	80 - 120	J
Thallium	ug/L	20	21	107	80 - 120	J
Lead	ug/L	20	22	108	80 - 120	J

Matrix Spike (4931730); Matrix Spike Duplicate (4931731); Original (T2316486001); Parent Lab Sample (T2316486001)

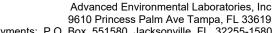
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cobalt	ug/L	20	21	104	75 - 125	21	103	1	20	J
Arsenic	ug/L	20	21	104	75 - 125	21	104	1	20	J
Selenium	ug/L	20	20	99	75 - 125	22	108	8	20	J
Molybdenum	ug/L	20	22	106	75 - 125	22	107	0	20	J
Cadmium	ug/L	20	21	107	75 - 125	21	105	2	20	J
Antimony	ug/L	20	24	119	75 - 125	24	118	1	20	J
Thallium	ug/L	20	22	109	75 - 125	21	107	2	20	J
Lead	ug/L	20	22	110	75 - 125	21	107	3	20	J

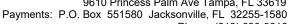


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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: ICMj/3417 Analysis Method: SW-846 6020

Preparation Method: SW-846 3010A

Associated Lab IDs: T2316486016, T2316486017, T2316486018, T2316486019, T2316486020, T2316486022, T2316486023

Method Blank	(4933295)
---------------------	-----------

Parameter	Results	Units	PQL	MDL	Lab
Cobalt	0.25 U	ug/L	1.0	0.25	J
Arsenic	0.25 U	ug/L	1.0	0.25	J
Selenium	1.2 U	ug/L	5.0	1.2	J
Molybdenum	0.50 U	ug/L	2.0	0.50	J
Cadmium	0.25 U	ug/L	1.0	0.25	J
Antimony	1.0 U	ug/L	4.0	1.0	J
Thallium	0.25 U	ug/L	1.0	0.25	J
Lead	0.50 U	ug/L	2.0	0.50	J

Lab Control Sample (4933296)

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Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Cobalt	ug/L	20	19	93	80 - 120	J
Arsenic	ug/L	20	21	104	80 - 120	J
Selenium	ug/L	20	19	96	80 - 120	J
Molybdenum	ug/L	20	21	104	80 - 120	J
Cadmium	ug/L	20	20	98	80 - 120	J
Antimony	ug/L	20	23	113	80 - 120	J
Thallium	ug/L	20	20	101	80 - 120	J
Lead	ug/L	20	21	103	80 - 120	J

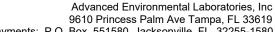
Matrix Spike (4933297); Matrix Spike Duplicate (4933298); Original (J2312388001); Parent Lab Sample (J2312388001)

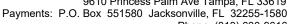
		Spiked	Spike	Spike	Control	Dup	Dup		RPD	
Parameter	Units	Amount	Result	Recovery	Limits	Result	Recovery	RPD	Limit	Lab
Arsenic	ug/L	20	20	100	75 - 125	21	103	3	20	J
Selenium	ug/L	20	19	95	75 - 125	20	98	3	20	J
Cadmium	ug/L	20	19	95	75 - 125	20	96	1	20	J
Lead	ug/L	20	27	108	75 - 125	27	106	2	20	J



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2.0

ug/L

0.50



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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: ICMj/3427 **Analysis Method:** SW-846 6020

Preparation Method: SW-846 3010A

Associated Lab IDs: T2316486021, T2316486024

Method Blank(4937810)					
Parameter	Results	Units	PQL	MDL	Lab
Cobalt	0.25 U	ug/L	1.0	0.25	J
Arsenic	0.25 U	ug/L	1.0	0.25	J
Selenium	1.2 U	ug/L	5.0	1.2	J
Molybdenum	0.50 U	ug/L	2.0	0.50	J
Cadmium	0.25 U	ug/L	1.0	0.25	J
Antimony	1.0 U	ug/L	4.0	1.0	J
Thallium	0.25 U	ug/L	1.0	0.25	J

0.50 U

Lab Control Sample (4937811)

Lead

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Cobalt	ug/L	20	20	99	80 - 120	J
Arsenic	ug/L	20	21	104	80 - 120	J
Selenium	ug/L	20	20	99	80 - 120	J
Molybdenum	ug/L	20	20	98	80 - 120	J
Cadmium	ug/L	20	20	101	80 - 120	J
Antimony	ug/L	20	20	101	80 - 120	J
Thallium	ug/L	20	20	100	80 - 120	J
Lead	ug/L	20	20	99	80 - 120	J

Matrix Spike (4937812); Matrix Spike Duplicate (4937813); Original (T2316486024); Parent Lab Sample (T2316486024)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Cobalt	ug/L	20	.1	0	75 - 125	15	74	197	20	J
Arsenic	ug/L	20	.43	0	75 - 125	17	83	190	20	J
Selenium	ug/L	20	.39	2	75 - 125	13	67	189	20	J
Molybdenum	ug/L	20	18	90	75 - 125	18	92	2	20	J
Cadmium	ug/L	20	.0055	0	75 - 125	15	77	200	20	J
Antimony	ug/L	20	19	95	75 - 125	19	97	2	20	J
Thallium	ug/L	20	.0013	0	75 - 125	22	110	200	20	J
Lead	ug/L	20	.018	0	75 - 125	22	108	200	20	J











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Workorder: 2023 CCR Event (T2316486)

QC Result Comments

Matrix Spike - 4937812 - Arsenic

J4|Estimated Result

Matrix Spike - 4937812 - Cadmium

J4|Estimated Result

Matrix Spike - 4937812 - Cobalt

J4|Estimated Result

Matrix Spike - 4937812 - Lead

J4|Estimated Result

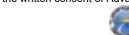
Matrix Spike - 4937812 - Selenium

J4|Estimated Result

Matrix Spike - 4937812 - Thallium

J4|Estimated Result

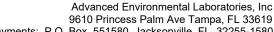


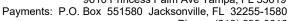


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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: ICPj/2953 **Analysis Method:** SW-846 6010

Preparation Method: SW-846 3010A

Associated Lab IDs: T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008,

T2316486009, T2316486010, T2316486011, T2316486012, T2316486013, T2316486014, T2316486015

Method Blank(4926833)

-					
Parameter	Results	Units	PQL	MDL	Lab
Boron	100 U	ug/L	400	100	J
Barium	3.0 U	ug/L	12	3.0	J
Beryllium	2.0 U	ug/L	8.0	2.0	J
Calcium	0.20 U	mg/L	0.80	0.20	J
Chromium	5.0 U	ug/L	20	5.0	J
Potassium	0.50 U	mg/L	2.0	0.50	J
Magnesium	0.10 U	mg/L	0.40	0.10	J
Sodium	0.80 U	mg/L	3.2	0.80	J
Lithium	60 U	ug/L	240	60	J^

Method Blank(4926833)

Parameter	Results	Units	PQL	MDL	Lab	
Boron	100 U	ug/L	400	100	J	
Barium	3.0 U	ug/L	12	3.0	J	
Beryllium	2.0 U	ug/L	8.0	2.0	J	
Calcium	0.20 U	mg/L	0.80	0.20	J	
Chromium	5.0 U	ug/L	20	5.0	J	
Potassium	0.50 U	mg/L	2.0	0.50	J	
Magnesium	0.10 U	mg/L	0.40	0.10	J	
Sodium	0.80 U	mg/L	3.2	0.80	J	
Lithium	60 U	ua/l	240	60	٦٨.	

Lab Control Sample (4926834)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Boron	ug/L	2000	1900	94	80 - 120	J
Barium	ug/L	60	55	91	80 - 120	J
Beryllium	ug/L	40	39	98	80 - 120	J
Calcium	mg/L	4	3.8	95	80 - 120	J
Chromium	ug/L	100	98	98	80 - 120	J
Potassium	mg/L	10	9.1	91	80 - 120	J
Magnesium	mg/L	2	1.9	95	80 - 120	J
Sodium	mg/L	16	16	98	80 - 120	J

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Parameter

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Lab

FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Batch: ICPj/2953 **Analysis Method:** SW-846 6010

Units

Preparation Method: Associated Lab IDs:

SW-846 3010A

T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008,

Spiked Amount Spike Result Spike Recovery

T2316486009, T2316486010, T2316486011, T2316486012, T2316486013, T2316486014, T2316486015

		•	•	•		
Lithium	ug/L	1200	1100	95	80 - 120	J^
Lab Control Sample (4926834)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Boron	ug/L	2000	1900	94	80 - 120	J
Barium	ug/L	60	55	91	80 - 120	J
Beryllium	ug/L	40	39	98	80 - 120	J
Calcium	mg/L	4	3.8	95	80 - 120	J
Chromium	ug/L	100	98	98	80 - 120	J
Potassium	mg/L	10	9.1	91	80 - 120	J
Magnesium	mg/L	2	1.9	95	80 - 120	J
Sodium	mg/L	16	16	98	80 - 120	J
Lithium	ug/L	1200	1100	95	80 - 120	J^

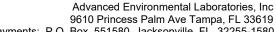
Matrix Spike (4926835); Matrix Spike Duplicate (4926836); Original (J2312272001); Parent Lab Sample (J2312272001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Boron	ug/L	2000	2000	98	75 - 125	1900	97	1	20	J
Barium	ug/L	60	100	84	75 - 125	100	85	1	20	J
Beryllium	ug/L	40	40	100	75 - 125	41	102	1	20	J
Calcium	mg/L	4	200	-96	75 - 125	210	97	4	20	J
Chromium	ug/L	100	98	98	75 - 125	98	99	1	20	J
Potassium	mg/L	10	16	89	75 - 125	16	90	1	20	J
Magnesium	mg/L	2	98	-59	75 - 125	100	130	4	20	J
Sodium	mg/L	16	230	54	75 - 125	240	103	3	20	J



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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: ICPj/2964 Analysis Method: SW-846 6010

Preparation Method: SW-846 3010A

Associated Lab IDs: T2316486016, T2316486017, T2316486018, T2316486019, T2316486020, T2316486021, T2316486022, T2316486023,

T2316486024

Method Blank(4934327)

-					
Parameter	Results	Units	PQL	MDL	Lab
Boron	100 U	ug/L	400	100	J
Barium	3.0 U	ug/L	12	3.0	J
Beryllium	2.0 U	ug/L	8.0	2.0	J
Calcium	0.20 U	mg/L	0.80	0.20	J
Chromium	5.0 U	ug/L	20	5.0	J
Potassium	0.50 U	mg/L	2.0	0.50	J
Magnesium	0.10 U	mg/L	0.40	0.10	J
Sodium	0.80 U	mg/L	3.2	0.80	J
Lithium	60 U	ug/L	240	60	J^

Method Blank(4934327)

Parameter	Results	Units	PQL	MDL	Lab	
Boron	100 U	ug/L	400	100	J	
Barium	3.0 U	ug/L	12	3.0	J	
Beryllium	2.0 U	ug/L	8.0	2.0	J	
Calcium	0.20 U	mg/L	0.80	0.20	J	
Chromium	5.0 U	ug/L	20	5.0	J	
Potassium	0.50 U	mg/L	2.0	0.50	J	
Magnesium	0.10 U	mg/L	0.40	0.10	J	
Sodium	0.80 U	mg/L	3.2	0.80	J	
Lithium	60 U	ua/l	240	60	٦٨.	

Lab Control Sample (4934328)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Boron	ug/L	2000	1800	91	80 - 120	J
Barium	ug/L	60	55	91	80 - 120	J
Beryllium	ug/L	40	36	89	80 - 120	J
Calcium	mg/L	4	3.6	90	80 - 120	J
Chromium	ug/L	100	90	90	80 - 120	J
Potassium	mg/L	10	9	90	80 - 120	J
Magnesium	mg/L	2	1.8	89	80 - 120	J
Sodium	mg/L	16	14	91	80 - 120	J

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Parameter

Payments: P.O. Box 551580 Jacksonville, FL 32255-1580

Control Limits

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Lab

FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Batch: ICPj/2964 Analysis Method: SW-846 6010

Units

Preparation Method: SW-846 3010A

Associated Lab IDs: T2316486016, T2316486017, T2316486018, T2316486019, T2316486020, T2316486021, T2316486022, T2316486023,

Spiked Amount Spike Result Spike Recovery

T2316486024

· urumoto:	00	opinoa / miloant	opino modun	opino moderony	Control Elimito	
Lithium	ug/L	1200	1100	92	80 - 120	J^
Lab Control Sample (4934328)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Boron	ug/L	2000	1800	91	80 - 120	J
Barium	ug/L	60	55	91	80 - 120	J
Beryllium	ug/L	40	36	89	80 - 120	J
Calcium	mg/L	4	3.6	90	80 - 120	J
Chromium	ug/L	100	90	90	80 - 120	J
Potassium	mg/L	10	9	90	80 - 120	J
Magnesium	mg/L	2	1.8	89	80 - 120	J
Sodium	mg/L	16	14	91	80 - 120	J
Lithium	ug/L	1200	1100	92	80 - 120	J^

Matrix Spike (4934329); Matrix Spike Duplicate (4934330); Original (S2302291001); Parent Lab Sample (S2302291001)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Boron	ug/L	2000	1800	92	75 - 125	1800	92	1	20	J
Barium	ug/L	60	61	89	75 - 125	62	90	1	20	J
Beryllium	ug/L	40	35	88	75 - 125	35	89	0	20	J
Calcium	mg/L	4	43	75	75 - 125	43	87	1	20	J
Chromium	ug/L	100	99	88	75 - 125	100	89	1	20	J
Potassium	mg/L	10	9.8	89	75 - 125	9.9	89	1	20	J
Magnesium	mg/L	2	17	83	75 - 125	17	92	1	20	J
Sodium	mg/L	16	17	93	75 - 125	17	94	1	20	J







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Workorder: 2023 CCR Event (T2316486)

QC Results

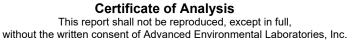
QC Batch: WCAt/23158 Analysis Method: SM 2320B

Preparation Method: SM 2320B **Associated Lab IDs:** T2316486002

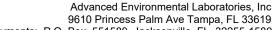
	<u> </u>	<u> </u>	<u> </u>			
Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Alkalinity, Total	1644.137	1647.578	mg/L	0	10	Т

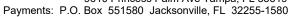














FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23158 Analysis Method: SM 2320B

Preparation Method: SM 2320B

Associated Lab IDs: T2316486002, T2316486003, T2316486004, T2316486006, T2316486007, T2316486008, T2316486009, T2316486011,

T2316486012, T2316486013

Method Blank(4928210)

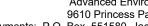
Parameter		Results	Units	PQL	MDL	Lab
Alkalinity, Total		5.0 U	mg/L	20	5.0	Т
Lab Control Sample (4928211)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Alkalinity, Total	mg/L	100	100	100	85 - 115	Т

Sample Duplicate (4928213); Original (T2316486002); Parent Lab Sample (T2316486002, T2316486003, T2316486004, T2316486006, T2316486007, T2316486008, T2316486009, T2316486011, T2316486012, T2316486013)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Alkalinity, Total	225.0808	226.9154	mg/L	1	10	Т



Tuesday, October 3, 2023 9:53:12 AM



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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23160 Analysis Method: SM 2320B

Preparation Method: SM 2320B

Associated Lab IDs: T2316486014, T2316486015, T2316486017, T2316486019, T2316486021, T2316486023, T2316486024

Metnod	Blank(4928224)

Parameter	Results	Units	PQL	MDL	Lab
Alkalinity, Total	5.0 U	mg/L	20	5.0	Т

Lab Control Sample (4928225)

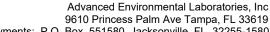
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Alkalinity. Total	ma/L	100	98	98	85 - 115	T

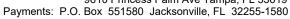
Sample Duplicate (4928226); Original (T2316486014); Parent Lab Sample (T2316486014, T2316486015, T2316486017, T2316486019, T2316486021, T2316486023, T2316486024)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Alkalinity, Total	284.4504	285.3025	mg/L	0	10	Т











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FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23204 Analysis Method: SM 2540 C

Preparation Method: SM 2540 C

Associated Lab IDs: T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008,

T2316486009

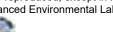
Method Blank(4931061)

Parameter		Results	Units	PQL	MDL	Lab
Total Dissolved Solids		10 U	mg/L	10	10	Т
Lab Control Sample (4931062)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	660	100	85 - 115	Т

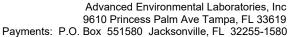
Sample Duplicate (4931063); Original (T2316286009); Parent Lab Sample (T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008, T2316486009)

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	808	760	ma/l	6	10	т

Certificate of Analysis









FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

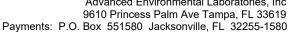
QC Batch: WCAt/23209 Analysis Method: SM 2540 C

Preparation Method: SM 2540 C

Associated Lab IDs: T2316486010, T2316486011, T2316486012, T2316486013, T2316486014, T2316486015

Parameter		Results	Units	PQL	MDL	Lab
Total Dissolved Solids		10 U	mg/L	10	10	Т
Lab Control Sample (4931117)						
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	690	105	85 - 115	Т

Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	2526	2522	mg/L	0	10	Т



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Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23246 Analysis Method: SM 2540 C

Preparation Method: SM 2540 C

Associated Lab IDs: T2316486016, T2316486017, T2316486018, T2316486019, T2316486020, T2316486021, T2316486022, T2316486023,

T2316486024

Method Blank(4932120)

Parameter	Results	Units	PQL	MDL	Lab
Total Dissolved Solids	10 U	mg/L	10	10	Т

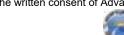
Lab Control Sample (4932121)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Total Dissolved Solids	mg/L	660	710	108	85 - 115	T

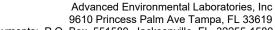
Sample Duplicate (4932122); Original (T2316620001); Parent Lab Sample (T2316486016, T2316486017, T2316486018, T2316486019, T2316486020, T2316486021, T2316486022, T2316486023, T2316486024)

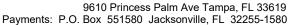
Parameter	Original	Duplicate	Units	RPD	RPD Limit	Lab
Total Dissolved Solids	258	254	mg/L	2	10	Т













FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23545 Analysis Method: EPA 300.0

Preparation Method: EPA 300.0

Associated Lab IDs: T2316486016, T2316486017, T2316486018, T2316486019, T2316486020, T2316486021, T2316486022, T2316486023,

T2316486024

Method Blank(4948773)

Parameter	Results	Units	PQL	MDL	Lab
Fluoride	0.20 U	mg/L	0.50	0.20	Т
Chloride	1.0 U	mg/L	5.0	1.0	Т
Sulfate	1.0 U	mg/L	5.0	1.0	Т

Lab Control Sample (4948774)

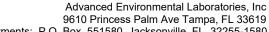
Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Fluoride	mg/L	5	4.9	99	90 - 110	Т
Chloride	mg/L	50	50	99	90 - 110	Т
Sulfate	mg/L	50	51	101	90 - 110	Т

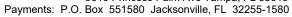
Matrix Spike (4948775); Matrix Spike Duplicate (4948776); Original (T2316486017); Parent Lab Sample (T2316486017)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Fluoride	mg/L	2	1.8	92	90 - 110	1.8	92	1	10	Т
Chloride	mg/L	20	25	104	90 - 110	25	103	0	10	Т
Sulfate	mg/L	20	53	104	90 - 110	53	103	0	10	Т











FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23545 Analysis Method: EPA 300.0

Preparation Method: EPA 300.0

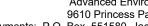
Associated Lab IDs: T2316486018, T2316486019, T2316486020, T2316486021, T2316486023, T2316486024

Matrix Spike (4948777); Matrix Spike Duplicate (4948778); Original (T2316486021); Parent Lab Sample (T2316486021)

		Spiked	Spike	Spike	Control	Dup	Dup		RPD	
Parameter	Units	Amount	Result	Recovery	Limits	Result	Recovery	RPD	Limit	Lab
Fluoride	mg/L	2	2	100	90 - 110	2	100	1	10	Т
Chloride	mg/L	20	26	105	90 - 110	26	106	1	10	Т
Sulfate	mg/L	20	66	105	90 - 110	66	106	0	10	Т











FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23554 Analysis Method: EPA 300.0

Preparation Method: EPA 300.0

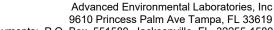
Associated Lab IDs: T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008,

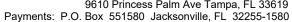
T2316486009, T2316486010, T2316486011, T2316486012

Matrix Spike (4949200); Matrix Spike Duplicate (4949201); Original (T2316486001); Parent Lab Sample (T2316486001)

Damamatan	Huita	Spiked	Spike	Spike	Control	Dup	Dup	DDD	RPD	l ab
Parameter	Units	Amount	Result	Recovery	Limits	Result	Recovery	RPD	Limit	Lab
Fluoride	mg/L	2	2.1	104	90 - 110	2.1	106	2	10	Т
Chloride	mg/L	20	25	106	90 - 110	25	106	0	10	Т
Sulfate	mg/L	20	36	104	90 - 110	36	104	0	10	Т









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Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23554 Analysis Method: EPA 300.0

Preparation Method: EPA 300.0

Associated Lab IDs: T2316486001, T2316486002, T2316486003, T2316486004, T2316486005, T2316486006, T2316486007, T2316486008,

T2316486009, T2316486010, T2316486011, T2316486012, T2316486013, T2316486014

Method Blank(4949198)

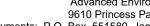
Parameter	Results	Units	PQL	MDL	Lab
Fluoride	0.20 U	mg/L	0.50	0.20	Т
Chloride	1.0 U	mg/L	5.0	1.0	Т
Sulfate	1.0 U	mg/L	5.0	1.0	Т

Lab Control Sample (4949199)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Fluoride	mg/L	5	5.4	108	90 - 110	Т
Chloride	mg/L	50	50	99	90 - 110	Т
Sulfate	mg/L	50	50	100	90 - 110	Т







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Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23554 Analysis Method: EPA 300.0

Preparation Method: EPA 300.0

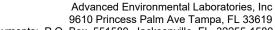
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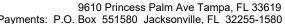
T2316486010, T2316486011, T2316486012, T2316486013, T2316486014

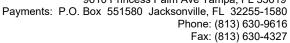
Matrix Spike (4949202); Matrix Spike Duplicate (4949203); Original (T2316486012); Parent Lab Sample (T2316486012)

		Spiked	Spike	Spike	Control	Dup	Dup		RPD	
Parameter	Units	Amount	Result	Recovery	Limits	Result	Recovery	RPD	Limit	Lab
Fluoride	mg/L	2	2	100	90 - 110	2	100	0	10	Т
Chloride	mg/L	20	23	103	90 - 110	23	102	1	10	Т
Sulfate	mg/L	20	48	100	90 - 110	47	98	1	10	Т











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Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23555 Analysis Method: EPA 300.0

Preparation Method: EPA 300.0 Associated Lab IDs: T2316486015

Method Blani	k(4949204)
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Parameter	Results	Units	PQL	MDL	Lab
Fluoride	0.20 U	mg/L	0.50	0.20	Т
Chloride	1.0 U	mg/L	5.0	1.0	Т
Sulfate	1.0 U	mg/L	5.0	1.0	Т

Lab Control Sample (4949205)

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Lab
Fluoride	mg/L	5	5.4	109	90 - 110	Т
Chloride	mg/L	50	50	100	90 - 110	Т
Sulfate	mg/L	50	51	101	90 - 110	Т

Matrix Spike (4949206); Matrix Spike Duplicate (4949207); Original (T2316510003); Parent Lab Sample (T2316510003)

		Spiked	Spike	Spike	Control	Dup	Dup		RPD	
Parameter	Units	Amount	Result	Recovery	Limits	Result	Recovery	RPD	Limit	Lab
Fluoride	mg/L	2	2.2	110	90 - 110	2.2	109	1	10	Т
Chloride	mg/L	20	32	112	90 - 110	31	107	3	10	Т
Sulfate	mg/L	20	23	115	90 - 110	22	108	6	10	Т

QC Result Comments

Matrix Spike - 4949206 - Chloride

J4|Estimated Result

Matrix Spike - 4949206 - Sulfate

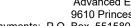
J4|Estimated Result

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Workorder: 2023 CCR Event (T2316486)

QC Results

QC Batch: WCAt/23717 Analysis Method: EPA 300.0

Preparation Method: EPA 300.0

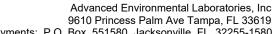
Associated Lab IDs: T2316486010, T2316486011

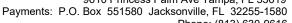
Method Blank(4960	140)									
Parameter				Results		Units	PQL	MD	L	Lab
Sulfate				1.0 U		mg/L	5.0	1.0		Т
Lab Control Sample	(4960141)									
Parameter			Units	Spiked Amo	unt Spik	e Result	Spike Recovery	y Contro	l Limits	Lab
Sulfate			mg/L	50	47		95	90 - 11	0	Т
Matrix Spike (49601	42); Matrix Spike	Duplicate (4960143); O	riginal (T23174	173001); Pa	arent Lab	Sample (T231747	3001)		
		Spiked	Spike	Spike	Control	Dup	Dup		RPD	

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits	Dup Result	Dup Recovery	RPD	RPD Limit	Lab
Sulfate	mg/L	20	25	105	90 - 110	23	99	5	10	Т











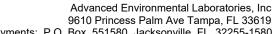
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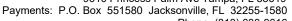
Workorder: 2023 CCR Event (T2316486)

QC Cross Reference

•			
Lab ID	Sample ID	Prep Batch	Prep Method
CVAt/2047 - SW-846 7470A			
T2316486001	CCR-2	DGMt/6576	SW-846 7470A
T2316486002	CCR-17	DGMt/6576	SW-846 7470A
T2316486003	CCR-16	DGMt/6576	SW-846 7470A
T2316486004	CCR-6	DGMt/6576	SW-846 7470A
T2316486005	CCR-8	DGMt/6576	SW-846 7470A
T2316486006	CCR-9	DGMt/6576	SW-846 7470A
T2316486007	CCR-20	DGMt/6576	SW-846 7470A
T2316486008	CCR-11	DGMt/6576	SW-846 7470A
T2316486009	CCR-23	DGMt/6576	SW-846 7470A
T2316486010	CCR-13	DGMt/6576	SW-846 7470A
T2316486011	CCR-22	DGMt/6576	SW-846 7470A
T2316486012	SW-106	DGMt/6576	SW-846 7470A
T2316486013	EQ BLANK	DGMt/6576	SW-846 7470A
T2316486014	CCR-21	DGMt/6576	SW-846 7470A
CVAt/2048 - SW-846 7470A			
T2316486015	CCR-12	DGMt/6577	SW-846 7470A
T2316486016	Fishlake	DGMt/6577	SW-846 7470A
T2316486017	CCR-15	DGMt/6577	SW-846 7470A
T2316486018	CCR-1	DGMt/6577	SW-846 7470A
T2316486019	CCR-19	DGMt/6577	SW-846 7470A
T2316486020	CCR-4	DGMt/6577	SW-846 7470A
T2316486021	CCR-7	DGMt/6577	SW-846 7470A
T2316486022	Lake D	DGMt/6577	SW-846 7470A
T2316486023	CCR-18	DGMt/6577	SW-846 7470A
T2316486024	CCR-5	DGMt/6577	SW-846 7470A







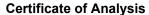


FINAL - REVISION

Workorder: 2023 CCR Event (T2316486)

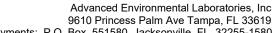
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		Deference
LJL.	C.ross	Reference

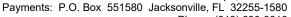
4 = 21223 1101010110	<u> </u>		
Lab ID	Sample ID	Prep Batch	Prep Method
ICMj/3410 - SW-846 6020			
T2316486001	CCR-2	DGMj/6376	SW-846 3010A
T2316486002	CCR-17	DGMj/6376	SW-846 3010A
T2316486003	CCR-16	DGMj/6376	SW-846 3010A
T2316486004	CCR-6	DGMj/6376	SW-846 3010A
T2316486005	CCR-8	DGMj/6376	SW-846 3010A
T2316486006	CCR-9	DGMj/6376	SW-846 3010A
T2316486007	CCR-20	DGMj/6376	SW-846 3010A
T2316486008	CCR-11	DGMj/6376	SW-846 3010A
T2316486009	CCR-23	DGMj/6376	SW-846 3010A
T2316486010	CCR-13	DGMj/6376	SW-846 3010A
T2316486011	CCR-22	DGMj/6376	SW-846 3010A
T2316486012	SW-106	DGMj/6376	SW-846 3010A
T2316486013	EQ BLANK	DGMj/6376	SW-846 3010A
T2316486014	CCR-21	DGMj/6376	SW-846 3010A
T2316486015	CCR-12	DGMj/6376	SW-846 3010A
ICMj/3417 - SW-846 6020			
T2316486016	Fishlake	DGMj/6388	SW-846 3010A
T2316486017	CCR-15	DGMj/6388	SW-846 3010A
T2316486018	CCR-1	DGMj/6388	SW-846 3010A
T2316486019	CCR-19	DGMj/6388	SW-846 3010A
T2316486020	CCR-4	DGMj/6388	SW-846 3010A
T2316486022	Lake D	DGMj/6388	SW-846 3010A
T2316486023	CCR-18	DGMj/6388	SW-846 3010A
ICMj/3427 - SW-846 6020			
T2316486021	CCR-7	DGMj/6408	SW-846 3010A
T2316486024	CCR-5	DGMj/6408	SW-846 3010A











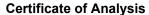


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Workorder: 2023 CCR Event (T2316486)

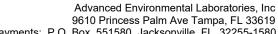
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	CHOOL	Reference
LJL.	CHOSS	Reference

Lab ID	Sample ID	Prep Batch	Prep Method
ICPj/2953 - SW-846 6010			
T2316486001	CCR-2	DGMj/6358	SW-846 3010A
T2316486002	CCR-17	DGMj/6358	SW-846 3010A
T2316486003	CCR-16	DGMj/6358	SW-846 3010A
T2316486004	CCR-6	DGMj/6358	SW-846 3010A
T2316486005	CCR-8	DGMj/6358	SW-846 3010A
T2316486006	CCR-9	DGMj/6358	SW-846 3010A
T2316486007	CCR-20	DGMj/6358	SW-846 3010A
T2316486008	CCR-11	DGMj/6358	SW-846 3010A
T2316486009	CCR-23	DGMj/6358	SW-846 3010A
T2316486010	CCR-13	DGMj/6358	SW-846 3010A
T2316486011	CCR-22	DGMj/6358	SW-846 3010A
T2316486012	SW-106	DGMj/6358	SW-846 3010A
T2316486013	EQ BLANK	DGMj/6358	SW-846 3010A
T2316486014	CCR-21	DGMj/6358	SW-846 3010A
T2316486015	CCR-12	DGMj/6358	SW-846 3010A
ICPj/2964 - SW-846 6010			
T2316486016	Fishlake	DGMj/6392	SW-846 3010A
T2316486017	CCR-15	DGMj/6392	SW-846 3010A
T2316486018	CCR-1	DGMj/6392	SW-846 3010A
T2316486019	CCR-19	DGMj/6392	SW-846 3010A
T2316486020	CCR-4	DGMj/6392	SW-846 3010A
T2316486021	CCR-7	DGMj/6392	SW-846 3010A
T2316486022	Lake D	DGMj/6392	SW-846 3010A
T2316486023	CCR-18	DGMj/6392	SW-846 3010A
T2316486024	CCR-5	DGMj/6392	SW-846 3010A











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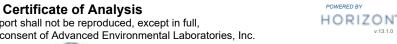
Phone: (813) 630-9616 Fax: (813) 630-4327

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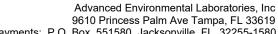
Workorder: 2023 CCR Event (T2316486)

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		Deference
LJL.	C.ross	Reference

Lab ID		D	David M. d.
Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/23158 - SM 2320B			
T2316486002	CCR-17		
T2316486003	CCR-16		
T2316486004	CCR-6		
T2316486006	CCR-9		
T2316486007	CCR-20		
T2316486008	CCR-11		
T2316486009	CCR-23		
T2316486011	CCR-22		
T2316486012	SW-106		
T2316486013	EQ BLANK		
WCAt/23160 - SM 2320B			
T2316486014	CCR-21		
T2316486015	CCR-12		
T2316486017	CCR-15		
T2316486019	CCR-19		
T2316486021	CCR-7		
T2316486023	CCR-18		
T2316486024	CCR-5		
WCAt/23204 - SM 2540 C			
T2316486001	CCR-2		
T2316486002	CCR-17		
T2316486003	CCR-16		
T2316486004	CCR-6		
T2316486005	CCR-8		
T2316486006	CCR-9		
T2316486007	CCR-20		
T2316486008	CCR-11		
T2316486009	CCR-23		









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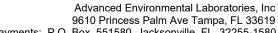
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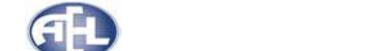
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WCAt/23209 - SM 2540 C			
T2316486010	CCR-13		
T2316486011	CCR-22		
T2316486012	SW-106		
T2316486013	EQ BLANK		
T2316486014	CCR-21		
T2316486015	CCR-12		
WCAt/23246 - SM 2540 C			
T2316486016	Fishlake		
T2316486017	CCR-15		
T2316486018	CCR-1		
T2316486019	CCR-19		
T2316486020	CCR-4		
T2316486021	CCR-7		
T2316486022	Lake D		
T2316486023	CCR-18		
T2316486024	CCR-5		
WCAt/23545 - EPA 300.0			
T2316486016	Fishlake		
T2316486017	CCR-15		
T2316486018	CCR-1		
T2316486019	CCR-19		
T2316486020	CCR-4		
T2316486021	CCR-7		
T2316486022	Lake D		
T2316486023	CCR-18		
T2316486024	CCR-5		











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Workorder: 2023 CCR Event (T2316486)

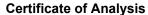
	_	_
\sim	A	Reference
1 W -	ITACC	PATARABA

•••			
Lab ID	Sample ID	Prep Batch	Prep Method
WCAt/23554 - EPA 300.0			
T2316486001	CCR-2		
T2316486002	CCR-17		
T2316486003	CCR-16		
T2316486004	CCR-6		
T2316486005	CCR-8		
T2316486006	CCR-9		
T2316486007	CCR-20		
T2316486008	CCR-11		
T2316486009	CCR-23		
T2316486010	CCR-13		
T2316486011	CCR-22		
T2316486012	SW-106		
T2316486013	EQ BLANK		
T2316486014	CCR-21		
WCAt/23555 - EPA 300.0			
T2316486015	CCR-12		
WCAt/23717 - EPA 300.0			
T2316486010	CCR-13		
T2316486011	CCR-22		





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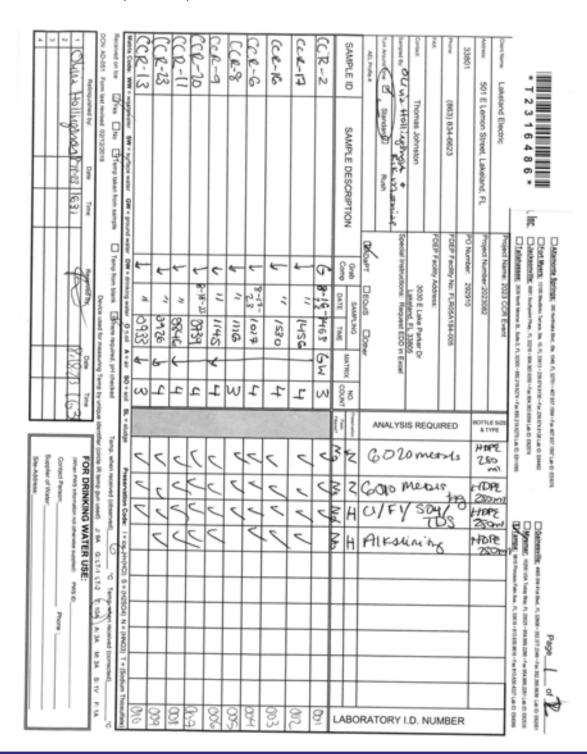
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Tuesday, October 3, 2023 9:53:12 AM Dates and times are displayed using (-04:00) Page 85 of 86

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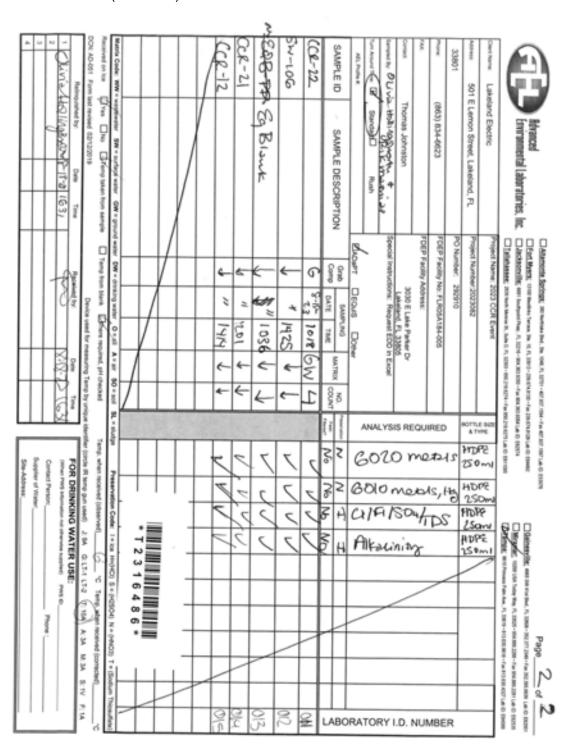
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Workorder: 2023 CCR Event (T2316486)



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Memorandum

Date: 20 November 2023

To: Thomas Johnston

From: Derek Yeadon CC: K. Henderson

Subject: Stage 2A Data Validation - Level II Data Deliverable - Advanced

Environmental Laboratories Work Order #T2316486

SITE: Lakeland 2023 CCR Event

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three groundwater samples and one equipment blank, collected 16-18 and 21-22 August 2023, as part of the site investigation activities for the Lakeland 2023 CCR sampling event.

The samples were analyzed at Advanced Environmental Laboratories, Inc., Tampa, Florida, for the following analytical tests:

- Metals by United States Environmental Protection Agency (USEPA) Methods 3010A/6010
- Metals by USEPA Methods 3010A/6020
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C
- Alkalinity by SM 2320B
- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives, with the following exception.

The non-detect results of cobalt, selenium, cadmium, thallium and lead for sample CCR-5 were R qualified as rejected due to MS recoveries less than 30%.

The qualified data that were not rejected should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC

Final Review: K Henderson 11/21/2023

failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS- 41.5-2012).

The following samples were analyzed and validated at a Stage 2A level in the data set:

Laboratory ID	Client ID
T2316486001	CCR-2
T2316486002	CCR-17
T2316486003	CCR-16
T2316486004	CCR-6
T2316486005	CCR-8
T2316486006	CCR-9
T2316486007	CCR-20
T2316486008	CCR-11
T2316486009	CCR-23
T2316486010	CCR-13
T2316486011	CCR-22
T2316486012	SW-106

Laboratory ID	Client ID
T2316486013	EQ BLANK
T2316486014	CCR-21
T2316486015	CCR-12
T2316486016	Fishlake
T2316486017	CCR-15
T2316486018	CCR-1
T2316486019	CCR-19
T2316486020	CCR-4
T2316486021	CCR-7
T2316486022	Lake D
T2316486023	CCR-18
T2316486024	CCR-5

The laboratory reported results for the analytical method(s) requested for each sample on the chains of custody (COCs).

Incorrect error corrections were observed on the COCs instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods

3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank Matrix
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for supporting project objectives, with the following exceptions. The non-detect results of cobalt, selenium, cadmium, thallium and lead for sample CCR-5 were R qualified as rejected due to MS recoveries less than 30%. Therefore,, the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 98.7%.

The laboratory noted silver and cadmium in a closing continuing calibration verification (CCV) exceeded the upper control criterion. The laboratory noted these metals were not detected in the associated samples; therefore, no qualifications were applied to the data.

1.2 **Holding Time**

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches ICMj/3410, ICMj/3417, ICMj/3427, ICPj/2953, and ICPj/2964. The metals were not detected in the method blanks at or above the method detection limit (MDL).

1.4 <u>Matrix Spike/Matrix Spike Duplicate (MS/MSD)</u>

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples CCR-2 and CCR-5. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of cobalt, arsenic, selenium, cadmium, thallium, and lead in the MS were less than 30% and the recoveries of cobalt and selenium in the MSD, using sample CCR-5 were low and outside the laboratory specified acceptance criteria. In addition, the RPDs for cobalt, arsenic, selenium, cadmium, thallium and lead were outside the laboratory specified acceptance criteria. Therefore, the estimated arsenic concentration for sample CCR-5 was J qualified as estimated and the non-detect results for cobalt, selenium, cadmium, thallium, and lead concentrations in sample CCR-5 were R qualified as rejected.

Three batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
CCR-5	Arsenic	0.42	I	0.42	J	4
CCR-5	Selenium	1.2	NA	1.2	R	4
CCR-5	Cadmium	0.25	NA	0.25	R	4
CCR-5	Cobalt	0.25	NA	0.25	R	4
CCR-5	Thallium	0.25	NA	0.25	R	4
CCR-5	Lead	0.5	NA	0.5	R	4

mg/L-milligrams

per liter

NA-Not applicable

UJ- Estimated not detected at or above the MDL

1.5 <u>Laboratory Control Sample (LCS)</u>

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 **Equipment Blank**

One equipment blank was collected with the sample set, EQ BLANK. Metals were not

detected in the equipment blank at or above the MDLs.

1.7 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.8 Electronic Data Deliverable Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20%. The laboratory flags that were used in the level II report were not used in the EDD. No other discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches CVAt/2047 and CVAt/2048). Mercury was not detected in the method blanks above the MDL.

2.4 <u>Matrix Spike/Matrix Spike Duplicate</u>

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pairs was reported, using sample CCR-12. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, EQ BLANK. Mercury was not detected in the equipment blank above the MDL.

2.7 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

2.8 <u>Electronic Data Deliverable Review</u>

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C, alkalinity by Standard method 2320B, TDS by Standard method 2540C, and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time and Preservation
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicates
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

The laboratory noted that due to low sample pH for sample CCR-16, the alkalinity of sample CCR-16 was undetected. No qualifications were applied to the data.

3.2 Holding Time & Preservation

The holding times for the wet chemistry parameters are listed below.

Analyte	Method	Holding Time
Anions	US EPA Method 300	28 days from collection to analysis
Alkalinity	SM 2320B	14 days from collection to analysis
TDS	SM 2540C	7 days from collection to analysis

The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for TDS (batches WCAt/23204, WCAt/23209, and WCAt/23246), two method blanks were reported for alkalinity (batches WCAt/23158 and WCAt/23160), and four method blanks were reported for anions (batches WCAt/23545, WCAt/23554, WCAt/23555, and WCAt/23717). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four sample set specific MS/MSD pairs were reported for anions, using samples CCR-15, CCR-7, CCR-2, and SW-106. The recovery and RPD results were within the laboratory specified acceptance criteria.

MS/MSD pairs for TDS and alkalinity were not reported. Precision and accuracy were assessed using the sample/sample duplicate pairs listed in section 3.6 for TDS and alkalinity. No additional qualifications were applied to the data.

Two additional batch MS/MSD were reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 <u>Laboratory Control Sample</u>

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported for TDS, two LCSs were reported for alkalinity, and four LCSs were reported for anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicates

Two sample set specific laboratory duplicates were reported for alkalinity (using samples CCR-17 and CCR-21) and one sample set specific laboratory duplicate was reported for TDS (using sample CCR-13). All RPDs were within the laboratory specified acceptance criteria.

Two batch duplicates were also reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EQ BLANK. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Sensitivity

The samples were reported to the MDLs for the anions and the RL for TDS. No elevated non- detect results were reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1 DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY

Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2 DATA VALIDATION REASON CODES Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample LCSD - Laboratory Control Sample duplicate RPD - Relative percent difference

Oxygen CAL ICV CCV CAL ICV CCV CAL ICV CCV Specific	ጋርድ የአንድ የተ ·\$\$\$	15-22 16-23	1174 -0749	Temp *CI	62699 (Salundor Impli	Reading 1	Reading .	Pats	11-200	210301	Rapting	
Dissolved Oxygen CAL ICV CCV CAL ICV CCV CAL ICV CCV Specific	ጋርድ የአንድ የተ ·\$\$\$	Date - 15 - 22	1174 -0749	Temp *CI		-	Reading .	Pats	\$1-79 YTV			
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27,000			0813.	21.8	7.63 7.63 7.85	7.63 7.64 7.84	180.0 100.0	000	CAL ICV COV CAL ICV COV	8-15-23 8-16-23 8-16-23	9.34	0
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if swameler take in participation 959 acceptance orders their appears can develop a very lift ig yearby.

FrojectSite (2)	celsus	1 Elbert	ne	Project #	r3716F	Fed Personn	e Olivia	HOW	ADONOPA.			
Water Quality Vete	r - Model/Se	w# 457	L Pro-D	\$ 1626	ARI.		Turbaimeter-		0	/Z1030D	930°	4
Dissolved Oxygen	DEP SQP FT 1500	Date	Time	†emp ™	Saturation (mg/L) ¹	Reading (MgA.)	Reading (%)	Pass or Fail	0.1 - 10 MTJ 5 44 M NTJ	Daile	Reading (NTU)	Paks or Fail
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Specific Conductance	06P SDP F7 1200	Date	Time	Standard [mS/cm]	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail	11 K NTJ Sio <u>24.</u> NTJ	Date	Reading (VTV)	Pass or Fail
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рН	DEP 50P F/ 1100	Quile	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Seading (SU)	Pass or Fail	41 - 100 NTU Smi kts 410	Date	Reading (ATU)	Pass or Fail
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ORP	SOP WA	Date	Time	State mV (g Temp 10	Standard Lot #	Scandiard Eng. Date	jmVj jevding	Pass or Fail	NIIN SOL	Date	Reading (YTU)	Pass or Fall
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Projectisher Lateland Electric Front FL3716 Fred Personnel Olivia Water Quality Here - Model/Ser al 3 452 Pro -1085/626991 Turbidimeter - Veca-Scra #7100 0 / 21030 D 00064 Dissolved **DEF 509** Salta ration 404 Fuacing Fitadeo Pass E INTU Tee Date FT 1500 or Fad 5m 10 000 Oxygen FQ. :rol.: الأومن A: አገሙ - 21 Acceptance Critical 4, 0.3mg L Acceptance Chirena +- f0". CAL ICY CCV CAL ICY CO 99.8 3.3 CAL ICV CCV CAL I.Y JU CAL ICV CCV Р CAL ICY COY F CAL ICV CCV PF CAL KY DOY Specific DEF SOF Standard Standard Standard Seadore Pass 11 - K HTU Peading Pass or 322 1.7€ Care FT (23g) Conductance inskn. Log# Eup. Carte imšitei. or Ale 5년 100년 **ATIN** i a il Acceptance Entenanier 5% Acceptance Entenant 4 - 8" CAL KY (CT) 9-12-23 1405 九坤宁 47,64672 6/24 O CAL IN COLD 1.43.30 CAL KCY DOV CAL ICY COV CAL KCY DOY CAL KY DOY P CAL KCY DOV P F CAL ICY DOV DEP SOF Stancard 41.100 47. Sandaro Standard izateg Pass Reading Pass or pł: T.ene Date D-2 FILE انباؤا Exp. Carte or Fad \$24____\$70 Loz# 1500 MULT - 14 Acceptance Orders in 2.2.50. CAL KOV COV 1409 CAL ICV CO ℗ ₹11-11 4.05 CAL ICVICCO CAL ICV P Ė 25423 11/24 CAL HEV COOP CAL KCY DOY F CAL ICY DOY CAL KCY DOY F CAL ICY CCY CAL ICY COV F CAL KCY CCY CAL ICY CCV F CAL LCV COY CAL ICY DOY F CAL SEV COV CAL KCY DOY F F CAL KY COY CAL KCY DOY P F Reading Pass or \$%. 图图 Standard Standard चेरश्वतायु Page 21X 1T. ORP 53P NA Darte Dase Tene Terr; 'C Emp. Date :=10 or Fail \$3___****\U NULL Fail .∷# Georgiates Accoptance Enterior + - 5% Acceptance Chrena + - 5% CAL C CCV CAL KY (CC) 791 (P) CAL MOY COY CAL KY COY CAL ICY COY CAL KY CCY D . F F Specific Conductance Probe Cleaned? Yes Disolved Oxygen membrane Changed? Yes 1. See Table 1.5 2700-2 on the back of this form CALINE (a) Zalibaton Comments. IOV - Incor Calibration viewfoaton COVIDORONOS CARBOROS VIENTAS POR Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration Geosyntec[▷] Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable) Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Project #: FR3715 F Field Personnel: RIK WANTERS Project/Site: Laveland Success HACH ZINO D SOPSOITII 200 TO D 000050 Water Quality Meter - Moon Serial F. YST 556 Turbid heter - Wooel/Saria, # Dissolved DEP SOP Temo Saturation Readiso Seading 225 F COTO Reading Fatt of Oarte: Time Cab FT 1900 Oxygen PC) mgli img'... 641 or Fail <u>≤ 16_</u> г. NUT Fail Acceptance Corosa Hill Amail Addeptation Unional int 16%. 7.954 8-15-23 6750 27.13 8.02 100.2 2-15-23 7.983 8.06 161.0 B-16-23 10.00 CAL ICV CC 8-026 (₽)F CAL ICV CCV 8.03 100. 2 8.17-23 CAL ICV CCV CAL ICV CCV 8 F Specific 362 SOP Standard Standard Standard Reading P233 11 - 60 HT. Reading Pass or Late Time Cate FT 1200 Std 💯 NTU Conductance [m5-cm] Erra, Caste (nS/cm) or Fini NUM Lotal Fail Accentance Cojetia 4: 5: . Acceptance Coresa, Ar. AM. 1.413 3640022 DE 24 1413 ⊕ F 8-15-23 8.16.23 0720 w 1411 8-11-23 u 1.0 PF 0719 CAL ICV CCV CAL ICV (CC) 1412 CAL ICV CCV 2 F CAL ICV CCV Р CHARACTER DEP SOP Started M Standard Standard **Pribes**A F253 Reading Pass or pН Date Trac Carp F" 1730 orFail JUM SATI PAS 15:5) Lat 3 Exp. Date Į\$U) **ም**መ Fall Acceptance Chrone + 4250 Acceptance Critery 4: 65% LCM CCA 0800 (e) F CAL (CV) OCY 8-15-23 7.00 16E1252 05 7.00 (P) 8-15.23 CAL ICY CCY ICV CCY 2080 4.80 GE 1974 S 6.23 4.02 CCV 10.00 CAL KTY (CCV 8-17-23 0810 10.00 SGEOGLE 05/25 CAL ICY CAL ICV CCV 0725 7.00 36E 1257 7.02 PF CAL CY (CCV CAL ICY DOV 7.01 7.00 3661252 CAL KY CCY CAL ICY COV CAL ICY CCY CALL ICY SEV CAL ICY OCY CAL ICY DOV Р F CAL ICY OCY PF CAL KCY DOV P State with @ Scandard Standard Reading Pares >:30 NEJ Reason Pess of ORP 50P N.E. -me Date Contr THOUSE IN Temp 10 Let F Exp. Date (min) or Fast ሴጤነ Fa1 Acceptance Concounted 515 Geosyntec Acceptance Cheenia N. 71, 2.40.0 04/24 CAL (ICY) DOY TONG PLOS 740 . D 0728 CAL KY CEY 239.7 tr 0730 u ш 238,9 CAL KY COY 7 Disolved Oxygen membrane Cl 1. See Table FS 2008-3 or the back of this long. CUL-194 a Carbinoth تسترسيني (% - avia Cartrator - précation Manager Community Colombian (efficiel an Align group, give him to the recent of any persons and equilibrite during an existence Calonge reports concurancy using a reposition page of a sound for large of extents sander resempt of these restings of 0.0 for the form and a final section of the contract of Geosyntec⁵ Calputs or larger less statutures (p.g. per 6 and 7 that have the range of updates range daying a larger 5 and with the first participant of the f CONTRACTOR I commendate to capacity wher SCP acceptance is to a first accept sufficient sub(cout.)

Geosyntec Consultants Water Quality Instrument Calibration Form

Project/Site LAKELLUD EUSCHEIC Project #: FR 3715F RIK MATHIAS Field Personnel: 115102402 Turodrese ModelSerial # HACH 2100 Q 20070 D000050/ Water Quality Meter - Model/Serial #: YSS 566 Dissolved DEP 50P Temp Saturation. Reading Reading Pass 0.1 - 18 AFU Reading Pass of 3476 Time Date FT 1500 Strid STONE STRING Oxygen PC) lmafi, (1914) (%) or Fail INTUI Fail Acceptance Colema + -0 Jung C Acceptance Criteria 45-1015 105 23.57 2-18-23 (P)F 8.43 99.4 8-18-23 CAL ICV C CAL KTY CCV 26-1 .099 B.16 100.9 24 CAL 8.21.23 0724 28.36 100.2 CAL KY CO 8-21-23 (P) F CAL ICY 7.926 CAL KY 2.22.23 1140 27.33 9.09 100 . 3 Specific CEP SOP Standard Standard Slandard Reading 245 11 - 46 HTU Reading Pass or Date Cale Time SM 20 HTU FT 1200 Exp. Date or Fad NTUI (m\$/cm) اعاضا (ms/2m) Faid Conductance Acceptance Corece: 5 - 5% Anniprance Coloria 1 - 812 34 F0022 (P) F CAL KCY 8-18-23 6710 1.413 CAL HEV COON 8-18-23 00 24 1414 CAL ICV (CCV) 20.04 w 44 1416 @F 8-4-23 1.413 3GF0022 CAL ICY CCV CAL ICV 640 ZH 1415 B-21-23 0720 CAL ICY 1417 CAL ICY (CCY 20 - 1 Shedard Standard: 41 - 100 HTL Reading Pass of Standard Reading Pass DEP SOP þН Carle Date Tine SH CONTU FT 1100 Exp. Date ISUL or Faul HTTH: Fail ı\$JI. Lot ₹ Acceptance Chiena 1.5784 Acceptance Criteria: 4/- 6.5% 7.00 œ) CAL ICVI 0415 36E1252 05/25 P) F P CAL ICV CCV 1506 t. 6.99 iovi. CAL ICVO 8-Z1-23 B-21-23 CAL ICV CCV 3CHE 1252 CAL ICV 102 CAL ICV KCV CCV CAL ICY CCY CAL ICY COV CAL KY COV Р CAL MCV CCV CAL ICY COV F CAL KY CCY CAL ICY COV P Pass HITM DOIN Reading Pass or Sid mV @ Standard Standard-Reading ORP Date SOP MA Java Time 510 ____4 L (N[®]U) Fail Temp 'C Loi # Eago, Davie (mVI) or Fail Geosyntec Acceptance Critics + 5% Appopulation Criforia + . 5% 6719 240.0 6000005 0-124 O F CAL KCV CCV CAL ICV Ð CAL ICY OCY CAL ICY CO 1509 240. 10 u (E) R. 21.23 11 u 238.4 CAL ICY COV Р Displaced Oxigen membrane Changed? Yes Specific Conductance Probe Cleaned? Yes 1. See Table F5 2294-3 on the teck of the form Comments CAL - Tetal California CV - in say Care (see vir pelicane v CCV - Coronung Calibration Verification Allow adequate the for the different by got between the Allow adequate along an exception. Deprise specific conductance using an least one standards that become the range of expecient surper readings full instruments and in 100 metric flow on the first of 100 metric flow in Geosyntec^p

Calbridge to using all easy two plants arts. Type protected in Beauty the large of expected sample readings, a weight faithful from 1 about 2016 about 50 ft freedom to 1 a fig.

if surpreparations calibrate artist 50% acceptance to sera their accept sample new/s with 61% 64.4 ffm.

ands family

RIK MATHORS Project/Site: LAKELKND GLECTRIC Project # FR3715F Field Personnel Turbidimeter - Model/Serial # HACH 2100 Q Z0070 D00050 Water - Model/Serial #: YST 556 11502402 Dissolved DEP SOP Salutation Reading Reading Pasi Ter:p 4.1 - 12 1/1. Reading Pass or Date Derte Time 5H (0 K FT 1538 or Fail INTLI Fail Oxygen ሮር! |mo/L| (Fen) CMT. Acceptance Solena •16 Img L Acceptation Criteria 1991 (2). 30.22 7.533 CAL ICK CCV 1245 8-22-23 CAL ICY (CC) 100.3 7.61 CAL ICY CCV F CAL CCV CAL ICY CCV Р F CAL KY CCV Р F CAL ICY CCY CAL KCY GCY Specific 17 - 44 ACC CEP SCP Standard Standard Standard Reading Pass. Reading Pass or Date Time Clate F7 1200 Std 20 NTU Conductance Exp. Date pr Faill กงใปแ Fail [mS/cm] Lode (m\$/tm) Acceptance Chronical 5% Acceptance Criteria #1 819 8.22.23 1249 CAL ICY (DOV. 36F002Z 1.413 1416 (P) F CAL ICY (CCV) 06/24 CAL ICY CCV CAL HOY COV CAL ICY CCV P CAL KY CCV CAL ICY CCY CAL CV CCV Reading. SHE LOOMTU Standard Standard Stantard Pass Reading Pass or DEP SOF Hg Date Time Date FT 1100 Exp. Date (SUI) or Fail (NTU) F≱I (SLA 나라후 Acceptance Cinema + 0.2 SU Acceptance Chrena ... 5.5". 8-22-23 1253 CAL ICY CCY 368 125Z 7.00 (\circ) CAL ICY CCV (P)F 10-97 103 CAL ICY CCV F CAL KLY COV CAL ICY CCV CAL KY CCY Р F CAL KY CEV CAL ICY CCY CAL KCY DOV CAL KY CEV CAL KEY COV CAL ICY CCY F CAL ICY CCV CAL KY COV CAL KY CCY CAL ICY CCV F CAL ICY COV CAL KY CKY Р Reading Pass of SM. TV @ Standard Standard Reading Pass >100 970 ORP SOP MA Time Çate or Fall \$10__HTU 5 Yemp 'C Lat ■ Euo, Date Im\/h (HETTL) Grouphire Acceptance Chieru 4 - 51. Acceptance Chrona +1 5% CAL KY CCV CAL ICY CCV Р CAL KY CO CAL KY CCY CAL KY COY CAL ICY CCY P Specific Conductance Prope Cleaned® Yes No. Disolved Oxygen Tembrane Changed? Yes No. 1 See Table FS 2200-2 on the back of the form ひちょうとう はくがか 森の村 Con-ecs Colorea Calabate Verticado SCY - Continuing Safthrauch Perfoation May specified and by the propriet corpor sensor to equipodo the nglatical problem. Calibration street to consistence along an least the invariants that there is nearly inflated which makings where readings is the first that the street of 17 in 5 to 15 to 1 Geosyntec^D Cathaga priyang arawawan danaasing persianan Pilinar pratie ina rangkot proposition ne naonga arang basharan 5 ni Salah 2 (19 calah 20 bers finesati da 20 ki

Il parameter faits lo cautime entre sidé acceptance divinalités appentit létrais finities (millés est à 1.7.0 Anil 47.



INSTRUMENT CALIBRATION REPORT

Pinc Environmental Services LLC

1901 Ceconut Palm Dr. Ste 107 Tampa, Ft. 32619 Direct; \$13-620-1001

Pine Environmental Services, Inc.

Instrument ID 18925

Description YSL556

Calibrated 8/10/2023 1 55:05PM

Manufacturer VSJ Model Number 556 Serial Number/ Lot 111102402

Number

Location Plurida

Department

State Certified
Status Pass
Yemp °C 22
Hamidity % 59

		Cal	ibration Specifica	tions			
G	iremp#			Range Acc %	0.0000		
Grues	Nume PR			Reading Acc %	3,0000		
State	d Accy Pot of Re	ading		PlusMines	0.00		
Nom In Val / In Val	In Tree	Owt Val	Out Type	Fad As	1.0.45	Des %	Pass/Fail
7,00 / 7,00	111	7.00	PH	7.18	7.00	0.00%	Pass
4.00 / 4.00	3116	4.400	PH	4.07	4.00	0.00%	Pass
10/10/10/10	nat.	10.00	PH	9.93	10 00	0.0049	Pass
G	iroup ■ 2			Range Acc %	0.0000		
Group	Name Conducti	vity		Reading Acc %	3.0000		
State	d Accy Pet of Re	ading		Plus/Minus	0.000		
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Geoup	Name Redox (0)	RP)		Reading Acc %	3.0000		
-	d Accy Pet of Ro			PleyMinus	0.0		
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G	roup# 4			Range Acc %	0.0000		
Group	Name Disolved	Oxygen		Reading Ace %	3 0000		
State	dacey Perofike.	ading		Plus/Minus	0.0		
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100.07.100.0	%	100.0	94	81.2	100.0	0.00%	Page



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

3901 Coconut Palm für, Sic 107 Tampa, FI, 33619 Direct 313-620-1001

Pine Environmental Services, Inc.

Instrument ID: 48640

Description IIACH 2100Q Tarbidity meter Calibrated 8/11/2023 8:39:46AM

Manufacturer HACH Model Number 21000

Serial Number/ Lot 2007010000050

Number

Location Florida
Department

r . . .

State Certified

Status Pass Temp °C 21

Humidity % 58

		Cal	ibration Specificat	tions			
G	roup#			Range Acc	% 0.0000		
Group	Name Torbadily			Reading Acc	% 10.000 0		
State	d Accy Pet of Re	zding		Plos/Min	us 0.00		
Nom In Val / In Val	In Type	Out Vil	Out Type	Fnd As	Lillar	Dev %	Pass/Tail
10,00 / 10,00	NTU	10.00	NTO	11.90	9.37	-6.30%	Pass
20.00 / 20.00	STU	20.00	NTU	24.80	20.00	0.00%	Pass
N0.00 / 100.00	NTU	100.00	NIU	114.00	100.00	0.00%	Pass
\$80.00 / KG0.00	NTU	80fl.00	NIU	832.00	800.00	-0.00%	Pass

Test Instruments	Used During the Calibrat	ion			(As Of Cal En	try Date)
Test Standard ID	Description	Manufacturer	Model Number	Serial Number : Lot Number	Last Cal Date/ Opened Date	Next Cut Date / Expiration Date
FL BACH	100 NTC Turbidity	HACH	26K4901	A3038		301/2024
100NT12	Standard					
п. насн	10 N1U Turbidity	HACH	2961801	A3051		5/31/2024
ION I'U	Standard					
HL HACR	20 NTU Turbidity	HACH	26R4R0	A3037		5/31/2024
20NTU	Standard					
EL HACH	ROLINTU Tarbidity	BACH	2660501	A3048		5/31/2024
RODNITE	Standard					

Notes about this calibration

Catibration Result Catibration Successful Who Catibrated Evan McClenthan

SITE NAME LA	keland Ele	ectric MPP	CCR			ITE OCATION L	akeland, F	L			
	CCR-			SAMPLE	o Ca				DATE &	21 - 2	3
						GING DA	ATA				<u></u>
WELL DIAMETER		DIAME		OE1	LL SCREEN	INTERVAL to 20 TeetB	STATE (DC ('ect) B	AWOTHTSS	CRE	ÇS PUNY BAILER 🍦	
	If applicable)	1 WELL VO	LUME = (TOT	AL WELL DEF	2TH - \$T/	AT:C DEPTH	TO WATER)	X WELL CAPAC	City		
	iT VOLUME P *applicable)	URGE: 1EQL	IPMENT VOL			المواجعة والمالة المواجعة (100	ITY X	X TUBING LENGTH 9() lee	gallons/foo 11 + FLCW CE: 13 • Ø • Î		pations 0.476 gatoes
	MP OR TUS N		FINAL PUN OEPTH (100	IP OR TUBINS	5	PURCU			1343		
TIME	VOLUMS PURGED (gallons)	OUMALE VOLUME PURGED (galloru)	PURGE RATE (gree)	DEPTH TO WATER (feet)	gH (standerd units)	TEMP. (°C)	COND. (circle unds) µmhosiom or uSiom	0.3305450	TURBID 11 (NTUs)		218 O419
1389	8,49	6.48	0.06	8.93	5.25	28.0	212.2	0.28	3.66	Cho	~ \
1841	0.12	0.60	0.06	8.43	527	1.82	213.0	0.24	3.59	11	
1343	0.12	0.72	0.06	8.43	5, 29	28.1	214.5	D.19	3.57		1
			+	-	-				-	-	++
										-	+ 1
uinter den	ACITY (College	a Za Fasti I	1	17 = 0.04,	4.70 0.0	20-0-			#F - 1 P2		12" = 5 68
TUBING IN	SIDE DIA. CA	10 10 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	Ft.): 1/8" = 0.0	0006; 3/16*	1.25 = 0.0	1/4" = 0.000	26, 5/16" =	0.004; 3/8" =	0.006; 1/2	9" = 1,47. • 0 310:	5/81 + 0 0 16
PURCHAG	EQUIPMENT	dnés: B	= Baner. E	\$P ≤ Babacer F		LING D	Suomeisiore F ATA	CTD. PPA	Perstallic Pump	0.0	Xher (Specify)
	BY (PRINT) //		osyntec /	SAMPLER(S)			1	SAMPLING WHITLATED A	- 1243	SAMPLII EMDED.	
PUMP OR 1 CEPTH (fee		~23 =	, (TUBING MATERIAL C	CON MARK	July	FIEL	D-FILTERED Y	(H)	FILIER S	70 17
	ON TAXA NATO	ON PUN	2	1	TUBING		eplaced)	OUP: CATE		(1)	
SAMP SAUPLE	LE CONTA N	ER SPECIFICA		PRESERVAT		RESERVATX	FINAL	INTEND AMALYSIS A		WPLING U PMENT	SAMPLE PUMP FLOW RATE
CK-1	220/AASES 49	PP	VOLUME 25DmL	USED 1 1 HNOX	ADDE	None		CAO Mela	00 \$552 **	CODE	(mL permirule)
1		PP	250mL	loe		None	NA.	# 0 C		00	4460
*								SO¢, T *carbo r alkalır	220 4	•	↓
	C.										
REMARKS	-4520	rpleat	a. 13	43							
MATERIAL			Gass, CG =	C'ew Glass	PE = Po'	yalhylena,	PP = Polyprog	yvieno, \$=8 k	one, Tia Taf	on, Car	Other (Seecify)
SAMPLING	EOUPMENT		APP = Allor Pe: ISPP = Revert				Bladder Pump Metros (Tubr	i, ESP = 5'ec Ng Gravity Orain),	nc Submersible Q = Other (

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5% Dissolved Oxygen: all readings \pm 23% saturation (see Table FS 2200-2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 2.3 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STABILIZATION CRITER & FOR RANGE OF MARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE			200			ΤĒ	-				
		ectric MPP (CCR	T			akeland, FL				_
WELL NO	CCA-	2		5AMP()		2-2			DATE &	- 16-7	3
		Persons				SING DA					
WELL Diameter	increase de	TUBING	-5 E8 onceen - ¹	Ten DE	SA SCREEN PTH IN TA N	TERVAL TeetB1	OF Year BT	DE PROMETES		IGE PUMP T BA:ER 📆	_
WELL VOL	UME PURGE	1 WELL VOL	UME - ITOTA	LIWE! DE	PTH - STA	TIC DEPTH	TO WATER: X	WELL CAPAC			
	if applicable)		= (leel -		'cet) X		gellans*va	(=)	ga lons
	T VOLUME P	URGE: 1 EQUI	PMENT VOL					URING LENGTH) + FLOW CEI	L WOLUME	0.418
					_{ja'kons} . P		onstool X 💆	T tect	1453	galloris	= ga kon
NITIAL PUI DEPTH (fee	MP DR TUB Y	523.7	F MAL PUM DEPTH Ifee	PIORITUBIS SIBTOC	²³ . 7	FURGII SITAT	NG AT 148	8 PURGING ENDED AT	001	PURGED (O. O.
14.	Ĭ.	CUMUL		рертн		120	COND	CISSOLVED	Const	9	
TOPE	VOLUME PURGED-	VC_OME PURGED	PURGE RATE	TO WATER	pH (slandard	TEMP.	umhosicm	OXYGEN (cipale units)	7.0R9(0)71 (NTUS)	V 00:0 (descri	
	(ga ors)	(gallons)	(gptr.)	(leel)	JM16)	(~ .	or (uS/cm)	(mg/L) or % saturation	Variation	12410	
445	8.42	0.42	0.06	9.78	5.62	29.3	180.4	81.0	2.41	Car	
447	0.12	0.54	0.06	928	5,51	293	148.4	0.74	4.48	"	
449	0.(2	0.66	D.06	9.28	549	29 11	140.7	0.12	4,41	10	1
4SJ	0.12	0.78	0.06	9.28	549	29.3	139.8	Dill	4.56	11	1
453	0.12	0.48	0,06	9.28	551	19.5	14(8	0.09	4.66	"	
											+
			_	_	_		_			+	1
			_	-		12				-	1
			-	-		-	-		-	+	_
	_		-	-	-	-	-		-	+	
		ns Pe: Foot): 0		47 = 0,64	1.26" - 9.0	8 27 - 31	16. 3" = 0.37.	4*-365	5" - 102	6" - 1.47	12" = 5.88
100000000000000000000000000000000000000		PACITY (Gal./F		111111111111111111111111111111111111111	" = 0,0014;	1.4 = 0.00	26; 6/45" = 0 Submersible Pu		enstalho Pump	= 0.010;	B/8" - 3,3:6 ther (Specify)
PURCONCI	EQUIPMENT	LQUES: B.	Bake: B	uP ≐ R'adder		LING D		mp, FFFF	ens.anc.eum	0.0	ue (apeury)
SAMPLED	SY (PRINT) 1)			SAMPLER(S	SIGNATUR			SAMPLING	2 سال	SAMPLIN	G
	a Hollin	atw /Geo	osynlec /	Wir	with	tola	740-	A GETATED A	-	ENDEDA	
PUMP ČR 1 DEPTH (194		J ~23.5	7- [TÜBING MATERIAL C	XOUE HOPE,	- U) Fig. TEREO Y Kan Equipment Ty	_	FILTER S	IZE pm
	ON TAMINAT)	TUBING	Y (NE	ep/aced;	OUPLICATE	Υ	(N)	
SAMP	LE CONTA N	ER SPESIFICAT	DON T		SAMPLE PE	RESERVATE	DY.	INTEND		AMPLING	SAVPLE PUM
5AV41€ ID CODE	00N/A588	MATERIA: 2006	VOLUME	PRESERVAT USCO		TOTAL VOL	mL) PINAL	ANALYS S A		DODE	FLOW RATE (in), per moute
-2	* 2		250ML	1.5 HND		None	815	6010, Hall	(GOD)	188	4400
2-2	1	PP PP	250mL	lce		None	NA.	B, Ca, C	F- /		1
								SO4, TI bicerbon elkatin	010-	46	2400
REMARKS	اصمدت	مد اعد	1/45	5	-						
				·							
MATERIAL		AG : Amber 6		Clear Glass,		yelhylene		dene. S · S/c			Oner (Soephy)
SAMPLING	EQUIPMENT		PP = After Per PP = Rennes				r Bladd er Pump • Me rhod (Subiny		nd Submersubi Dia Dates		

NOTES: 1. The above do not constitute all of the information required by Chapter 82-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% satural on (see Table FS 2200-2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU lophorally \pm 5 NTU or \pm 10% (whichever is greater).

² STABILIZATION CAITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE			200		SI							
NAME LA	keland Ete		CCR	-		CAT:ON L	ake:a	and, FL		0		
WELLING	CCQ-1	4		SAMPLE		2-4				DATE 8-	21-2	3
						ING DA	(TA					
WELI D:AMETER			ren inchesi.	No DEPI		toZ8 HeetBT		(Seel) H70	EPTH TOWAT	2 OR 8	GE PUMP () MALEN	*
	.UME PURGE: I if applicable)	1 WELL VOI	UME = (1DT/	AL WELL DEPT	H - STA	TIC DEPTH	TO W	ATER; X	WELL CAPAC	ПҮ		
	NT VOLUME P	IRRE: 1 FOI	= (eet - IMF • :T:IR	ING CAPAC	ITY	feet) X	JBING LENGTH	gallons/foot		gallons
	(арфюзаре)					البر المادي		-		.	(+3) gallons	0.426 92000
INITIAL PU	MP CA TUBIN	G	FINAL PUM	P OR TUBING	Ø::5 - 1 □:	PURGT			1		TOTAL VO	TIMES .
DEPTH (fee		~23.5	DEPTH (fee	BTOC:	<i>J</i> 23.5	TAPTINA	EC AT		(NOED A)	M41	PURGED (p	
T:ME	VOLUME	CUMU. VOLUME	PURGE	CEPTH TO	pH (slan6ard	TEMP.	1000	OND. policy (s)	DISSONVEO OXYGEN (cipale units)	TURRICITY	ceta	R CR
1.MC	PURGED (gal-ons)	PURGER (gallons)	RAT€ (gpm)	WATER (feet)	(mm)	r Cı		uS/cm	(mg/L) or % saturation	(NTUS)	(descut	(mv)
	0.48	6.48	0.06	14,48		28.6		662	0.21	8.80	clas	
437		\$.08	0.00	14.48	398			762	0.10	3.87	11	1
439	9.12	1.20	0.06	14.48 14.48	347	78.2		976	0.09	7 55	1/	
1441	0.12	1.32	0.00	14.48	3.98	28.2	11,	790	0.09	3.76	11	\rightarrow
			-								+	
			-				-	- 1		-	+-	1
		_	-								-	1
			_	-	_		-			-	+	+ +
			-	-			-	-	_	-	+	-
		_	+		_					1	+	
WELL CAP	'ACITY (Galon	s Per Footil (5.75° • 3.02.	1" = 0.04,	1.25° = C C6	2" - 3 1	6.	3" = 0,37		6" = 1,02 (61 5 1,47	12" - 588
	ISADE DIA. GAI				C.0014.	1/4" • 0.00;		5116" - C :				\$46* = 0,016 ther (Spec.*y)
PUREDONS	EGUIPMENT	OUES: B	- 9arer, 9	PrGladderPt		SP + Blecho LING Da			-9 66-21	et stalle; Pump	0-0	им ,арис ү/
	BY (PA NT) + A			SAMPLER(S)	- Control of the Cont	of colorest			SAMPLING	42111	5AMPLIN	6
)livis	HOllyc	BrokkGe	osyntec /	Vivia	asta	Man	1	un	INITIA750 A		ENDEDA	<u> </u>
PUMPIOR 1 DEPTH (19		~2		MATERIA; CD	DE HEPE,	5	J****		FILIEHED Y or Equipment Ty		FILTERS	IZE 105
	CHAMINATION)	TUÐ NG		oplace	7	OUPLISATE	Y	(N)	
ŞAME	LE CONTAINE	N SPECIF CA	TON		ANTOLE FOR	ESERVATIO	×		INTEND		WELING	SAMPLE PUMP
\$A407_2	4	VARRAL	VOLUME	PRESERVATION		OFALIVOL DIN FIELD (rat :	FINAL	ANALYSIS A METHO		CODE	FLOW RATE (oil permane)
1: CODE	CONTAINERS T	2002 PP	250mL	1.1 HNQ3	Aune	Nare	.11.7	NA NA	. Meta:			2215-
CK-41		nc.	DEOM	lee.		Nors	_	N/A	COO. N.	40-44	APP	2400
4	ī	PP	250mL	Ice		Nore		NA '	504, TC		ایل	1
									Dicarbon		•	4
-							-		22704111	.,		
-			_		-				_			
-		-3-							1			
REMARKS			9243		N.				-			
	Sampl	sel gr	1441									
MATERIAL	CODES	AG + Amber	Glass, CG -	Clear Glass.	PE = Poy	CHYPPE	PP=	Роургару	ene Si≕Soloa	cne T-let	or 0 - 0	itter (Specify)
AMPLING	EQUIPMENT		.PP • A* er Per		B = Rad			er Pump,		no Submersibk		
FED. 4	The above		FPP = Reverse	: Flax Pensia : 16 informatio						Q = C·MY	Specify)	

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2) optionally, \pm 0.2 mg/L o: \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

Revision Date: February 12, 2009

² STABLIZATION GROUP A FORMANCE OF VARIATION OF (AS) THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

WELL AD	akeland E≀e	CUIC MPP	CCR		Si'	CATION LA	keland, FL				
	CCR-	5		SAMPLE	10 Cq	R-6			DATE 1	8.22-	Z023
						SING DA	TA				
WELL DIAMETER	R (Hohes: 🗲	TUBING	s TER (inches)	3/16 CH	THIR .	INTERVAL	STATIC 6 (real) 970	гауу от нічы 5. О Г э		ÇGE PUMP T BAILER	P. P.
	LUME PURGE: (1/abb/kabe)	1 WELL VOL	.UME - (101)	AL WELL DEP	TH - STA	TIC DEPTH T	OWATER) X	WELL CAPAC	:nY		
COUIPME	NT YOLUME P	URGE: 1 CQU	IPMENT VOL	, - POUP VOU	reer – IVME • :TUB	ING CAPAC!	ry X ru	BING LENGTH	gallens/los t) + FLGW/CS		ga-lons
	rif applicable:					وادو 14ص		6 'cc	o	gators	, 149 salors
INITIAL PU DEPTH (fe	IMP OR TUB N	223	FINAL PUN OSETHION	AP CRITIJBING N) BTCC	~23				1421	TOTAL VO: PURGED (UHE G.
DEF TH (16	1	CUNUL	Dar myca	CEP74		1	COND.	O330:VEQ		- Orioco (s	
TIME	VOLUME FURGED (gallone)	VOLUME PURGED (gal ons)	PURGE RATE (COD)	TO WATER Ifeet)	g#4 (stander0 uncs)	TEMP (*C)	(circle units) µmhos/cm or (µS/cm)	OXYGEN (circle units) (mg/L) or % saturation	TURBID T (NTQs)	CO40	
227	.50	.50	.10	10.90	5.39	27.02	14673	z.45	4.33	cles	r - 50.1
229	.70	.70	1				14727		4.34	1{	-53.
231	.20	.90			5:39	27.05	14724	2.39	4.47	i tr	
			-	-					+	+-	
									-	_	
			-	-	-	3.1			-	_	
	PACITY (Garen NSIDE DIA, CAI			11 = 0.04, 0006 - 3146*	1.257 = 0.08 • 0.0054,	5, 21 = 0,16 1941 = 0,6029		47 = 0.55; 004 - 3/8* =	57 - 1 07 0 006, 172	\$1 + 1,47 " = 0 C/D,	12" = 5.56 6/8" = 0.0%
PURGING	EQUIPMENT (:00ES: B	-Baler B	BP - Bleader F	t _a ⇔o E				Parata to Pam	n 0:0	
E4110: 5=	as tenting to						Solomovis blip Pur	rp. PP■F		p. 0-0	ther (Specify)
		CEU ATION		CAMPI EDICI		LING DA		r			
		FEILIATION MG /Ge		SAMPLER(S)		LING DA		T	τ (232	SAMPLIN ENDED A	6 :-127.
RIVE OR	TUR YO	AS /Ge	osyntec	TUBING	SIGNATURE	LING DA	TA TIELD-	SAMPLENG INTERACTOR	.τ {232 .	SAMPLIN	iz37
RNA 1 PLUP OR DEPTH (16	NATH(NEYG NI) BIDG	~5 /Ge -23	osyntec	TUBING MATERIAL CO	SIGNATURE DEE POPE	LING DA	TA field- field-	SAMPLENG INTO A	1232 (10) (10) (10)	SAMPLIN ENDED A FILTER S	iz37
PLAPOR DEPTH (% FIELD DEC	TUR YO	~5 /Ge ~23 ○N PCU	osyntec	TuBING MATERIAL CO	DEE POPE	LING DA	FIELD-F reace	SAMPLENG INTERNED A FILTERED A MEG, priers T	1232 (1) (2) (2) (2)	SAMPLIN ENDED A	iz37
PLAPOR PLAPOR DEPTH (% FIELD DEC SAMP.S	TUB YG SO) STOC CONTAM NATIO		osyntec	Tuging MATERIAL CO	DOGE POPE TUBING SAMPLE PR	S N :00	FIELD-F (300)	SAVELDAG INICATED A FILTERED IN PGC, prient DUPLICATE	1232 (S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	SAMPLIN ENDED A FILTER S	G 1237- ZEJM SAVPLE PUMP FLOW BATE
PLAP OR DEPTH (% FIELD CCC SAME	TUB YOU WATER SOUTHWATER SOUTHWATER SOUTHWATER	~ 2-3 ON P∪U ER SPECIFICA	osyntec P Y (M	TuBING MATERIAL CO	SIGNATURE DOES MOPE TUBING SAMPLE PRIVE ACCE	LING DA	FIELD-F (300)	SAMPLUNG INTERED A PILTERED A AGE, prient DUPLICATE STEND ANALYSIS	1232 (1) (2) (2) (3) (4) (4) (5) (6) (7) (7) (8) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1	SAMPLIN ENDED A FILTER S	G 1237- ZEJM SAVPLE PUMP FLOW BATE
PANE PLANT OF SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	TURNO AND STORY OF THE CONTAM MATERS	M /Ge 23 ON PUM ER SPECIFICA UA1-RA CODE	osyntec P Y (1) TICN VC.UME	TUBING MATERIAL CO	SIGNATURE DOES MOPE TUBING SAMPLE PRIVE ACCE	S Y N:00 RESERVATION OTAL VOL. 9 IN F 8:3 (r)	FIELD-F (Vaccor)	SAMPLING INTERED A PEC. prient DUPLICATE STEND ANALYSIS A METHO B, Ca, C	1232 (5) (5) (6) (6) (6) (7) (7) (8) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9	SAMPLIN ENDED A FILTER S SAMPLAS GUIPMENT GROS	SAVELE PUMP FLOW BATE [III] PER OR INCOME
PLAP OR DEPTH (% SAVE. F COOL	TURNO AND STORY SEE CONTAMINATION CONTAMINAT	M /Ge 23 ON PUM ER SPECIFICA DAT-RA CODE PP	osyntec P Y (Tich VC.UME 250mL	TuBING MATERIAL DO PRESSEVATI USED 1 1 HNOS	SIGNATURE DOES MOPE TUBING SAMPLE PRIVE ACCE	S Y N (%) RESERVATION OTAL VOL. 9 IN F 8:0 (%) None	FIELD FIGURE Pacod)	SAMPLING INTERPORT FILTERED TO SECUPION TO STEND ARALYSIS A METHOLOGICAL	1232 () NA () NA	SAMPLIN ENDED A FILTER S SAMPLAS GUIPMENT GROS	SAVINE PUMP FLOW BATE [III] PER MINUTE)
PANE PLANT OF SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	TURNO AND STORY SEE CONTAMINATION CONTAMINAT	M /Ge 23 ON PUM ER SPECIFICA DAT-RA CODE PP	osyntec P Y (Tich VC.UME 250mL	TuBING MATERIAL DO PRESSEVATI USED 1 1 HNOS	SIGNATURE DOES MOPE TUBING SAMPLE PRIVE ACCE	S Y N (%) RESERVATION OTAL VOL. 9 IN F 8:0 (%) None	FIELD FIGURE Pacod)	SAVELBIG INTERED TO PEC, prient T DUPLICATE STEND ANALYSIS A METHO B, Ca, C SO4, T bicadbot	1232 () NA () NA	SAMPLIN ENDED A FILTER S SAMPLAS GUIPMENT GROS	SAVINE PUMP FLOW BATE [III] PER MINUTE)
PANE PLANT OF SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	TURNO (AND PATRICE CONTAMINATION CONTAMINATI	M /Ge 23 ON PUM ER SPECIFICA DAT-RA CODE PP	osyntec P Y (Tich VC.UME 250mL	TuBING MATERIAL DO PRESSEVATI USED 1 1 HNOS	SIGNATURE DOES MOPE TUBING SAMPLE PRIVE ACCE	S Y N (%) RESERVATION OTAL VOL. 9 IN F 8:0 (%) None	FIELD FIGURE Pacod)	SAVELBIG INTERED TO PEC, prient T DUPLICATE STEND ANALYSIS A METHO B, Ca, C SO4, T bicadbot	1232 () NA () NA	SAMPLIN ENDED A FILTER S SAMPLAS GUIPMENT GROS	SAVINE PUMP FLOW BATE [III] PER MINUTE)
PLYPOR PLYPOR DEPTH (% FIELD DEC SAMP. SAMP. CA-5	TURNO TURNO TURNO TURNO TURNO CONTAM MATIN SEE CONTAMA CONTAMATRI 2	M /Ge 2-3 ON POW ER SPECIFICA WATER CODE PP	osyntec P Y (No.) TICN VC.UME 250mL	PRESERVAT USFD 1 1 HNOS	SIGNATURE DOES MOPPE TUBING SAMPLE PR IVE T ACCE	S Y N (%) RESERVATION OTAL VOL. 9 IN F 8:0 (%) None	FIELD FIGURE Pacod)	SAVELBIG INTERED TO PEC, prient T DUPLICATE STEND ANALYSIS A METHO B, Ca, C SO4, T bicadbot	1232 () NA () NA	SAMPLIN ENDED A FILTER S SAMPLAS GUIPMENT GROS	SAVINE PUMP FLOW BATE [III] PER MINUTE)
PANE PLANT OF SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	TURNO TURNO TURNO TURNO TURNO CONTAM MATIN SEE CONTAMA CONTAMATRI 2	M /Ge 23 ON PUM ER SPECIFICA DAT-RA CODE PP	osyntec P Y (No.) TICN VC.UME 250mL	PRESERVAT USFD 1 1 HNOS	SIGNATURE DOES MOPPE TUBING SAMPLE PR IVE T ACCE	S Y N (%) RESERVATION OTAL VOL. 9 IN F 8:0 (%) None	FIELD FIGURE Pacod)	SAVELBIG INTERED TO PEC, prient T DUPLICATE STEND ANALYSIS A METHO B, Ca, C SO4, T bicadbot	1232 () NA () NA	SAMPLIN ENDED A FILTER S SAMPLAS GUIPMENT GROS	SAVINE PUMP FLOW BATE [III] PER MINUTE)

 $\textbf{pH}(\pm 0.2 \text{ units. Temperature:} \pm 0.2 \text{ °C. Specific Conductance:} \pm 5\% \text{ Dissolved Oxygen: all readings} \pm 20\% \text{ saturation (see Table FS 2200-2)}.$ optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU; optionally \pm 5 NTU c \pm 10% (whichever is greater).

Revision Date: February 12, 2009

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CHILL FIG. FOR RANGE OF MARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3).

e 0	uBING WYETER (1	PLE ID	C	CR-6				DATE \$. 17 - 7	023
A C	WYETER:	3	_	PI					1994			
RGE: 1 WEU b'el ME PURGE:	WYETER:	3	-		JRGI	NG DAT	ГА			-		
ME PURGE:		= (TOTAL	716	WELL SCA О€РТН (€) ОЅРТН	• 46 001.12	28-%etBTD	C (See)	ti erro:	EPTH TO WATE G 9.12 WELL CAPACE	OR	RGE PUND T RANGER	P.P.
	1 EQUIPME	= (feet - VULUME 4	iTU97	NG CAPACIT	feet Y X) X	BING LENGTH)	gallons/for • FLOW GE	EL VOIUNE	gallons
CBMG — 2		NAL PUMP		galions 4	ر <u>وه.</u> 17ع	PURG.MI INDIATE	жиоск× Бат 6 ∕1	_	PURB YS ENDED AT	1016	TOTAL VOI PURGED (LIME
MR VOL ED PUR	ÇVE F GEO	PIIRGE RATE (gpm)	_	R (stan	dard	TEMP.	COND (circle un umhgs/s	i. vits)	DISSOLVED DXYGEN (circle units) (mg/L) or % saturation	TURBIDIT (NTUS)		
2 .4	æ .	.10	4.4	. 6.	40 .	13:23	348		0.36	8.42	clea	u · 1211.
		-10	٩.٨	6 61	ا ما ا	27.09	376	2	0.27	2.91	4 C(0	ur - 139
. •			9.1	6 60.	47	27.63		_	0.76		_	** 141
D 1.	70	1	9.1	6 6.4	40	27.08	387	2_	0.26	2-34	t (1	- 147
							(f	>r	ged e	dra	40 che	ar furl
ENT CODES:	(Gal./FL): B = Bai	1/8" = 0.000 iler, BP	6; 1 = 8'aos	216" = 0 00 :e: Pump; SA	ES MPL	147 = 0,0026 P = Electric S .ING DA	5/16 ubmars/D	= 0.0	04: 3/8" = 0 10: PP = Pe	006 1/2 nesa 30 Pum	p. D = O SAMPLIN	
. 27		TL		CODE	mac c					(N)	FILE ER S	
)	DUPLICATE	Y	<i>C</i> 3	
TAINER SPE	CIFICATION	·		SAMP	SE PAE	SERVATION					AMPLING	SAMPLE PAM FLOW RATE
EMS DOO	: 431	LUME	USS	υ .		IN FEELD (#	10 J	Н	OHTEN	D	CCDE	(mL per minuk
		GIRL	1.111	103		11216					444	~ 380
PF	'P 250mL		lo			None		·A	SO4, TD bicarbona	S Ibe.	1	1
										3		
SAMPU	ē Tw	ME:	(0)	∄								
	Gallons Per For CAPACITY ENT CODES WITH AFFILIAT TAINER SPEI HS DO PE	Gallons Per Footh: 0.75° A. CAPACITY (Gal/FL): ENT CODES: B = Ba NT1/ AFFILIATION I AS / GEOSY TAINER SPECIFICAT 03 ENS TOS: PP 25 PP 25 AG - Amber Case	GED PURGED RATE (SAIDING: (SPIN)) O	GED PURGED AATE (WATE (SE) (GAIDE) (GA	Gallons Per Foot): D.75" = 0.02. 1 = 0.04 1.25" A. CAPACITY (Gal /FL): 18" = 0.0006; D16" = 0.00 ENT CODES: B = Bailer; BP = Black Pump; SAMPLE TIME: 1.1 HINO3 PP 250mL Ice SAMPLE TIME: 1.0 17" AG - Amber Cass	### PIRGED RATE (Standard WATER (Standard WATER (Spin)) (Spin) (S	SED STATE STATE	SAMPLE TAME Standard CO Standard C	SAMPLE TAME 1 1 1 1 1 1 1 1 1	SED P.RGED PATE (MATER (MATER (MATER)	SAMPLE SAMP SAMPLER SAMPLER	SAMPLING DATA SAMPLER(S) SIGNATURE(S) SAMPLING DATA SA

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH; \pm 0,2 units. Temperature: \pm 0,2 °C. Specific Conductance: \pm 5% Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: \pm 1 readings \pm 20 NTU, optionally, \pm 5 NTU or \pm 10% (whichever is greater).

^{2 \$1}Abi. VARION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	aloud Ele	atria MOO	CCB			TE SOUTION LA	akelano, F				
		ctric MPP	CCR	SAMPLE			andian.u. i		DATE C	20-25	0
WELL NO	CCR-	+		SAMPLE		2 - 7	TA		DATE 8-	un	5
WELL		TUBING		er WE	LL SCAEEN	SING DA		S CEPTH TO WA	TER PUS	tge pump t	YFE
DIAMETER	(1:des) 2	- CAME	(FR (-nchos) 1	(CE)	Pin g P eet	* feetB	OC (Awk) B	105 9.45		TOUR PUMP T	PP
		1 WELL VOI	.UME = (TOT.	AL VYEIL DEF	TH - STA	TIC DEPTH	TO WATER:	X WELL CAPA	CITY		
Conty fill out			= (feet -		feet)	K Luchter - Etcher	gallons/foc	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANS	gallons
	1 VOLUME P	ŲRGE: 1 EĞU	IPMENT VOL			0014 _{pat}		Tuaing (Engh	m:••cowce m•• ⊘.1.	(x3)	6.426 galots
NITIAL PUR DEPTH (fee	MP DRITES W () BTOC /	23.7	FINAL FUV DEPTH (for	IP OR TUB NO	Ġ.	PURG	4G AFS	O DENIE		PURGED (tUME gelors)¶,₹2
TOME	VOLUME PURGED	COMOU VOICMS FURGED	PUAGE RATE	DEPTH TO WATER	pH Islandard	TEMP.	COND. (c-de u* 16 umhosicm or (uSicm		TURB 9IT		A ORP
71	(galons)	(gallers)	(gpm)	9:11				% saturation		. 0	_
1107	8.48	0.48	0.00	0.00	4.72	27.5	1449		10.7	coa.	
M27	1.2	1.68	0.06	9.47			148.3		11.4	11	1
1133	0.0	2 29		9,47		28.2	124.9	0.10	15:6	11	1
1157	1.2	3.48	0.06	9.47			1846		12.4	1 7	- 1
1207	0.0	4.08	0.00		4.93		157.3		13.9	_	
127+	1.2	5.28	0.00				158.8		12.4	11	\rightarrow
11887	4.2	9.48		9.47	5.00	77. 47.	173.0		12. G	11	
1831	0.12	9.60	0.00		4.99		173.2		12.7		1
1841	8.12	9.72	0.00	4.42	4.99	28.6	175.1	t .03	12.7		1
			-	_		1			1	_	
WELL CAP	ACITY (Gallor	ra Per Fool)).75" - C.C2	1" = 0.04,	1.25" = 0.0					6" = 1 67,	12" - 5.86
		PACITY (Gal./		0006; 3/16 BP - Placcer	" = 0.0014;	1147 = 0 000 50 - 64	26; 5/16T · Suome:sible	100000	Per state c Pum	*= 0.010; ** 0.= 0	S/81 = 0.016 Other (Specify)
PORGING	EQUIPMENT	COUCES. E	= Bailer;	Dr. Ivaduer		LING D		ang.	C. 020 1. 0		
		AFFQ:ATION:		SAMPLER:S				SAMPLING	ball	SAMPLIN	4G 5.4.20
Ou	a Holly	arabi Ge	osyntec	Oliv	Well	2006	Will.	IN TIATED	V419A1	ENCEDA	1849
PUMP OR 1 052: Hilled	TUBING	-23	7	TUBING MATERIAL C	ODE HOPE	s 0	F:F	LD-PAITERED alion Equipment	Y (N) Type N/A	r (TER S	31Zē ym
	ONTAMINAT	ON PUN	P V R		TURNS	_	eplaced:	COPUCATI		(N)	
		FR SPECIF CA	-		SAMPLE PI	RESERVATE	28	INTEN	CVD S	AMPLING	SAMPLE PUMP
SAMPLE	1	WATER4	VOLUME	PRESERVAT	TIVE	ICV PATOT	FIKA	MI MI 1 M		CODE	FLOWRATE (m), per mistate)
3,5504	DOMIANESE A A	PIP	Z50mL	9:1 HNO	_	Nore	(mL) g24 NA	874*	***	-	-
U-7	42		200					(2010(M	J. + 60LD	19:PY	4480
	1	PP	25GmL	!ce		Nane	NA.	SO4, SO4, SO4, SO4, SO4, SO4, SO4, SO4,	rds,	1	
يا	I	PP	750~1	Tec	1	Croi	NA			y	4
REMARKS	Szu	المعام	er k	રુવા કુટના							
MATERIAL	CODES	AG FATTOET		Clear Glass.		lycitylene		урунено Блай			Other (Specify)
SAMPLING	EQUIPMENT	r CODES:	499 - Af er Pe RPP = Hever	изватю Ритір se F ом Маназ	, B = 94 850 Pump.	tier, OP SM = Sirav	• Biagger Pum • Mainod (Tub	p. ESP = Ele ing Gravity Drain:	cina Submersit O a Olhe	de Puinp r (Speofy)	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 and a Temperature; \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygon: all readings \pm 20% saturation (see Table FS 2200-2), optionally, \pm 0.2 mg/, or \pm 10% (whichever is greater). Turbidity; all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STAB JIZATION CRITERIA FOR MANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

STE NAME LAI	keland Elec	etroe MPP (CCR			те Эсатіом L a	keland, Fl				
WELL NO	CCR			SAMPLE		R-8			DATE 3.	17.70.	2 °
	24,2					SING DA	TA				
WELL DIAMETER	(inches) Z.	TUBING DIAMET	ER (nches)	-7[te 061	LL SCALEN THE The	to B. TeetBT	DC (feet) B1		ORB	E PUMP TYP AILER:	₹ P. \$.
EQUIPMEN	* appreable; IT VOLUME PL		* (feet -		feet)	(WELL CAPACI X TUBING LENGTH)	gallons/foot		gallons
	*appicable)			= g	arkons - - «	6614 gais	ors/lost X = 7	চি (ees)	• • •	galors =	.149 ₅₀₁₀₀ ,
INITIAL PU DEPTH (fee	MP OR TUBING M) BTOC	⁶ س وبا	F: VA(_P(JM CEPTH (fee	IP OR TUBING KI BTOC	~ 24	PURG N	PO TAC	PURG 95 SADED AT	1115	FURGED (38)	ME 3.40
3Ubt	VÖLUMS PURGEO (gafors)	COMOL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTM TO WATER (feet)	pH (standæd units)	TEMP (°C)	GEND (profe on (6) µmhosicm or µS/cm	OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (N ¹ Us)	(descube)	
१६५७	. 50	.50	-10	9.34	6.58	26.79	367	0.38	23.8	clear	-4.0
1111	3.00	3.00	,10	9.34	6-68	26.93	380	0.2	5.17	_	
1113	.20	3.20		9.34	6.68	26.93		0 - 2-1	4.41	£(~ 59.0
1115	.70	3.40	-	9.34	6.67	26.94	381	0.22	3.97	- 11	-57.
WELL CAP	PACITY (Gallor, SIDE DIA, CAP	s Per Foxt) D ACITY (Gal./F	.76" = 0.04. t): 1/8" = 0.0	1" = 0.04; 0006; 3/16	1.25° = 0.0	IG; 27 = 0.1 1/47 = 0.002			The second secon	= 0.010; 5/	2° - 588 2° - 00°5
PURGING	EQUIPMENT C	ODES: B	⊆Bafer t	BP = Blacocr			Submersible P	umo pp - Po	staltic Pump	0 = 0th	er (Specify)
	BY (PRINT) I A		osyntec	SAMPLERIS	SIGNATUR	LING DA	ATA J	SAMPLING (NITIATED A)	ا۱۱۱ -	SAMPL NO ENDED AT	1120
PUMP OR		~ Z4	osymuc.	TUBING MATERIAL C	- 1	«		OF (TERED Y	N	PATER SIZ	€ <u></u> "m
DEPTH (Fe	ONTAMINATE		P V 🔞		TUBING		eplaced)	OUPLICATE	Y	(R)	
	LE CONTAINE					RESERVATIO		IM1CNC:	SC SA		SAMPLE PUMP
419MA2 2003 C:	DOMIANTES	WATERIA. 2006	VOLUME	PRESERVA*		TOTAL VOL EDIN FIELD (METHO	2	CODE	(nt per maute)
cc4-8	2	PP	250mL	1 1 HNQ	3	None	NA	(pp) D Metals	1 11	994	~380
CcR-B	F Ru) PP	25GmL	loc		Noné	NA	B. Ca. CI SQ4, TE bica:bon	DS, ate.	1	1
	_										
REMARKS		ue Tim	5. 11	110							
MATERIAL		AG : Ambert			PE = Pa	yeltyjena,	PP = Polyproj	gjere, \$ 7 Suci	one, Tie Tef	on 0 = 00	rer (Specify)
	GOUIPMENT	CDDES: A	PP = Алег Ра FPP = Reven	ostano Pulho le firavi Pensa	spa Purpo.	SM = Siraw	Bladder Pump	ESP = Executing Gravity Orain),	or. Sylomers, pa O ~ Oliner :	. Pump,	

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2), optionally, \pm 0.2 mg/L, or \pm 10% (which ever is greater). Turbiolity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (which ever is greater).

Revision Date: February 12, 2009

NOTES: 1. The above do not constitute all of the information required by Chapter \$2-180, F.A.C.

STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

S/TE MAME La	ikeland Ele	ectric MPF	COR			TE DOAT ON LE	keland, FL				
WSCUND	CER			SAMPLE		ce-9			DATE	8-17-7	1a23
	<u></u>					SING DA	TA				
	1 (1 -1 -2)		TER (mohes): LUME = (TOT	SUP DEB	TH - STA	toZZ TeetBTt	OC (leet) 6T0 DWATER: X		고 (P	ROF PLIMP 1 R BAILER	۲.۲.
	et volume a (diappicable)	URGE, 1 EQ	UIPMENT VOL			OPTY SER	_	JBING LENGTH	•	ELL SWILLIAMS	149 ₉₈₋₀₀
INITIAL PL	MP OR TURY el) BTDC	°~ 24	FINAL PUN DEPTH (fee	P OR TUBING		0:10/218		DuB/bik/S	1;44		Section 30
TIME	VOLCUF PURGED 194 lans)	COMPLI VOLUME PURGED (gallors)	PURGE RA75 (gom)	DEPTH TD YVATER (leet)	pM (standard unds)	TSMP. (² C)	COND. Icing our 's) jumposition or (uS/cm)	D SSOLVED OXYGEN (circle units) (mg/L) or % saturation	TUASIC NUTN)	₹ COLC	on cap
440	.50	.50	.10	10.23	5,24	28.435	3410	- ୧.୩୦	3.51	0.14	ar -707.9
1142	.70	- Fo		10.23	5, 29	28.64	2,408	0.94	2.2	[tl	-20.3
लुष्म	.20	.90	1	10.23	5.24	72,60	334 6	0.96	1.6	3 !!	- 212.
PURGING OF	ECMPMENT BY (PRINT) // AAT IA A.	PACITY (GA CODES: 6 AFF: LOCHON S /GI	ecsyntec	SAMPLER(\$)	SAMP	SP = E extro LING DA E(S):	6, S467 a Ós Subtrers bla Par ITA	304, 308°° - 0	erslatic Par	SAVACI.	
DEPTH (le		~~ CH		MATERIAL CO	OUS MOPE	8		in Equipment Ty	po N/A		
FIELD OF	CONTAMENAT	ON PU	UP Y (N)	TUBING	A (N te	eplaced)	DUPLICATE	Y	@	-
8AV 8AV418 010008	PLE CONTAIN CONTAINERS	UARRAL CODE	VC1UME	PRESERVAT:	VE	RESERVATIO TOTAL VOL ED IN FISLD (1)	FINAL	INTENDI AVALYSIS AI METHO	NC/CA !	SAMPLING EQUIPMENT CODE	SAMPLE FUMP FLOY/ RATE (ml. per minule)
cc2-9	2	PP	250mt.	1.1 hNO3		None	NA.	Coto Melak	~	APP	~ 380
car-9	2	PP	250mt.	tce		None	NA NA	6, Ca Cl \$04, 10 bicarbon alkalini	os ate,	1	1
					-						
							- V.				
REMARKS		te Tir	ne; !!	45							
MATERIAL		AC - Arros		C'ear Glass.	PE = Po	athylene,	PP = Polyprocy	ene. Šir Shoo	ze Til	enon, O-	Other (Spenty)
SAMPLING	O EQUIPMENT	C00€9	APP = After PA	usialic Pump.	B= 6a	on er	Bladder Pumo	ESP = Electr	וכ 8טאייפיא	Se Pump	

pH; ± 0.2 units. Temporature: + 0.2 °C. Specific Conductance: ± 5%. Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2). optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter \$2-150, F.A.C.
2. STAD HARTON CONTER A FOR RANGE OF MARATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

S-TE MADE L 98	eland Fle	ctric MPP (CCR			S(7)	s ATION LA	kelan	d FL					
WELL NO	CCR.			SAM	PLE ID		١١١١				DATE	A .1	8.20	23
	Call Maria	-(1			Pi		NG DA	TA					- (42)	
		TURING D:AVE1 1 WELL VOL	ER (inches); JME = (TO) :	716	WELL SCR	Seet I	TERVAL DetBT	oc (fe	eet) STC			PURGE OR BAIL	PUMP TYP LER:	° P. ₽.
EQUIPMEN		URGE: 1 EQUI	PMENT VOL	- PUUP 1		HBUT:	O CAPACIT	ry x		JBING LENSTH	+ FLOW	s"ba: + /GELL V	/OLUMÉ	,149 garlons
INITIAL PUI DEPTH (fee	MP OR TUBIN 0 OCT B ()	ب 23	FINAL PUN DEPTH (fee			23	120.004/2000	~		0000000	084	5 PG	WALLSON.	
TIME	VOLUME PURGLO Applicas	COMUL VOCUME FURBED (genions)	PURGE RATE (gom)	DERY TO WATE (feet)	Q (5%)		TEMP, (*O)	or fine (c. i.e.e.	un's; s/cm	OXYGEN (coole units) (mg/L) or % saturation	TURB (NT)		AOJOD Servesh;	08P (mV)
0814	.50	.50	,10	6.83	L 4.	18	25.73	47	35	2.93	27.	Į.	clean	- 709. 2
0827				40.9	2 4.	78	25.75	410	07	1.08	11.	9	н	-117.5
0841	3.20	3.20	.10	6.83	2. 4.3	? }	25.81	45	79	1.01	5	27	Clear	
0843	-20	3.40		6.87	2 4-	77	25.82	45	72	1.00	5.	42	. ti	- 229.
0 845	.70	3.60	1	b-87	2 4,5	77 :	25.82	HS	84	1-00	5.	6 7		- 249
TUBMG IM	ACITY (Galen SIDE DIA, CAI CQUIPINENT (is Per Font; Di PACITY (Ger F CODES: B	$() - 1/8^{\circ} + 0.3$	5" = 0 C/ 0006. 34 3P = 5 acc	/1 6" = 0.00 er Pump,	ES	1741 = 0 002 P = Exectno	6, s i Submes	• 3,97. 167 = 0.5 sible Pur	004 Jule 1 = 0	\$* = 1.02 (006) ensiste (1/27 = 0	C.C 9	2" = 5 RB 6" = 0.016 er (5pec fy)
_ 09	EY (PA NE) YA		osyntec	SAMPLE	R(S) SIGN		ING DA	ATA A		SAMPLING INITIATED A	- 03 ¹	16	SAMPLING ENDED AT	
PUMPICA 3	UBING	-23	_	TUBING		_				FATERED Y	N	0.0	FILT SR S Z	Έ <u></u> μΤ
CIEUD DEC	ONTAMINATIO		· · · (1)		ALCODE +	UNG		placed)	Firmale	OUPLICATE	pe N//		D	
		er specifica			SAME	15 PR	SERVAT C	N		INTENDI ANALYSIS A		SAME		SAMPLE PUMP FLOW RATE
C GOODE	SOMIANERS	WA*09AL 600H	VOLUME	PARSENY USE			OTAL VOL 2014 FIELD (2		FINAL	METMO	C	CO).DE	(mb per mirute)
CR-11	ą,	PP	256mL	1.1 H	NO3		None		NA	Goto Molak	: Foto	₩₽	P	~3B0
CR-11	2 PP 250mL loe						Noce		NA	B. Ca. CI SQ4, TO bicarbon alkalini	os. ate,	1		}
REMARKS	SAMA	25 Tim	E . AG	5410										
MATERIAL		AB - Amour (35 PE	- Powe	tryere.	PP = Po	th propyr	ere 5=Skc	one T	- Tailon,	0 = 0:	he: (Specify)
	ECHAPMENT	CODES: A	PP = After Pc	nsta be Pu	ლე წ	3 - Ba ¥	e. BP=	Bladde:	Pump.	ESP = Floor Gravity Dte ty.	ric Submi		Ump.	

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 52-160, F.A.C.

² STAR LIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME LA	keland Ele	eine MPP	CCR		gi'		ikeland, Fl				
		12-12		SAMPLE		V - 17			CATE	8-18-2	.7
	G			2		ING DA				0 16 -	
	LUME PURGE:		TEA (nohes)	(6 DLP		GetBT	OC (feet) B	OEPTH TO WA TOC 6.5 T X WELL CAPA		PURGE PUMP] OR RAILER	řő
CQUIPMEI	(if applicable) NT VOLUME PI (il applicable)	URGE: 1EQ	= (UNPLIENT VDL.				1680) TY X produci X 7	X TUB NG LENGTI		CELL VOLUME	gallons = ⊘ .4 <u>.3</u> = e3 lore
NITIAL PL	IMP OR TUBIN et) 9700 ~ (3.6	FINAL PUM DEPTH (fee	Pine Tuerko			5 AT 806			TOTAL VO	gallons 2.37
TIME	voluMS عرجان (ودناهور	CUMUL. VOLUME PHRGED (galors)	PURGE RATE (gpm)	OEPTH TO WATER (feet)	pH (standard unce)	TEMP (°C)	(tande anes) jumbos/em gr (uS/em)	C SSOCVED	TURA (%)		
410	2.56	2.56	2.04	6.72	6.58	20.6	1863	0.01	3.8	4 cla	er!
40_	0.48	2.64	0.04	6.72	358	Ublo	1860	10.0		8 "	
1114	0.00	237	0.04	6.72	€'2.8	26.6	1847	Ð.01	2.9	36 4	
			1								
				-							
_	-	-						1			
TUBENG II	PACITY (Gallor NSIDE DIA. CA EQUEPMENT (PACITY (Gai	/Ft): 1/87 = 0.0 B = Ba/er	BP = Bladder F	SAMP	SP = Electric	5 5/16" = Submires No F	0.004; 3/8" =	51 = 1,02 0,006 Per stable f	1/2" = 0.010;	12" + 5 88 5/8" = 0 016 3" er (Specify)
	BY (PRINT) //		eosyntec/	SAMPLER(S)	e G	Anto	W	SAVPLING INITIATED.		SAMPLI ENDED	11.00
PUMP OR	TUSHIS (4) Sen BTOC	~ 23	3.6	TUBING MATERIAL C	ODE MORE	s _		T) Fil TERED aton Scupment			5-ZE µm
HELD DE	CONTAN WATI	ON PU	Mb A CK)	TUBING	Y (NO	eplaced)	DUP, ICAY	E Y	(N)	
\$ AM \$AMPLC 12,000%	PLE CONTAIN CONTAINARS	PRISPECIFIC WATERAL CODE	VOLUME	PAESERVAT USED	9VE .	RESERVATIO TOTAL VIII. (DIN FIELO):	FINAL	AMALYSIS METH	AND:CR	SAMPLING CQU PMENT CODE	SAMPLE PUV: FLQVI RATE (mL per in hold
12-12	*2	PP	250mL	1 1 HNO		Nane	NA	Meta	12	App	2406
	5	₽₽	250mL	loé		None	NA	SO4, 7 bicarbo alkeli	rds,		
2-12	1	41	25o	ŦC4	N	me	N	Alko	liaile	4	1
REMARK:	5		leave								
	Szmpi	iggit an	1414								
	L COOLS	AG = Ambe	Gless, CG			yelhy'ene		pylane 3-51			Olhor (Spos N)
	G EDVIPMENT		APP = Atte: Pe REPP = Revers	se l'Iow Pensta	uso Purva.	SM = Straw		ng Gravity Chain;		om de Pump. Ome (Spepty)	

STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

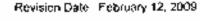
pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-Z) optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

SITE NAVE LA	keland Ele	ctric MPP	CGR			SIT	e cation La	kelai	nd, FL				
WELL NO	CCR-	13		SAN	MPLE J	CCR	- 13				этас	8.18.202	.3
	-				P	URG	ING DA	TA					
WELL CHAMETER	(inches) 2	TI, BINI DIAME	TER (noties)	3/12	DEPTH#	. Geel I	NTERVAL 28 Ge:810	ж II	(tee); DTC	EPTH TO WATE	01	JRGF PUMPT RBALER	YPE P. P.
jody filaul	ri applicable)		= (leel -	_			(001) X	WELL CAPAC	ça'lans"		ga ses
	iT VOLUME PL d applicable;	MRGE: 1 EQ1	JIPMENT VOL	. = PUMP			ing capacit ing 14 galo			RONG (ENGTH)	+ . I		1 49 pa ons
IN TIAL PU CLP7H (fee	MP OR TUBINO MI BTOC - F	टे कर	PRIAL PUR CEPTH (fe		BING A	-Z3	PURGIN NITIATE	TA 0.	09Z3		8932	PURGED (gallons) 90
TUE	VOLUME PURGED (galloris)	COMO. VOLUME PURGED (gallors)	PURGE RATE (SPP)	DEP1 10 WATE (lee*	R (12)	pH no and nos)	TEMP (C)	μmh μmh	OND a L VIS; losiom uSiom	DISSO; VFO OXYGEN (circle units) or (saturation	TURBIC (STC)		
0928	.50	.50	.10	7.3	5 4	.36	Z6.15		777	6.58	3.7	der .	
09.36	مد	.70	-	7.3			240.15		171	0.73	4.15		- 114.
0932	. 20	_ 9 0	1	7.3	5 4.	36	26-14	Z	770	8 75	5.2	O ti	- 114.
			+	-	-	-		_				_	_
			-		+	-			_			-	_
			-	-	_								
	ACITY (Gator-			4" = 0.0 coox = 2	H. 1.25 166" - 0.0	1 = 0.05 014	i 2" = 0.11 114" • 0.002		7 = 0 37. \$/16* = 0.1		5" - 1,02 306, 1/	6" • 1,47 2" = 0,0"0,	42" = 5.88 A3" = 0.016
	ЕСІЦЬРМЕНТ С		- Baler		der Pump.		SP - Eewo				inslatic Pu		Other (Specify)
							LING DA	TA					
	8Y (PRINT) / A ላል ችብ፣ <mark>ት</mark> ና		юзуптес		R(S) SIGN					SAMP: NO INITIATED AT	093	3 SAMPLII ENDED	\$ 093 <u>8</u>
PUMP OR THE		23		TUBING MATERIA	AL CODE	HDPE,	5			FILTERED V IN Equipment Typ	_	FILTERS	92E <u></u> ym
	OTAP NATIO	ON PLA	MP Y (10	BING	Y N (ne	paced		DUFLICATE	¥	OR .	
SAUS SAWS	LE CONTAINS	R SPECIFICA		PRESER			ESERVATIO		FINAL	INTENDE AMAS YSIS A	NE/OR	SAMP: NS EQUIPMENT	SAMPLE PLAIP TLOW RATE
2 JOSE	CONTAINERS	cc≻ PP	250mL		ED		None	ru	pH NA	Selp Metals	_	A A A	(m) perminule; → 386
CC 2-15		PP P	250mL	la la			Nan	+	NA	B, Ca, Cl,	£.	494	-4)80
Ce p - 13	PM	le			None		164	SQ4. TD bicarbons	S.	1	!		
	+			-				-					
					- 0								
REMARKS		LF 100	mE I	<i>ο</i> 93	3								
MATERIAL	CODES	AG = Amber	Glass, CG	Cieder G.	354. PE	= Poy	ermieno.	PP = F	olyprocy:	ель, 5 - S/ю	ne Ti	refor. O -	Orner (Specify)
SAMPLING	EQUIPMENT		APP = After P REPP = Rever			0 = Вас итр.			er Pumb a (Tuping	ESP = Electr Gravity Draint;		se Pump. er (Specty)	

NOTES: 1 The above do not constitute all of the information required by Chapter 52-150, F.A.C.

2 STAB LIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units. Temperature: ± 0.2 °C. Specific Conductance: ± 5% Dissolved Oxygen: all readings ± 20% saturation (see Table FS 2200-2) options by, ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all readings ± 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater).





SITE	keland Elec	rtric MPP	CCR			ITS DOATION LA	keland. FL				
WELL NO	CCR-			SAMPL		k- 15			DATE 8	-21-20	23
						SING DA	TA		O. III S. IIII S. C.		
WELL DIAMETER (riches) TUBING DIAWETER (riches) WELL SC DEPTH WELL VOLUME PURGE: 1 WELL VOLUME * (TOTAL WELL DEPTH -					PTHIS. Sec	REEN INTERVAL STATIC DEPTH TO			94 CHEALER F.P.		
lony Milost	UME PURGE: 4 3001080/8; IT VOLUME PU		= (feet -		feet) X		gallons/fo		gallons
lorky F Foot	*appscable;	- 300-00		×	galloms • ; "(oid gate	rs/lectX 3	5 (000	J(gallons :	7
INITIAL PUI DEPTH (fee	MP OR TUBING	23	FINAL PUN DEPTH (fer	IP OR TUBU IN BTOC	¹⁶ ~37	PURSING INDICATE	FILL 140	PURGING ENDED AT	1126	PURGED (24	
TIME	VOLUME PLAGED (snote)	CUMBL VOLUME PURGED (gallots)	PURGE RATE (gpm)	OEPTH TO MATER (leel)	on (slandard orea)	TEMP (°C)	cond. (circle units) µmhas/cm gr µS/cm	OXYGEN (circle units) (mg/L) or % saturation	TURBIDII (NTGs)		
1122	.50	.50	.10	16.9	3 294	28.41	121	1.69	5.40	clea	7.0
1124	. 26	-70	1	(6.98		28.4	[2]	1.65	5. le	APPLICATION AND ADDRESS OF THE PARTY OF THE	z.3
1126	.20	.90		16.98	3.97	26.44	[2]	1.61	5.6	3 11	1.6
						(ehre	wed to	مجادةطيتهم		in bu	er fo
						- 54	mpling	meta	\ 5 , -4	4-88 r	WILL)
_											PIN
TUBIKG IN PURGING I	ACITY (GA O1 SEDE DIA, CAP EQUIPMENT C	ODES: B	F() 1/8"=3	BP = 6966e	SAME	ESP - Electro PUNG DA	5 Submersible Pu	terror	5" = 1,02, 0.006; 1/2 Perists to Pun	r-0010 :	12" = 5.88 5/8" = 0.016 Ner (Specify)
-	ATTHOA		easyntec	K	SISIGNATUR	Final			ा ॥ १२		1135
PUMPICS DEPTH (les		-23		TURING *	CODE HOPE	.5).FILTERED Y on Equipment ?		FILTER S	ZE <u></u> 11"
FIELD DEC	OTAM MATIO	ON PUL	MP Y)	TUBING	A (N:4	epiaced)	DUPLICATE	Y		
SAUPLE	PLE GONTAINE # CONTAINES	WATERUT CODE	ATION VD:DMÉ	SAMP PRESERVATIVE		PLE PRESERVATION TOTAL VOL F AODED IN FIELD (mil.)		NTEND ANALYSIS A MS1P0	ANDAOR E	SAMPUND QUIPMENT CODE	SAMPLE PUMP FLOW RATE (M) per minule)
2#-1 5	2	PP	250mL	1:1 KM		None	NA NA	bold Metal	6. 667 0	494	~ 380
CR-15	2	₽₽	250mL	Ica		None	N/A	B. Ca. C SQ4, T bicarbor alkalin	DS. nate,	}	1
REMARKS											
NEWARKS			me:								
MATERIAL			Gʻass, EĞ			dyertywana atta		y'era 3-5 4	tone, T = F the Submers		Other (Specify)
SAMPUNI	S EQUIPMENT		APP = Affar P RSPP = Rever				Bladder Pwr.p Method (1 don	g Gravity Orain).		pr (Specify)	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5% Dissolved Oxygen; all readings \pm 20% saturation (see Table SS 2200-2), optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

	keland Ele	otric MPP	CCR		l l i r	reasies. La	keland, FL				
WELL NO	CCR-1		ÇON	SAMPLE		2R-14			DATE 1	8.16.7	7073
	CCF	<i>v</i>				ING DA					(¢¢.)
(och filovi EQUEPHEN		1 WELL YO	TER inchest. LUME - (TOT	3/16 DEP AL WELL DEP	LSCREEN THI∯. ¶Ges TH – STA feet –	NTFRVA) w28-49:810 TIC DEPTM I	STATIC L OC (loof) BTO FO WATER) X feet) X	DEPTH TO WATE DO 【らり】 WELL CAPAC DBING LENGTH	gallons/fo	LL VOLUME	gallons
	MP OR TUS N	-	FINAL DIE	= ga P CR TUBING	_	PURGIN		T	-	galons -	galors
DEPTH (fee	#) BTOC	~ 24	DEPTH (Yes		24	IN TIATE	ACI TAG	ENDED AT	1529	PURGED (2	alarsi 90
TIME	VOLUME PURGED (gallons)	COMOL, VOLUME PURGED Igal ons)	PURGE RATE (gpm)	CSATH TO WATER (feet)	pM (standard unds)	темР, ;÷С)	(cricle units) (cricle units) (cricle units) (cricle units) (cricle units) (cricle units)	O SSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBUDI (N Tus)		
1525	.50	.50	.10	15,48	4.14	28.91	9254	0.66	0.48	clea	r 47.9
1627	.20	.70	1	15.48		28.89	8246	0.63	1. (4		45.4
15 29	.20	.40	1	15.48	4.13	28.82	8241	0.59	2.50	11	43.8
SAMPLED IN PURSING E SAMPLED IN PURSON TO DEPTH (MA) F ELD DECC SAMP SAMPLE JOSE	M; BTOC ONTAMINA) - C PLE CONTAINE CONTAINS 48	FF : IATION /Ge FF : IATION /Ge ZJL ON PUN :R SPECIF C: VAIFRA. CODE	Ft) 1/8" = 0. I = Bailer; eosynlec ATKON VOLUME	BP - B 40001 F SAMPLER(S) R TUB NG MATERIAL C: PRESSAVAT USED	SAMP SIGNATUR SUPPE HE'SE TUBING SAVELE PO VE ADDS	SP = Electric LING DA E(S) Y NOT RESERVATIO TOTAL VO.	Sistement of Pu	SAMPLING SAMPLING NITIATED A FILTERED Y OF EQUIPTOR TY DUPLICATE INTEND ANALYSIS A METHO	T S 30	SAMPLINENDED A FILTER ST SAMPL MG QUIPMENT COGS	SAMP; E POW FLOW RATE (DL DE MODE
SAMPLED IN PURSING E SAMPLED I PURY OR 1 DEPTH (M) F ELD DEC SAMP SAMPLE	SIDE DÍA. CAP EQUIPMENT C BY (PR-NT) / A ATTH (AS TUBING M) BTOC ONTAMINA) - TUBIC CONTAINE CONTAMINA CONTAMINA	FF : IATION /Ge / ZJL ON PUN :R SPECIF C: VAIFRA. DOE PP	Ft) 1/8" = 0. I = Bailer; eosynlec ATKON VOLUME 250mL	SAMPLER(S) SAMPLER(S) TUB NG MATERIAL C: PRESSERVAT USED 1 1 HNO3	SAMP SIGNATUR SIGNATU	SP = Electric LING DA E(S) Y NOT RESERVATIO TOTAL VO. D.N FIELO : None	Submersible Pula TA F ELD F Hrabit Pula Filipa TI) Pilipa Pilipa NA	SAMPLING MITIATED A FILTERED A FILTERED TY OF EQUIPTER TY DUPLICATE MITEND ANALYSIS A METHO DOLD Meta:	DOOG: 1/2 Peristatic Puri	SAMPLIN ENDED A FILTER S'	58" = 2018
SAMPLED IN PURSING E SAMPLED IN PURSON TO DEPTH (MA) F ELD DECC SAMP SAMPLE JOSE	SIDE DÍA. CAP EQUIPMENT C BY (PR. NT) / A ATHLAS TUBING M(BTOC ONTAMINA) - PLE CONTAINE CONTAMINA)	FF : IATION /Ge FF : IATION /Ge ZJL ON PUN :R SPECIF C: VAIFRA. CODE	Ft) 1/8" = 0. I = Bailer; eosynlec ATKON VOLUME	SAMPLER(S) SAMPLER(S) FUB NG MATERIAL C: PRESERVAT USED	SAMP SIGNATUR SIGNATU	SP = Electric LING DA E(S) Y NOT RESERVATIO TOTAL VO.	Submersible Pula TA F ELD Epilabed; N Final, pH	SAMPLING MITIATED A FILTERED Y or Equipment Ty DUPLICATE MITEND ANALYSIS A METHO	0.006: 1/2 Peristatic Puri	SAMPLIN ENDED A FILTER S' SAMPL NG QUIPMENT COGE	SAMP; E PUM FLOW RATE (TO COMP OF MANOR
SAMPLED IN PURSING E SAMPLED IN PURSON TO DEPTH (MA) F ELD DECC SAMP SAMPLE JOSE	SIDE DÍA. CAP EQUIPMENT C BY (PR-NT) / A ATTH (AS TUBING M) BTOC ONTAMINA) - TUBIC CONTAINE CONTAMINA CONTAMINA	FF : IATION /Ge / ZJL ON PUN :R SPECIF C: VAIFRA. DOE PP	Ft) 1/8" = 0. I = Bailer; eosynlec ATKON VOLUME 250mL	SAMPLER(S) SAMPLER(S) TUB NG MATERIAL C: PRESSERVAT USED 1 1 HNO3	SAMP SIGNATUR SIGNATU	SP = Electric LING DA E(S) Y NOT RESERVATIO TOTAL VO. D.N FIELO : None	Submersible Pula TA F ELD F Hrabit Pula Filipa TI) Pilipa Pilipa NA	SAMPLING SAMPLING MITIATED A FILTERED Y OF EQUIPTOR TY DUPLICATE INTEND ANALYSIS A METHO BOLD Meta: B. Ca. C. SOA, TU bicarbon	0.006: 1/2 Peristatic Puri	SAMPLIN ENDED A FILTER S' SAMPL NG QUIPMENT COGE	SAMP; E PUM FLOW RATE (TO COMP OF MANOR
PURGING IN PURGING I SAMPLED I PURY OR T DEPTH IN F ELD DEC SAMP 1006 CR-16	SIDE DÍA. CAP EQUIPMENT C BY (PR-NT) / A ATTH AS TUBING M(BTOC ONTAMINA) - PLE CONTAINE CONTAMINA	FF : IATION /Ge / ZJL ON PUN :R SPECIF C: VAIFRA. DOE PP	Ft.) 1/8" = 0. I = Bailer; eosyntec ATION VOLUME 250mL	SAMPLER(S) LUB NG MATERIAL C: PRESSRVAT USED 1 1 HNO3	SAMP SIGNATUR SIGNATU	SP = Electric LING DA E(S) Y NOT RESERVATIO TOTAL VO. D.N FIELO : None	Submersible Pula TA F ELD F Hrabit Pula Filipa TI) Pilipa Pilipa NA	SAMPLING SAMPLING MITIATED A FILTERED Y OF EQUIPTOR TY DUPLICATE INTEND ANALYSIS A METHO BOLD Meta: B. Ca. C. SOA, TU bicarbon	0.006: 1/2 Peristatic Puri	SAMPLIN ENDED A FILTER S' SAMPL NG QUIPMENT COGE	SAMP; E PUMP FLOW RATE (DAY RATE (DAY RATE (DAY RATE)
SAMPLED IN PURSING E SAMPLED IN PURSON TO DEPTH (MA) F ELD DECC SAMP SAMPLE JOSE	SIDE DÍA. CAP EQUIPMENT C BY (PR-NT) / A ATHINAS TUBING M(BTOC ONTAMINA) -(COMMANDA COMMANDA	FF : IATION //Ge 7214 ON PUN	Ft.) 1/8" = 0. I = Bailer; eosyntec AP Y (E) ATKON VOLUME 250mL	SAMPLER(S) SAMPLER(S) TUB NG MATERIAL C: PRESSERVAT USED 1 1 HNO3	SAMP SIGNATUR SIGNATU	SP = Electric LING DA E(S) Y NOT RESERVATIO TOTAL VO. D.N FIELO : None	Submersible Pula TA F ELD F Hrabit Pula Filipa TI) Pilipa Pilipa NA	SAMPLING SAMPLING MITIATED A FILTERED Y OF EQUIPTOR TY DUPLICATE INTEND ANALYSIS A METHO BOLD Meta: B. Ca. C. SOA, TU bicarbon	0.006: 1/2 Peristatic Puri	SAMPLIN ENDED A FILTER S' SAMPL NG QUIPMENT COGE	SAMP; E PUMP FLOW RATE (DAY RATE (DAY RATE (DAY RATE)
PURGING IN PURGING I SAMPLED I PURY OR T DEPTH IN F ELD DEC SAMP 1006 CR-16	SIDE DÍA. CAP EQUIPMENT C BY (PR-NT) / A ATHIAS TUBING M) BTOC ONTAMINAN-C CONTAINE CONTAINE SAMP	FF : IATION /GE FF : IATION /GE TIN PUN R SPECIF C: VAIFRA. SCOTE PP	Ft.) 1/8" = 0. I = Bailer; eosyntec AP Y (E) ATKON VOLUME 250mL	SAMPLER(S) LUB NG MATERIAL C: PRESSRVAT USED LITHNOS	= 0.0014; lump; & SAMF SIGNATUR DDE HEPS TUBING SAVPLE PO	SP = Electric LING DA E(S) Y NOT RESERVATIO TOTAL VO. D.N FIELO : None	Submersible Pula TA F ELD F Hrabit Pula Filipa TI) Pilipa Pilipa NA	SAMPLING MITIATED A MI	0.006: 1/2 Peristatic Puri	SAMPLIN ENDED A FILTER S' SAMPLIN FILTER S' COUIPMENT COCE A P	SAMP; E PUM FLOW RATE (TO COMP OF MANOR

pH: \pm D 2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turthdity: all readings \pm 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 82-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SiTE	keland Ele	chic MDD	CCB			ITE NOA: Oac I S	keland, FL				
WELL NO	CCR-		CON	SAMPI		CR-17			DATE 🚓	16-20	2.3
MILLETTO	mp.m.	• •		Service :		GING DA				10 10	
	(nches) 12 UNC PURGE: L'applicable)		TER unches: LUME - (TOTA	Title De	LLL SCRZEN PTH \$. Weet PTH - STA	enterva; .o. ?å-le eirte	STATIC (DC (*tel; 8TH DWATER) X	WELL CAPAC	OR B	SE PUMP IY AILER	γ.γ.
	F VOLUME PI Papplica≫a)	JROE: 1 EQU	IPMENT VOL			BING CAPACI		UBING LENGTH,		. VO: UME	gatons 149 gatons
INITIAL PUR DEPTH (fee	ME OR TUBIN	~ 23	FINAL PUM DEPTH (%)	P CR FUBIN	^{iG} ~23	PURGIN INITIATE	G AT 1446	PURGING ENDED AT		TOTAL VOL PURGSO (9	UME do
TIME	VOLUMS PURGED (gallens)	CUMUL, VOLUME PURGED (gaions)	PURGE RATE (2000)	CEPTH TO WATER (Sect)	oM (srandard unds)	78WP. (20)	cond, (cree units) proposicm or (pS/cm)	D:SSO:VEO OXYGFN (circle units) (mg/L) ox % saturation	TURBIDATY (NT Us)		в сае
1451	,50	.50	-10	14.11	6.€3	28.92	1094	0,78	0.48	clea	x -10.3
1453	.10	. २०	- 4	14, 11	6.53	28,90	t093	8.74	0.58		-13.2
1455	. 20	.90	1	14.11	6.53	28.89	1094	0.72	0.74	tr tr	- 14.0
TUBANG IN:	ACHTY (Geloci SIDE DEA, CAS COMPINENT O	ACITY (Gas.)	13 13 - 00	17 = 0 04, 5006. Sine 3P - Blaccer	1.25° = 0.00 5° = 0.0014, Pump. B	1147 = 0.002		004, 3/8 1 = 0		- C.510.	121 = 5 88 531 - 0,016 (her (Specify)
7 011311101	and willing	3220.				LING DA					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
-	BY (PRINT) / A トイムてん!		osyntec	SAMPLER(S	SIGNATUR	E(S)		SAMPLING INITIATED AT	1456	SAMPUN ENCEDIA	
PUMP OR 1	UBING _	~ 23		TUBNS	COCE MOPE			FILTERLO Y		F: TER S	'ZE ,⊐
DEPTH (lee	ONTAM MATIC				TURING		eplaced)	on Equipment Ty DM PURCATE	pe NA Y	(R)	
	15 CONTAINS	R SPEC FIGA		PRESERVA	SAMPLE P	RESERVATIO		INTENDI ANALYSIS A	ED SA	MPLING C PMFNT	SAMPLE PUMP FLOW RATE
10000E	COLCAINERS	ODDA CODA	VO:UME	USED	ADIO	DIN FIELD (nij pH	METHO	D	56,00	(mL per = nu(e)
CCR-17	a	PP	250mL	1.1 HMC)3	None	NA.	Le to Melah	6670	APP	~ 380
ccr-17	J	PP	250mL	lca		None	NA.	B, Ce Cl SQ4, T0 bicarbon alkalini	is.	:	į
						300					
REMARKS				51-							
			e: 14								
MATERIAL		AG - Arrbei		CANGAIL			PP = Polypropy				haer (Specify)
SAMPLING	COUPMENT		NPIP = After Pe LFPP = Acvers				Bladder Pumb Method (Tubing		ro Sabinersiok Die Datierij		

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbirdity: a Froatings \pm 20 NTU, optionally \pm 5 26TU or \pm 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 62-150, F.A.C.

² STAB LIZATION CHITERIA FOR BANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAVE Lak	eland Ele	çtric MPP	CCR		SII		keland, FL				
WELL NO	CCR-1	B		SAMPLE	· C	R- 18			DATE 8	・セトセ	e23
					PURG	ING DA	TA				
WFIL O'AMETER			TER (notices):	File car		to 28 SetBTO	C (ree) 970	Antonia de la constanta de la	5 ORE	GE PIJMP TS BAILER	. 4. 9
(00 y 51 Out	(applicable)		LUME = (TOT = (feet -		feet) X	WELL CAPAC	gallons/foo		gallons
	T VOLUME PU (Lappinsacie)	URGE: 1 EQL	JIPMENT VOL			ING CAPACT ID[4] 9840	50 30	JBING LENGTH	01 h	endring Briding	.149 galoos
INITIAL PUI DEPTH (fee	MP CRITURY O BTOG	£ 23	FINAL PUN DEPTH (fee	MP OR TUBIS	~ 23	PURGING IN TIATE	DAT 143		स्यम्	TOTAL VO: PURGED (g	
TIME	VOLUME PURGEO (galons)	COMPL, VOLUVE PURGEO (galons)	PURGE RATE (gpm)	OEPTH TO WATER (Yeel)	gall (standard gode)	TEMP, (90)	ot (ng/cm) hmyoaycm (outry nu.a.) COND	D'SSOLVED OXYGEN (circle units) (mg/L) or % saturation	1URB 5:TO (NTUs)	v COLC idescrib	
(442	.50	. ഒ	,to	8.38	LAZ	74.73	વરમ	0.81	2 17	-	
ાપ મધ	-20	70	1	8.38	6,45	-	481	0.82			~ <i>[L]</i> .
1446	.20	.90	-	8.38	6.45	27.72	398	0.83	1.21	10	- 165
											1/2
			- 1						-	+	_
FUBENG IN	ACITY (Gallon SIDE DIA CAI COUP-MENT C	PACITY (Gal./	Ft) 1/8" = 0.	17 = 0,04 0006; 3/16 BP = Bladder		1/4 0.002	8; 5/16" = 0 Submaiaib € Pu				12" = 5.88 5/8" = 0.016 Per (Specify)
	BY (PRINT) - A		easyntec	/)•	SIGNATURE			SAMPLING VITIATED A	4447	SAMPLIN ENDED A	
PUMP OR 1 DEPTH (les	TUB NG	~ 23		TUBING MATERIAL C		5		FILTERED Y	(B)	FILTER S	IZE <u></u> . μπ
	ONTAM MATE		AP Y		TUBING		p-acod)	DUPLICATE		۵	
SAMP	LE CONTAIN!	ER SPEC FICA	ATION VOILING	PRESERVAT	TIVE 1	RESERVATIO	FINAL	:NTENO ANALYSIS A WETHO	INLIOR EC	AMPL &S QUIPMENT CODE	SAMPLE PUMP FLOW RATE Int per mouto
15 000Z	DMTAINERS Z.	2003 PP	250mL	1:1 HNO		None None	NA NA	Gold Metal		44A	~ 380
R-18	2	PΡ	250mL	lce		None	NeA	B, Ca, C SO4, T birarbor	DS.	1	1
								alkalın	ty		,
AFMAA KS	SOM	No -	ime i	1447-							
MATERIAL			Class CG:		PE - Pon	rettrylaine.	PP = iPolyptopy	lese, Si-Silo	one T-le	4ge, Q = 0	(the::Socaty)
	EQUIPMENT	CODES:	APP : After Po		B - 8a	er. BP =	6'accor Pump.		Ind Sabmersub	e Porty.	

pM: \pm 0/2 ands. Temperature: \pm 0/2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2), optionally, \pm 0/2 mg/L or \pm 10% (whichever is greater). Turbidity: all leadings \leq 20 N7U, optionally \pm 5 NTU or \pm 10% (whichever is greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 62-150, F.A.C.

2. STAB JIZA* ON CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

					20						
	keland Ele		CCR				keland FL				
WELL NO	CCR-	19		5AMP(E		18: 1ª			DATE 8	- 51-51	72-5
		Lauren		Luc		ING DA				e erest To	05
WELL C'AMÉTES	k (inches) Z		ER (nones)	"/([d 0EF	THE STEEL	to28 TetBTC	XG Medi; BTC		, ପ୍ରୟ	SE PLMP TY AILER	" #A.
	UME PURCE: I d'applicable;	1 WELL VOL	UNE = (TOT	AL WELL DEP	TH - STA	TIC DEPTH T	DWATER; X	WELL CAPACI	TY		
	NT VOLUME PL	IDCE: 1EQU	F (- B1MB100	leel -	INC CARACIT	lean X TY X Tu	RENGLEMOTH)	63 KM64001	AUTO CILLED	galkos
	i it app cable;	MQE. TEQU	J-MERIT FOL		-	SOL 4 Sallo		112		45.444	149 Jalons
INITIAL PL	IMP OR TUB N	· _	FINAL PUN	P OR TUB NO	,	D-100 N	_	DUBGUE		TOTAL VDM	ILEC .
05624 lie	eti 9TOC 1	~23	DEPTH (fe		~23	STATING	рат (34)	TA DBCKB	1405	PURGEO (ga	ilons): 1.40
TUE	VOLUME PURGED (gallors)	COMUL, VOLUME PURGED (galors)	PURGE RATE (gpm)	DEPTH TO MATER ('edl)	pH (standard (415)	TEMP. (FC)	(COND (CYCSE L*15) jumbosicm or (JS/cm)	OXYGEN (citale units) (mg/L) or % esturation	TURBIDITY (NTCs)	COLOR (describe	
1351	-320	M) 53-	.10	57.15	4.62	27.80	5445	1.55	12.9	Clea	C-172.0
			_	-				A . E	1 7/		- 47 - T
1044	1.20	1.50	.10	5.15	100	28.70		0.62	1.26		-176.3
1405	.10	1.90	1	5.15	4.59	28.77	4902	0.58	0.97		-176.8
(afa B	.70	1.40	-	5.19	TIVE	20.03	1401	0.9 4	0.17		1.6-6
										1	
					4.845	**	48 - 0.17	11 - 0 - 0	(0 - 10) 6	7-147	77 - 5 00
	PACITY (Garlon 4540E DIA CAR			47 = 0 04 0006 3/167	1.25° • 0.06 = 0.0014	2° - 0 16 1/4° = 0 0024					27:588 /87:00:8
PURCUNC	EQUIPMENT C	ODES: 8	= Bailer,	BP = Bladder F			Submersible Pur	#p. PΦ ≠ P€	kistalijo Pump	0 = 02	wy (Specify)
SAMPLED	8Y (28 NT) / 8	FÉILIATION		SAMPLER(S)		LING DA	IA	de Noville D		EANIDUR 6	
_	MATHIA		osyntec	R	ZON	Much	ind	SAMPLING INITIATED AT	1406	SAMPLING ENDED AT	
PL WP QH	TUBING ,	L23		TUBING MATERIAL C	ODE HDØF	۹ _		FILTERED Y or Equipment Typ	N/A	FILTER S 2	te iv pm
DEPTH (fe	CONTAMINAT S			_	TUR NG		-4-114.4	THE EMPTY NEW 13	1.17	(D)	
		JHI PUM	Р У 🧖		1440-444	T (N : H	pieced;)	QUPUCATE	Y		
SAM	NE CONTAINS					ESERVATION		OUPLICATE INTENCS	SA C	MPLAG	SAMPLE PUMP
SAMPLE	1	R SPECIF CA		PRESERVA?	SAMPLE PR	ESERVATION	N FINAL	_	SA SA	$\overline{}$	SAMPLE PUMP FLOW RATE (or), per monue)
		R SPECIF CA	TION		SAMPLE PR	ESERVATION	N FINAL	INTENCS ANALYSIS AI	O SA ND-OR EQI	MPL AG JIPMENT	FLOW RATE (m), per minuse)
SAMPL:	SONTANESS	R SPECIF CA WARREN	VOLUME	PRESERVAT	SAMPLE PR	ESERVATION THAL WILL DIN FIELD (m	N FINAL OH	INTENCS ANALYSIS AI METHOR B, Ca, CI,	SA ND-OR EQI 0 EQI	MPL NG JIPMENT COUE	FLOWRATE
SAMPL:	50414AF85	R SPECIF CA VAISH AS COOS PP	VÖLUME 250mL	PRESERVAT USED 1.1 HNO	SAMPLE PR	ESERVATION THAL WILL DIN FIELD (m NONE	FINAL OH KA	INTENCS ANALYSIS AI METMO	SA SANDOR EQUID	MPL NG JIPMENT COUE	FLOW RATE (mulper minuse)
sum: 10001 119	50414AF85	R SPECIF CA VAISH AS COOS PP	VÖLUME 250mL	PRESERVAT USED 1.1 HNO	SAMPLE PR	ESERVATION THAL WILL DIN FIELD (m NONE	FINAL OH KA	INTENCE ANALYSIS AI METMO ANO Metals B, Ca, CI, SO4, TD bicarbons	SA SANDOR EQUID	MPL NG JIPMENT COUE	FLOW RATE (m), per minuse)
sum: 10001 119	50414AF85	R SPECIF CA VAISH AS COOS PP	VÖLUME 250mL	PRESERVAT USED 1.1 HNO	SAMPLE PR	ESERVATION THAL WILL DIN FIELD (m NONE	FINAL OH KA	INTENCE ANALYSIS AI METMO ANO Metals B, Ca, CI, SO4, TD bicarbons	SA SANDOR EQUID	MPL NG JIPMENT COUE	FLOW RATE (m), per minuse)
SAMPS: 100000 CR-19	2- 2-	R SPECIF CA VAISH AS COOS PP	VÖLUME 250mL	PRESERVAT USED 1.1 HNO	SAMPLE PR	ESERVATION THAL WILL DIN FIELD (m NONE	FINAL OH KA	INTENCE ANALYSIS AI METMO ANO Metals B, Ca, CI, SO4, TD bicarbons	SA SANDOR EQUID	MPL NG JIPMENT COUE	FLOW RATE (m), per minuse)
sum: 10001 14-19	2- 2-	R SPECIF CA VALLERAL CODE PP	VOLUME 250mL 250mL	PRESERVAT USED 1,1 HNO:	SAMPLE PRINTED TO ADDRESS	ESERVATION THAL WILL DIN FIELD (m NONE	FINAL OH KA	INTENCE ANALYSIS AI METMO ANO Metals B, Ca, CI, SO4, TD bicarbons	SA SANDOR EQUID	MPL NG JIPMENT COUE	FLOW RATE (m), per minure)
SAMPS: 100000 CR-19	2- 2- 3- 8-m	R SPECIF CA VAISH AS COOS PP	VOLUME 250mL 250mL	PRESERVATION USED 1.1 HNO:	SAMPLE PRINTED TO ADDRESS	ESERVATION (MIAL VIAL DIN FIELD (M NONB NONB	N FINAL OH NA	INTENCE ANALYSIS AI METMO ANO Metals B, Ca, CI, SO4, TD bicarbons	SA EQUIDADOR EQUIDADOR SA EQUID	MPL NG JIPMENT DOGE	PLOWRATE (et.) per marue) 380

ROTES: 1. The above do not constitute all of the information required by Chapter 82-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Ossolved Oxygen: a readings \pm 20% saturation (see Table F5.2200-2): optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU, options $y \pm$ 5 NTU or \pm 10% (whichever is greater).

Revision Date: February 12, 2009

^{2.} STAB JUNE CRITER & FOR RANGE OF VARIATION OF LAST THRUE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SI75	l-alaad Cla	alsia MBD	CCB			TE CATION L	ah alaas	4 E1					
WELL NO	keland Ele		COR	SAVPI		12-2	-	J, FL		DATE !	Q. 110	. 20	23
THELE HO	CCK-	-				ING DA		_					
WELL		Tes C	7	3/ W	SLL SCRESN	INTERVAL	ST		DEPTH TO WAT			PUMP TY	4.4 ^{aq}
C AVSTER		2 DIAME	a Terr (Jodyns) Lungs = 710T	AL WELL OF	PTH Seet			et;BT Su X	OC GAPAC		R BAII I	ER	F.F.
	il applicable;	1 14222 4 20	F (*0e: -			er X			nel =		98.005
	T VOLUME PL	JRGE [.] 1 EOL		+ PUMP y(NO CAPAC		Т	MTONS I DNIEU			DLUME	
(only in put	il applicable;				gallons • 1 • 5	##¥ gald	с нь/госк Х	3	S leel	· • [gallons i	.149 90 ors
IMPLATE PUR CEPAN dec	MP OR FUBIN	° ~ 23	F:NAL PUN DEPTH (fe	IF OR TUB.	16 ~23	PURGN	rs EDAT C	72	PURGING FNDED AT	073	ξ 70 eu	TAL VOL	OP. seels
2411(00	,,,,,,,,	COMUL		DEPTH			COV	J)	Ø SSQLVED				
TME	PURGEO	VOLUME PURGED	PURGE RATE	TO WATER	pH (standero	TEMP, (°C)	(orde u	Mcm	(circle units)	TURB 3		COLOR	
	(galfons)	(gallons)	(spm)	(leel	L 7 (S)		OL(PS	/cm)	(mg/L) or % saturation				
0734	.50	.50	.10	6.07				_	.29	3.00		C ea	
0736	.20	.70	+	6.07		25.41			3(34		- 14	7218.3
0738	. 20	, 9 0	-1-	6.07	5.00	25.40	427	29	. 34	3.6		ч	~ 215.4
			-	+	-					_	-		
		7	_		1						\rightarrow		
							-						
		. D. C		47 - 0.00	4.750 - 0.0	21-21	- 1-	- 0.37	45 - 0.55	ER 4.00	-	1.47;	121 = 5.88
TUBING IN	ACITY (Garde SIDE DIA, CAR	PACITY (Gal./	Ft): 4r8 - 0	1" = 0.04; 0006; 3/1	1.25" = C.C 6" = 0.0014;	1/4" = 0.002		16" - D		0.006; 1.	r z - 3,		5/8" = 0.016
PURGING	EDUIPMENT C	00ES: 8	= Bailer,	BP - 84308	- Britain State of Control	SP : Eindro		ibe Pu	ump; 🔑 - P	er stall c Pu	mp;	0 - 0	her (Specify)
SAMPLED	BY (PRINT) / A	FFILIAT.ON		SAMPLER	S) SIGNATUR	LING DA	RIA		SAMPLING		N 2	AMPLIN	5
_	MARSHA	400	osyntec	Ki	1.000	thin	4		INITIATED A	, 073°		A OSC P	
PUMP OR DEPTH (Inc.	TUB-NG	- 23		TUBING MATERIAL	CODE HOPS	s			Diffic TER ED I Y on Equipment Ty		F	ILTER ŠI	ZS
	ONTAM MATIO		P Y C		TUBNO		eplaced;)	DUPLICATE		0	D	
SAME	PLE CONTAINS	A 50EC-FICA	TICN		SAMPLE PE	RES ERVATIO	ON		INTENC		SAMP		SAUPLE PUMP
SAMPLE DISODE	E CONTAINERS	MATERIAL SODE	VOLUME.	PRESERVA		TOTAL VC.		Post. pH	ANALYS S A		EQUIP. COI		prominate (att per of oute)
CCR-70	1	PP	250ma	1.1 EN		None		PŁ4	Lor € Motals	- (+010	AF	4	~ 390
	3.	PP	250πL	Içe	_	Nore	\neg	R54	B. Ca, Cl				
ck-20	-,								SQ4, TO bicarbon alkalini	ate.	1		ł
REMARKS		٠.٠٠	e: 8	279									
MATERIAL			Gare GG:		ME = Par	rstryiene	ρ ρ • ρ ₁ ,	gár tiên	yere \$15%	000, T =	Te*on	0 = 0	ther (Spec Mi
	EQUIPMENT		APP = After Pe			er DP -	: Bledder I	Ритр.	ESP = Elect	na Sabraera	abla Pa	тр	1-bes 31
			WPP - Roven	e Flow Pens	ra le Pump	SM - Siraw	Melhod ((fubin;	g Grawity Drein)	0 - 0:	нк (Ви	Kalyri	

NDTES: 1. The above do not constitute all of the information required by Chapter 62-150, F.A.C.

pM: \pm 0.2 units. Temporature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2): optionally \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 NTU optionally \pm 5 NTU or \pm 10% (whichever is greater).

Revision Date: Fabruary 12, 2009

² STANTIZATION CHITCHIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE .					10.7	ITE .					
	kelarid Ele		CCR	_		DOATION L	akeland, FL	L			
WELL NO	CCa-	2.1		SAMPL		12-21			DATE 8	~ (8° - 2	.3
						SING DA					
WELL DIAMETER			ETER (inches)	16 CE	ELI SCREEN	TeetB	OC (feet) 91	100 7.5 3		RSE PUNP T BARLER 🌈	
	.UME PURĞE:	1 WELL VO	DLUME = (TOT	AL WELL DE	PTH - STA	TIC DEPTH	TO WATER)	X WELL CAPAC	ITY		
		ubce. 4 CO	UIPMENT VOL	- 0 Japan	feet -	DING CADAC	feet)	X TUBING LENGTH	gallons/fo	THE SHOW LINES	gallons
	:(320-(32)*)	ONGE. FEW	DIFMEN. FOE		ge ons + (O		arstoolX 7	7 ·*		gations	0.715
	IMP OR TUBY		FINAL PUN DEPTH (fee	IP OR TUBIN		D1107516	10 HIG	PURGING ENDED AT	1201	PURGED (CUME galonsi 2 . = 7
TIME	VOLUME PURGED Igallons)	CUMUL VÕLUME PURGED (gallora)		(ÆRTH TO WATER (Æet)	pH (standard on %)	TEMA.	cond, (projectits) µmhos/cm or(µS/cm)	C \$30.VED OXYGEN (circle units) (mg/L) or	7UB (80 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
173	0.42	0.42	0.06	-	627	27.9	2276	8. Saturation	354	cla	c\
1125	0.12		1006	7.57		27.9	2234	81.6	8.CA		
112.7	0.12	0.66	JO.00		C 16	28.1	7237	0.16	23.4		
127	3.6	1.760	0.00	757	6.24	30.3	2263	Dig	26.4	- 17	1
1147	8.6	1.8€	0.06	1.5	1.6.27	27.6	2278	80,6	8.86	- II	
152	D.3	2.10	0.06		1627		2281	0.04	6.10) //	1
1157	0.3	2.46			6.27	27.7	7783	0.03	5.60		1
<u> 1954</u>	0.12	2.58	0.06		6.27			0.03	5.78		1
1201	0.12	2.70	0.00	7.5	1627	276	2278	9.03	4.64	4 4	1
WELL CAD	ACITY (Gelor	C Do. Sacre	0.74* - 0.22	17 - 0.04	1 25" = 0.0	8 2" = C :	6, 3 1 = 0.37,	4' : C.65	5" = 1.02.	6" = 147	12": 5.88
			/F() 1/8T = 0 (COC6 3/18	7 = 0,00'4.	4147 + 0 000	e 5/16" - :	000s, 3/6" = a	2006 112	T • 0,010.	5-8" • 9.016
PURGRIG	EQUIPMENT (CODES: (9 r Barior 1	9P - Bladde:			Submersible Pi	ump #P=P	terata to Pur	> 0.0	Krer (Specify)
SAMPLED	@Y (PRINT) - A	AFFILIATION:		SAMPLER(S	SAMP SIGNATURE	LING DA	41A	- CANDON WID		SAMPLIN	10 .
	Holling			150m	Fre Cit	7400	week	SAMPLING DINITIATED A	- [201	ENDED	
PUMP OR	Tusing C	~23		TUBING	соре ноле.	·		D.F : TEREO Y		FALTER S	976 <u></u> -7
CSPTH (N	ONTAMINA II				TUB AC	-	erkaced)	OUP CATE		(M)	_
	PLE CONTAINS					ESERVATIO		IN7EAD	- 1	SAMPLING	SAMPLE PUMP
SAMME UCCOF	CONTAINERS	WA FRA:	VOLUME	PRESERVA:	TIVE	TÖTAL VOI 'D IN FIE: D	FINAL	ANALYSIS A METHO	NO/CR E	CODE	FLOW RATE (mulper minute)
2-24	* 2	₽ ₽	25 0 mL	I s HNO	>3	None	NA	Melai	s ja	pp	<400
	1	Þ₽	250mL	los		None	NA.	B, Ca, C SO4, Ti bicarbon elkelie	os, ate.		
4	1	PP	250ml	I.c.	^	Sone	Na	Altalia	ا م	V	1
DELLA BUCO											
HEMARKS S	ample	eal ar	1501								
MATERIAL	CODES	AG - Ambei	Guss. CG -	Clear Glass.	PE = For	renylene	PP = Palyprop	ytene Si-Suc	one. T - To	Mon. O-K	Binty (Specify)
SAMPLING	EQUIPMENT		APP - Any Pe				Bladder Pump. Mercod (Tubio	. ESP = Exect g Gravity Crain)	no Submers t O a Other	or Pump. r (Specify)	
			MERCH = Heyers	e - KWY Persi	e ac Pairp.	Sum - 0.199	reg . sea printer	guar yuser.	0.0.6	token IV	

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5% Dissolved Oxygen: all readings \pm 20% saturation (see Table FS 2200-2), optionally \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \pm 20 MTU, optionally \pm 5 NTU or \pm 10% (whichever \pm greater).

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

² STAB , CATION CRITERIA FOR SANCE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

NAME F SK	reland Ele	otric MPP	CCR		1 7	TE CATION L	skeland, FL				
WELL NO	ce-	22		SAMPLE	10 0	CR-	2.2		CASE 8	- 18 - 1	23
		-				SING DA					
WELL CIAMETER			ER (notes)	160 OE	LL SCREEN	HetB:	OC (feet) BTO	TAW OT HITPS) OH	RGE PUMP T BAILER	71°8 121⁄2
	UME PURGE: 1a(p)cabo)	1 WELL VOL	UME = (TOTA	WELL DEF		TAC CEPTM	OWATER: X	WELL CAPAC			
	T VOLUME PI	JRGE: 1 EQU	PMENT VOL.	n.	alloos e 1 🗫	and the	iTY X Tu	:9.YGLENGTH Z.73– :6eci	gallons/fo ; - FLOW CE ; - O. 1		_ 0.413 _ anton
INITIAL PUN DEPTH (feet	MP OR TUBIN	~23.6	FINAL PUMP DEPTH (feel	OR TUB YOU BTOC:	23.C	PURGIN INITIATI	15 AT (005		1010		LUME COS
JIME	VDLUME PURGED (gallera)	CUMBL, VCLUME PURGED (palons)	PUAGE RATE (gpm)	OEPTH TO WATER ("eol)	pH (slandard (c/ls)	TEMP (25)	COND (Orch arris) µmhosicm or µS/cm	DISSOLVED OXYGEN (citale units) (mg/L) ox % saturation	TOREST	Y 0000	
01 H	8.45	0.45	0.05	7.67	4.52			0.26	3.74	Coas	\checkmark
	OA.	0.53	6.0S				2345	0.21	3.79	1	1
1018	0.1	0.65	20.0	7.67	453	26.9	2754	0.17	3.78	"	+
										-	- 1
TUBING INS			1) 1/8* • Q Q;	\$7 = 0,64 XXX		1Mn = 0 00. SP = Electro	86 5/16T ± 0.0 Submersible Pun		5" = 1 02, 2006 1/2 enstallic Pum	6" = 1.47, " = 0.010; p 0 = 0	127 = 5,55 5/67 = 0,016 (mer (Specify)
				*****		LING D	1			_	
دنعنا(Stroft Ge		Du	SIGNATURE C	1/30	lhu	SAMPLING THATED A FITERED Y	1018		NG [02]
PUMP OR T CEPTH (feet		~23.6	-	MATERIALC	оре норе.	s		n Equipment Ty			
FIELD DEC	ONTAMINAT	CA PUMI	· (2)		TUB NG	Y (NI:	epteces)	OUPL CATE	Y	_®_	
SAVPLE		MATERIAL I		PAESEAVAT		OTAL VOL	FINAL	INSENC ANALYSIS A METMO	NDOS E	AMPLING DUPMENT CODE	SAMPLE PUN FLOW RATE (cfl per ind)
2-22	CONTAINERS 2	200E PP	250mL	1 1 HNO		None	mL; pH NA	Metal		Apr	2400
	1	₽₽	250mL	lce		Nore	NA	*B, Se, Cl SO4, Tr hicarbon	, F-, DS, etc,	1	
4	j	PØ '	180	T(o	N	9N=	ŊΔ	MK		¥	1
REMARKS	مینی ۶	pleat est	(0)	q.							

NOTES: 1. The above do not constitute all of the information required by Chapter 52-160, F.A.C.

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygon: all readings \leq 20% saturation (see Table F5 2200-2) options: y, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \leq 20 MTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

² STAR , 24" ION CRITISIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

	keland Ele	etric MPP (CCR		140	CATION LA	keland, FL				
WELL NO	CCR-	23		SAMPLE	□ CC	2-2	3		CATE &	-18-Z	3
					PURC	SING DA	TA				
WELL	(r#es) 2	TUBING			L SCREEN			жертн то учат ос. 44 ,5 5 7		RGE PUVP] Racien 📑	PPE PP
MELL VOL	UMF PURGE:	1 WELL VOLU	ER (inches) JME = /TOTA							Traction 1	F
	*applicable)		= (2000-		feet) X		gallons/fi	not a	gallor
	T VOLUME P	URGE: 1 EQU				NG CAPACIT OOM	יז א יד	S See		AND DESCRIPTION OF THE PARTY OF	0.405
INITIAL PUI DEPTH (fee	MP OR TUBIN	°-20	FINAL PUMP DEPTH (feet	OR TUBINO		_	SOTIS	PURGING ENDED AT	তব্যুক্ত	TOTAL VO	cUME galors) 🔿 , 🛭
7 WE	VOLUME PURGED (galors)	COMUL. VO: IME PURGED (gators)	PURDE RATE (gom)	DEPTH T⊙ WATER (leel)	Hg falandard (8)00u	TEMP. (*Cr	COND (c.se(s) µmhgatom or µStom	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBID (NTCs	ITY COLO	be) (mV)
122	0.42	042	0.06	4.76	4.92	27.4	1731	0.17	2.7	4 Clar	. 1
724	D.12	0.54	80.8			274	1728	0.15	3.63	3 #	-1
926	0.12	0.66	ಎಂ.೦	4.76	4.45	27.3	1726	0.12	5.8		/
									-	+	\rightarrow
		7									
TUBING IN		ns Per Foot): 0. PACITY (Gal/FI	1/8" = 0.2	1* • 0 04, 005; 3/16' P = 8.adder		1/4" = 0.002 SP • Енст-с	6; 5/16" = 0 Sider ereble Pi	70.00	51 = 1,02, 0 006; 1/ Perstanto Pu	6" - : 47. 2" = 0.010; mp; O - 0	12" = 5.88 5/8" = 0.016 Other (Specify)
PURGING IN	SIDE DIA. CA EQUEPMENT	PACITY (Gal /FI	1/8" = 0.3 Belor B	996; 3/16 P = Bladder l	Pump; £	1/4" - 0.002 SP - €#¢#¢ LING DA	6; 5/16" = 0 Sider ereble Pi	004, 3/8" = 1 mg; PP = F	0 006; 1/ Peristanto Pu	2" = 0.010; mp; 0 = 0	grå - 0.016 Direr (Specify)
TUBING IN PURGING I SAMPLED	BY (PRINT)	PACITY (Gal./FI CODES: B :	Belor, B	DOS; 3/16' P = B.adder SAMPLER(S	Pump; £	1/4" - 0.002 SP - €#¢#¢ LING DA	Sidererable Pro	mp; PP = F SAMPLING ISSINTED A	006: 1/ Perstante Pu	2" = 0.010; mp; 0 = 0 SAMPLII ENDED.	sr8~ 0.016 Direr (Specify) NG 스키국식
SAMPLED	SIDE DIA. CA EQUEPMENT I BY (PHINT) (1) TUBLIC	PACITY (Gal /FI	Belor, B	996; 3/16 P = Bladder l	Pump; £ SAMP SIGNATUR	SP · Electric LING DA	Sidererable Po	004, 3/8" = 1 mg; PP = F	006: 1/ Persiant Pu	2" = 0.010; mp; 0 = 0 SAMPLII ENDED.	srat - 0.016 Direr (Specify) NG 스키국식
SAMPLED SAMPLED SAMPLED DUMP OR CLETH (**)	SIDE DIA. CA EQUEPMENT I BY (PHINT) (1) TUBLIC	PACITY (Gal.FE CODES: B: AFF LIATION: AGBROAGE ~2	: Betar, B	SAMPLERIS	Pump; £ SAMP SIGNATUR	SP · Electric LING DA	Sidererable Po	mp: PP = F SAMPLING INSTINCTED A F + TERED Y	oos 1/ Persiante Pu	2" = 0.010; mp; 0 = 0 SAMPLII ENDED.	Br8 - 0.016 Direr (Specify)
SAMPLED SAMPLED PUMP OR CEPTHIS	EQUIPMENT I BY (PHINT) !! TUBLING EY BTOC ONTAMINATION	PACITY (Gal.F) CODES: B: AFF LIATION: AGENCIES COLUMN COLU	Syntec Control	SAMPLERIS SAMPLERIS CONG MATERIA, C	Pump; C SAMP SIGNATUR COE HOPE TUBING	SP · Electric LING DA E(S): Y NECESTRATE NECESTRAT	Sidererable Pro	SAMPLING INSTINCTED Y ON FQ. proces To OUPLICATE INTEND	0005; 1/ Perstatic Pu Perstatic Pu Perstatic Pu Perstatic Pu N/A	SAMPLING	BIB - 0.016 Other (Specify) NG CP3 4 SIZE 27
SAMPLED DEATH (SAMPLED SAMPLED DEATH (SAMPLED SAMPLE SAMPLE	BY PHINT IN TUBENCE ON TAMINATION	PACITY (Gal.FF CODES: B: AFF LIATION: AGE CON PUMP ER SPECIFICAT WATLA AL	Syntec Control	DOS: 116' P = B.adder SAMPLERIS: TOPING MATERIA: C	Pump; C SAMP SIGNATUR COE HOPE TUBING SAVALE PI	SP · ENGTE LING DA E(S): V N (r) RESERVAL O	State et al la constitución de l	SAMPLING INTERED Y ON FQ. DYNEST TO OUT	C 006; 1/2 Pursuate P	SAMPLII FILTER:	BON PLE PUN FLOW PLAT
SAMPLED DEATH IS SAMPLED SAMPLED DEATH IS SAMPLED SAMPLE DEATH IS SAMPLE DEATH	EQUIPMENT I BY (PHINT) !! TUBLING EY BTOC ONTAMINATION	PACITY (Galler CODES: B: AFF LIATION: AGAINAGE FULL GR. PUMP ER SPECIFICAT WATLE AT CODE	Syntec Control	SAMPLERIS SAMPLERIS CONG MATERIA, C	Pump; C SAMP SIGNATUR CDE HDPE TUBING SAVPLE PI TIVE ADDR	SP · Electric LING DA E(S): Y NECESTRATE NECESTRAT	State et al la constitución de l	SAMPLING INSTINCTED A OF TERED A OF TERED TO OUTLIGHTE INTEND ANALYS'S A WETE:	0005; 1/ Perstatic Pu Perstatic Pu N 2 C N N A Y EO N 2 C R N O C R	SAMPLII SAM	BON PLE PUN FLOW PLAT
SAMPLED DIAGONG SAMPLED DIAGONG DEATH (SAMPLE) SAMPLE SAMPLE	BY (PRINT) () BY (PRINT) () TUBING BY BTOC CONTAMINATION CONT	PACITY (Galler CODES: B: AFF LIATION: AGAINAGE FULL GR. PUMP ER SPECIFICAT WATLE AT CODE	Syntec Constitution of the	SAMPLERIS SAMPLERIS CONS MATERIAL C PRESERVAT USEO	Pump; C SAMP SIGNATUR CDE HDPE TUBING SAVPLE PI TIVE ADDR	SP - ENGT-C LING DA E(5): V N (70 ACC TAVACCA TO NI FIELD (1)	Sider en ble Por	SAMPLING INSTITUTED A FILERED Y ON FQ. PRODUCT OUPLISATE INTEND ANALYS'S / METI-: OUT / Metal	C 006; 1/ Perstatic Pur Person N/A yea N/A yea N/A yea N/A yea N/A yea N/A	SAMPLING FILTER S SAMPLING FOURPLENT CODE	SNBT = 0.016 Other (Specify) NG CP3 44 SIZE
SAMPLED DEATH IN SAMPLED DEATH IN SAMPLED SAMPLE DEATH IN SAMP	BY (PRINT) IN TUBENC CONTAMINATO PLE CONTAMINATO COLLANS AS TO COLLANS A	PACITY (Gal /F CODES: B: AFF LIATION: AGENCA ON PUMP ER SPECIFICAT WATLA AT CODE PP	D Syntec D S	SAMPLERIS SAMPLERIS KATERIA, C PRESERVAT USED 1 1 HNO	Pump; C SAMP SIGNATUR COE HOPE TUBING SAVALE PI TIVE ADDR	SP · Electric LING DA E(5): V N (70 RESSERVAT O	Sider en ble Pro	SAMPLING INSTINCTED A FILERED Y ON FQ. PREST TO OUPLISATE INTEND ANALYS'S / METE: O' Metal B. Ga, C SO4, Ti bicarbor	C 006; 1/ Perstatic Pu	SAMPLING FILTER S SAMPLING FOURPLENT CODE	SIZE
SAMPLED DEATH (%) SAMPLED DEATH (%) SAMPLED DECC	BY PRINT DO THE CONTAMINATION	PACITY (Gal /F CODES: B: AFF LIATION: AGRAPHA F-2 CM PUMP ER SPECIFICAT WATLA AI CODE PP PP	D Syntec D S	PRESERVAT USED 11 HNO	Pump; C SAMP SIGNATUR COE HUPE TUBING SAMPLE PI TIVE ADDE	SP - Electric LING DA E(S): V N(C) RESERVAT O TOTAL VOL D'N FIELD (Kore	State of the Post	SAMPLING INSTINATED A OF LIGHTED ANALYS S / METH: OF CO. C SO4, TI bicarbor alkalin	C 006; 1/ Perstatic Pu	SAMPLII ENDED. FILTER: SAMPLIVS FOURMENT CORE	SNBT - 0.016 Other (Specify) NG CP3-4 SIZE
SAMPLED DIAGNAPOR SAMPLED SAMP SAMP SAMP SAMP SAMP SAMP SAMP SAMP	BY (PRINT) () BY (PRINT) () PUBMO CONTAMINATION CONTAMINATION CONTAMINATION STATEMENT	PACITY (Gal /F CODES: B: AFF LIATION: AGENCA ON PUMP ER SPECIFICAT WATLA AT CODE PP	D Syntec (D Y NO	SAMPLERIS SAMPLERIS MATERIAL C PRESERVAT USED 1 1 HNO	Pump; C SAMP SIGNATUR COE HOPE TUBING SAVPLE PI TIVE ADDE	SP - Electric LING DA E(S): V N(C) RESERVAT O TOTAL VOL D'N FIELD (Kore	State of the Post	SAMPLING ISSTINATED A FITERED Y ON FQ. PRED TO OUPLISATE INTEND ANALYS'S / METLS OUT / Metal B. Go. C SO4, TI bicarbor elikalin	C 006; 1/2 Purstance Purst	SAMPLII SAMPLI	SIZE

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. Stabilization Criteria, For range of variation of Last three consecutive readings (see FS 2212, section 3)

pH: \pm 0.2 units. Temperature: \pm 0.2 °C. Specific Conductance: \pm 5%. Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2) optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater). Turbidity: all readings \leq 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater).

ste Name Läi	keland Ete	ctric MPP	CCR			ra cation Lat	keland FL				
WELL NO	sw-	\e_to		SAMPLE	מו	sw- 10	6		DATE (8-18-70	23
					PURC	ING DA	ŤΑ		000-10		
WELL DIAMETER			FFR (inches)	<i>"}/16</i> 0€P1		ICZB. MetBTC	C (feet) BT		5 DR	GE PUMPTY) BALLER	^የ - የ.ት.
(anly fill out	d applicable)		= , (,		fee'. –		(eet) X		ga konsifed		<u>salons</u>
	if volume ex if applicable;	JRĢE: 1EQU	IPMENT VO	L. = PUMP VÓLU = gal		ING SAPACIT 014 - 51'0'		UB.NG LENGTH			.149 eaches
NITIAL PU DEPTH (fee	MP OR TUS YOU A	23		MP OR TUBING eel: BTOC:	~ 23	PURGING MITIATE	DAT 1024		1424	TOTAL VOLU FURGED (pa	ME Horis) 13.75
TIME	VOLUME PURGED Igg/ans)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gom;	CEPTH TO WATER Ifeet)	pH (standard profis)	TENA. (°C)	COND Idroeun's: jumbostom of juStom	OXYGEN (circle units) (mg/L) or % saturation	TURBIDIT INTUS;	Y COLOR (describe) (mV)
1029	.50	.50	.10		5.67	26.17	127	0.45	83-1	C(out	- 21.1
1059	3.50	3.60	.10	11-42		35. +1	119	6.30	20.9	Clear	-74.0
		(1)	wened.	to .05 q	1m) ((M)					
1420	10.05	13.55	,05		₹.4₺	25.44	108	0.23	8.92	clou	-29.4
1422	. [0	13.65	1	11.42	5.45	25.42	LOB	8.27	9.47		- 78.5
1424	. 10	13-7-5	1	11.47	5.44	25.40	108	0.27	9.48	ıt.	~ Z7.6
	ACITY (Gallon SIDE DIA, CAI				1.251 - 0.0 = 0.0014	6. 2" = 0.16 147 = 0.0026					87 = 5,88 27 = 5,88
PURGING	EQUIPMENT C	ODES: B	= 8e'ar.	BP = Bladder P.			Submersible Pu	л¢. РР⊾Р	ei stanio Purte	o. O∈Chi	ег (Бресеу)
SAMPLED	9Y (PR-NT) / A	FF LIATION		SAMPLER(S) S	Control of the last of the las	LING DA	HA	CAMPI NO		EAMBLING	
_	ላ ተፖ ት ነ	100-	osyntec	Ri	EMS	Etim	2	SAMPL NG INITIATED A		SAMPLING ENDED AT	14.22
PLIMP OR T		- 23	115	MATERIAL CO	ЭЕ НОРС.	5		Mr.CRERED Y on Equipment Ty		FILTER S:2	E hu
FrEUD DEC	ONTAMINATE	ON PUM	ν (D.	TUBING	Y (N;re	placed)	(CUPLICATE	Y	(N)	
SAME SAUPLE	LE CONTAINE	R SPECIFICA		PRESERVATA		RESERVATION	N F NAL	INTEND ANALYSIS A	NC/OR E	DUPMENT	SAMPLE PUMP FLOWHATE
40 CODE	CONTAINERS	0008	VOLUME	USED	ACCE	DIN FIELD (Hg tic	QL THO		COD€	(tot bet remain)
406	a.	ÞÞ	250mL	1.1 PN03		Nono	N.A.	Meiah	r	-bb	~ 380 19
ω-10φ	2	₽₽	250:nL	lce		None	NA.	9. Ca. Ci SO4 TI bicarbon alkalini	DS. ate,]	1
REMARKS	Sam	ple Tim	e: V	425	-						
MATERIAL		AG = Amber	Üass C G	r Crear Glass.	PE - Poly		PP = Polypropy				he: (Specify)
SAMPLING	EQUIPMENT			Persialtic Pump. Pso Flow Ponsiac	6 • Ba c Pump		Blaccer Pump. Method (Tubwo	ESP = Elect Granty Drac)	rk Submersio ० २ ०७११		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pM: ± 0.2 units. Temperature: ± 0.2 °C. Specific Conductance: ± 5%. Olssolved Oxygen: a *:eadings ≤ 20% saturation (see Table FS 2200-2) options by, ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: at leadings ≤ 20 NTU, options by ± 5 NTU or ± 10% (whichever is greater).

^{2.} STABLIZATION CRITER A FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

bedrift I al					51						
MANY LON	keland Elec	etric MPP	CCR	_	LC.	CATION La	ikeland, F	L	_		
WELL NO	Fish	1240		SAMPLE	In Fist	n Lu	Le		PATE 8	-21-7	13
						SING DA		ser Level		Abm CAB	
WELL DIAMETER	ATT TORKY	TUBING	ER (inches):	DEP	L SCREEN	NTERVAL to feetST4		TOG 129.58		RGE PUMP 1 BAILÉR	"PP
								X WELL CAPAC			
	il apolicable)		= (feet -		feet)		gallons/fo		ganor
A 14 Marco	T VOLUME PE	RCE: 1 EQU	PMENT VOL.	= PUMP VOL	UME + TUB	ING CAPAC	א אז	TUBING LENGTH	NI - FLOW C	Fill VOLUME	200
(and the con-	парриласти				ers • (ins/foot X	lee	ų•	gallons	= ganor
DEPTH (fee	MP OR TUBINO		F NAL PUM	P OR TUBING	1.13	PURCIN INITERT		→ BURGING ENDED AT		PURGED (
TIME	VOLUME PuRGEO (galors)	CUMUI VOLUME PURGED (gallors)	PURGE RATE IGEN:	COCONTER TO VANABLE (*ee:1	pM (standard umbs)	TEMP (PC)	COND. (c::0e:vn:5) µmhos/cm or (µS/cm	(ciccle units) (mg/L) or	TURA D: (NFUs	TV COLO	OR ORF
786				12958	7.91	30.10	773	% saturation	4,4	5 200	393
					,						
							T				
								-	-	_	_
			-					-	-	_	_
								-	+	_	_
									-	_	_
			-				_			-	
WELL CAP	ACITY (Gator)	Per Feel 0	J57 = 0.02	17 = 0.04.	1.25* • 0.0	8. 2* - 0 7	6 3*-0.3	7. 4"-065	5": 1 37,	B" - 1.47.	12" = 5,85
TUDING IN:	ACITY (Sator) SIDE DIA, CAP	ACITY (G8) IF	1; 167 = 3,0		1.25" = 0.00 = 0.0014	1/47 = 0.002	6 5/167 :	0,004, 381 -	G 0000 1/5	F - C C - C	5/8" - 0/016
TUDING IN:		ACITY (G8) IF	1; 167 = 3,0		= 0.0014 Pump, E	1/41 = 0 002 SP = Electric	6 5/161 : Submersible (0,004, 381 -		F - C C - C	
PURGING IN	SIDE DIA, CAP	ACITY (Galif ODES: B	1; 167 = 3,0	305 3/16° 3P = Slapcor A	= 0.0014 Pump, E	se = Electric LING DA	6 5/161 : Submersible (0,004, <u>0</u> /81 = 0 0,004, 0/9 = 1	ologe 1/3 Penalatic Por	r • c.c.c.c. cp.	\$/8" - 0,016 Diher (Specify)
PURGING IN:	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A	ACITY (G3) IF ODES B	ng ng n = og = Baver — B	305 3/16° 3P = Slapcor A	= 6,6014 Pump, E SAMP	SP = Electric LING DA	6 5/161 : Submersible (VTA	0,004, <u>0</u> /81 = 0 0,004, 0/9 = 1	ologe 1/3 Penalatic Por	F - C C - C	Ster - Gig16 Diher (Specify)
PURGING IN:	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A HANGES TOB NG	ACITY (G3) IF ODES B	ng ng n = og = Baver — B	SAMPER(S) TUBING	SAMP	SP = Electro LING DA	Submersible I	SAMPLING IN TIATED (CF), TERED	6004 1/0 Menala I c Pul NT 6995	r - 0.0-0 np.	Ser- Cote Diher (Spoolly)
SAMPLED IN	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A HSINGS TOB NG	FFILIATION	n; trans of Flavor of Osymbec	SAMPER(S) TUBING MATERIAL CO	SAMP SIGNATURE CODE MUPE	SP = Liectro LING DA	Submersible I	SAMPLING IN TIATED (CAF), TERED STORY TO THE	cios 10 Persia la Por AT ©95 V N Yoe N/A	7 SAMPLI ENDED	per-gate Diher (Specify)
PURGING E SAMPLED I PILMO OR 1 DEPTH (lee FIELD DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A	FEILIATION FOA FA	n; tre?=01 = Falor I osyntec	SAMPLE STANDARD FOR THE SAMPLE FOR T	SAMP SIGNATURE ODE NUPE TUBING	Pre = 0.002 SP = Electric LING DA	Submersible I	SAMPLING IN TIATED OUT; TERETH CUP; CATE	cicos 15 Persia i c Pui AT CO 9 5 T V N Y OR NVA	SAMPLE ENDED.	Differ (Specify)
PURGING B SAMPLED B DEMT OR T DEPTH (See SAMP SAMP	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A HSINGS TOB NG	FEILIATION FOA FA	n; trans of Favor to Osymbec P Y (A)	SAMPLE STANDARD FOR THE SAMPLE FOR T	E C CC 14 SAMP SIGNATURE ODE MUPE YUBING SAMPLE PR	SP = Liectro LING DA	Submersible I	SAMPLING IN TIATED CHECKTERED CUP: CATE INJENE ANALYSIS	Pensistic Por National Control of the Control of th	SAMPLING	Sign - Q.016 Other (Specify) NG MAT MAT SIZE
SAMPLED IN	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A HENTOS TO B NG TO B	FEILIATION FOR GEN TO A	n; tre?=01 = Falor I osyntec	SAMPER(S) SAMPER(S) TUBING MATERIAL CO	E 0.0014 Pump, E SAMP SIGNATURE ODE MUPE TUBING SAMPLE PR	9/4" = 0.002 SP = Electric LING DA (S) S Y N :re	G S/161 = Submers ble I	SAMPLING IN TIATED COE; TERED COE; TERED COE; CATE INSENT ANALYSIS META	Persianc Por Persianc Por V N V N V N V N V N V N V N V N V N V N	SAMPLING SAMPLING SAMPLING SAMPLING CODE	Set - 0.016 Diher (Specify) NG N H Size
SAMPLED IN	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A HENTOS TO B NG TO B	FFILIATION FOR A GEN R SPECIFICA WATER PP	n; 167 = 31 = Baler B OSyntec P Y (51 TICH VOLUME 250mL	SAMPLE SHADOOF F SAMPLE SHADOOF F SAMPLE SHADOOF F TUBING MATERIAL CO PRESERVATI USED 1 1 HWO	E 0.0014 Pump, E SAMP SIGNATURE ODE MUPE TUBING SAMPLE PR	PAP = 0.002 SP = Electric LING DA (S) Y N : N (SESERVATIO OTA:, VOL O IN FIELD IN	Submersible I	SAMPLING IN TIATED COE; TERED SIOT EQUIPMENT I CUP; CATE INTENT ANALYSIS WEIN WORL COUNTY HA	Pensistic Por National State Por	SAMPLING	Set - 0.016 Diher (Specify) NG N M Size
SAMPLED IN SAMPLED IN PRIMIT OR 1 DEPTH See SAMP SAMPSE IC COST	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A HENTOS TO B NG TO B	FFILIATION FOR GEN R SPECIFICA HATCH	e favor de construction de con	SAMPRIS SAMPRIS SAMPRIS TUBING MATERIAL CO PRESERVATI USEC	E 0.0014 Pump, E SAMP SIGNATURE ODE MUPE TUBING SAMPLE PR	PAP = 0.002 SP = Electric LING DA (S) Y N : N RESERVATIO O TA:, VOL O IN FIELD IV	Submersible I	SAMPLING IN TIATED COE; TERED COE; TERED COE; CATE INSENT ANALYS:S META	Persianc Por Persianc Por V N V N V N V N V N V N V N V N V N V N	SAMPLING SAMPLING SAMPLING SAMPLING CODE	SINT - G.016 Diher (Spoorly) NG N N N N N N N N N N N N N N N N N N
SAMPLED IN SAMPLED COOK	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A A S NO C S BTOC SONTAMENATION COACAPUTES.	FFILIATION FOR A GEN R SPECIFICA WATER PP	n; 167 = 31 = Baler B OSyntec P Y (51 TICH VOLUME 250mL	SAMPLE SHADOOF F SAMPLE SHADOOF F SAMPLE SHADOOF F TUBING MATERIAL CO PRESERVATI USED 1 1 HWO	E 0.0014 Pump, E SAMP SIGNATURE ODE MUPE TUBING SAMPLE PR	PAP = 0.002 SP = Electric LING DA (S) Y N : N (SESERVATIO OTA:, VOL O IN FIELD IN	Submersible I	SAMPLING IN TIATED COFF, TERFO SIOTEQUIPMENT I CUP; CATE INSENT ANALYSIS WEIN COPTO HA COPTO	Persianc Por Persianc Por V N V N V N V N V N V N V N V N V N V N	SAMPLING SAMPLING SAMPLING SAMPLING CODE	SAMPLE PUR FLOW RATE SAMPLE PUR FLOW RATE (on Lipst revolution)
PURGING IN SAMPLED IS PUMP OR 1 DEPTH (See SAMP S	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A A SING S TO B NG TO	FFILIATION FOAL GEN R SPECIFICA WATER PP	e; trish = 30 = Baller	SAMPLE SHADOOF F SAMPLE SHADOOF F SAMPLE SHADOOF F TUBING MATERIAL CO PRESERVATI USED 1 1 HWO	E 0.0014 Pump, E SAMP SIGNATURE ODE MUPE TUBING SAMPLE PR	PAP = 0.002 SP = Electric LING DA (S) Y N : N (SESERVATIO OTA:, VOL O IN FIELD IN	Submersible I	SAMPLING IN TIATED COFF, TERFO SIOTEQUIPMENT I CUP; CATE INSENT ANALYSIS WEIN COPTO HA COPTO	Persianc Por Persianc Por V N V N V N V N V N V N V N V N V N V N	SAMPLING SAMPLING SAMPLING SAMPLING CODE	SAMPLE PUN FLOW PATE (SECOND)
PURGING IN SAMPLED IS PUMP OR 1 DEPTH (See SAMP S	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A HISTORY CONTAMENTATION CONTAMENTATION CONTAMENTATION 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FFILIATION FOAL GEN R SPECIFICA WATER PP	e favor de construir de constru	SAMPLE SHADOOF F	E 0.0014 SAMP SIGNATURE ODE MUPE TUBING SAMPLE PRIVE ADDE	Prening Day SPELICATION S Y N IN RESERVATION TOTAL VOLIDING None	Submersible (TA FIEI Princes) N F MAI NA NA	SAMPLING IN TIATED COFF, TERFO SIOTEQUIPMENT I CUP; CATE INSENT ANALYSIS WEIN COPTO HA COPTO	Persianc Por Persianc Por V N V N V N V N V N V N V N V N V N V N	SAMPLING SAMPLING SAMPLING SOL PMENT CODE APP	SAMPLE PUM FACURATE SAMPLE PUM FACURATE (all per monut

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: ± 0.2 units. Temperature: ± 0.2 °C. Specific Conductance: ± 5% Dissolved Oxygen; all roadings ≤ 20% satural on (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater). Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater).

Revision Date: February 12, 2009

² STAR LIZATION CRITERIA FOR RANSE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

VELL NO			CCR		L L	OCATION L	akeland, FL				
	late	D		SAMPLE	10 L	ele D)		0A75 S	3-21-	23
	- 01000 0100				PUR	GING DA	TA WAL	elever	m (193	C	
VELL		TUBIN	•	1,000	LL SCREEN	INTERVAL	STATE	DEPTH TO WAY		URGE PUMP	TYPE PE
PART TEN			10 to (100/105)		LIN LOG		CC (feet) DT	00 120.3	2 0	HABAITER	-
anly fill out	Lifapplicable)	1 WELL VO	LUME - (TO	TAL WELL DE	TH - ST/	TIC DEPTH	TO WATER) X	WELL CAPAC)ITY		
	,,50		-		feet -		feet) X		gallons	floot =	gal
QUIPMEN	iT VOLUME P	URGE: 1 EQ	uipment vo	L = PUMP VO	LUME + TU	BING CAPAC	ITY X T	UB NG LENGTH			
, j	opp-caute)			- 0	anons + (gall	ons/foot X	fee		gallons	
OTIAL POP	MP CRITUBIN	G	FINAL PU	MP OR TUBIN		PURGN	www.marketa.co.put.ac.	PL 96 NB			
EPH+ ++ce		-	DEPTH (man and the same		ENDEU AT		FURGEU	
		COMUL		HEPTH.	non (m		COND	O SSOLVED	_		
TIME	VOLUME	VOLUME	FURGE	10-	Pri	TEMP	(C)(CC ((0.78)	OXYGEN	TURBIL	OITY COM	OR GRA
	PURGED (gakons)	PURGED	RATE	HATER	(slandard www.rs)	(₀ C)	pr(µS/cm)	(circle units) (mg/L) or	INTE		
	(ga-c-1s)	(ge one)	(Ether)	((00)	• • • •		hi (cadi)	% saturation			
29				120.32	6.34	29.LA	503	1.02	4.1	o cle	or -143
					421-1	77.00	007	7.02	1	U Care	or 745
									-		-
			-								
						6					
			1	+ -					-	_	_
_			_	_							
						-					
										_	_
-			-	1						_	_
FLL CASI	MÖITY (Galloca	BALEANI I	111-15	17 = 0.04;	4.059	4					
JBING INS	SIDE DIA. CAP	2 1 400 1 May 11 1	8 FD 7 D 00	1 - 0.0%;	1 25" - 0.00						
		ACITY (Gal./	Ft): 1/8" = 0	0006: 3/16"	= 0.0014:		and the second second		5" = 1.62.	6" = 447 71 = 0.010	12" : 5.88
INGING E	QUIPMENT C	ACITY (Gal./	Ft): 1/8" = 0		= 0.0014; ump: E	1.4 0.002	6 5/16" = 0.	004; 3/8" = 0	.006; 1	ZT = 0.010	\$/8" - 0.01B
INGING E	QUIPMENT C	ACITY (Gal./	Ft): 1/8" = 0	0006, 3/16" 6P - Backer P	ump; E	1.41° = 0.002 S.P. = E:ecing	5, 5/16" = 0. Submersybic Pur	004; 3/8" = 0		ZT = 0.010	7.77.175.75.71.
Santa Co		ODES: 8	Ft): 1/8" = 0	6P - Backer P	SAMP	SP = Election LING DA	5, 5/16" = 0. Submersybic Pur	004; 3/8 ⁴ = 0 mp; PP = ρ ₁	.006; 1	ZT = 0.010	\$/8" - 0.01B
MPLED B	Y (PRINT) / A	ODES: 8	Ft): 1/8" = 0 = Baik*.		SAMP	SP = Election LING DA	5, 5/16" = 0. Submersybic Pur	004; 3/8" = 0 mp; PP = Po	to alla tic Pu	T = 0.010 mp; O = 0	\$r8* - 0.018 Differ (Specify)
WPLED B	Y (PRINT) / AI	ODES: 8	Ft) 1/8"=0 = Barky. Osyntec	6P - Backer P	SAMP	SP = Election LING DA	Submersible Pur	SAMPLING	.006; 1/ tralate Pu , <i>K</i> O3 €	SAMP(1) FNDE0	Side - 0.018 Direc (Specify)
MPLED B	P (PRINT) / AI	ODES: 8	Ft) 1/8"=0 = Barky. Osyntec	6P - Backer P	SAMP SIGNATURE	SP = Electric LING DA	Suprierybie Pur	SAMPLING	1006; 1/ tralate Pu r 103 (SAMP(1) FNDE0	\$r8* - 0.018 Differ (Specify)
MPLED B LIVI . L MP OR TI SYTH (feet	Y (PRINT) / AI HOLLINGS UBINS (BTOC	ODES: 8 FFILIATION: /Ge	Ft): 1/8" = 0 = Barky. Osyntec	SAMPLER(S) TUBING MATERIAL CO	SAMP SIGNATURE DOE HOPE	IMP = 0.002 SP = Electron LING DA (S) S	Submersible Pur	SAMPLING TyITIATED AT FRITERED Y TO Equipment Ty	to all a tic Pu	SAMP, 11 FNDED 6	Side - 0.018 Direc (Specify)
MPLED B Live , L N/P OR TI SPTH (feet	EY (PRINT) / AI HOLLINGS UBIN 3 () BTOC ON TAMINATIO	FFILIATION: /Ge	Ft): 1/8" = 0 = Barky, Osyntec	SAMPLER(S) TUBING MATERIAL CC	SAMP SIGNATURE DOE HOPE TUBING	SP = E:ecing LING DA (S) S N :re	Submersuble Pur	SAMPLING	1006; 1/ tralate Pu r 103 (SAMP(1) FNDE0	Side - 0.018 Direc (Specify)
MPLED B LIVE - L MP OR TH SPTH (feet E.O DECC SAMPL	P (PRINT) / AI PO LINGS UBIN 3 UBTOC DN TAMINATIO F CONTAINE	FFILIATION: FFILI	Ft): 1/8" = 0 = Barky, Osyntec	SAMPLER(S) FUBING MATERIAL CO	SAMP SIGNATURE COLUMN SIGNATURE COLUMN SIGNATURE TUBING SAMPLE PR	SP = Electron LING DA SS S Y N (10) ESSERVATION	Submersible Pur TA Figure Fixuals pages;	SAMPLING DITIATED AT FR. TEREC Y P. Equipment Tyl O'JFEICATE N'ENDE	(N) N/A	SAMPLING	SAWPLE PUR
MPLED B LIVE & L MP OR TH PTH (feet E.O DECC SAMPL MPLE	EY (PRINT) / AI LIBIN 3 () BTGC DN TAMINATIO F CONTA NE	FFILIATION: /Ge FFILIATION: /Ge PUN R SPECIFICA MATERIAL	Ft): 1/8" = 0 = Barky, Osyntec	SAMPLER(S) TUBING MATERIAL CO	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PR	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VG.	Submersible Pur TA Figure Figure Fixalo Bacec;	SAMPLING THITIATED AT FRIEREC Y DESCRIPTION OFFERDATE NIENDE ANALYSIS AN	to all a to Pu	SAMPLING	SAMPLE PUI
MPLED B NP OR THE SYTH (BOOK KO DECC SAMPLE OUCE (C	EY (PRINT) / AI LIBIN 2 () BTGC ON JAMINATIO F CONTAINERS	FFILIATION: FFILI	Ft): 1/8" = 0 = BaikY, OSYNTEC A TOOK VOLUME	SAMPLER(S) TUBING MATERIAL CO PRESERVATI	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH	SAMPLING DITIATED AT FRITEREC Y DESCRIPTION OFFICATE NICENDE ANALYSIS AN VITHO	1008; 1/2 er ala 1< Pu per N/A Y	SAMPLING	SAWPLE PUI FLOW RAT (The purple of the purpl
MPLED B AVP OR THE SYTH (feet ELO DECC SAMPL MPLE CUES (6	EY (PRINT) / AI LIBIN 3 () BTGC DN TAMINATIO F CONTA NE	FFILIATION: FFILIATION: FOR /Ge PUN R SPECIFICA MATERIAL CODE	Ft): 1/8" = 0 = Barky, cosyntec 4	SAMPLER(S) TUBING MATERIAL CO	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VG.	Supmersuble Pur TA Figure Fitalio Bacac; N FINAL PH NA	SAMPLING DITIATED AT FR. TEREC Y TO Equipment Ty OUFFECATE NICENDE ANALYSIS AN WLTHOL	MONOR OF COMMENTS	SAMPLING EQUIPMENT CODE	SAWPLE PUI
MPLED B LIW . L Nº OR TI EPTH (feet EO DECC SAMPL MPLE CUSS (1	EY (PRINT) / AI LIBIN 2 () BTGC ON JAMINATIO F CONTAINERS	FFILIATION: FFILIATION: FOR /Ge PUN R SPECIFICA MATERIAL CODE	Ft): 1/8" = 0 = BaikY, OSYNTEC A TOOK VOLUME	SAMPLER(S) TUBING MATERIAL CO PRESERVATI	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING DITIATED AT FR. TEREC Y TO Equipment Ty OUFFECATE NICENDE ANALYSIS AN WLTHOL	MONOR OF COMMENTS	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOW RAT (The purple of the purpl
MPLED B NP OR THE SYTH (feet KO DECC SAMPLE SUDE (C	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	PP	Ft): 1/8" = 0 = Baiky, Osyntec 4	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Supmersuble Pur TA Figure Fitalio Bacac; N FINAL PH NA	SAMPLING DITIATED AT FR. TEREC Y TO Equipment Ty OUFFECATE NICENDE ANALYSIS AN WLTHOL	MONOR OF COMMENTS	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MPLED B LIW . L Nº OR TI EPTH (feet EO DECC SAMPL MPLE CUSS (1	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	PP	Ft): 1/8" = 0 = Baiky, Osyntec 4	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI
MPLED B LIW . L Nº OR TI EPTH (feet EO DECC SAMPL MPLE CUSS (1	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	PP	Ft): 1/8" = 0 = Baiky, Osyntec 4	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYFERCATE N/ENDE ANALYSIS AN N/1100 Metals COLUMN B. Go., CI,	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MPLED B LIW . L Nº OR TI EPTH (feet EO DECC SAMPL MPLE CUSS (1	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	PP	Ft): 1/8" = 0 = Baiky, Osyntec 4	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MPLED B LIW . L Nº OR TI EPTH (feet EO DECC SAMPL MPLE CUSS (1	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	PP	Ft): 1/8" = 0 = Baiky, Osyntec 4	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MPLED B LIW . L Nº OR TI EPTH (feet EO DECC SAMPL MPLE CUSS (1	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	PP	Ft): 1/8" = 0 = Baiky, Osyntec 4	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MPLED B LIW - L Nº OR TH ENTH (feet ELO CECC SAMPL MPLE CUDE (2 D)	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	PP	Ft): 1/8" = 0 = Baiky, Osyntec 4	SAMPLER(S) TUBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MARKS	EV (PRINT) / AI LIBIN 2 () BTCC DI TAMINATIO F CONTA NE CONTAINERS 2	FFILIATION: /Ge POWER R SPECIFICA MATERIAL COOF PP	Ft): 1/8" = 0 = Barky, OSYNTEC A TOON VOLUME 250mL	SAMPLER(S) TOBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MARKS	EV (PRINT) / AI LUBIN 2 () BTGC ON JAMINATIO OF CONTAINERS 2	FFILIATION: /Ge POWER R SPECIFICA MATERIAL COOF PP	Ft): 1/8" = 0 = Barky, OSYNTEC A TOON VOLUME 250mL	SAMPLER(S) TOBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	SP = E:ecing LING DA (S): Y N:m ESERVATION OTAL VC. DEN FIELD (n	Submersible Pur TA Figure Fritalio Bacec; N FINAL pH NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MOS COR	SAMPLING EQUIPMENT CODE	SAWPLE PUI FLOWRAT (mL perm r.,
MARKS	EV (PRINT) / AI HOLLINGS UBIN 2 () BTCC ONTAMINATIO F CONTA NE CONTAINERS 1	FFILIATION: /Ge POWER R SPECIFICA MATERIAL COOF PP	Ft) 1/8" = 0 = Barky, Osyntec A TOOK VOLUME 250mL	SAMPLER(S) TOBING MATERIAL CO PRESERVATI USED 11 HNO3	SAMP SIGNATURE DOE HOPE TUBING SAMPLE PA	IM* = 0.002 SP = Electro LING DA (S) Y None ESERVATION OTAL VC. DRN FIELD IN None	Submers by Pur Submers by Pur ITA Figure Fire line Submers Fire line Fire line NA NA NA	SAMPLING THIATED AT FRIEREC Y DEQUIPMENT TY CYPERCATE N/ENDE ANALYSIS AN N/17HOL Metals COLUMN B. Go., CI, COLUMN Decarboses	MONOR OF GO	SAMPLING EQUIPMENT CODE APP	SAWPLE PUI FLOWRAT (mL perm r.,

pH: $\underline{\bullet}$ 0.2 units. Temperature. $\underline{\bullet}$ 0.2 °C. Specific Conductance: $\underline{\bullet}$ 5% Dissolved Oxygen: all readings $\underline{\bullet}$ 20% saturation (see Table FS 2200-2), optionally, $\underline{\bullet}$ 0.2 nig/L or $\underline{\bullet}$ 10% (whichever is greater). Turbidity: all readings $\underline{\bullet}$ 20 NTU optionally $\underline{\bullet}$ 5 NTU or $\underline{\bullet}$ 10% (whichever is greater).

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

ELL NO	and Alakaharan II		leavic	SAMPLE	1	3 loles F		_	eco Porto	ATE &	118/2	2	
ELL NU					PURG	ING DAT		o de la companya del companya de la companya del companya de la co		- 0	11612	٠,	
		TUBING			+ SCREEN I	NTERVAL of to	STATE TO W	CDE	PTH	Pi	IRGE PUMP	Thomas	
ELL	(eches)	DIAMET	ER (nches) *	16 DEF	TH - STA	TIC DEPTH TO	O WATERD	X	WELL CAPACIT	_ OF		PP	
MELL VIOL	IME PURGE	WELL VOL	UME = (TOTA	C.MELL DES	141		4.77	-	WELL CAPACIT	Y	The state of the s	PP	
only fill out	f applicable)		*1	-	feet -	NG CAPAGE	feet)		NAME OF TAXABLE PARTY.	SECRET	- No.		
NO IPMEN	(T VOLUME PUR	ROE: 1 EQU	PHENT VOL.	* hOw- Act	The state of the s			100	HING LENGTH	FLOWC	ELL VOLUM	JE.	galions
jorly fit out	(applicable)				market with the same of the sa	Pongin	Contract of the laws		feet)		-	-	
	ME OR TUBING		THULBUM	P OR TUBIN	3	INITIATE			PURGING		TOTAL		gillone
DEPTH IN	MELT LINE		DEPTH IN			-	COND	7	ENDED AT DISSOLVED	_	PURGE	garor	100
TME	VOLUME PURGED (palors)	CUMUL. VOLUME PURGED (Quitorn)	PURGE RATE (gptf)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	(circle una umhos/or gr µS/or	6	GKYGEN (circle units) mg/L gr % saturation	TURBIO (NTU	иту со	LOR onbe)	ODOR/ ORP (mV)
	-	_	1		6.83	28.16	12		5.35	10			forel
1036		_	-				11,00		233	1.2	S ca	31	188.C
-			1								3100		7.00.000.00
			-					+					
			-	-				-					
			-	-	-			-					
			-	-	-			_					
					-								_
											-		
						-					_		
										-			
											_		
TUBING P	PACITY (Galon NSIDE DIA, CAR EQUIPMENT C	ACITY (Gal.		1" = 0.04, 0006 3/1 BP = Bladde	1.25" = 0 6" = 0.0014 r Pump; SAM	06; 2" = 0 114" = 0.00 ESP = Electric PLING D	26: 546 Submersit	0	004; 3/8" = 0	5" = 1.02 006 1 Pristatic Pr	6" = 1.47 10" = 0.010 ump 0	58	= 5.88 = 0.016 (Specify)
SAMPLED	BY (PRINT) / A	FFLIATION		SAMPLER	5) SIGNATU		nin	-					2007010477
Dliv	is Halins	Kamon	3cosynes	Oller	wal.	How	MAN		SAMPLING INITIATED A	-103/	SAMP	LING	1029
PUMP OF	HTURING		S	TUBING			OI	FIELD	FILTERED. W	1	-		1038
DEPTH IN	(WELL (loot)		-	MATERIAL		DIE		Fifrati	on Equipment Ty	De N	FILTE	R SIZE	pm
bridge on least	CONTAMINATION	ON PU	mb A C	/	TUBING		(replaced)		DUPLICATE		(4)		
_													
SAM	IPLE CONTAINS	production below to	CATION			VATION (India	ding wet ice	0	INTEND	ED	SAME OF	S 1 400	MOVE TO S
-		MATERIAL	VOLUME	PRESERV	ATIVE	TOTAL VOI	ding wet ice	NAL.	ANALYSIS A	NDIOR	SAMPLING		MPLE PUMP FLOW RATE
SAMPLE SAMPLE	CONTANERS	production below to	VOLUME	PRESERV	ATIVE AD	TOTAL VOL	ding wet ice	INAL pH	ANALYSIS A METHO	NDIOR 00	CODE	et i	FLOW RATE
SAMPLE ID CODE	CONTANERS 2	MATERIAL CODE PP	VOLUME 250ml	ANO.	ADI	TOTAL VOL	(mL)	NAL DH 2	ANALYSIS A METHO	NDIOR DO DEP	EQUIPMEN	er (e	FLOW RATE nl. per minute
SAMPLE 10 CODE	CONTANERS	MATERIAL DODE	VOLUME	PRESERV	ADI	TOTAL VOL	(mL)	INAL pH	ANALYSIS A METHO	NDIOR DO DEP	CODE	er (n	FLOW RATE NL per minute N / IA
SAMPLE 10 CODE	CONTANERS 2	MATERIAL CODE PP	VOLUME 250ml	ANO.	ADI	TOTAL VOL	(mL)	NAL DH 2	ANALYSIS A METHO	NDIOR DO DEP	EQB/PY	er (n	FLOW RATE nl. per minute
SAMPLE 10 CODE	CONTANERS 2	MATERIAL CODE PP	VOLUME 250ml	ANO.	ADI	TOTAL VOL	(mL)	NAL DH 2	ANALYSIS A METHO	NDIOR DO DEP	EQB/PY	er (n	nt per minute; N /M
SAMPLE 10 CODE	CONTANERS 2	MATERIAL CODE PP	VOLUME 250ml	ANO.	ADI	TOTAL VOL	(mL)	NAL DH 2	ANALYSIS A METHO	NDIOR DO DEP	EQB/PY	er (n	FLOW RATE nL per minute N / IA
SAMPLE 0 CODE Blank	CONTANERS 2	MATERIAL CODE PP	VOLUME 250ml	ANO.	ADI	TOTAL VOL	(mL)	NAL DH 2	ANALYSIS A METHO	NDIOR DO DEP	EQB/PY	er (n	FLOW RATE nL per minute N / IA
SAMPLE 0 CODE Blank	CONTANERS 2	MATERIAL CODE PP	VOLUME 250ml	ANO.	ADI	TOTAL VOL	(mL)	NAL DH 2	ANALYSIS A METHO	NDIOR DO DEP	EQB/PY	er (n	FLOW RATE NL per minute N / IA
SAMPLE ID CODE Howk //	CONTANERS	MATERIAL COOSE PV	VOLUME 250ml 250ml	PRESERV USET ANO. T.C.	ADI ADI	TOTAL VOL	(mL)	NAL DH 2	ANALYSIS A METHO	NDIOR DO DEP	EQB/PY	er (n	FLOW RATE NL per minute N / IA
SAMPLE ID CODE Howk //	CONTANERS 2	MATERIAL DODGE PYP	VOLUME 25 Om 1 25 Om 1	PRESERV USEI ANO ILL	ATIVE AD	TOTAL VOL	(m) F	NAL PH 2	ANALYSIS METHO GOLO IN C CL.F.SC	NDOR DO DO CONSTRUCTION OF THE PARTY. IN TOS	EQB/PY	(T (n	FLOW RATE N. per minute N. M.
SAMPLE D CODE D CODE D CODE REMARK	CONTANERS 2 1	MATERIAL DOGE PP PP AG - Ambu S - Sitton	VOLUME 25 Om 1 2 SOm 1 2 SOm 1 2 SOm 1	PRESERV USEI A.NO. T.C.C	ATIVE AD	TOTAL VOL	(m) F	NAL PH 2	ANALYSIS A METHO	NDOR DO DO CONSTRUCTION OF THE PARTY. IN TOS	EQB/PY	(T (n	FLOW RATE nL per minute N / IA
SAMPLE ID CODE TO CODE TO CODE REMARK:	CONTANERS	MATERIAL DOGE PP PP AG - Ambu S - Sitton	VOLUME 25 Om 1 25 Om 1	PRESERV USET ANO. Table	ATIVE ADI	TOTAL VOLDED IN FIELD	ty Polyethyla	NAL DH 2 14	ANALYSIS AMETING GOLD IN STATE OF SCIENCE LOPE = Low C	NDIOR DO TOP MEASA* L TOS	EQB/PY	PP = F	FLOW RATE N. per minute N. / IA N. / IA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

62-160.800 F.A.C.

Revision Date: January 2017

Geosyntec^D

Water Level Measurement Field Form

Site: Lakeland Electric CCR Wells

Project No.: FR3715F/01/****/123B

West	the 8-14-23 ther clear	Page 1			
Well ID	Status/Comments	Control Print	Time of Measurement	Seasurement Depth to Water	
CR-1	good	N	1115	9.05	
CCR-2	900d	1	1105	9.10	
CCR-3	8×		0129	5.76	
CCR-4	good		0986	14,41	
CCR-5	9004		0938	1067	
CCR-6	good		1335	9.07	
CCR-7	dood		1332	9.30	
CCR-8	good		1325	9.23	
CCR-9	alood		1320	10.07	
CCR-10R	good		1317	3,17	
CCR-11	good		1314	7.09	
CCR-12	god		1304	6.61	
CCR-13	doed		1756	7,41	
CCR-14	dood		1245	7.35	
CCR-15	6000		1054	16.99	
CCR-16	Good		1046	16.99	
CCR-17	Spool		1041		
CCR-18	good		1329	8.21	
CCR-19	abool		1389	5.27	
CCR-20	good		1311	6.27	
CCR-21	good		13.00	7,56	
CCR-22	good		1301	7.72	
CCR-23	ඉතිනු මූලේ	-	1249	4.53	
SW-100	god	A	1012	11.10	

Notes				

APPENDIX B Well Development Summary Report





3 October 2023

Mr. Sean McGinnis, CHMM Lakeland Electric Environmental Coordinator Environmental Affairs

Subject: Well Development Summary Report

C.D. McIntosh Power Plant 3030 East Lake Parker Drive Lakeland, Florida 33805 Facility ID #95247

Dear Mr. McGinnis:

On behalf of Lakeland Electric (LE), Geosyntec Consultants, Inc. (Geosyntec) prepared this Well Development Summary Report to detail groundwater monitoring well development activities conducted in July 2023 at the C.D. McIntosh Power Plant (Site). The scope of work completed is detailed in the following sections.

SCOPE OF WORK COMPLETED

The scope of work for the field activities completed between 18 July 2023 and 20 July 2023 included the following:

- Development of six (6) groundwater monitoring wells (CCR-9, CCR-11, CCR-13, CCR-15, and CCR-20) associated with LE's coal combustion residuals (CCR) groundwater compliance program.
- Development of one (1) groundwater monitoring well (MW-26S) associated with LE's Conditions of Certification (PA74-06 Attachment D) groundwater compliance program.

FIELD ACTIVITIES

Groundwater Monitoring Well Development

Geosyntec performed a multi-method development technique to remove accumulated sediment collected in monitoring well sumps as well as precipitated compounds (iron, etc.) that build up over time and adhere to a well's screened interval and surrounding filter pack area. The two

development methods utilized combine the use of a Waterra Hydrolift (Waterra) inertial pump and a Whale Mega Purger electronic submersible pump (ESP). At the start of well development the static water level and depth to bottom were measured and recorded on a well development log (Attachment A). Initially, the Waterra pump was utilized to remove sediment accumulation from the well sump and agitate the well screen and surrounding filter pack. The Waterra pump creates an oscillatory flow pattern into and out of the well screened area via a surge block affixed to the high density polyethylene (HDPE) tubing deployed in the well. The HDPE tubing with surge block assembly was placed just above the well terminus and then pumped for 2 to 3 minutes. After the pumping time interval was reached, pumping was stopped and the tubing and surge block assembly depth adjusted in 4-inch intervals (the pump actuation range of the Waterra pump) vertically then pumping restarted. This was repeated until the length of the well screened interval had been developed. Development water was collected into a 5-gallon bucket to record the total volume of water purged during this step.

Next, the Waterra pump and tubing assembly were removed, and the ESP pump was deployed slightly above the bottom of the well. The monitoring well was purged at 1-foot intervals from the bottom of the well to the top of water column to remove suspended sediment in the water column and filter pack area. Flow rate, depth to water, purge volume, and turbidity were measured at approximate 3-minute intervals during ESP development and recorded on the well development log (Attachment A). Wells were developed until optimal turbidity measurements were observed except for wells SW-106 and MW-26S due to slow well recharge causing the wells to purge dry. When these wells purged dry, pumping was stopped to allow the wells to recharge and then recommenced until purged dry again. This process was repeated several times at each location. Despite not reaching optimal turbidity levels at these wells, turbidity measurements decreased during development. A final depth to bottom was recorded at the end of each well development period identifying the amount of sediment removed from the bottom of each well. A photographic log documenting the redevelopment process is included as Attachment B.

CLOSING

If you have any questions of require additional information, please do not hesitate to contact Luke Varner at 904.334.9007 or Lane Dorman at 850.449.4369.

Mr. Sean McGinnis 3 October 2023 Page 3

Sincerely,

GEOSYNTEC CONSULTANTS

Luke Varner, GIT(FL) Scientist

cc:

Mr. Thomas Johnston – Lakeland Electric

Mr. Todd Kafka - Geosyntec

Attachments

A – Well Development Logs

B – Photographic Log

Lane Dorman, P.G.(FL)
Principal Hydrogeologist

ATTACHMENT A Well Development Logs

Geosyntec D

Well Development Log

Monitoring Well: CCR - 9 Well Condition: good Initial Depth to Water (ft): good Initial Depth to Bottom (ft): good Initial Depth to Water (ft): good Initial Depth to Bottom (ft): good Initial Depth to Water (ft): good Initial Depth to Water (ft): good Initial Depth to Water (ft): good Initial Depth to Bottom (ft): good Initial Depth to Water (ft): good Initial Depth to Bottom (ft): good Initial Depth to Water (ft): good Initial Depth to Bottom (ft): good Initial Good Initial I	
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Well Diameter (in):	
Final Depth to Water (1): 26-58 (1, 42 Final Depth to Bottom (1): 28-51	
Final Depth to Water (ft): 25-58 9.42 Final Depth to Bottom (ft): 28-53 tark	
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12.32 56 13.09 43.55	leer
12	
12.52	
### 1302	
1312	
1322	
1332 2.44 13.47 9.12 clear 1342 2.52 13.51 7.17 clear 1352 2.80 13.52 2.10 clear 1402 2.308 13.56 13.83 clear 1409 32.7.6 13.57 2.89 clear 1412 336 13.97 1.67 clear 1415 3.44.4 13.58 1.74 Describe Development Method (e.g., puntping, surging, instrumentation mad volume removed, rest periods, problems, deviations from plan, etc.) 105: water, on , 0 1501/m 14.14.14.14.14 105: Rung stop. White press or Mgal removed 122: Sub pump stept 132: Sub pump stept 134: Sub pump stept	
1342 252 13.51 717 Clear 1352 280 13.52 2.10 Clear 1402 308 13.56 13.83 Clear 1409 327.6 13.57 2.89 Clear 1412 336 13.57 1.67 Clear 1412 336 13.57 1.67 Clear 1412 8 344.4 13.58 1.74 Clear Describe Development Method (e.g., puntping, surging, instrumentation Intal volume removed, rest periods, problems, deviations from plan. etc.) 105: wateria on , O 1 gal/m 14 14 14 14 14 14 14 14 14 14 14 14 14	
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LANCE TO THE PARTY OF THE PARTY	
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Well Development Log

Site: L	aisdand <u> </u>	Decrese					Project	N0.:	
Moni	toring Well: I Condition:		-				[2]	Date; D (ppm);	7/19/23
	tial Depth to			19	-5	Initial De		ttom (ft):	28.57
		ameter (in):	7					Vater (ft):	
mi	diply heigh				r 4" well :				
	nal Depth to				=			utom (lt):	28-23
Lene	Filmy Rate (gal-inde)	Total Volume Removed (gal)	Depth to Water (ILBTOC)	Turbidty (ntu)	pH (SU)	Sp. Cond (inStant)	Temp. (f/Ci)	Dissolved Oxygen (hig/L)	Appearance of Water (onker, oder)
0901	2.8	28	8.82	34:20				7 - 8	clady/clear
0911	1	51	8.88	32.29					dest I don't
0921		84	8.95	17.81				- 9	clear
0431		1(2	8.94	10.55					clear
0941		140	8.94	24.80	-				clear
OISI		168	8.56	226	1				clear
tool		196	8.54	23.42					clear
1006		20	8.57	2.00					cleer
1009		218.4		1.37					Clear
1012			8.59	1.28					clees
10/5		235.2	8.59	1.08					Clost
1018		2436	8-60	1-29					dear
1021		252	8.60	1.19					deer
1024	18	260 4	8.61	1.01				5	elect
-	evelopment M			gine. Snyln	imenialion			Water Q	uality Meter
	e removed, res						Meter Nu	44454	
							Calibrates		
0,50,7	tatem pump	on, pump	ny ar i	. 36 m	WHI	LIME		Stabilizati	on Parameters
- 17	charleng 4	n erm 2.	minus	1	THA THE	140			
0824. W	etterra puny	· Stop. 62 n	in purge,	318.7 m	taI	7	I HI	HM	
100000000000000000000000000000000000000	Control of the Contro	- WW GOW	Pillerale	40 100	. Jackson		INVENE	1000	
0938: Rum	ib Le-loward	to bottom	of well	D HEED	سر کی	5			
1000; Rum	p set in mid	dle of anu	en				Fo	19 OF	v: 6.37fe
10242 Pum	4 Jak							9761	1 20 /0//
						٧	Lin	a VI D	i 28-68 ft
						. 7			
II.									

Geosyntee Consultants 11/7/17, Ver.2

Geosyntec Deconsultants

Well Development Log

Site: \angle	akeland	Elector				·	Project	t No.:	
	oring Well:	and the same	-13					Date:	7/19/23
Well	Condition:	90	od				P	ID (ppm):	
lnit	ial Depth to	Water (fi):	6.	57		Initial Dep	oth to Bo	ntom (ft):	2850
		ameter (in):		*				Vater (ft):	
mu	ltiply heigh	t by 0.163 fo			4" well:				
Fit	nal Depth to	Water (ft):	6.	76		Final Dep	oth to Bo	ottom (ft):_	28·5/
1ame	Fana Rate	Total Volume Removed	Depth to Water	Turtrids	511	Sp. Cond	Tempy	Dissolved Oxygen	Appearance of Water
12119	(gal/min)	(g,1)j	(6 BTOC)	(ntu)	(S1)	Titt5 femal	(C)	(mg/i.)	(color, oder)
1220	3.75	37.5	11-04	51.06					cloudy/clear
1230	I I	7S	11-08	25.00					clear
1240		112.5	11-05	8.56		·			clear
1250		150	4.06	1.96					Cleas
1300		1875	11.07	25.59					Clear
1310		225	11-09	62.90					desdy
1315		1262 Super	11.09	12.57					Clear
1320		262.5	11.77	3.80					cles
13.23		274	11-12	1.80					decr
1326		285.5	11-12	1.3/					des
1329	1	297	11:13	1.15					cled
1332	8	708.5	11.14	0.86					clear
				y					
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Describe De	velopment M	ethod (e.g., pu	mping, sur	zing, instru	перваніра			Water Q	uality Meter
	-	it periods, prot				4	Meter Nu	mber:	
		Stort of 40			WHL.	7	Calibrate	d on by:	
	to the contract		3.36	HITH	# 74			Stabilizatio	on Parameters
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MS7 I war	wa pump s	dop. 62ms	-purse->	62 gal pu	god .	8			COLUMN TO SERVICE
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worksome of		was do w					F	Sal Di	w: 6.79
		middle of					1	mat Di	00 0
(332] Por							Fi	nal Pil	3:28.51

11/7/17, Ver.2

Geosyntec D

Well Development Log

	Site: La	Keland E	locker					Project	No.:	
,			CCR.	-15					Date:	7/14/23
		Condition:					===	P)	D (ppm):	
			Water (ft):	16.5	SI		Initial Dep	, oth to Bo	attem (ft):	28.29
		Well Dia	ameter (in):	$\overline{}$					Vater (ft):	
	mu]	hiply height	t by 0.163 fo	or 2" well	, 0.64 for	4" well -	Total Vo	olume in	Well (g):	
			Water (fi):	16-	58		Final Dep	pth to Bo	ittom (ft):	28-21
	Line	Flow Rate	Total Volume Removed	Depth to Water	Turbulty	pil	Sp Cond	Ten:p.	Dissolved Oxygen	Appearance of Water
	,,,,,	(gal/min)	(20!)	of BTOC)	[p;n)	(SU)	(inS/cm)	(C)	(mg/L)	(color, adua)
	1600	3.5	35	16.40	683				V	prom
	1190	2.5	60	16.91	614					bioun
	1620		85	1691	55.68					brown
	1530		110	14.91	50.81					pravn
13.35 *	840	8	135	1290	728					bonn
-	ILCo	3.5	170	17.29	848					boun
	16Co		205	17.30	31.37					ctor
	1710		240	17.31	24.79					Clear
	1420		275	17.34	15.03					cleur
	1725		310	17.35	11.74			į,		deal
	1730		345	17.36	11-30					dear-
	1735		380	17.36	[0.03			J		clear
	1740		245	17.36	10.05			(1		cleaf
	1745	×	450	17.37	8.56			c		des
			ethnd (c.g., pu	imping, sur		րբոկանոր	-	-	Water Q	uality Meter
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	1420 1 144	Janes au	م حاحد ه	C	MT HA			Calibrates	i an/by:	- 6
	1130 · MA	hadina da	pstort, o.	2 alm	1111111				Stabilizati	on Parameters
	- (6)	والمؤم أميدوهم	CONT JAM	ms		100				
	1538: War	tera fumps	Hop-62 mo	produ -	31 calla	c chieral	/			
	1550: 50	b- Dumo che	+,3.5gm	42512	ell seri	هيدها م				
	-re	tacting 142	we have	me	W UH			Final	DIW:	16.67 FE
	1(30) Sub-	pump relove	wed to better	-fuel				Town I	NTD 1	28.29 ft
	1635: PM	up ged in	middle of sco	wen			1	שיתו	י טוע	-0.0175
	1745: Pu	me some								
	V 100									

Geosyntec Deconsultants

Well Development Log

Site: La	ikeland	Bleckic					Project	l No.:	
Monit		CR-2	¢				P	Date: [ID (ppm):	7/18/23
		Water (ft):	5.	51	9	Initial Dej		stom (ft):	23.81
		ameter (in):						Nater (ft):	
		t by 0.163 f			4" well:				N2 0.
Fin	nal Depth to	Water (ft):	5.6			Final Dep	pth to Bo	Mon (tt):	24.81
Time	Flow Rate (gul/min)	Fotal Volume Removed (gal)		Turindly (also)	pH (SU)	Sp. Cond. (mN/cm)	Temp (*U)	Dissolved Oxygen (mg/L)	Appezrance of Water (color, odor)
1655	3.0	30	774	18.96					der (davady
1865		60	7.77	20.53					seas
1915		90	780	14.94					L car
1925		120	7.83	3.97					clour
1235		150	781	9.78					clear
1745		186	7.82	13.96					clear
1750		195	7-83	1.36					ckar
1763		204	7.83	1.20					cles
1756		213	1.83	0.76					Clear
1759		222	7.83	0.69					cleur
1802		231	7.84	0-63					clear
				v				1	
Describe De	evelopment M	igthod (e.g., po	unpuag, sar	ging, instru	mentation			Water Q	uality Meter
		st periods, prof					Meter Nu	mber:	
× 1530 :	Waterta I	tup m,	D 1.19	pm 1	军害	W/	Calibrate		
l 3:	A adjuster	a.2 CEY and	- 1 mar	.	╅╀┪┰╼	H.		Stabilizati	on Parameters
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			ar cym ga	-1 -2 6	5 Agais	lender(
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124 50	alo oumo	mered be	Use to book	Hom			h	inal P	7W: 5.66
1740:5	ub-oump	et in midd	Heato	raca-					
1803: 5	sub pump	088	, , o, 1	CALL DIST	100		Fil	na (D	TB: 27.98

Geosyntec D

Well Development Log

	nitoring Well: 'ell Condition:						14	Date; _ D (ppm);	7/20/23
	nitial Depth to			lq.		Initial De			25.89
	•	ameter (in):						Vater (ft):	
	multiply heigh			. 0.64 for	4" well	Total Vo	olume in	Well (g):	
	Final Depth to							ttom (ft):	25-89
		Tutal Volunte						Dissolved	14(1)
l'ime	Flow Rate	Removed	Water	Turbidly	pH (SU)	5p. Cond (mS/cm)	Temp. (3C)	Ovygen	Appearance of Water (color, edor)
	(palipoin)	(gal)	(R BTOC)	(N(G)	1814	missemy	107	Img/Li	(20101: 14(11)
098		3570		1853					bearing
0937	3.5	77	23.43	906					bourn
0945	1	77	20.65	967					bown
0947		84	2324	Ray					brown
0448		87.5	23.76	100		Y-=			brama
0954		87.5	22.03	843					proces
0956		94.5	23.17	708					Losoma
0958		101.5	23.87	108					Kom
1004		101.5	19.85	779					Leon
1007		112	24-05	74					cloud.7
1013		112	18.48	81					Cloud?
1018	-	129.5	24.77	39					Cloudy
1025		###/X7.1		90					dury
102		143.5	24.23	55					Cloudy
	100					_		Water ()	uality Meter
	e Development M						Meter Nu		danty Merce
	ume removed, re-				HI TH	_	Calibrates		1
0014	Waterogon	الأس بطاحا	TYM		III III		-		on Parameters
- CC	totaling thin a	raty smans	(SPE STOWN	~)					
0359	matera pun	P 3 4P (n. 45)	magniged	-> 31.5.	al pursu	€			
0915:	Sub-fromp star	135gm	1		•				
9	retrocting life	Prity Barry	5						
0935:	well arms de	to generally	JA tek	fort in	n will	lo of the s	then and	She/storts	pump until clear
						70			
WAY & B	imp Step final	_		BOWN SUBT	Second Second		Final	DIW:	19.34-Pt (5min
		→206.5	gal						15.86 FE
									Contract of the Contract of th

* funp restort often page dry

Time	Flow Rate	Depth to Worker (BTOK) A	Torbidity (unu)	Appearance	Total Volumeromond
* 1036	3.5	18.56	47	(lud)	143.5
_	1	24.23	74.48	chudy	157.5
1040		19.45	88.58	chardy	157.5
# 1047		24.33	64.27	cloudy	171.5
_1051		18-53	77.93	cloud?	171.5
* 1058		14.20	53.13	cloud?	189
1[03			86.86	dondy	189
* 1112		18.28	54.84	(day d-y	206.5
1117	ठ	24.24	3	1	
					9
			/		
1	4	1			2

Geosyntec Deconsultants

Well Development Log

Site: Lakeland E	latera				Project	No.:	
Monitoring Well:	45.00					Date:	7/20/23
Well Condition:					þj	D (ppm);	79
Initial Depth to		125		Initial Dep	pth to Bo	ttom (ft):	27-78
_		2				Vater (ft):	
	by 0.163 for 2" w	ell, 0.64 for	4" well		**	Well (g):	
Final Depth to	Water (ft):	10.41		Final Dep	pih to Be	dlom (ft):	25.31
			_			Disselved	
Time Flow Rate	Total Volume Depth Removed Water	Tuestically	plil	Sp. Cend.	Temp.	Oxygen	Appearance of Water
(galimin)	(eal) (6 BTO	(5) (5)(i)	(80)	(mS/cm)	I*CF	(nig/t.)	(coñec, odac)
1400 -*							
* 1404 3.6	1832.4 14.25	3 +#+					milkybook
1408	32.4 25.9	2 34+					milky brown
# 1411	32.4 14.9						}
1415	46.8 26.1				-		
* 1417	46.8 14.50						
1422	64.8 26.0	27 HH					
1 1425	64.8 199.						
1428	75.6 25.4						*
# 1432	4-075/ 14.3						cloudy
1+.35	1081.4 25V						1
* 1440	86.4 -4	4/2					
1443	104.4 -	145.82					
	(I) Gr. Y	IL2-N					26
				_		Water O	uality Meter
Describe Development M					Meter Nu		панту менет
total volume repassed, res					Calibrated		7
124% · Wateron Ru	mp start, at gan	I THE I	AL THE				en Parameters
1242 : Water Ru redoction a	in com arning	THE	HLIHI			3(SDBD'ST)	on carameters
					4/-10:	coul L.	Lathala of a
1345 i Waters purgo o	Hr. 65 min purge;	-> 44.1 go	1 bullen	1	WOTE,	ring one	to situation staged a patt at 25 ft 8702 b
1355: Sub-pump on	, 3.6gpm 1				Pums or	at 11+6	BTOC .
-retacking lift eve	m 3mine			-			
		ant an	a 2-		Tha	UW	: 10.39
1900: well pumps de	lad of the	sens pom	r ik Lu-n				
Maria Company	l and subap/storts				Flori	MR 1	28.01 FE
lou; Pump somp for	al. Tobolleline	occuped dissen	sat board	•	Louis	DID + 9	ADIOT IC
	->>						

11/7/17, Ver.2

⁻ promy stop due to well purse dry A Romp stort . Flor well recharge

Time	How Roke	Pomored go [Dayth to water fit felox	-	174	Affeor	once of
* 1449	3.6	104.4	-	125		d	oudy
1453	1	108	-	136	_		
# 14 Se		108	-	120			
- 1503		126	-	102.45			
1507		126	-	47.52			
1511		140.4	-	96-32			
F 1218	1	140.4	_	82.48			
1519		154.8	-	88-24			
1524		154.8		83.21			
1528		169.2	-	87.82			
1533		169.2	_	79.45			
1540		187.2	-	57.94		X	
1545		157.2	- (46.02		-	y/clear
1\$51		208.8		62.43		Cloud	
1556		208.8	-	46-31		cles	
1604		237,6		1.26		Clas	

Geosyntec Consultants Water Quality Instrument Calibration Form

Water Quality Ve	:e' - Model/Seri	a4:					Tura simerari	Model/Se:	The second district of			
Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (%)	Saturation (mg/L) ¹	Reading (mg/L)	Reading (%)	Pass or Fail	0.1-10 MTU Skd <u>W</u> NTU	Date	Reading [HTU]	Pasa o Fail
CAL KCV CCV CAL KCV CCV CAL KCV CCV	3	=	\equiv	\equiv		Accept	once Criteria: +	/-0.3 mg/L	CAT NO. CCA. CUT NO. CCA. CUT NO. CCA. CUT NO. CCA. CUT NO. CCA.	7/18/25 7/19/25 7/26/23	10-25 9-35 9-35	(P) F
Specific Conductance	DE) SOP FT 1200	Date	Tiene	Standard (mS/cm)	Standard Lat #	Standard Exp. Date	देश्वर्यकर् [सर्द्वाटम]	Pass or Fail	11 - 60 MTU 584MTU	Date	Reading [MRU]	Pass-pe Fail
CAL KCY CCY CAL KCY CAL KC	2 2 3 3						cceptance Crite	P F F F F F F F F F F F F F F F F F F F	CAL KV CCV	Atar	planse Criter	P F F P F P F
рН	DEP 509 F7 1100	Cate	Time	Standard (SU)	Standard Lat#	Standard Exp. Oate	Feating (9./)	≯aus or Fail	41 - 100 HTU 5%NTU	Date	Reading [hTU]	Pass of Reil
						Acce	ptonce Criteria:	+/- 0.2 SU		Actept	lance Griteria	+1-65
CAT KGA CCA.	2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3							P F P F P F P F	CAT FCA CCA.	\equiv		P F P F P F
ORP	SOP N/A	Date	Гіпе	Sta mil @ Terap V	Standard Lot 4	Standard Est. Date	Reading (mV)	Pays or Fail	>100 NTU SidNTU	Parle	Reading (NTL)	Pass or Fail
200						Geasyntec A	loceptonce Crite		1	Acce	ptante Criter	
CAL ICY CCV								PF	CAL XXV CCV			_ P F
CAL ICY CCV								PF	CAL XCV CCV			PF
CAL ICY COV								PF	CAL XCV CCV			- P F
Specific Conducts	nca Prope Cear	es ^h Yes h	ho		Dissaved Oxyge	in Versbrane Cha	nged? Yes V	ug .				
L. See Table 75 Zep04									d Pass			
						Comments: 1						

consultation

Capture of your private the conductor may be have 7 that conduct the review of process sample readings always cancer with prife accultive conductions gover finemed. It sees in

If promes that it is shows with SDF acceptance them after species sample insults with it \hat{f} is a \hat{f}

ATTACHMENT B Photographic Log

GEOSYNTEC CONSULTANTS Photographic Record

Geosyntec consultants

Client: Lakeland Electric Project Number: FR3713F

Site Location: 3030 East Lake Parker Drive

Lakeland, FL 33805

Photo 1

Date: 7/19/2023

Direction: N/A

Comments: Image of 2inch surge block and foot valve assembly utilized during well development with a Waterra Hydrolift pump.

Site Name: C.D. McIntosh Power Plant

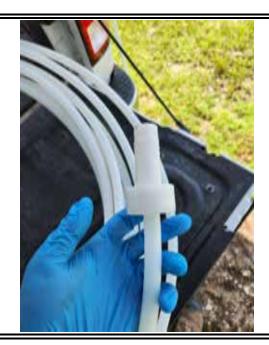


Photo 2

Date: 7/19/2023

Direction: Southeast

Comments: Image of Waterra Hydrolift well development activities at CCR-11.



1

23.09.19

GEOSYNTEC CONSULTANTS Photographic Record

Geosyntec consultants

Client: Lakeland Electric Project Number: FR3713F

Site Location: 3030 East Lake Parker Drive

Lakeland, FL 33805

Photo 3

Date: 7/19/2023

Direction: Southeast

Comments: Image of well development activities at CCR-13 with a Whale Mega Purger submersible pump deployed.

Site Name: C.D. McIntosh Power Plant



Photo 4

Date: 7/19/2023

Direction: Northwest

Comments: Image of depth to bottom measurement at CCR-15 after well development with a Waterra Hydrolift pump. Depth to bottom is measured prior to and after a well development to determine the amount of sediment removed from the bottom of well.



2 23.09.19

GEOSYNTEC CONSULTANTS Photographic Record

Geosyntec consultants

Client: Lakeland Electric Project Number: FR3713F

Site Location: 3030 East Lake Parker Drive

Lakeland, FL 33805

Photo 5

Date: 7/19/2023

Direction: N/A

Comments: Image of CCR-11 well development purge water during well development with a Waterra Hydrolift pump. High turbidity observed indicates removal of sediment from the well.

Site Name: C.D. McIntosh Power Plant

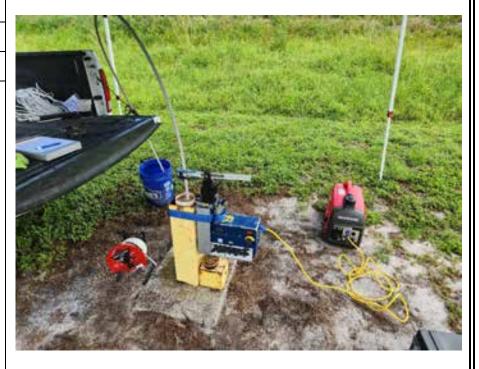


Photo 6

Date: 7/20/2023

Direction: North

Comments: Image of well development activities at MW-26S utilizing a Waterra Hydrolift pump.



3 23.09.19

APPENDIX C

Statistical Results – First Semi-Annual 2023 Monitoring

			Number			Minimum	Maximum	Minimum						
Monitoring			of	Number		Detected	Detected	Detection	Detection			Concentration	2	
Location	Analyte	Units	Samples	of NDs	NDs	Result	Result	Limit	Limit	Mean ¹	CV	Trend ³	LCL Distribution ²	95% LCL
CCR-4	Antimony	mg/L	22	19	86	0.001	0.0015	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-4	Arsenic	mg/L	25	11	44	0.001	0.0136	0.00221	0.013	0.0018	1.3207	Decreasing	Nonparametric ⁴	0.0016
CCR-4	Barium	mg/L	25	0	0	0.149	0.36			0.2755	0.2036	No Trend	Normal	0.26
CCR-4	Beryllium	mg/L	21	7	33	0.0002	0.00084	0.000101	0.00283	0.0005	0.4832	Stable	Normal	0.00034
CCR-4	Cadmium	mg/L	23	8	35	0.00046	0.0233	0.000181	0.0039	0.0039	1.5610	No Trend	Gamma	0.0022
CCR-4	Chromium	mg/L	23	5	22	0.0015	0.0063	0.001	0.00513	0.0022	0.4550	Decreasing	Nonparametric ⁴	0.0020
CCR-4	Cobalt	mg/L	23	7	30	0.0027	0.0052	0.000293	0.002	0.0027	0.6194	Decreasing	Normal	0.0015
CCR-4	Fluoride	mg/L	27	6	22	0.04	1.92	0.032	0.05	0.2956	1.2905	Increasing	Trend (Theil-Sen Slope)	0.44
CCR-4	Lead	mg/L	23	18	78	0.00051	0.0032	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-4	Lithium	mg/L	25	4	16	0.0079	0.34	0.00333	0.022	0.0945	1.1190	Increasing	Trend (Theil-Sen Slope)	0.073
CCR-4	Mercury	mg/L	22	22	100			0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-4	Molybdenum	mg/L	25	23	92	0.0161	0.0184	0.00085	0.00631	NA	NA	NA	DL	0.00085
CCR-4	Selenium	mg/L	25	13	52	0.00029	0.0031	0.00024	0.028	NA	NA	NA	DL	0.00439
CCR-4	Thallium	mg/L	23	9	39	0.00026	0.0051	0.000925	0.0017	0.0006	1.7239	No Trend	Nonparametric	0.00047
CCR-5	Antimony	mg/L	22	22	100			0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-5	Arsenic	mg/L	25	10	40	0.00078	0.019	0.00046	0.013	0.0024	1.7386	Decreasing	Nonparametric ⁴	0.0018
CCR-5	Barium	mg/L	25	0	0	0.064	0.0847			0.0725	0.0844	Increasing	Trend (Regression)	0.076
CCR-5	Beryllium	mg/L	21	21	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-5	Cadmium	mg/L	23	22	96	0.001	0.001	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-5	Chromium	mg/L	23	6	26	0.0008	0.0018	0.000736	0.00513	0.0013	0.2702	Decreasing	Trend (Theil-Sen Slope)	0.00047
CCR-5	Cobalt	mg/L	23	21	91	0.0032	0.0034	0.000293	0.002	NA	NA	NA	DL	0.00040
CCR-5	Fluoride	mg/L	26	6	23	0.04	0.835	0.026	0.084	0.1119	1.5958	Increasing	Trend (Theil-Sen Slope)	0.075
CCR-5	Lead	mg/L	23	17	74	0.00046	0.0021	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-5	Lithium	mg/L	25	0	0	2.3	5.35			3.2232	0.2988	Increasing	Nonparametric	2.50
CCR-5	Mercury	mg/L	22	21	95	0.000233	0.000233	0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-5	Molybdenum	mg/L	25	22	88	0.0026	0.025	0.00085	0.00631	NA	NA	NA	DL	0.00085
CCR-5	Selenium	mg/L	25	14	56	0.00028	0.0312	0.00024	0.028	NA	NA	NA	DL	0.0044
CCR-5	Thallium	mg/L	23	21	91	0.0036	0.0056	0.000085	0.0017	NA	NA	NA	DL	0.00009
CCR-6	Antimony	mg/L	22	22	100			0.001	0.0123	NA	NA	NA .	DL	0.0010
CCR-6	Arsenic	mg/L	25	11	44	0.00047	0.0073	0.00046	0.00586	0.0013	1.4130	Decreasing	Nonparametric	0.0010
CCR-6	Barium	mg/L	25	1	4	0.0145	0.051	0.017	0.017	0.0294		Probably Decreasing		0.015
CCR-6	Beryllium	mg/L	21 23	21	100 96	0.0002	0.0002	0.000101 0.000181	0.00283	NA	NA NA	NA NA	DL DL	0.00034 0.00034
CCR-6	Chromium	mg/L mg/L	23	13	96 57	0.0003	0.0003	0.000181	0.0039	NA NA	NA NA	NA NA	DL DL	0.00034
CCR-6	Chromium Cobalt	υ	23	22	96	0.0009	0.021	0.000736	0.00513	NA NA	NA NA	NA NA	DL DL	0.0011
CCR-6	Fluoride	mg/L mg/L	23	0	96	0.0005	0.0005	0.000293	0.002	0.2300	0.6146	Increasing	Trend (Theil-Sen Slope)	0.00040
CCR-6	Lead	mg/L	23	21	91	0.0037	0.738	0.00035	0.0139	NA	0.0140 NA	NA	DL	0.00035
CCR-6	Lithium	mg/L	25	0	0	0.00037	1.47	0.00033	0.0139	0.3873	0.9752	Increasing	Trend (Regression)	0.00033
CCR-6	Mercury	mg/L	22	22	100	0.043	1.47	0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-6	Molvbdenum	mg/L	25	11	44	0.0011	0.0362	0.00003	0.000132	0.0053	1.5495	Increasing	Trend (Theil-Sen Slope)	0.0060
CCR-6	Selenium	mg/L	25	18	72	0.00011	0.00073	0.00033	0.00031	NA	NA	NA	DL	0.00024
CCR-6	Thallium	mg/L	23	23	100	0.00033		0.00024	0.0034	NA NA	NA NA	NA NA	DL	0.00024

			Number			Minimum	Maximum	Minimum	Maximum			Concentration		
Monitoring		TT	of	Number		Detected	Detected	Detection	Detection	Mean ¹	CIV.	Trend ³	TOT Division 2	050/ 1 01
CCR-7	Analyte	Units	Samples	of NDs	NDs 95	Result 0.0178	Result 0.0178	Limit 0.001	0.0123	NA NA	CV NA	NA NA	LCL Distribution ²	95% LCL 0.0010
CCR-7	Antimony	mg/L mg/L	22	16	64	0.0178	0.0178	0.001	0.0123	NA NA	NA NA	NA NA	DL DL	0.0010
CCR-7	Arsenic		25 25	16	4	0.00051	0.0169	0.00046	0.00586	0.0388	0.5927		Normal	0.00046
CCR-7	Barium	mg/L	25	21	100	0.0076		0.0017	0.017	0.0388 NA	0.5927 NA	Decreasing NA	Normai DL	0.00034
CCR-7	Beryllium	mg/L	23	23	100			0.000101	0.00283	NA NA	NA NA	NA NA	DL DL	0.00034
CCR-7	Cadmium Chromium	mg/L	23	10	43	0.0012	0.0028	0.000181	0.0039	0.0015	0.4462	NA Stable	Normal	0.00034
CCR-7		mg/L mg/L	23	18	78	0.0012	0.0028	0.000736	0.00313		0.4462 NA	NA	DL	0.0011
CCR-7	Cobalt					0.00041	0.001			NA 0.2487	0.4896			0.00040
	Fluoride	mg/L	26	0	0			0.00025				Probably Increasing	Trend (Regression)	
CCR-7	Lead	mg/L	23	19	83	0.00039	0.0013	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-7	Lithium	mg/L	26	4	15	0.0032	0.34	0.0032	0.00474	0.0574	1.3213	Increasing	Gamma ⁶	0.039
CCR-7	Mercury	mg/L	22	21	95	0.00007	0.00007	0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-7	Molybdenum	mg/L	25	23	92	0.00858	0.0115	0.00085	0.00631	NA	NA	NA	DL	0.00085
CCR-7	Selenium	mg/L	25	18	72	0.00024	0.00043	0.00024	0.027	NA	NA	NA	DL	0.00024
CCR-7	Thallium	mg/L	23	23	100			0.000085	0.0034	NA	NA	NA	DL	0.00009
CCR-8	Antimony	mg/L	22	20	91	0.0017	0.0058	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-8	Arsenic	mg/L	25	9	36	0.0015	0.0135	0.00221	0.00586	0.0030	0.8460	Decreasing	Nonparametric	0.0025
CCR-8	Barium	mg/L	25	0	0	0.0244	0.064			0.0367	0.3157	Stable	Gamma	0.033
CCR-8	Beryllium	mg/L	21	21	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-8	Cadmium	mg/L	23	23	100			0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-8	Chromium	mg/L	23	20	87	0.0007	0.0008	0.000513	0.00513	NA	NA	NA	DL	0.0011
CCR-8	Cobalt	mg/L	23	22	96	0.0012	0.0012	0.000293	0.002	NA	NA	NA	DL	0.00040
CCR-8	Fluoride	mg/L	27	0	0	0.23	0.4			0.3096	0.1421	Increasing	Trend (Regression)	0.34
CCR-8	Lead	mg/L	23	22	96	0.00045	0.00045	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-8	Lithium	mg/L	25	11	44	0.0043	0.0491	0.00272	0.011	0.0111	1.0427	Decreasing	Nonparametric	0.0085
CCR-8	Mercury	mg/L	22	22	100			0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-8	Molybdenum	mg/L	25	0	0	0.011	0.0238			0.0165	0.1930	Stable	Normal	0.015
CCR-8	Selenium	mg/L	25	20	80	0.0003	0.0246	0.00024	0.027	NA	NA	NA	DL	0.00024
CCR-8	Thallium	mg/L	23	22	96	0.00015	0.00015	0.000085	0.0034	NA	NA	NA	DL	0.00009
CCR-9	Antimony	mg/L	22	21	95	0.0017	0.0017	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-9	Arsenic	mg/L	25	4	16	0.003	0.0173	0.00221	0.0075	0.0056	0.5942	Stable	Gamma	0.0046
CCR-9	Barium	mg/L	25	0	0	0.0435	0.13			0.0858	0.2784	Decreasing	Trend (Regression)	0.031
CCR-9	Bervllium	mg/L	21	21	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-9	Cadmium	mg/L	23	22	96	0.00058	0.00058	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-9	Chromium	mg/L	23	15	65	0.001	0.0023	0.000736	0.00513	NA	NA	NA	DL	0.0011
CCR-9	Cobalt	mg/L	23	23	100			0.000293	0.002	NA	NA	NA	DL	0.00040
CCR-9	Fluoride	mg/L	27	0	0	0.095	0.69			0.2421	0.5983	Increasing	Trend (Theil-Sen Slope)	0.28
CCR-9	Lead	mg/L	23	20	87	0.00054	0.0028	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-9	Lithium	mg/L	25	1	4	0.0457	0.19	0.00272	0.00272	0.1032		Probably Decreasing		0.023
CCR-9	Mercury	mg/L	22	22	100	0.0437		0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-9	Molybdenum	mg/L	25	21	84	0.0014	0.0166	0.00005	0.00631	NA	NA	NA NA	DL	0.00085
				12	48								Normal ⁴	
CCR-9	Selenium	mg/L	25			0.00047	0.0015	0.00309	0.027	0.0010	0.3131	Increasing		0.00081
CCR-9	Thallium	mg/L	23	22	96	0.0048	0.0048	0.000085	0.0017	NA	NA	NA	DL	0.00009

			Number			Minimum	Maximum	Minimum	Maximum					
Monitoring			of	Number	Percent	Detected	Detected	Detection	Detection			Concentration		
Location	Analyte	Units	Samples	of NDs	NDs	Result	Result	Limit	Limit	Mean ¹	CV	Trend ³	LCL Distribution ²	95% LCL
CCR-11	Antimony	mg/L	22	21	95	0.0015	0.0015	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-11	Arsenic	mg/L	25	0	0	0.0513	0.14			0.0911	0.3349	Decreasing	Trend (Regression)	0.032
CCR-11	Barium	mg/L	25	0	0	0.025	0.071			0.0530	0.1884	Decreasing	Trend (Regression)	0.039
CCR-11	Beryllium	mg/L	21	21	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-11	Cadmium	mg/L	23	22	96	0.001	0.001	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-11	Chromium	mg/L	23	6	26	0.0012	0.0023	0.000736	0.00513	0.0016	0.2487	Decreasing	Normal ⁴	0.0014
CCR-11	Cobalt	mg/L	23	22	96	0.0009	0.0009	0.000293	0.002	NA	NA	NA	DL	0.00040
CCR-11	Fluoride	mg/L	28	0	0	0.35	1.46			0.6376	0.5284	Increasing	Trend (Theil-Sen Slope)	1.06
CCR-11	Lead	mg/L	23	16	70	0.00039	0.0014	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-11	Lithium	mg/L	25	14	56	0.004	0.0338	0.00272	0.011	NA	NA	NA	DL	0.0032
CCR-11	Mercury	mg/L	22	22	100			0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-11	Molybdenum	mg/L	25	18	72	0.00089	0.0149	0.00085	0.00631	NA	NA	NA	DL	0.00085
CCR-11	Selenium	mg/L	25	9	36	0.0013	0.0085	0.00309	0.027	0.0025	0.8922	No Trend	Nonparametric	0.0022
CCR-11	Thallium	mg/L	23	23	100			0.000085	0.0034	NA	NA	NA	DL	0.00009
CCR-12	Antimony	mg/L	22	22	100			0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-12	Arsenic	mg/L	25	0	0	0.00089	0.199			0.0579	0.8025	Increasing	Trend (Theil-Sen Slope)	0.070
CCR-12	Barium	mg/L	25	0	0	0.0117	0.048			0.0175	0.4190	Increasing	Trend (Theil-Sen Slope)	0.017
CCR-12	Beryllium	mg/L	21	21	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-12	Cadmium	mg/L	23	22	96	0.0009	0.0009	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-12	Chromium	mg/L	23	18	78	0.0006	0.0024	0.000736	0.00513	NA	NA	NA	DL	0.0011
CCR-12	Cobalt	mg/L	23	20	87	0.0008	0.0015	0.000293	0.002	NA	NA	NA	DL	0.00040
CCR-12	Fluoride	mg/L	27	0	0	0.45	1.44			0.6438	0.3272	Increasing	Trend (Theil-Sen Slope)	0.77
CCR-12	Lead	mg/L	23	22	96	0.001	0.001	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-12	Lithium	mg/L	25	20	80	0.0139	0.26	0.00272	0.011	NA	NA	NA	DL	0.0032
CCR-12	Mercury	mg/L	22	22	100			0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-12	Molybdenum	mg/L	25	2	8	0.0056	0.0368	0.00085	0.00392	0.0121	0.7107	Increasing	Trend (Theil-Sen Slope)	0.016
CCR-12	Selenium	mg/L	25	14	56	0.00032	0.0151	0.00024	0.028	NA	NA	NA	DL	0.0044
CCR-12	Thallium	mg/L	23	21	91	0.00035	0.0041	0.000085	0.0017	NA	NA	NA	DL	0.00009

Monitoring			Number of	Number	Percent	Minimum Detected	Maximum Detected	Minimum Detection	Maximum Detection			Concentration		
Location	Analyte	Units	Samples	of NDs	NDs	Result	Result	Limit	Limit	Mean ¹	CV	Trend ³	LCL Distribution ²	95% LCL
CCR-13	Antimony	mg/L	22	21	95	0.0014	0.0014	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-13	Arsenic	mg/L	25	13	52	0.00052	0.043	0.00046	0.00396	NA	NA	NA	DL	0.00046
CCR-13	Barium	mg/L	25	0	0	0.01	0.053			0.0378	0.3131	Stable	Nonparametric	0.037
CCR-13	Beryllium	mg/L	21	19	90	0.0002	0.0003	0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-13	Cadmium	mg/L	23	21	91	0.0003	0.0351	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-13	Chromium	mg/L	23	7	30	0.001	0.0023	0.0011	0.00513	0.0017	0.2703	Stable	Normal	0.0015
CCR-13	Cobalt	mg/L	23	8	35	0.00094	0.0046	0.000354	0.002	0.0015	0.7498	No Trend	Normal	0.00054
CCR-13	Fluoride	mg/L	27	0	0	0.103	2.64			0.8857	0.6941	Increasing	Trend (Regression)	1.75
CCR-13	Lead	mg/L	23	23	100			0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-13	Lithium	mg/L	25	1	4	0.011	0.32	0.0032	0.0032	0.2046	0.4588	Stable	Normal	0.17
CCR-13		mg/L	22	21	95	0.000195	0.000195	0.00003	0.000152	NA	NA	NA	DL	0.00007
CCR-13				18	72	0.001	0.0121	0.00085	0.00631	NA	NA	NA	DL	0.00085
CCR-13	Selenium	mg/L	25	17	68	0.00032	0.0135	0.00024	0.027	NA	NA	NA	DL	0.00024
CCR-13	Thallium	mg/L	23	18	78	0.00009	0.00011	0.000085	0.0034	NA	NA	NA	DL	0.00009

Notes:

- 1 For data sets with any ND data and 50% or less NDs, the Kaplan-Meier mean and standard deviation are provided. For data sets without ND data, the arithmetic mean is provided. For data sets with greater than 50% NDs, no mean is provided.
- 2. For distribution = "Normal" and "Lognormal", the 95% LCL was calculated on the mean concentration.

For distribution = "Trend (Regression)" or "Trend (Theil-Sen Slope)", the 95% LCL was calculated from the regression/Sen's slope line due to an increasing/decreasing trend.

For distribution = "Nonparametric", the 95% LCL was calculated on the median concentration.

For distribution = "DL", the 95% LCL was equivalent to the MDL.

- 3. The Mann-Kendall test was used to identify increasing or decreasing trends in the data with trends identified with a confidence level of 95% or more marked increasing or decreasing and those with a confidence level between 90% and 95% marked probably increasing or probably decreasing.
- 4. Trend is an artifact of varyng detection limits, therefore, the LCL was derived using a nonparametric method.
- 5. Data used in the statistical analysis are provided in Table 2.
- 6. There were two anamolously high concentrations in April 2018 and April 2019, but concentrations have been decreasing since April 2019. As such, a Gamma LCL was calculated instead of an LCL from the trend line.
- --- not provided because all data had either detected concentrations or was nondetect.
- CV coefficient of variation calculated as the ratio of the standard deviation to the mean
- LCL lower confidence limit
- mg/L milligrams per liter
- NA not applicable, statistic could not be calculated due to high percent of non-detects (>50% NDs)
- ND non-detect



Statistical Results – Second Semi-Annual 2023 Monitoring

			Number			Minimum	Maximum	Minimum	Maximum					
Monitoring			of	Number	Percent	Detected	Detected	Detection	Detection			Concentration	LCL	
Location	Analyte	Units	Samples	of NDs	NDs	Result	Result	Limit	Limit	Mean ¹	CV	Trend ³	Distribution ²	95% LCL
CCR-4	Antimony	mg/L	23	20	87	0.001	0.0015	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-4	Arsenic	mg/L	26	11	42	0.00051	0.0136	0.00221	0.013	0.0018	1.36	Decreasing	Nonparametric ⁴	0.0015
CCR-4	Barium	mg/L	26	0	0	0.149	0.36			0.2734	0.20	Stable	Normal	0.25
CCR-4	Beryllium	mg/L	22	8	36	0.0002	0.00084	0.000101	0.00283	0.0005	0.48	Probably Decreasing	Normal ⁴	0.00034
CCR-4	Cadmium	mg/L	24	9	38	0.00046	0.0233	0.000181	0.0039	0.0037	1.60	No Trend	Gamma	0.0021
CCR-4	Chromium	mg/L	24	6	25	0.0015	0.0063	0.001	0.00513	0.0022	0.45	Decreasing	Nonparametric ⁴	0.0020
CCR-4	Cobalt	mg/L	24	7	29	0.0011	0.0052	0.000293	0.002	0.0027	0.63	Decreasing	Nonparametric	0.0024
CCR-4	Fluoride	mg/L	28	7	25	0.04	1.92	0.032	20	0.2956	1.29	Increasing	Trend (Theil- Sen Slope)	0.52
CCR-4	Lead	mg/L	24	19	79	0.00051	0.0032	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-4	Lithium	mg/L	26	4	15	0.0079	0.34	0.00333	0.022	0.0993	1.07	Increasing	Trend (Theil- Sen Slope)	0.101
CCR-4	Mercury	mg/L	23	22	96	0.000034	0.000034	0.00003	0.000152	NA	NA	NA	DL	0.00007
	Molybdenum	mg/L	26	24	92	0.0161	0.0184	0.0005	0.00631	NA	NA	NA	DL	0.00085
CCR-4	Selenium	mg/L	26	14	54	0.00029	0.0031	0.00024	0.028	NA	NA	NA	DL	0.0044
CCR-4	Thallium	mg/L	24	10	42	0.00026	0.0051	0.00025	0.0017	0.0005	1.74	Decreasing	Nonparametric ⁴	0.00046
CCR-5	Antimony	mg/L	23	23	100			0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-5	Arsenic	mg/L	26	10	38	0.00042	0.019	0.00046	0.013	0.0023	1.78	Decreasing	Nonparametric ⁴	0.0017
CCR-5	Barium	mg/L	26	0	0	0.064	0.085			0.0730	0.09	Increasing	Trend (Regression)	0.078
CCR-5	Beryllium	mg/L	22	22	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-5	Cadmium	mg/L	24	23	96	0.001	0.001	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-5	Chromium	mg/L	24	7	29	0.0008	0.0018	0.000736	0.00513	0.0013	0.27	Decreasing	Trend (Theil- Sen Slope)	0.00055
CCR-5	Cobalt	mg/L	24	22	92	0.0032	0.0034	0.00025	0.002	NA	NA	NA	DL	0.0004
CCR-5	Fluoride	mg/L	27	7	26	0.04	0.835	0.026	20	0.1119	1.60	Increasing	Trend (Theil- Sen Slope)	0.086
CCR-5	Lead	mg/L	24	18	75	0.00046	0.0021	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-5	Lithium	mg/L	26	0	0	2.3	5.35			3.2569	0.29	Increasing	Nonparametric	2.50
CCR-5	Mercury	mg/L	23	21	91	0.00011	0.000233	0.00003	0.000152	NA	NA	NA	DL	0.00007
	Molybdenum	mg/L	26	23	88	0.0026	0.025	0.0005	0.00631	NA	NA	NA	DL	0.00085
CCR-5	Selenium	mg/L	26	15	58	0.00028	0.0312	0.00024	0.028	NA	NA	NA	DL	0.0044
CCR-5	Thallium	mg/L	24	22	92	0.0036	0.0056	0.000085	0.0017	NA	NA	NA	DL	0.000085

			Number			Minimum	Maximum	Minimum	Maximum					
Monitoring			of	Number	Percent	Detected	Detected	Detection	Detection			Concentration	LCL	
Location	Analyte	Units	Samples	of NDs	NDs	Result	Result	Limit	Limit	Mean ¹	CV	$Trend^3$	Distribution ²	95% LCL
CCR-6	Antimony	mg/L	23	23	100			0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-6	Arsenic	mg/L	26	12	46	0.00047	0.0073	0.00025	0.00586	0.0012	1.50	Decreasing	Nonparametric	0.00095
CCR-6	Barium	mg/L	26	2	8	0.0145	0.051	0.003	0.017	0.0283	0.43	Decreasing	Trend (Regression)	0.010
CCR-6	Beryllium	mg/L	22	22	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-6	Cadmium	mg/L	24	23	96	0.0003	0.0003	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-6	Chromium	mg/L	24	14	58	0.0009	0.021	0.000736	0.00513	NA	NA	NA	DL	0.0011
CCR-6	Cobalt	mg/L	24	23	96	0.0005	0.0005	0.00025	0.002	NA	NA	NA	DL	0.0004
CCR-6	Fluoride	mg/L	28	1	4	0.09	0.738	0.4	0.4	0.2285	0.60	Increasing	Trend (Theil- Sen Slope)	0.36
CCR-6	Lead	mg/L	24	22	92	0.00037	0.00041	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-6	Lithium	mg/L	26	1	4	0.045	1.47	0.06	0.06	0.3744	0.98	Increasing	Trend (Regression)	0.55
CCR-6	Mercury	mg/L	23	23	100			0.000011	0.000152	NA	NA	NA	DL	0.00007
CCR-6	Molybdenum	mg/L	26	11	42	0.0011	0.0362	0.00085	0.00631	0.0054	1.49	Increasing	Trend (Theil- Sen Slope)	0.0070
CCR-6	Selenium	mg/L	26	19	73	0.00033	0.00073	0.00024	0.027	NA	NA	NA	DL	0.00024
CCR-6	Thallium	mg/L	24	24	100			0.000085	0.0034	NA	NA	NA	DL	0.000085
CCR-7	Antimony	mg/L	23	22	96	0.0178	0.0178	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-7	Arsenic	mg/L	26	17	65	0.00051	0.0169	0.00025	0.00586	NA	NA	NA	DL	0.00046
CCR-7	Barium	mg/L	26	1	4	0.0076	0.1	0.017	0.017	0.0376	0.62	Decreasing	Normal	0.029
CCR-7	Beryllium	mg/L	22	22	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-7	Cadmium	mg/L	24	24	100			0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-7	Chromium	mg/L	24	11	46	0.0012	0.0028	0.000736	0.00513	0.0015	0.45	Stable	Normal	0.0011
CCR-7	Cobalt	mg/L	24	19	79	0.00041	0.001	0.00025	0.002	NA	NA	NA	DL	0.0004
CCR-7	Fluoride	mg/L	27	1	4	0.08	0.54	0.4	0.4	0.2474	0.48	Increasing	Trend (Regression)	0.25
CCR-7	Lead	mg/L	24	20	83	0.00039	0.0013	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-7	Lithium	mg/L	27	5	19	0.0032	0.34	0.0032	0.06	0.0561	1.33	Probably Increasing	Gamma ⁶	0.038
CCR-7	Mercury	mg/L	23	22	96	0.00007	0.00007	0.000011	0.000152	NA	NA	NA	DL	0.00007
	Molybdenum	mg/L	26	23	88	0.00053	0.0115	0.00085	0.00631	NA	NA	NA	DL	0.00085
CCR-7	Selenium	mg/L	26	19	73	0.00024	0.00043	0.00024	0.027	NA	NA	NA	DL	0.00024
CCR-7	Thallium	mg/L	24	24	100			0.000085	0.0034	NA	NA	NA	DL	0.000085

			Number			Minimum	Maximum	Minimum	Maximum					
Monitoring			of	Number	Percent		Detected	Detection	Detection			Concentration	LCL	
Location	Analyte	Units	Samples	of NDs	NDs	Result	Result	Limit	Limit	Mean ¹	CV	$Trend^3$	Distribution ²	95% LCL
CCR-8	Antimony	mg/L	23	21	91	0.0017	0.0058	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-8	Arsenic	mg/L	26	9	35	0.0013	0.0135	0.00221	0.00586	0.0029	0.87	Decreasing	Nonparametric ⁴	0.0025
				-								Probably	Trend	
CCR-8	Barium	mg/L	26	0	0	0.021	0.064			0.0361	0.33	Decreasing	(Regression)	0.017
CCR-8	Beryllium	mg/L	22	22	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-8	Cadmium	mg/L	24	24	100			0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-8	Chromium	mg/L	24	21	88	0.0007	0.0008	0.000513	0.00513	NA	NA	NA	DL	0.0011
CCR-8	Cobalt	mg/L	24	23	96	0.0012	0.0012	0.00025	0.002	NA	NA	NA	DL	0.0004
CCR-8	Fluoride	mg/L	28	1	4	0.23	0.4	0.4	0.4	0.3095	0.14	Increasing	Trend (Regression)	0.35
CCR-8	Lead	mg/L	24	23	96	0.00045	0.00045	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-8	Lithium	mg/L	26	12	46	0.0043	0.0491	0.00272	0.06	0.0111	1.04	Decreasing	Nonparametric	0.0088
CCR-8	Mercury	mg/L	23	23	100			0.000011	0.000152	NA	NA	NA	DL	0.00007
CCR-8	Molybdenum	mg/L	26	0	0	0.011	0.0238			0.0163	0.20	Stable	Normal	0.015
CCR-8	Selenium	mg/L	26	21	81	0.0003	0.0246	0.00024	0.027	NA	NA	NA	DL	0.00024
CCR-8	Thallium	mg/L	24	23	96	0.00015	0.00015	0.000085	0.0034	NA	NA	NA	DL	0.000085
CCR-9	Antimony	mg/L	23	22	96	0.0017	0.0017	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-9	Arsenic	mg/L	26	4	15	0.0019	0.0173	0.00221	0.0075	0.0054	0.62	Stable	Gamma	0.0045
CCR-9	Barium	mg/L	26	0	0	0.039	0.13			0.0840	0.30	Decreasing	Trend (Regression)	0.027
CCR-9	Beryllium	mg/L	22	22	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-9	Cadmium	mg/L	24	23	96	0.00058	0.00058	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-9	Chromium	mg/L	24	16	67	0.001	0.0023	0.000736	0.00513	NA	NA	NA	DL	0.0011
CCR-9	Cobalt	mg/L	24	24	100			0.00025	0.002	NA	NA	NA	DL	0.0004
CCR-9	Fluoride	mg/L	28	1	4	0.095	0.69	2	2	0.2421	0.59	Increasing	Trend (Theil- Sen Slope)	0.30
CCR-9	Lead	mg/L	24	21	88	0.00054	0.0028	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-9	Lithium	mg/L	26	2	8	0.0457	0.19	0.00272	0.06	0.1008	0.45	Decreasing	Trend (Regression)	0.021
CCR-9	Mercury	mg/L	23	23	100			0.000011	0.000152	NA	NA	NA	DL	0.00007
CCR-9	Molybdenum	mg/L	26	22	85	0.0014	0.0166	0.0005	0.00631	NA	NA	NA	DL	0.00085
CCR-9	Selenium	mg/L	26	13	50	0.00047	0.0015	0.0012	0.027	0.0010	0.31	Decreasing	Normal ⁴	0.00081
CCR-9	Thallium	mg/L	24	23	96	0.0048	0.0048	0.000085	0.0017	NA	NA	NA	DL	0.000085

			Number			Minimum	Maximum	Minimum	Maximum					
Monitoring			of	Number	Percent	Detected	Detected	Detection	Detection			Concentration	LCL	
Location	Analyte	Units	Samples	of NDs	NDs	Result	Result	Limit	Limit	Mean ¹	\mathbf{CV}	Trend ³	Distribution ²	95% LCL
CCR-11	Antimony	mg/L	23	22	96	0.0015	0.0015	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-11	Arsenic	mg/L	26	0	0	0.0513	0.14			0.0899	0.34	Decreasing	Trend (Regression)	0.031
CCR-11	Barium	mg/L	26	0	0	0.025	0.071			0.0528	0.19	Decreasing	Trend (Regression)	0.039
CCR-11	Beryllium	mg/L	22	22	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-11	Cadmium	mg/L	24	23	96	0.001	0.001	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-11	Chromium	mg/L	24	7	29	0.0012	0.0023	0.000736	0.00513	0.0016	0.25	Decreasing	Normal ⁴	0.0014
CCR-11	Cobalt	mg/L	24	23	96	0.0009	0.0009	0.00025	0.002	NA	NA	NA	DL	0.0004
CCR-11	Fluoride	mg/L	29	1	3	0.35	1.46	2	2	0.6376	0.52	Increasing	Trend (Theil- Sen Slope)	1.16
CCR-11	Lead	mg/L	24	17	71	0.00039	0.0014	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-11	Lithium	mg/L	26	15	58	0.004	0.0338	0.00272	0.06	NA	NA	NA	DL	0.0032
CCR-11	Mercury	mg/L	23	23	100			0.000011	0.000152	NA	NA	NA	DL	0.00007
CCR-11	Molybdenum	mg/L	26	19	73	0.00089	0.0149	0.0005	0.00631	NA	NA	NA	DL	0.00085
CCR-11	Selenium	mg/L	26	10	38	0.0013	0.0085	0.0012	0.027	0.0024	0.90	Decreasing	Nonparametric ⁴	0.0021
CCR-11	Thallium	mg/L	24	24	100			0.000085	0.0034	NA	NA	NA	DL	0.000085
CCR-12	Antimony	mg/L	23	23	100			0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-12	Arsenic	mg/L	26	0	0	0.00089	0.199			0.0580	0.78	Increasing	Trend (Theil- Sen Slope)	0.070
CCR-12	Barium	mg/L	26	0	0	0.0117	0.048			0.0174	0.41	Increasing	Trend (Theil- Sen Slope)	0.017
CCR-12	Beryllium	mg/L	22	22	100			0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-12	Cadmium	mg/L	24	23	96	0.0009	0.0009	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-12	Chromium	mg/L	24	19	79	0.0006	0.0024	0.000736	0.00513	NA	NA	NA	DL	0.0011
CCR-12	Cobalt	mg/L	24	21	88	0.0008	0.0015	0.00025	0.002	NA	NA	NA	DL	0.0004
CCR-12	Fluoride	mg/L	28	1	4	0.45	1.44	1	1	0.6420	0.32	Increasing	Trend (Theil- Sen Slope)	0.81
CCR-12	Lead	mg/L	24	23	96	0.001	0.001	0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-12	Lithium	mg/L	26	21	81	0.0139	0.26	0.00272	0.06	NA	NA	NA	DL	0.0032
CCR-12	Mercury	mg/L	23	23	100			0.000011	0.000152	NA	NA	NA	DL	0.00007
CCR-12	Molybdenum	mg/L	26	2	8	0.0056	0.0368	0.00085	0.00392	0.0121	0.70	Increasing	Trend (Theil- Sen Slope)	0.014
CCR-12	Selenium	mg/L	26	15	58	0.00032	0.0151	0.00024	0.028	NA	NA	NA	DL	0.0044
CCR-12	Thallium	mg/L	24	22	92	0.00035	0.0041	0.000085	0.0017	NA	NA	NA	DL	0.000085

D/I : 14 : 1			Number	Name	D4							Concentration	LCL	
Monitoring Location	Analyte	Units	of Samples	Number of NDs	NDs	Detected Result	Detected Result	Detection Limit	Detection Limit	Mean ¹	CV	Trend ³	Distribution ²	95% LCL
CCR-13	Antimony	mg/L	23	22	96	0.0014	0.0014	0.001	0.0123	NA	NA	NA	DL	0.0010
CCR-13	Arsenic	mg/L	26	13	50	0.00032	0.043	0.00046	0.00396	0.0037	2.43	Probably Decreasing	Nonparametric ⁴	0.00166
CCR-13	Barium	mg/L	26	0	0	0.01	0.053	-		0.0372	0.32	Stable	Nonparametric	0.037
CCR-13	Beryllium	mg/L	22	20	91	0.0002	0.0003	0.000101	0.00283	NA	NA	NA	DL	0.00034
CCR-13	Cadmium	mg/L	24	22	92	0.0003	0.0351	0.000181	0.0039	NA	NA	NA	DL	0.00034
CCR-13	Chromium	mg/L	24	8	33	0.001	0.0023	0.0011	0.00513	0.0017	0.27	Probably Decreasing	Normal ⁴	0.0015
CCR-13	Cobalt	mg/L	24	8	33	0.00077	0.0046	0.000354	0.002	0.0015	0.76	Stable	Normal ⁴	0.00058
CCR-13	Fluoride	mg/L	28	1	4	0.103	2.64	1	1	0.8686	0.69	Increasing	Trend (Regression)	1.60
CCR-13	Lead	mg/L	24	24	100			0.00035	0.0139	NA	NA	NA	DL	0.00035
CCR-13	Lithium	mg/L	26	1	4	0.011	0.32	0.0032	0.0032	0.2014	0.46	Probably Decreasing	Trend (Theil- Sen Slope)	0.096
CCR-13	Mercury	mg/L	23	22	96	0.000195	0.000195	0.000011	0.000152	NA	NA	NA	DL	0.00007
CCR-13	Molybdenum	mg/L	26	19	73	0.001	0.0121	0.0005	0.00631	NA	NA	NA	DL	0.00085
CCR-13	Selenium	mg/L	26	18	69	0.00032	0.0135	0.00024	0.027	NA	NA	NA	DL	0.00024
CCR-13	Thallium	mg/L	24	19	79	0.00009	0.00011	0.000085	0.0034	NA	NA	NA	DL	0.000085

Notes:

- 1 For data sets with any ND data and 50% or less NDs, the Kaplan-Meier mean and standard deviation are provided. For data sets without ND data, the arithmetic mean is provided. For data sets with greater than 50% NDs, no mean is provided.
- 2. For distribution = "Normal" and "Lognormal", the 95% LCL was calculated on the mean concentration.
- For distribution = "Trend (Regression)" or "Trend (Theil-Sen Slope)", the 95% LCL was calculated from the regression/Sen's slope line due to an increasing/decreasing trend.
- For distribution = "Nonparametric", the 95% LCL was calculated on the median concentration.
- For distribution = "DL", the 95% LCL was equivalent to the MDL.
- 3. The Mann-Kendall test was used to identify increasing or decreasing trends in the data with trends identified with a confidence level of 95% or more marked increasing or decreasing and those with a confidence level between 90% and 95% marked probably increasing or probably decreasing.
- 4. Trend is an artifact of varyng detection limits, therefore, the LCL was derived using a nonparametric method.
- 5. Data used in the statistical analysis are provided in Table 2.
- 6. There were two anamolously high concentrations in April 2018 and April 2019, but concentrations have been decreasing since April 2019. As such, a Gamma LCL was calculated instead of an LCL from the trend line.
- -- not provided because all data had either detected concentrations or was nondetect.
- CV coefficient of variation calculated as the ratio of the standard deviation to the mean
- LCL lower confidence limit
- mg/L milligrams per liter
- NA not applicable, statistic could not be calculated due to high percent of non-detects (>50% NDs)
- ND non-detect

APPENDIX E

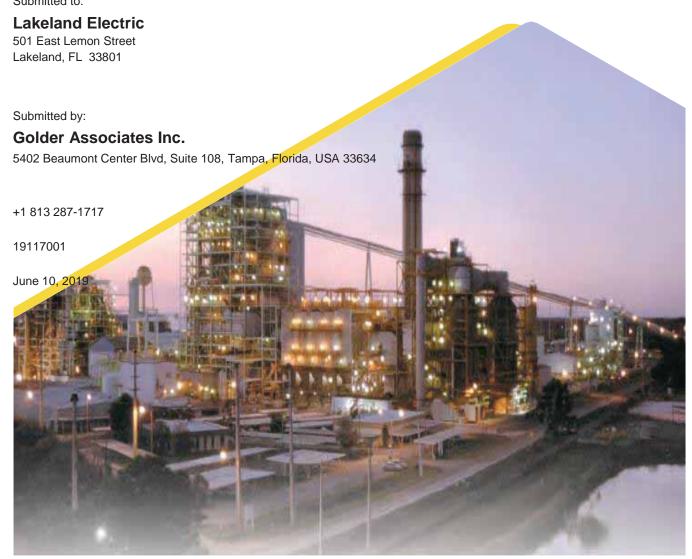
Alternate Source Demonstration for Radium 228 & 228 in Groundwater



ALTERNATE SOURCE DEMONSTRATION FOR RADIUM 226 & 228 IN GROUNDWATER BYPRODUCT STORAGE AREA C.D. MCINTOSH POWER PLANT

LAKELAND, POLK COUNTY, FLORIDA





Distribution List

Sean P. McGinnis, CHMM, Lakeland Electric



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APPENDICES

Appendix A	Soil Boring Logs and Location Map
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Appendix C	Record of Borehole Logs for CCR-2A, CCR-4A, CCR-5A, CCR-7A, CCR-13A, and CCR-14A
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Appendix E	Mineralogical Assessment prepared by Petrologic Solutions, Inc.



1.0 INTRODUCTION

Golder Associates Inc. (Golder), on behalf of Lakeland Electric, prepared this alternative source demonstration (ASD) report for combined radium-226 and radium-228 (referred to as radium-226+228) detected in groundwater samples collected from the monitoring well network installed pursuant to the Coal Combustion Residual (CCR) Rule¹ for the Byproduct Storage Area (BSA) at the C.D. McIntosh Power Plant (MPP or site). Figure 1 presents a site location map and Figure 2 presents a map of the BSA and associated CCR monitoring well network. A statistical analysis of assessment monitoring results identified certain Appendix IV constituents in the uppermost aquifer at statistically significant levels (SSLs) above the groundwater protection standards (GWPS) established for the constituents for the site. The rule allows the owner or operator of a CCR unit to demonstrate that the SSL(s) are due to a source other than the CCR unit—an alternate source.² The statistical analysis of assessment monitoring of the CCR monitoring well network identified radium-226+228, arsenic, and lithium to be present at SSLs above the respective GWPS in groundwater samples from CCR monitoring wells listed below (Golder 2018b):

Appendix IV Parameter	GWPS	CCR Monitoring Well at SSL
Arsenic	0.010 mg/L	CCR-11 and CCR-12
Lithium	0.040 mg/L	CCR-5, CCR-6, CCR-9, and CCR-13
Radium-226+228	7.94 pCi/L	CCR-4, CCR-5, CCR-7, CCR-13 and CCR-14

pCi/L - Picocuries per liter

mg/L - milligrams per liter

The BSA is a unit that historically has received CCR generated by Unit 3 at the MPP, including fly ash, bottom ash, synthetic gypsum and stabilized flue gas desulfurization (FGD) material. The BSA encompasses approximately 44 acres and is located east of Unit 3 and adjacent to Fish Lake, Lakes B, C, and D, the south sedimentation pond, and the Stackout pad (Figures 2 and 3). The BSA, constructed in the 1980s, is an abovegrade earthen containment unit surrounded by a perimeter ditch system.

² Chapter 40 CFR Section 257.95(g)(3)(ii).



¹ Chapter 40 Code of Federal Regulations (CFR), Part 257, Subpart D.

2.0 PURPOSE AND BACKGROUND

2.1 Purpose

The purpose of this report is to provide information about a potential alternate source(s) for radium-226+228 that has been detected in groundwater from CCR monitoring wells at SSLs. The report presents a literature review of naturally occurring radioactive soils at the site and surrounding area (study area) and results of groundwater and soil assessments conducted at the site in February and March 2019.

This ASD report presents a description of the BSA and associated CCR monitoring well network, regional geologic and hydrogeologic conditions, site-specific hydrogeologic settings, a discussion on naturally-occurring radionuclides present in soil, sediment, and groundwater in central Florida; historical mining operations in the study area and at the BSA; and a review of historic aerial photographs and topographic maps of the BSA. Site characterization involved the installation of several soil borings / soil sampling adjacent to the monitoring wells where radium-226+228 was at SSLs in groundwater, as well as, the installation of additional soil borings, soil and sediment sampling, installation of "nature and extent" monitoring wells located hydraulically downgradient of the BSA, and groundwater and surface water sampling to evaluate the nature and extent of radium-226+228, arsenic and lithium for the SSLs in groundwater. Figure 4 presents the CCR monitoring well network (CCR-1 through CCR-14) and recently installed monitoring wells (CCR-15 through CCR-23) and existing MMP compliance monitoring wells³ MW-24S, MW-25S, and MW-26S, which were used to evaluate the nature and extent of groundwater impacts at the BSA. Figure 4 also shows the location of soil borings drilled as part of site characterization. Site characterization included a geochemical assessment of select soil, sediment, and groundwater samples. This ASD also includes a mineralogical assessment for natural occurring radioactive minerals on select soil samples collected from the boreholes drilled adjacent to the CCR monitoring wells with radium-226+228 at SSLs above the GWPS (CCR-4, CCR-5, CCR-7, CCR-13, and CCR-14) and background well CCR-2.

2.2 Background

Radioactive decay products from naturally occurring radionuclides (e.g. uranium and thorium) are potential sources of radium-226+228 present in groundwater of the uppermost aquifer around and beneath the BSA. Past regional mineral resource evaluations reveal significant uranium-238 and other accessory constituents are associated with the phosphate ore that was mined at and near the BSA. Radium-226 and radium-228 are formed from the radioactive decay of uranium-238 and thorium-232, respectively. Radium-226 has a half-life of 1600 years and decays to form radon-222; radium-228 has a half-life of 5.8 years and decays to form actinium-228 (IAEA 2014).

Mining techniques used at the site prior to the construction of the BSA, typically resulted in fine-grained phosphatic materials (unrecoverable product) being left behind as mine tailings. Based on historic aerial photographs and topographic maps, a significant portion of the BSA footprint was constructed on previously mined land that was reclaimed (backfilled) with these fine-grained phosphatic mine tailings. Naturally occurring radionuclides are associated with phosphatic minerals, therefore, the mine tailings and unmined earth likely contain naturally occurring radionuclides. Also, a smaller portion of the land below ground surface (bgs) at the

³ MPP compliance monitoring is performed in accordance with the Conditions of Certification for the site.



BSA was likely unmined, due to mining limitations such as pit side-slope stability and setback considerations in proximity of surface water, roads, etc. Therefore, unmined phosphate minerals may exist in these areas.

Several soil borings drilled within the footprint of the BSA before its construction indicate the presence of phosphate materials, including the following:

- TH-10 (phosphate matrix material)
- TH-11 (clayey sand with phosphate)
- BH-11, TH-12 (sandy clay with phosphate)
- BH-13 (cemented silt with phosphate)

The locations of these, and other soil borings, and the associated cross-sections are shown in Appendix A.



3.0 REGIONAL AND SITE SETTING

3.1 Regional Geology

The MPP is located within the Central Florida Phosphate District, an area of economically important, high-grade phosphate deposits in the Lakeland Ridge and Polk Upland geomorphic provinces (Hurst and others 2016). Stratigraphic nomenclature in this District has evolved over the past 100 years, resulting in confusion when comparing literature discussing geology of the mining district. Lithologic/stratigraphic descriptions for older mines use stratigraphic nomenclature developed by Cathcart (1964). The updated stratigraphic nomenclature presented by Scott (1986 and 2016) is commonly used in more recent publications and is referenced in this summary report.

Stratigraphic units present in the region consist of (in descending order; youngest to oldest):

- Up to 25 feet (ft) of Holocene to Pliocene-age sands and clays occur in the Lakeland area (FGS 1991). The Holocene-age sands consist of laterally restricted deposits such as stream flood plains, beaches, swamps, marshes, and lakes. The Pleistocene to upper Pliocene-age sands and clays are locally phosphatic and generally occur as laterally consistent terrace deposits.
- The Miocene to Oligocene-age Hawthorn Group has an approximate thickness between 50 and 100 ft in the Lakeland area and is comprised of the Peace River and Arcadia Formations. In Polk County, the upper portion of the Peace River Formation includes the Bone Valley Member, which is characterized by phosphate-rich, pebbly- and clayey-sand soils overlain by weathered residuum (Scott 1988). Economic quantities of minable, phosphate-bearing minerals occur within the Bone Valley Member. The remainder of the Peace River Formation is undifferentiated, largely being comprised of sandy, phosphatic dolostone interbedded with laterally discontinuous layers of sand, clay, and limestone. The Arcadia Formation underlies the Peace River Formation and is comprised of clayey dolostone and limestone of the Tampa and Nocatee Members (Scott 1988). The top of the Hawthorn Group experienced significant karstic solutioning when sea levels declined, resulting in an irregular erosional surface with abundant depressions and hills. A layer of phosphatic conglomerate is located on this surface, providing further support that the contact between the surficial sands and clays and underlying Hawthorn Group is unconformable (Cathcart 1964). The estimated thickness of the Hawthorn Group in the vicinity of the MPP is approximately 40 to 60 ft (Cathcart 1964).
- Older units underlying the Hawthorn group in the region include the Suwannee Limestone, Ocala Limestone, Avon Park Formation and Oldsmar Formation. These units are Oligocene to Eocene age and are primarily comprised of limestone and/or dolostone, and generally do not contain economic quantities of phosphatebearing minerals.

3.2 Regional Hydrogeology

The regional hydrogeology is comprised of three major hydrostratigraphic units: the unconfined surficial aquifer, the intermediate aquifer/confining unit, and the Floridan aquifer. The following discusses each system in its regional context:

The unconfined surficial aquifer underlies all of Polk County and varies from less than 25 to 50 ft thick in northern Polk County (FGS, 1991). This water-table aquifer consists primarily of Holocene- to Pliocene-age sand, clay, shell, and phosphate deposits that are contiguous with the ground surface.



The base of the surficial aquifer system is formed by the clayey, less permeable beds of the Peace River Formation – Bone Valley Member (Scott 1988). The surficial aquifer system is used primarily for residential low-volume irrigation applications (e.g. lawn watering) where high discharge rates are not required (Scott 1988). Transmissivity within the surficial aquifer ranges from 2 to about 20 square ft per day (ft²/day), where fine clayey sand predominates, to greater than 5,000 ft²/day in shell beds (Golder 2005). Regional groundwater flow in the surficial aquifer typically mimics ground surface topography. The surficial aquifer is discharged by natural gravity flow, evapotranspiration, discharge to lakes, downward loss into underlying aquifers, and pumping from wells. The surficial aquifer is recharged by rainfall, infiltration and discharge from lakes, and stormwater.

- The hydrostratigraphic unit that underlies the surficial aquifer is referred to as the intermediate aquifer/intermediate confining unit. The intermediate confining unit is largely comprised of clayey sand, sandy clay and clays and underlying clayey dolomite and limestone of the Hawthorn Group.
- The confined, artesian Floridan aquifer is the principal aquifer in Polk County and is the source of major municipal, industrial, and irrigation water supplies. This aquifer occurs primarily within the Ocala Limestone and is locally hydraulically connected with the overlying intermediate aquifer/confining unit, where present, in areas where the confining unit is absent or breached. There is limited recharge to the Floridan aquifer near the MPP due to the presence of the confining unit. Transmissivity of the upper Floridan aquifer is highly variable, and ranges from less than 50,000 ft²/day to greater than 9,000,000 ft²/day. The potentiometric surface of the aquifer occurs at an elevation of approximately 75 ft above National Geodetic Vertical Datum or approximately 70 ft bgs in the area of the MPP with regional groundwater flow generally to the south-southwest (FGS 1991). Due to the relatively thick and continuous intermediate confining unit separating the Floridan aquifer from the surficial aquifer, exchange of groundwater between the two aquifers is limited beneath the MPP (Golder 2005).

3.3 Site Hydrogeology and BSA Monitoring Well Network

The BSA is underlain by two regional aquifers, the surficial aquifer and Floridan aquifer which are separated by an intermediate confining unit. The surficial aquifer represents the uppermost aquifer and is approximately 25 ft to 30 ft thick beneath the BSA (Golder 2005). The surficial aquifer consists primarily of Holocene- to Pliocene-age sand, clay, shell, and phosphate deposits. Groundwater in the surficial aquifer generally flows from topographic highs to topographic lows. Underlying the surficial aquifer below the BSA is the intermediate confining unit, which ranges in thickness from approximately 40 to 50 ft and consists of interbedded clay with silty to sandy clay, silt to clayey sand, sand to clayey silt, and limestone (Golder 2005). There is a small component of groundwater flow in the surficial aquifer that is vertically downward toward the intermediate confining unit, and Floridan aquifer. However, this vertical flow component is retarded by the clayey materials of the underlying intermediate confining unit (Golder 2005).

The CCR monitoring network at the BSA includes two background monitoring wells, CCR-1 and CCR-2, and twelve downgradient monitoring wells, CCR-3 through CCR-14⁴, installed at waste boundary and screened in the uppermost aquifer. Screened intervals in each of the monitoring wells, range from 15 to 25 ft bgs.

⁴ Monitoring well CCR-10 was abandoned and replaced with CCR-10R on March 13, 2018 (Golder 2018a)



Groundwater in the surficial aquifer beneath the BSA has been documented to flow radially away from the BSA, with flow to the north toward Lake B, to the west toward Fish Lake, and to the east toward Lakes C and D (Figures 5 and 6). An area to the southwest of the BSA is hydraulically upgradient or side-gradient to the BSA, depending on site conditions that affect groundwater flow (e.g., surface water elevations, amount of precipitation, etc.), while the areas to the west, north and east are hydraulically downgradient of the BSA.



4.0 REGIONAL PHOSPHATE MINING

Land-pebble phosphate, hard-rock phosphate, and river-pebble phosphate are the three types of phosphatic ore found in Florida. The BSA is in one of the most productive areas of the land-pebble phosphate mining district. The land-pebble phosphate district was of economic interest not only to the minerals and fertilizer industry, but also to the United States Atomic Energy Commission (USAEC) during the twentieth century because land-pebble deposits contain a type of phosphate with elevated concentrations of uranium (Cathcart 1949). This section summarizes historic stratigraphy of mined land⁵ near the BSA, uranium associated in the economic mining of calcium phosphate and aluminum phosphate zones, and the history of mining in the study area.

4.1 Historic Mining Related Stratigraphy

The stratigraphy near the BSA that was likely disturbed by historic mine activities, is presented below:

- Surface deposits consisted of windblown sand and swamp muck that range in thickness of up to 5 ft (Cathcart 1964).
- The Bone Valley Member⁶ is divided into two distinct stratigraphic units, an upper unit of clayey sand and a lower phosphatic unit. The upper unit ranged in thickness from 0 to 25 ft and averaged about 8 ft (Cathcart 1964). It included light-colored clayey sand containing traces of phosphate nodules at the unit's base characterized by kaolinite and aluminum phosphate minerals.
- The contact between the upper and lower units of the Bone Valley Member is gradational over a few inches throughout most of the United States Geological Survey (USGS) Lakeland, Florida 7.5-minute quadrangle (Cathcart 1964). The lower unit ranges in thickness from minimal thickness to 35 ft, averages about 10 ft and contains most of the economic phosphate (Cathcart 1964). This unit is predominantly a clayey sand or a sandy clay, but beds of loose phosphate sand or fine-grained conglomerate are common. Beds of the lower unit locally contain phosphate nodules that range in size from fine sand to gravel (coarse pebble). The phosphate nodules are predominantly light colored—white, light brown and tan, gray; however, a few are amber or black.
- Due to mining, most of the Bone Valley sediments have been removed and reworked to recover phosphate. Mining in the vicinity of the BSA likely extended and stopped before, at, or slightly into the upper part of the Arcadia Formation, which underlies the Peace River Formation (Bone Valley Member). The upper portions of the Arcadia Formation consist of clayey sand and the lower portion of the formation is calcareous, and correlates to the upper portion of the intermediate confining unit at the site.

4.2 Uranium Associated with the Calcium Phosphate and Aluminum Phosphate Zones

The aluminum phosphate zone is formed by downward-percolating acidic water. The aluminum phosphate zone is not a stratigraphic unit but may include the various named and/or renamed beds/members of the Bone Valley strata. The physical and chemical characteristics of the zone vary.

⁶ Later in the twentieth century the stratigraphic nomenclature was refined such that Bone Valley Formation isn't currently used, rather, the recent nomenclature includes Peace River Formation and its upper unit is the Bone Valley Member, both of which belong to the Hawthorn Group.



⁵ Historic stratigraphic nomenclature differs from the regional/site geology included in Section 3 of this report.

Typically, it is a white, light gray, tan, or gray-green clayey sand containing no visible phosphate except near the base, and in some areas the base of the zone is characterized by lumps, fragments, or beds of sandrock. According to Altschuler, Clarke, and Young (1958), the most completely leached part of the zone is characterized by the aluminum phosphate mineral wavellite, the less weathered parts by calcium aluminum phosphate minerals, and the unweathered part by the calcium phosphate mineral carbonate-rich fluorapatite. The principal clay mineral in the weathered (leached) parts is kaolinite, whereas montmorillonite is characteristic of the unweathered parts. The aluminum phosphate zone is high in uranium, which typically is concentrated in the finest (slime) fraction (Cathcart 1964).

The calcium phosphate zone within the Bone Valley Member underlies the aluminum phosphate zone. Both the aluminum phosphate and calcium phosphate zones are present at the borehole drilled in 1953 by the USAEC, at the 40-acre tract where the southern region of the BSA and the other 26 holes drilled in 1953 at the Lake Parker Tract (Cathcart 1964) (see Section 4.3 of this report). The calcium phosphate zone consists of unconsolidated sand, clayey sand, and sandy clay containing abundant nodules of calcium phosphate. The ore zone, referred to by miners as the matrix section, is contained with the calcium phosphate zone (Cathcart 1964). In general, the coarse phosphate fraction (+20 or +24 mesh) of the calcium phosphate zone contains less phosphorus pentoxide (P_2O_5) and generally more uranium than the fine phosphate fraction (-20 to +150 mesh), which is characteristic of the land-pebble phosphate district (Cathcart 1964). At the Lake Parker Tract (nearest the BSA), however, the coarse phosphate fraction contains more P_2O_5 than the fine fraction (Cathcart 1964). The following is based on the analyses the borehole drilled in 1953 by the USACE at the 40-acre tract where the southern portion of the BSA exists, in accordance with Cathcart (1964):

- Uranium is removed (leached) from the coarser (pebble and sand) fractions of the sample collected from approximately 17 to 26 ft below the 1953 ground surface,
- Uranium is concentrated to some degree in the fine slime fraction of the same 17 to 26 ft bgs sample, and
- Uranium is highly concentrated in the pebble and slime fractions of the 26 to 30 ft bgs sample.

4.3 History of Mining in the Vicinity of the BSA

Mining for phosphate was active at several locations in the Lakeland Quadrangle from about 1914 through the 1980s. Some areas that were completely mined in the early twentieth century exist today as lakes, indicating that mining was likely hydraulic⁸ instead of dragline (Cathcart 1964). Early mining, approximately three miles south of Lake Parker in the Pauway area, was by hydraulic methods for the pebble fraction only; later mining was by dragline for the overburden, but hydraulic monitors (water cannons) were used to move ore (Cathcart 1964). Some washer debris from early mine operations was in part re-mined (Cathcart 1964), but the technology at that time was insufficient at recovering the finer grain-size phosphate, thus finer materials were not recovered or were returned to the mine cut (Moudgil, 1992).

⁸ Hydraulic mining is performed using high-pressure jets of water to dislodge rock material.



⁷ Slimes refers to fines, like silts/clays, passing a 150 mesh screen – less than approximately 0.1 millimeter in diameter. The fraction likely left behind and/or unmined at the BSA.

The American Cyanamid Co. operated its Saddle Creek Mine (T28S/R24E) from 1942 to 1957, and subsequently moved to the Orange Park Mine (Cathcart 1964). The Saddle Creek area was mined with draglines; both pebble and flotation concentrates⁹ were recovered. The Orange Park Mine (T27S/R24E) started operating in April 1957 and was active in the 1960s (Cathcart 1964). Mining was by large draglines, flotation cells were used, and hydrocyclones¹⁰ were used for primary desliming. Coronet Phosphate Co. began operation of its Tenoroc Mine (T27S/R24E) in 1951, and the mine continued to operate into the 1970s while the MPP was being developed. Mining at Tenoroc was for flotation concentrate and pebble; draglines were used to mine the overburden and phosphate (Cathcart 1964).

4.3.1 Lake Parker Tract

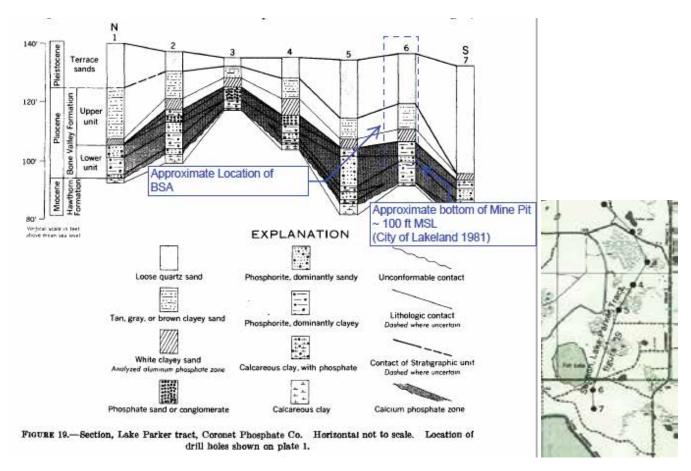
The Lake Parker tract included nearly 1,300 acres in portions of Sections 28 and 33: T27S/R24E, and Sections 3 and 4: T28S/R24E. The BSA, Fish Lake, and Lakes B, C, and D exist in portions of the same Sections. In 1953, the mining company, Coronet Phosphate Company, drilled 27 holes, under contract to the USAEC, at a spacing of 1 hole per 40-acre block (Cathcart 1964)¹¹. The calcium phosphate zone, which includes the economic phosphate deposit, and the aluminum phosphate zone, which includes some possibly economic phosphate and concentrated uranium, are both present in all 27 holes in the Lake Parker tract. Relations of the two zones are graphically shown below.

¹¹ The Lake Parker tract had not been mined as of the 1964 reference publication date. The area that has recently become the Florida Fish and Wildlife Conservation Commission Teneroc Public Use Area (PUA) was extensively surface mined for phosphate through 1978. The western portion of the PUA was part of a wetland system associated with Lake Parker. The area that became Tenoroc was extensively surface-mined between 1950 and 1978 by the Coronet Phosphate Company, the Smith-Douglass Company, and Borden, Inc.



⁹ Concentrate refers to the fine phosphate product, 1.17 mm to 0.104 mm in grain size. Material of this grain size is treated in flotation cells to separate the phosphate from the quartz sand. The phosphate product is the concentrate (Cathcart 1963, page 11).

¹⁰ Hydrocyclones are typically funnel-shaped equipment used to separate materials by particle size.



Source for above base imagery: Cathcart 1964 – Image to the right of the section depicts approximate section/drill hole locations from Plate 1. Drill hole locations #6 and #7 are nearest the BSA location. Appendix B to this report includes a copy of the City of Lakeland 1981 Landfill Design Survey Drawing No. 229101.

Results of the analyses performed for the USAEC on samples collected in 1953 from the same 40-acre tract where the south region of the BSA exists are summarized below:

Table 18.—Analytical data, aluminum phosphate zone, NE%NW% sec. 4
T. 28 S., R. 24 E.

[Leaders (....) = below limit of detection, taken as 0.0 percent. Analyses by Coronet Phosphate Co. chemists, under contract to the U.S. Atomic Energy Comm. Pebble = +20 mesh; sand = -20+150 mesh; slime = -150 mesh; head = computed from pebble, sand, and slime fractions. From 0 to 17 ft below surface is loose quartz sand, not sampled; from 30 to 44 ft is calcium phosphate zone]

Fraction	Weight		Chemical analyses, in percent									
	percent	P2O5	CaO	Insolu ble	Al ₂ O ₃	Fe ₂ O ₃	U					
	Top s	ample; 17-	26 ft belov	v surface								
Pebble Sand Slime Head	0. 3 70. 4 29. 3 100. 0	2, 55 , 33 6, 79 2, 23	1. 01 3. 36 . 90	92, 42 98, 13 64, 74 88, 24	2. 18 . 28 14. 62 4. 48	0. 42 . 18 . 40 . 25	0.0001 .010 .002					
	Bottom	sample; 2	6-30 ft belo	ow surface	'							
PebbleSandSlimeHead	0. 5 62. 4 37. 1 100. 0	14. 18 . 80 5. 08 2. 45	8. 52 2. 77 1. 50 2. 33	56, 57 96, 63 72, 81 87, 61	11. 96 . 85 12. 50 5. 22	0. 68 . 17 . 28 . 21	0. 047 . 001 . 022 . 010					

Source for above: Cathcart 1964.

The Top sample (17 to 26 ft bgs) tabulated above is described as more thoroughly leached, has less calcium oxide (CaO) and uranium, and slightly less P_2O_5 than the Bottom sample (26 to 30 ft bgs); both have similar aluminum oxide (Al_2O_3) concentrations. The P_2O_5 content, originally as apatite (calcium phosphate), is dissolved and combines with alumina to form the relatively insoluble aluminum or calcium aluminum phosphate minerals. Uranium is not taken up by the aluminum phosphate minerals but combines with the calcium phosphate minerals. Uranium is removed from the coarser fractions of the top sample, is concentrated to some degree in the slime fraction¹² of the top sample and is highly concentrated in the pebble and slime fractions of the lower sample (Cathcart 1964).

4.3.2 Orange Park Mine

The Orange Park Mine consisted of two tracts of land: The Orange tract and the Park tract.

- The Orange tract included land in Section 28: T27S/R24E which includes the north portion of Lake B, which is adjacent to the BSA. Lake B extends into Section 28.
- The Park tract included land in Section 33: T27S/R24E, which includes portions of the BSA, Fish Lake, Lake B, and Lake C; and in Section 5: T28S/R24E, which includes portions of the MPP, Lake Parker, and Horseshoe Lake.

¹² Slimes refers to fines, like silts/clays, passing 150 mesh screen – less than approximately 0.1 millimeter in diameter, which represent the fraction likely left behind and/or unmined at the BSA.

The American Cyanamid Company started mining in the Orange tract in 1957. In 1954, the company drilled 57 holes at the Orange tract and 33 holes at the Park tract, under contract to the USAEC, spaced one in each 40-acre tract in effort to cover most of the property.

In the southern part of the area (in the Park tract), the calcium phosphate zone averaged 9 ft in thickness and included rocks¹³ of the Hawthorn Group, Bone Valley Member and/or Peace River Formation at almost every drill hole. The relations are depicted below: the calcium phosphate zone is entirely within the Hawthorn Group Peace River Formation at hole A (shown as Hawthorn Formation on log); at hole B, the calcium phosphate zone is divided about equally between the Hawthorn Group, Peace River Formation and Bone Valley Group (shown as Bone Valley Formation on log); and, at hole C, the calcium phosphate zone is entirely within the Bone Valley Group (Cathcart 1964).

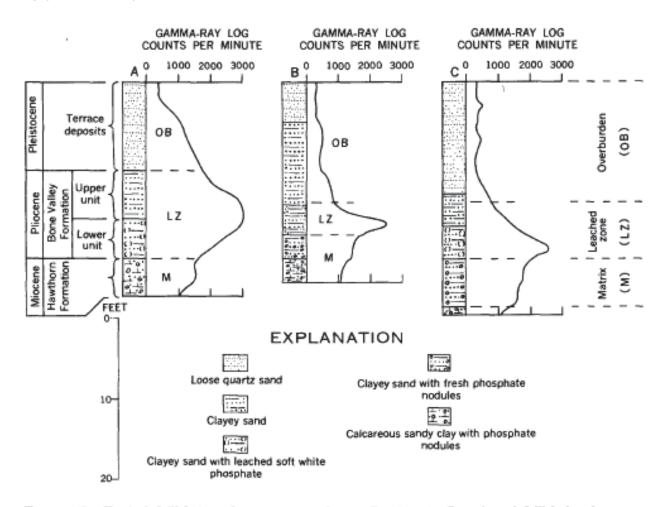


Figure 17.—Typical drill hole and gamma logs, Orange Park tract. Location of drill holes shown on plate 1.

Source for above: Page G86 Cathcart US Geologic Survey (USGS) 1964.

¹³ In more recent stratigraphic nomenclature, this rock mentioned by Cathcart (1964) likely limestone or dolomite, is likely phosphatic, would today likely be assigned to the Arcadia Formation of the Hawthorn Group.



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Teneroc Mine 4.3.3

The Tenoroc Mine is located just east of the BSA with the nearest operations approximately one mile from the BSA in Section 34: T27S/R24E and Section 2 and/or 3: T28S/R24E. Mining by Coronet Phosphate Company started in 1951. In 1953, the company drilled 39 holes under contract to the USAEC. In an area of about 2,000 acres, the holes were drilled at a spacing of one in each 40 acres. One sample each of the aluminum phosphate zone and the calcium phosphate zone were collected at each drill hole and were analyzed. Select laboratory and drilling results for samples, including samples from the Teneroc Mine are listed in Tables 8 and 13 and Figure 18 from Cathcart 1964. The analytical data, screen data, and stratigraphic and economic geologic cross-section shown below further demonstrate the abundance of phosphate present in the study area.

Table 8.—Analytical data, calcium phosphate zone, Lakeland quadrangle [NA, no analysis reported. Analytical data by American Cyanamid Co. and Coronet Phosphate Co., under contract to the U.S. Atomic Energy Comm.]

Number	Location	Fraction	C	r.	Ratio		
of drill holes		(mesh size)	P3O6	I and A1	Acid insol- uble	σ	U:P ₂ O ₅ (average)
90	Park and Orange tracts, T. 27 S., R. 24 E.	+20 -20+1502 -150	33. 9 35. 0 19. 8	2,39 2,28 12,85	7.20 4.24 32.57	0.012 .010 .011	1;2820 1:3500 1;1800
39	Tenoroc mine, T. 27 S., Rs. 24 and 25 E.	Head*	23.1 31.8 35.2 14.7 12.1	2,33 1,83 NA	8.14 1.88 42.69	.008 .015 .010 .011	1;2120 1;3520 1;1340
27	Lake Parker tract, T. 28 S., R. 24 E.	+24 -24+150 ² -150 Head ³	32.2 31.4 16.8 12.6	3.31 2.01 NA	9. 67 2. 30 39. 55	.015 .012 .010 .006	1:2150 1:2620 1:1680

Percent Fe₂O₃+Al₂O₃.

Concentrate fraction—quartz sand removed by flotation.
 Calculated, assuming that the sand tailing contained 2 percent P₂O₃ and 0.002 percent U.

Table 13.—Summary of screen data and chemical analyses, aluminum phosphate zone, Lakeland quadrangle

[Analyses by American Cyanamid Co. and Coronet Phosphate Co., published with permission]

							•	•	
Number of samples	Screen data		Chemical analyses, in percent					Ratios	
	Size	Weight percent	P ₂ O ₅	CaO	υ	Al ₂ O ₃	Fe ₂ O ₃	CaO:P2O3	U:P2O4
Lake Parker tract, T. 27 S., R. 24 E.; T. 28 S., R. 24 E.									
27	+24 +150 -150 Head	1. 1 68. 4 30. 5 100. 0	13.09 .72 6.10 2.52	3. 97 . 08 3. 64 1. 24	0.009 .0001 .012 .004	11. 50 . 56 8. 28 3. 05	0.56 .26 .71 .40	0.303 .111 .597 .492	1:1450 1:510 1:630
Tenoroc mine, T. 27 S., R. 24 E.; T. 27 S., R. 25 E.; T. 28 S., R. 24 E.									
39	+24 +150 -150 Head	0. 7 72. 1 27. 2 100. 0	11. 99 . 52 5. 42 1. 93	5. 88 - 37 3. 65 1. 30	0.005 .0001 .009 .0025	8. 42 . 41 6. 94 2. 28	0.80 .31 .86 .46	0.490 .712 .673 .674	1:2390 1:600 1:770
			Oran	ge tract,	T. 27 S., R	. 24 E.			
57	+20 +150 -150 Head	1, 5 56, 7 41, 8 100, 0	26. 02 2. 25 8. 66 5. 29	28. 03 2. 08 6. 26 4. 23	0.015 .002 .017 .008	8. 29 . 78 11. 10 5. 17	0. 69 . 36 1. 22 . 72	1. 077 . 924 . 723 . 800	1:1630 1:1130 1:510 1:660
			Par	k tract, 7	r. 27 S., R.	24 E.			
33	+20 +150 -150 Head	3. 2 52. 0 44. 8 100. 0	31. 84 3. 85 14. 63 9. 58	34. 09 3. 94 14. 05 9. 44	0. 016 . 003 . 018 . 010	8. 11 . 94 11. 64 5. 97	0.91 .41 1.89 1.09	1. 071 1. 023 . 960 . 985	1:1990 1:1280 1:810 1:960

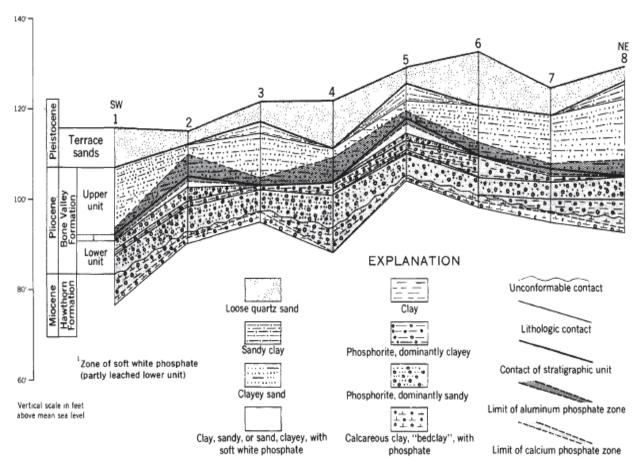
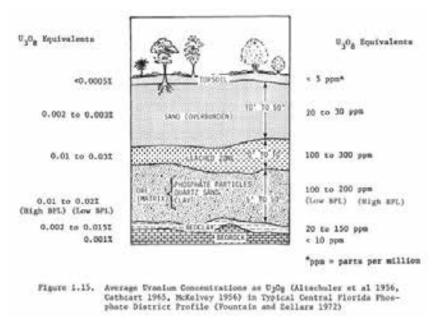


Figure 18.—Section, Tenoroc mine, showing relations of stratigraphy and economic geology. Horizontal not to scale. Location of drill holes shown on plate 1.

5.0 NATURALLY-OCCURING RADIONUCLIDE DISCUSSION

The following discussion provides information on the naturally-occurring radionuclides in the regional vicinity of the BSA:

- The Bone Valley Member contains high-grade phosphate rock in land-pebble form and is present and/or was mined just before construction of the BSA. In a report prepared for the USAEC, the USGS indicates the uranium occurrences in the Bone Valley Member were up to 0.1 percent (100 milligrams per kilogram or parts per million (ppm)) and are associated with the land pebble phosphate (Cathcart 1949).
- The BSA is located on former phosphate mined land which also included a mining pit/lake. The BSA and surrounding properties were mined in the early 1970s, at which time only coarser-grained pebble phosphate was recovered and the finer-grained (sand, silt, and clay) phosphate and associated minerals were left behind. An estimate of 20 to 30 percent of the phosphate (contained in the ore) is left behind with these finer-grained materials and/or returned to the mine cut or clay settling pond (Moudgil 1992). The mined land and lake were likely left behind with and/or infilled with these finer-grained material leftovers from mining and surrounding overburden.
- The southeastern coastal marine sediments of the Bone Valley Member contain naturally occurring phosphate minerals. Uranium and its decay products occur in significant quantities within these phosphate minerals and during the mid-1990s, 20 percent of the uranium produced in the United States was extracted from phosphate deposits in central Florida as a byproduct of fertilizer production (World Nuclear Association 2015).
- A typical Central Florida Phosphate district profile with average uranium concentrations listed per stratum is depicted below:



Source for above: Environmental Impact Statement: Central Florida Phosphate Industry: Volume II Background and Alternatives
Assessment. EPA Nov 1978.



■ Uranium in leached- and matrix-zones exhibits typical concentrations between 100 and 300 parts per million (ppm), which is approximately 1 to 2 orders of magnitude higher than U.S. coals and fly ash, respectively, as depicted below (USGS 1997, Figure 2):

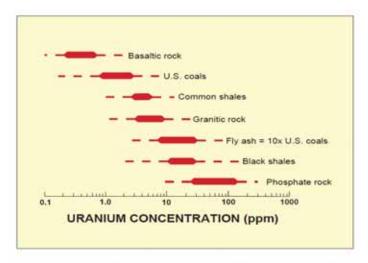
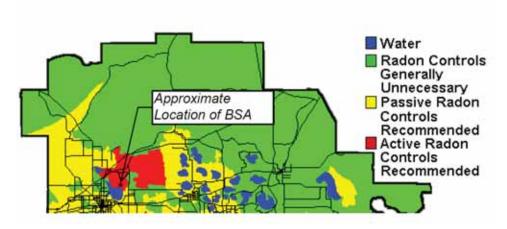


Figure 2. Typical range of uranium concentration in coal, fly ash, and a variety of common rocks.

Source of Figure 2 above: USGS 1997 Fact Sheet FS-163-97

According to the Florida Department of Health (FDOH), the MPP is located in an area that is known to contain so much naturally-occurring radon, which is a daughter product of radium-226 decay, that the FDOH suggests buildings designed for construction on reclaimed mined land include active engineering controls in the effort to mitigate potential adverse health effects associated with human exposure to the natural radon gas. The following image is an excerpt from the Radon Protection Map for Polk County and depicts the approximate location of the BSA.



Source of above image of northern Polk County: http://www.floridahealth.gov/environmental-health/radon/maps/_images/POLK_LB.GIF (accessed November 16, 2018).

■ Elevated levels of radon in structures built on reclaimed land suggest uranium and radium concentrations at shallow depths may be elevated relative to pre-mining levels. This is considered to occur when discarded fine-grained ore and leach zone materials are mixed with overburden materials as part of overall reclamation (Kaufman and Bliss 1977).

- Radon is a noble gas that sorbs little and does not participate in ion exchange; thus, its concentration can increase to high levels. Due to the short half-life (3.8 days) of radon-222, an abundance of radium-226 in subsurface materials is required to sustain high radon-222 levels (Miller 1985).
- Analysis by Miller (1985) suggests that a major fraction of radium-226 is released by alpha-particle recoil of thorium-230 or its precursors (uranium-234, protactinium-234, thorium-234, and uranium-238) to groundwater. Mineralized water competes with radium-226 for ion exchange and sorption sites and consequently results in elevated concentrations of dissolved radium-226. Miller contends that this process may explain the radium-226 concentrations present in groundwater in phosphate mining areas of Polk County.



6.0 AERIAL PHOTOGRAPHS AND TOPOGRAPHIC MAP SUMMARY

Based on Golder's review of documents including historic aerial photographs and topographic maps:

The ground beneath BSA includes an area in the northeast region of the BSA identified as an abandoned phosphate pit (apparently the former southern finger of what is now identified as Lake B).

- Mining of the BSA and vicinity was active from 1971 through 1975.
- The western portion of the BSA likely was not mined as deep as other portions or at all due to mining limitations like pit side-slope stability setback considerations in proximity of surface water, roads, structures, etc., and therefore, phosphate matrix likely exists in these areas.

A summary of select historic aerial photographs and topographic maps reviewed is provided below. Appendix B provides copies of the photographs and maps:

Before the BSA:

- 1964 Plate 1 USGS Bulletin 1162-G (Cathcart 1964): includes approximate drill hole locations #6 and #7 along the Lake Parker Tract section line depicted in Section 4.3. of this report, drill hole locations #6 and #7 are nearest the BSA.
- 1968 Aerial Photograph: the east bank Horseshoe Lake is visible on the left side of the photograph. BSA vicinity prior to mining or site development activities.
- 1971 FDOT Aerial Photograph: An apparent dragline and perhaps pipelines are visible near the active mining just off the northeast corner of the BSA area.
- November 30, 1971 Aerial Photograph: Mining appears to be starting in the BSA area based on the ground surface appears to be stripped, and some tanks, pipelines, and/or a dragline is visible in the upper west area of the BSA near fish Lake.
- December 2, 1972 aerial photograph (on 1975 USGS Topographic Map): There is a region that appears to have been unmined and seems to have cast overburden at the western portion of the BSA south of Fish Lake between the visibly mined area and where the MPP generating area is now located and shore of Lake Parker, but some mining overburden may have been placed in this area. The mine pits appear to be holding water in the area where Lakes B, C, and D are currently located.
- 1973 Aerial Photograph (provided by Lakeland Electric with labels): Lake D appears to be undergoing mining. Some mine processing equipment appears to exist due south and near the bank of Fish Lake (near the approximate locations of monitoring wells CCR-13 and CCR-14).
- 1975 Aerial Photograph taken February 1, 1975 included on Map 2.1.1 Aerial Topographical Map dated 3/27/1978 for City of Lakeland MPP: mining appears to be recently active in the east and north areas of the BSA. South of the BSA and in the western/southernmost vicinity of the BSA the area is identified as, "Proposed Plant Boundary", and there is a region that appears to have been unmined and seems to have cast overburden at the western region of the BSA south of Fish Lake at the western region of the area between the visibly mined area and the MPP generating area and shore of Lake Parker.



November 26, 1977 Aerial Photograph: Lakes B, C, and D created and left behind by the phosphate mining are visible. Mining does not appear to be actively ongoing in the photograph.

Post-Commencement of development of the Unit 3 at MPP:

- 1980 Aerial Photograph: Plant construction laydown roads (also drawn on the June 12, 1981 Existing Site Plan map) in the west area of the BSA are visible and some equipment/materials can be seen staged in this area. Lakes, including Lake B in the north BSA, created and left behind by the phosphate mining are visible.
- June 12, 1981 Existing Site Plan and April 7, 1981 Phase I Site Preparation Grading Plan for the City of Lakeland MPP landfill design: Topographic contours surveyed and depicted in the Lake B finger are labeled as abandoned phosphate mining pit in the BSA area. The pit appears to be approximately 20 ft deep with a base elevation of approximately 100 ft (USC&G Survey Datum).
- March 2, 1984 Aerial Photograph: A finger of Lake B, which is a manmade lake formed by mining, is visible in the BSA area. Lakes C and D, which were manmade by mining appear possibly interconnected.



7.0 SITE CHARACTERIZATION FOR RADIUM-226+228

The literature review for an ASD for radium-226+228 in groundwater is supported by data obtained from the February / March 2019 site characterization of and around the BSA, which was completed as part of the nature and extent investigation for radium-226+228, arsenic, and lithium SSLs in groundwater under the auspices of the assessment of corrective measures for the site. An assessment of corrective measures report will be included in the facility's operating records in accordance with §257.105(h)(10).

7.1 Field Investigation

Site characterization field investigation activities included an underground utility survey, collection of soil samples for a mineralogical assessment and chemical analysis, monitoring well installation and development, staff gauge installations, water-level data collection, and surface and groundwater sampling and analysis. Figure 4 presents locations of soil borings and monitoring wells installed and sampled as part of the site characterization.

Six boreholes were drilled using direct push technology (DPT) at locations adjacent to the CCR monitoring wells with radium-226+228 SSLs (CCR monitoring wells CCR-4, CCR-5, CCR-7, CCR-13, and CCR-14) and background CCR monitoring well CCR-2. These soil borings, designated CCR-2A, CCR-4A, CCR-5A, CCR-7A, CCR-13A, and CCR14A, were drilled to 30 ft bgs, and the soil boring logs are presented in Appendix C. Sixteen soil samples were collected from these six soil borings, ranging from 7 ft bgs to up to 29 ft bgs, for analysis. The soil samples are representative of the saturated uppermost aquifer downgradient of the BSA. A detailed mineralogical assessment of these 16 soil samples was conducted by Petrologic Solutions, Inc. under subcontract to Golder (see Section 7.2).

Nine soil borings were also advanced using DPT at proposed nature and extent monitoring well locations CCR-15 through CCR-23 to a depth of approximately 25 ft bgs. Soil samples were collected from these borings, as well as from soil boring CCR-4A, from approximately 24 ft bgs to 25 ft bgs and submitted, under chain-of-custody, for laboratory analysis of total uranium, iron, aluminum, arsenic, lithium, and phosphorus via EPA¹⁴ Method 6020B, and for radium-226 and radium-228 via EPA Method 9315 and 9320, respectively, for samples from soil borings CCR-4A, CCR-15, CCR-16, CCR-18, CCR-22, and CCR-23. Soil samples were also collected from soil boring CCR-4A and from the soil borings advanced for the installation of nature and extent monitoring wells CCR-16 and CCR-20, from approximately 24 ft bgs to 25 ft bgs, and submitted, under chain-of-custody, for laboratory analysis of aluminum, arsenic, iron, and lithium via sequential extraction (EPA Method SW846 6010B SEP).

One shallow soil sample and one shallow sediment sample were also obtained from ground surface to 0.5 ft bgs. The soil sample, designated GSB-1, was collected east of the BSA and the sediment sample, designed Fish Lake-Sed, was collected from the bank of Fish Lake. Both samples were submitted under chain-of-custody for laboratory analysis. Soil sample GSB-1 was analyzed for total uranium, iron, aluminum, arsenic, lithium, and phosphorus via EPA Method 6020B and sediment sample Fish Lake-Sed was analyzed for total organic carbon via EPA Method Walkley-Black (USEA 2004a).

¹⁴ EPA: United States Environmental Protection Agency.



A larger-diameter borehole was drilled, using hollow-stem auger drilling techniques, at locations where soil borings where previously drilled using DPT, to facilitate the installation of nature and extent monitoring wells CCR-15 through CCR-23. The monitoring wells were constructed of 2-inch diameter, flush threaded schedule 40 polyvinyl chloride (PVC), bottom cap, 0.006-inch slotted, 10-foot screen, and riser section.

The borehole annulus was filled with 30-45 graded silica sand to approximately 2 feet above the top of the screen interval, with approximately 2 feet of 3/8-inch bentonite chips placed atop. The remaining annulus was filled from bottom to top via tremie method with a neat Portland cement grout to just below ground surface. Monitoring wells CCR-15 through CCR-22 were completed above-grade with locking well caps and aluminum protective casings set into 2-foot by 2-foot by 4-inch concrete pads. Bollards were installed around each monitoring well for visibility and damage protection. Monitoring well CCR-23 was installed below grade, in a flush-mounted well casing set into a rebar reinforced 2-foot by 2-foot by 4-inch concrete pad without bollards (the well is installed in an access road). The newly-installed nature and extent monitoring wells were surveyed for elevation (top of well casing) and location and staff gauges were installed in Fish Lake and Lakes B, C, and D for surface water level elevation. Table 1 presents a summary of monitoring well construction details.

After development of the newly-installed wells, groundwater was collected from nature and extent monitoring wells CCR-15 through CCR-23, MW-24S, MW-25S, and MW-26S. Surface water samples were also obtained from Fish Lake, and Lakes B, C, and D. Chemical/geochemical analysis of groundwater and surface water samples included field parameters and radionuclides, nutrients, and major cations and anions. The rationale and methods used are as follows:

Field Parameters: Parameters measured in the field included pH, dissolved oxygen, oxidation reduction potential (ORP), conductivity, and temperature. These parameters were used to evaluate general geochemical conditions in the groundwater and support geochemical modeling.

Metals: Analysis of Appendix III and IV metals and uranium to better understand the geochemical composition of groundwater and surface water. Metals analysis allows for the delineation of a potential plume, evaluation of mineral saturation indices, and evaluation of background contributions from natural sources or anthropogenic sources (USEPA 1998).

Radionuclides: Analysis of radium-226 and radium-228 to better understand the nature and extent of radium in groundwater and surface water and evaluation of background contributions from natural or anthropogenic sources (USEPA 2014).

Major Cations, Anions, and Nutrients: Geochemical modeling of mineral solubility, metals attenuation and background contributions requires analysis of major cations and anions because they affect and participate in sorption and mineral dissolution or precipitation reactions.

The groundwater samples were analyzed using the following methods:

- pH following SW846 9040C "pH Electrometric Measurement" (USEPA 2004b)
- Total dissolved solids standard method (SM) 2540C "Total Dissolved Solids Dried at 180°C" (USEPA 1993a)
- Total hardness following SM 2340B (USEPA 1997)
- Chloride, fluoride, and sulfide following USEPA SW846 9056A "Determination of Inorganic Anions by Ion Chromatography", Revision 1 (USEPA 2007c)



 Nitrate and nitrite following EPA 353.2 "Determination of Nitrate-Nitrite Nitrogen by Automated Colorimetry, Revision 2.0" (USEPA 1993b)

- Alkalinity following SM 2320B "Alkalinity by Titration" (USEPA 2005a)
- Phosphorus following SM 4500-P E "Phosphorus by Ascorbic Acid Method" (USEPA 2005b)

7.2 Summary of Results for Radium-226+228

Table 2 presents a summary of soil and analytical results. Radium-226+228 detected in soil samples from soil borings advanced in the surficial aquifer around the BSA was measured in six samples (soil sample CCR-4A, CCR-15, CCR-16, CCR-18, CCR-22, and CCR-23) as were total uranium and total phosphorus. Radium-226+228 ranged from approximately 0.6 pCi/g (CCR-18) to 76.6 pCi/g (CCR-4A). The presence of radium-226+228 correlates to the presence of uranium in soil samples of the surficial aquifer with a coefficient of determination (R²) of 0.99, while total uranium also correlates to total phosphorus in soil samples of the surficial aquifer with a coefficient of determination of 0.80 (Appendix D). Based on these correlations and the known consistency of typical CCR (USGS 1997), it is considered highly likely that the presence of radium is due to the decay of naturally-occurring uranium in soils.

Results from a March 2019 groundwater sampling event for radium-226+228 in groundwater collected from nature and extent monitoring wells CCR-15, CCR-16, CCR-18, CCR-22, CCR-23, MW-25S, and MW-26S and for radium-226+228 in surface water samples collected from Fish Lake and Lakes B, C, and D are presented on Figure 7 and the results are summarized in Table 3. Historical groundwater sampling results for radium-226+228, from CCR monitoring wells, from August 2016 through January 2019, are also included on Figure 7 and in Table 4.

Radium-226+228 concentrations in groundwater sampled in March 2019 ranged from 1.1 pCi/L to 42.7 pCi/L. The concentration of radium-226+228 was above the site-specific GWPS of 7.94 pCi/L (Golder 2018b) in groundwater samples collected from nature and extent monitoring wells CCR-15, CCR-16, and CCR-22. The concentration of radium-226+228 detected in the groundwater sample collected from nature and extent well CCR-16 was higher compared to the corresponding hydraulically upgradient CCR monitoring well CCR-5 (Figure 7). Radium-226+228 concentration in groundwater varies in the vicinity of the BSA, likely due to natural variability of radium-226+228 in soils as well as in the phosphatic mine tailings used to backfill the mined area where the BSA was constructed. Radium-226+228 in lake samples (Fish Lake and Lakes B, C, and D) ranged from 1.4 pCi/L in Fish Lake to 5.3 pCi/L¹⁵ in Lake D. Given the radial pattern of groundwater flow away from the BSA (Figure 5 and 6), Fish Lake, and Lakes B, C, and D are downgradient receptors of groundwater flowing from the BSA, and the concentration of radium-226+228 detected in these water bodies is below the Florida surface water quality criteria of 5 pCi/L (Chapter 62-302.530, F.A.C.). Furthermore, based on historical groundwater data (August 2016 to January 2019) of samples collected from the CCR monitoring well network, radium-226+228 shows a stable or decreasing trend at each CCR monitoring well (Table 4).

¹⁵ Reported value meets State of Florida surface water quality criteria (Chapter 62-302.530, F.A.C.) for radium-226+228, in accordance with the rounding procedures described in the FDEP memorandum "Rounding Analytical Data for Site Rehabilitation Completion", dated November 17, 2011.



These soil and groundwater findings support the literature review indicating that the BSA and surrounding area are underlain by fine-grained phosphatic mine tailings and/or unmined phosphate deposits. Based on those findings, there is the high likelihood that radium-226+228 detected in groundwater is present as a product of the decay of a naturally-occurring uranium and thorium in soil and/or the mine tailings/phosphate deposits.

Further evidence for a naturally-occurring source for radium-226+228 in groundwater below and near the BSA is presented in a detailed mineralogical assessment of the underlying soils conducted by Petrologic Solutions, Inc. (Appendix E). The mineralogical assessment of soil samples included petrographic analysis, quantitative X-Ray Diffraction (XRD), Scanning Electron Microscopy (SEM), and additional bulk geochemistry. Results of the chemical and mineralogical assessment, coupled with Site and regional mineral resource evaluations, reveal the presence of naturally-occurring radioactive minerals associated with the phosphate ore mined at and near the BSA. These minerals include: eylettersite (thorium-bearing aluminum phosphate); wavellite (uranium-bearing aluminum phosphate); collophane, apatite, hydroxyapatite, and fluorapatite (uranium-bearing calcium phosphates) and zircon, rutile, and ilmenite (uranium-bearing oxides). As such, radium-226+228 present in groundwater below and in the vicinity of the BSA is considered to be naturally occurring and not due to a release from the BSA.



8.0 SUMMARY AND CONCLUSIONS

Radionuclides including radium-226 and radium-228 are naturally occurring in the study area and are associated with minerals in the phosphate matrix that was mined by the phosphate mining industry during the 1970s at the BSA prior to its construction. Radionuclides, including uranium, were detected in samples collected from approximately 26 to 30 ft bgs at the BSA during the 1950s. The upper portion of the phosphate matrix was mined in the north and west region of the BSA and phosphate matrix, tailings, and/or remnants, including the associated radionuclides, were left behind as backfill beneath the current BSA. Furthermore, a portion of the land beneath the BSA was likely not mined or partially mined, due to the proximity of the existing lakes, roads, and the MPP and therefore, phosphate ore likely exists in these areas. Based on the analysis presented in this report, uranium is most concentrated in the deeper phosphate bearing portions at the BSA site (e.g., approximately 26 to 30 ft bgs).

As previously presented, uranium concentrations in phosphate-bearing rocks exhibit typical uranium concentrations of up to 300 ppm, which is approximately 1 to 2 orders of magnitude higher than U.S. coals and fly ash, respectively (USGS 1997). The naturally occurring radionuclides in phosphate ore and mine tailings left behind underneath the BSA are conceivably at higher concentrations than CCR.

Findings of the geochemical assessments conducted for soil and groundwater at the site indicate that the BSA and surrounding area are underlain by fine-grained phosphatic mine tailings and/or unmined phosphate deposits. The concentration of radium-226+228 in groundwater in the vicinity of the BSA is shown to be variable, likely due to natural variations in soils as well as due to variations of radium-226+228 present in the phosphatic mine tailings used to backfill the mined area where the BSA was constructed. Furthermore, the detailed mineralogical assessment of the underlying soils conducted by Petrologic Solutions, Inc. reveal significant uranium and other accessory constituents associated with the phosphate ore mined at and near the BSA.

Therefore, based on the evidence presented herein, it is the opinion of Golder that radium-226+228 present in groundwater below and in the vicinity of the BSA is naturally occurring and not due to a release from the BSA.



9.0 PROFESSIONAL CERTIFICATION

This Alternative Source Demonstration for radium-226 and radium-228 in groundwater has been prepared for the Byproducts Storage Area at the C.D. McIntosh Power Plant, Lakeland, Florida. I hereby certify that the information contained in this report is accurate to the best of my knowledge as required by 40 CFR §257.95(g)(3)(ii).

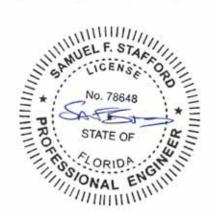
Golder Associates Inc.

Samuel F. Stafford, P.E.

Florida Professional Engineer No. 78648

Certificate of Authorization No. 1670

Date 10 JUNE 2019



10.0 SIGNATURE PAGE

Golder Associates Inc.

Samuel F. Stafford, PE Senior Project Engineer Gregory A. O'Neal II, PG Senior Geologist

Dy a chel

Anthony L. Grasso, PG Principal and Practice Leader

GAO/SFS/ALG/sjh

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TABLES

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Reviewed by ALG 6/10/19

Checked by: MSI 5/8/19

Table 1: Summary of CCR Monitoring Well and Nature and Extent Monitoring Well Construction Details

Byproduct Storage Area

Lakeland Electric - C.D. McIntosh Jr. Power Plant

7.42 - 1.81	725.4	3.0-	135.78	136.2	7.447189	1.2182812.1	2/12/2019	CCK-23
14.8 - 24.4	1.3S	3.5	137.51	134.0	7.870289	4.7108881	2/13/2019	CCR-22
15.6 - 25.2	26.9	2.6	137.12	134.5	4.188288	1363454.0	2/13/2019	CCR-21
74.9 - 24.5	2.52	2.9	136.05	1.551	6.474289	1363855.5	2/14/2019	CCR-20
15.5 - 25.1	8.82	7.2	74.3E1	8.681	683064.5	1364205.4	2/16/2019	CCR-19
15.6 - 25.2	26.9	2.6	140.81	138.2	7.698889	1.1636361	2/18/2019	CCR-18
15.4 - 25.0	7.32	2.9	145.80	142.9	7.217589	9.6108381	2/19/2019	CCR-17
15.3 - 24.9	25.6	2.9	144.10	2.141	9.288889	1362533.2	2/18/2019	CCR-16
15.4 - 25.0	7.32	2.9	99'77l	8.141	683123.5	1362341.3	2/18/2019	CCR-15
15.4 - 24.9	25.5	2.9	138.70	135.8	2.197188	1.1772381	9102/12/9	CCR-14
15.6 - 25.1	7.32	3.0	36.751	135.0	1.481288	1362936.6	9102/12/9	CCR-13
15.7 - 25.2	25.8	2.9	136.99	134.1	682430.5	1363353.1	9102/02/9	CCR-12
15.6 - 25.1	25.6	8.2	137.12	134.3	2.773289	1363835.4	9102/02/9	CCR-11
1.42 - 24.1	7.42	2.0-	133.56	133.8	6.307283	1.264262.1	3/13/2018	CCR-10R
14.4 - 23.9	24.5	2.6	138.54	135.9	2.227289	4.6054361	9102/02/9	CCK-10 *
15.5 - 25.0	25.6	1.6	79.141	138.6	6.345.3	1364085.2	9102/12/9	CCK-9
15.9 - 25.4	26.0	7.2	142.12	139.4	9.114889	9.7198381	6/22/2016	CCR-8
16.7 - 25.2	8.32	3.0	142.10	1.95.1	2.277289	9.1888881	6/22/2016	CCR-7
16.7 - 25.2	7.32	2.9	141.34	138.5	9.873583	1363168.4	6/22/2016	CCK-6
7.32 - 2.91	2.92	2.5	70.141	138.6	6.978889	1362716.0	6/22/2016	CCK-5
15.6 - 25.1	7.32	2.9	143.13	140.3	7.240889	1362450.0	9/24/2016	CCK-4
15.9 - 25.3	8.32	G.O-	137.04	3.751	6.13451.3	1362334.6	9102/22/9	CCR-3
15.7 - 25.2	8.32	3.0	73.041	9.781	9.787189	1362203.9	9102/22/9	CCK-2
15.7 - 25.2	7.32	3.0	141.30	138.3	1.782188	1362405.2	9/24/2016	CCR-1
Screen Interval Depth (ft bgs)	Well Depth (sgd 11)	Stick-up Height (ft ags)	TOC Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Easting (ft NAD83)	Dorthing (ft NAD83)	Date bellstanl	M ^e ll ID

Notes:

CCR Monitroing Wells are CCR-1 through CCR-14 and CCR-10R. Nature and Extent Monitoring Wells are CCR-15 through CCR-23.

1991 = 11

NAD83 = North American 1983 Datum

NAVD88 = North American Vertical Datum of 1988

ft bgs = feet below ground surface

ft ags = feet above ground surface

* Monitoring well CCR-10 was abandonend and replaced with CCR-10R on 3/13/2018.



June 2019

Summary of Soil / Sediment Analytical Results Byproduct Storage Area Lakeland Electric - C.D. McIntosh Jr. Power Plant Table 2:

								Analyte				
Sample ID	Depth (ft bgs)	Date Sampled	Aluminum (mg/Kg)	Arsenic (mg/Kg)	Iron (mg/Kg)	Lithium (mg/Kg)	Uranium (mg/Kg)	Phosphorus (mg/Kg)	Radium-226 (pCi/g)	Radium-228 (pCi/g)	Total Organic Carbon (%)	Fractional Organic Carbon (g/g)
CCR-4A	24-25	2/11/19	28,000 B	QN	2,800	QN	280 F1	130,000	75.9	0.726	NA	ĄN
CCR-15	24-25	2/18/19	8,000 B	QN	86	0.79 J	4.5	2,800	0.702	0.328	AN	ĄN
CCR-16	24-25	2/18/19	19,000 B	QN	450	2.9	4.3	3,000	1.14	1.07	AN	ĄN
CCR-17	24-25	2/19/19	5,900 B	QN	26	QN	0.92	1,000	ΝA	ΝΑ	NA	AN
CCR-18	24-25	2/15/19	2,600 B	QN	6/	0.45 J	1.2	800	0.443	0.196 U	NA	NA
CCR-19	24-25	2/15/19	2,000 B	QN	62	ND	0.50	310	ΝA	NA	NA	NA
CCR-20	24-25	2/14/19	21,000 B	1.4 J	460	QN	40	11,000	ΝΑ	ΑN	AN	ĄN
CCR-21	24-25	2/13/19	1,800 B	QN	110	QN	0.51	210	ΝΑ	ΑN	NA	ĄN
CCR-22	24-25	2/12/19	96,000 B	QN	8,400	15	280	000'06	65.2	1.49	AN	ΑΝ
CCR-23	24-25	2/12/19	20,000 B	3.9 J	4,400	4.8 J	58	78,000	14.7	0.359	NA	AN
GSB-1	0-0.5	2/21/19	4,000 B	1.4 J	1,200	QN	21	21,000	ΝA	NA	NA	NA
Fish Lake - Sed	0-0.5	2/20/19	N/A	NA	NA	AN	NA	NA	NA	NA	1.300	0.013

ft bgs = feet below ground surface

mg/Kg = milligrams per kilogram

pCi/g = picocuries per gram g/g = gram per gram B - Compound was found in the blank and sample.

F1 - Matrix Spike-Matrix Spike duplicate (MS/MSD) Recovery is outside acceptance limits, and the concentration is an approximate value. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample recovery was within acceptable limits.

J - Result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

U - Result is less than the sample detection limit.

ND - Not detected NA - Not analyzed SJH 5/23/19 ALG 6/10/19 Checked by: Reviewed by:



June 2019 19117001

Table 3: Summary of Radium 226 & 228 in Nature and Extent Groundwater and Suface Water Byproduct Storage Area
Lakeland Electric - C.D. McIntosh Jr. Power Plant

Monitoring Well / Surface Water	Date Sampled	Radium 226 (pCi/L)	Radium 228 (pCi/L)
CCR-15	3/7/19	19.2	5.9
CCR-16	3/6/19	23.3	19.4
CCR-17	3/6/19	NA	NA
CCR-18	3/6/19	0.5	0.7 U
CCR-19	3/6/19	NA	NA
CCR-20	3/7/19	NA	NA
CCR-21	3/7/19	NA	NA
CCR-22	3/7/19	26.3	1.4
CCR-23	3/7/19	6.5	0.8
MW-24S	3/5/19	NA	NA
MW-25S	3/6/19	0.5	0.7 U
MW-26S	3/5/19	0.5	0.6 U
Fish Lake	3/11/19	0.7	0.7 U
Lake B	3/11/19	1.6	0.8 U
Lake C	3/13/19	1.5	0.7 U
Lake D	3/13/19	4.0	1.3

Notes:

Radium concentrations reported in picocuries per liter (pCi/L)

U - Result is less than the sample detection limit

NA - Not Analyzed

Checked by: SJH 5/10/19 Reviewed by: ALG 6/10/19



19117001 June 2019

Table 4: Summary of Radium 228 & 228 Concentrations in Groundwater (CCR Monitoring Wells)

Byproduct Storage Area

Lakeland Electric - C.D. McIntosh Jr. Power Plant

	ote C						CCR	CCR Monitoring Well Designation	Vell Designa	ition					
Event	Sampled	CCR-1	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	CCR-9	CCR-10/ CCR-10R*	CCR-11	CCR-12	CCR-13	CCR-14
Background	8/4/2016	3.23	8.84	24.7	39.7	18.7	9.71	7.24	22	3.77	2.79	9.21	က	29.7	25.7
Background	9/14/2016	3.97	4.96	6.91	41	18	7.63	12.8	3.99	20.6	3.02	10.4	2.75	0.629	30.7
Background	10/12/2016	4.07	6.55	6.11	47.8	18.6	4.9	6.83	4.32	20.1	1.93	11.4	2.84	70.2	28.4
Background	11/2/2016	4.71	6.52	6.7	48.2	17	3.7	5.9	3.71	21.4	1.28	8.05	3.06	74.6	27
Background	12/14/2016	5.42	4.56	7.05	77.3	19.3	5.77	14.1	5.84	22.2	1.64	10.6	2.87	85.7	42.1
Background	1/11/2017	5.02	5.83	6.19	82.2	19.5	5.81	17.9	5.56	21.7	2.01	10.6	2.37	81.4	36.4
Background	2/1/2017	4.31	5.73	5.61	71.7	16.2	6.07	16.3	7.37	18.4	1.18	9.13	2.48	6.07	35.8
Background	3/15/2017	4.39	20'9	4.43	69	16.2	6.53	15.1	8.77	14.4	1.58	68'9	2.68	6.09	29.4
Background	4/12/2017	4.62	5.54	4.62	8.99	16	7.3	19.4	9.28	15.3	1.5	7.78	2.11	52.6	32.4
Background	5/17/2017	3.58	20'9	3.81	71.1	13.8	8.53	20.6	7.32	13.5	1.38	8.93	2.01	30.3	24.8
Background	6/13/2017	4.87	5.24	3.87	56.4	16.4	6.58	17.3	4.27	18.2	1.15	10.2	3.19	8.98	42.2
Background	7/11/2017	4.59	4.54	5.02	71.9	15.9	98.9	12.3	4.41	14.4	1.02	7.11	2.46	5.06	35.1
Background	8/15/2017	5.65	2.41	4.17	61.7	17.2	4.05	4.93	5.27	15.5	0.864	66'2	2.55	36.2	28.2
Detection	10/13/2017	ΑN	ΑN	ΑN	NA	NA	NA	NA	AN	NA	AN	ΝA	NA	NA	NA
Detection	11/30/2017	ΑN	ΑN	ΑN	NA	NA	NA	NA	AN	NA	ΑN	ΝA	NA	NA	NA
Detection	12/7/2017	ΑN	ΑN	ΑN	NA	NA	NA	NA	AN	NA	AN	ΝA	NA	NA	NA
Assessment	4/12/2018	9.9	5.8	3.9	45.8	18.8	4.8	11.7	6.4	0.86	3.6	1.3	3	57.4	23.3
Assessment	7/18/2018	6.8	3.2	4.1	51	21.1	2.9	2.9	5.5	9.1	2.7	6.1	3.6	40.6	17.5
Assessment	1/8/2019	8.9	2.8	4.6	38.2	13.3	2.3	7.2	4.8	11.1	3.4	4.8	4.8	69.3	23.0
									1						

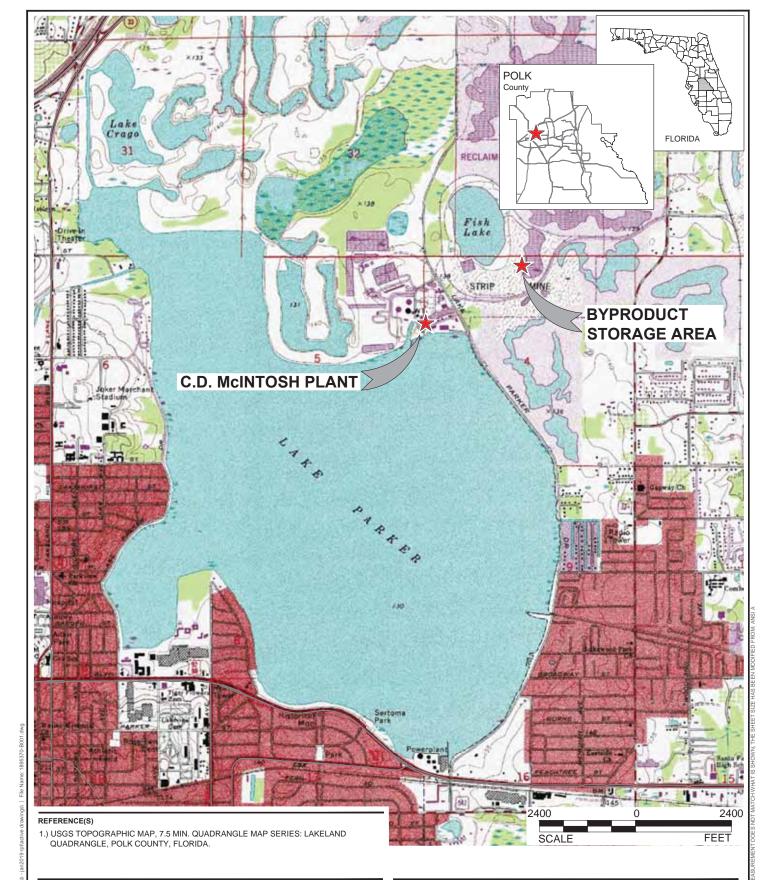
Notes:
Dates shown are representative of sampling events that took place over multiple days
Radium values represent sum of Radium 226 and Radium 228
All concentrations reported in picocuries per liter (pCi/L)
NA - Not analyzed
* Monitoring well CCR-10 was abandonend and replaced with CCR-10R on 3/13/2018

Checked by: SJH 5/10/19 Reviewed by: ALG 5/24/2019

Checked by:



FIGURES



CLIENT

LAKELAND ELECTRIC

CONSULTANT



YYYY-MM-DD	2019-01-08
DESIGNED	SFS
PREPARED	BCL
REVIEWED	ALG
APPROVED	SFS

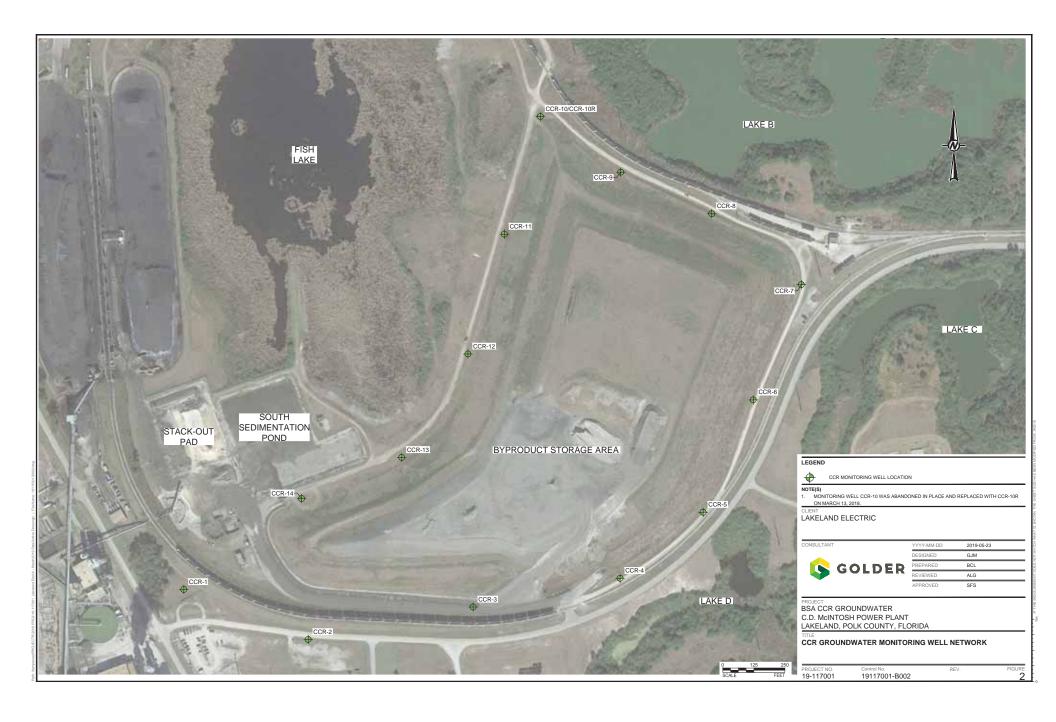
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BSA CCR GROUNDWATER

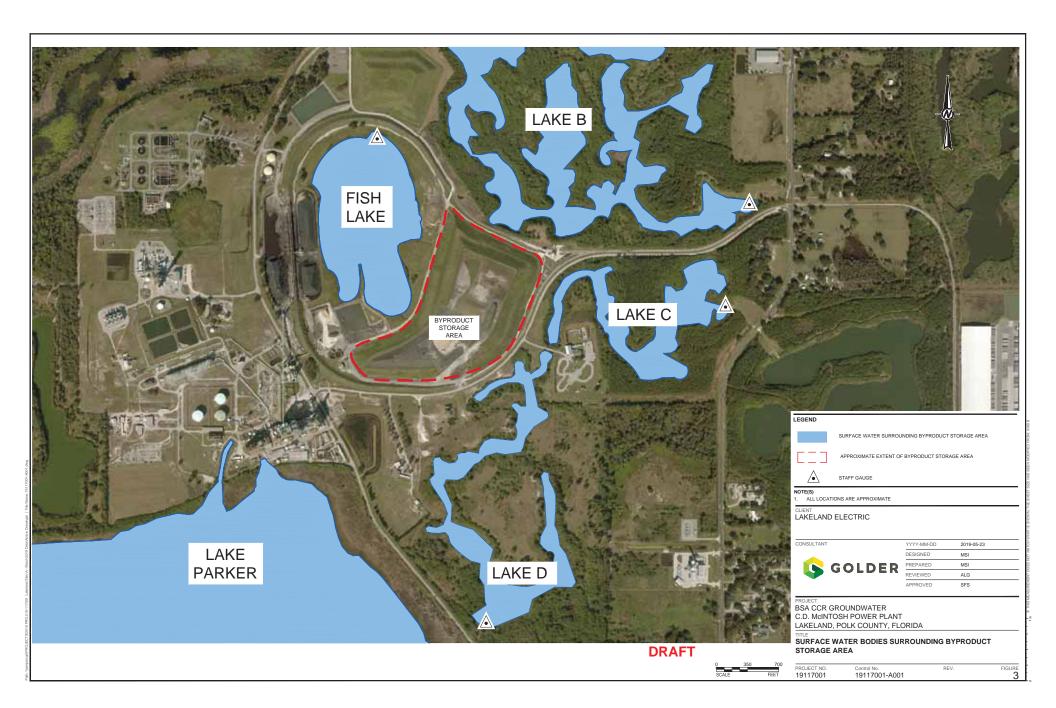
C.D. McINTOSH POWER PLANT LAKELAND, POLK COUNTY, FLORIDA

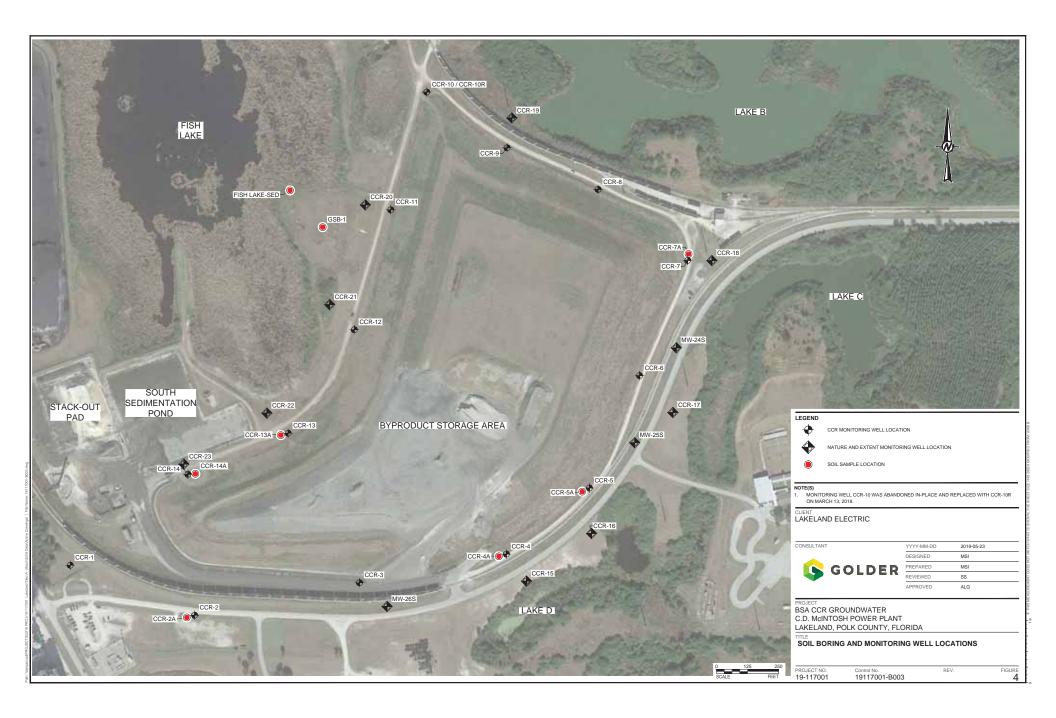
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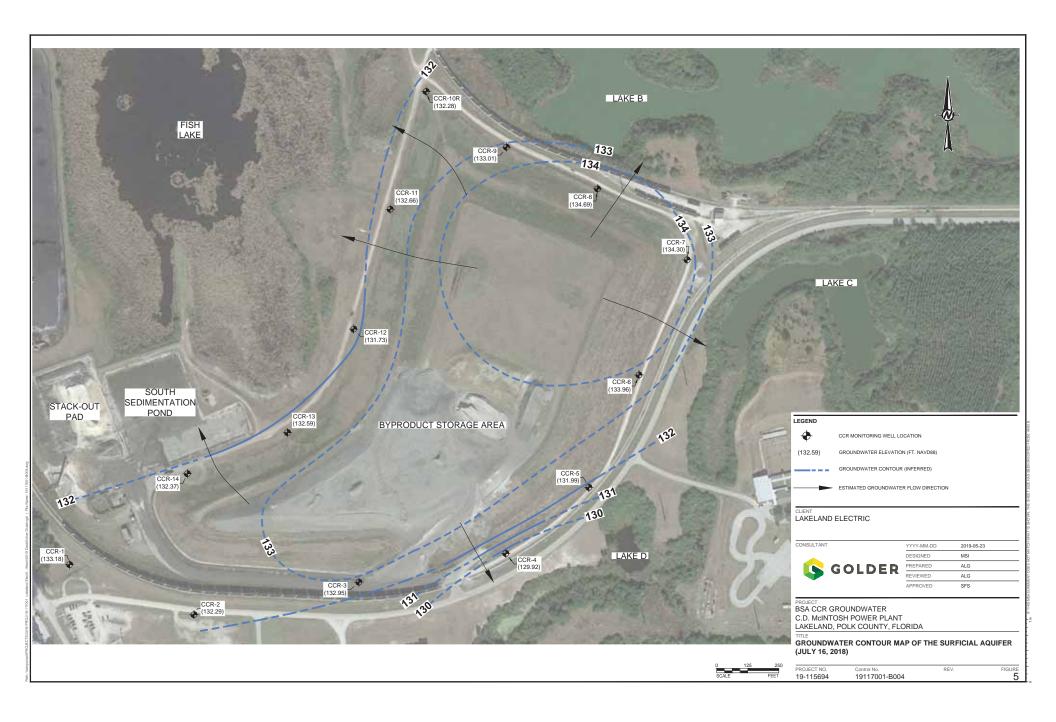
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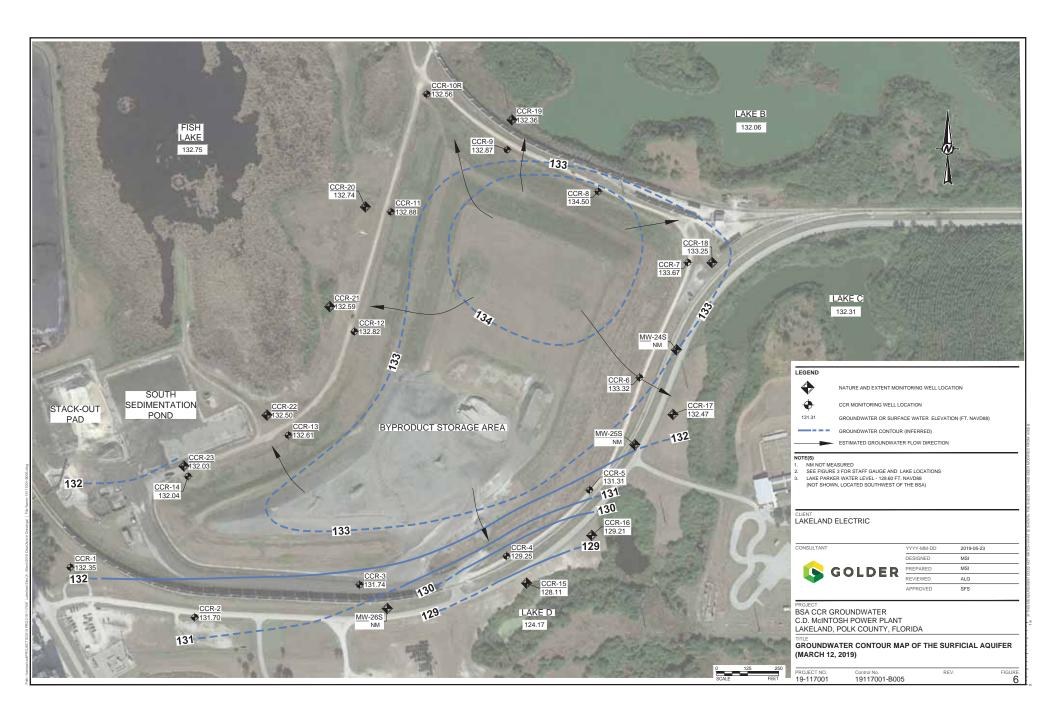
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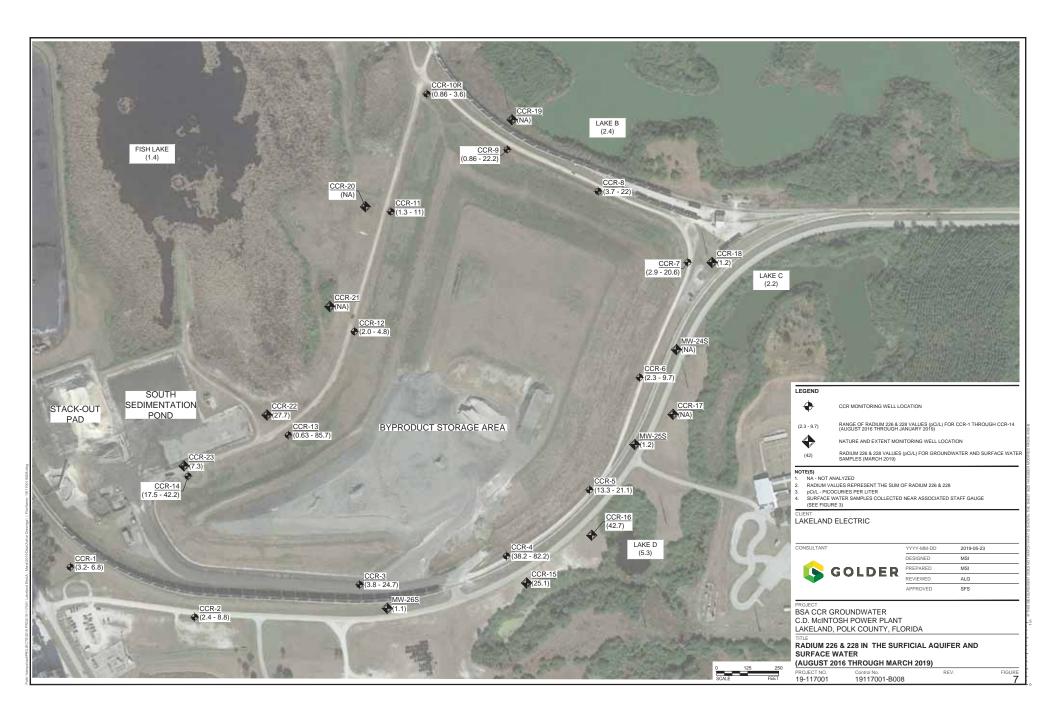






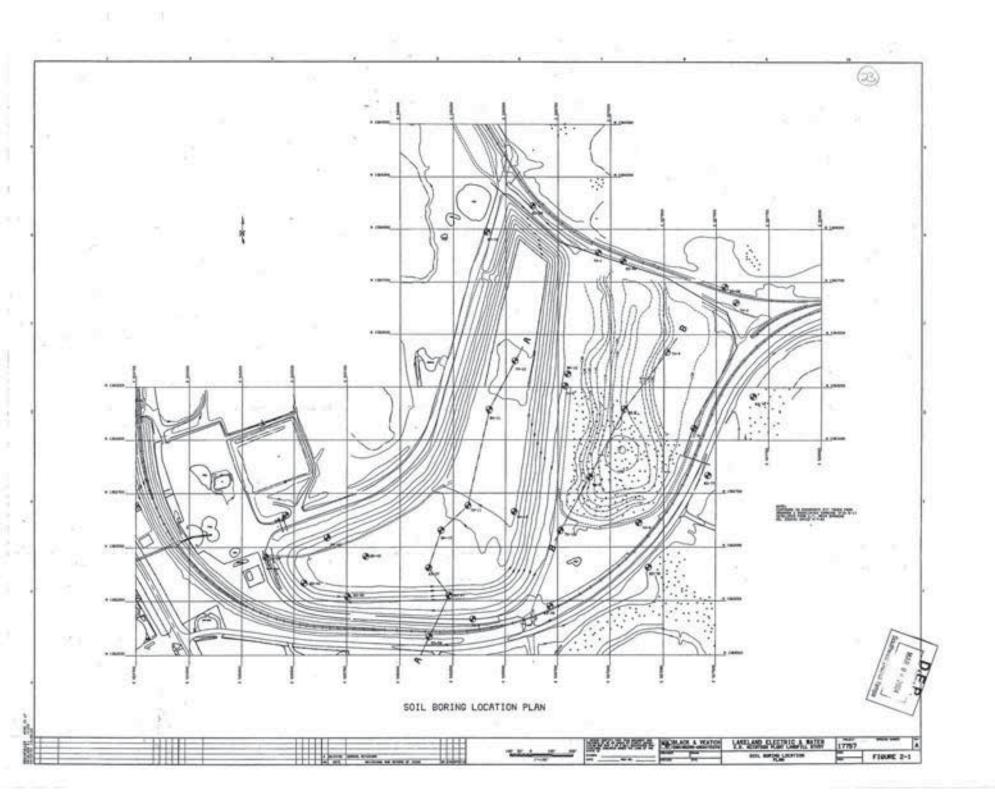


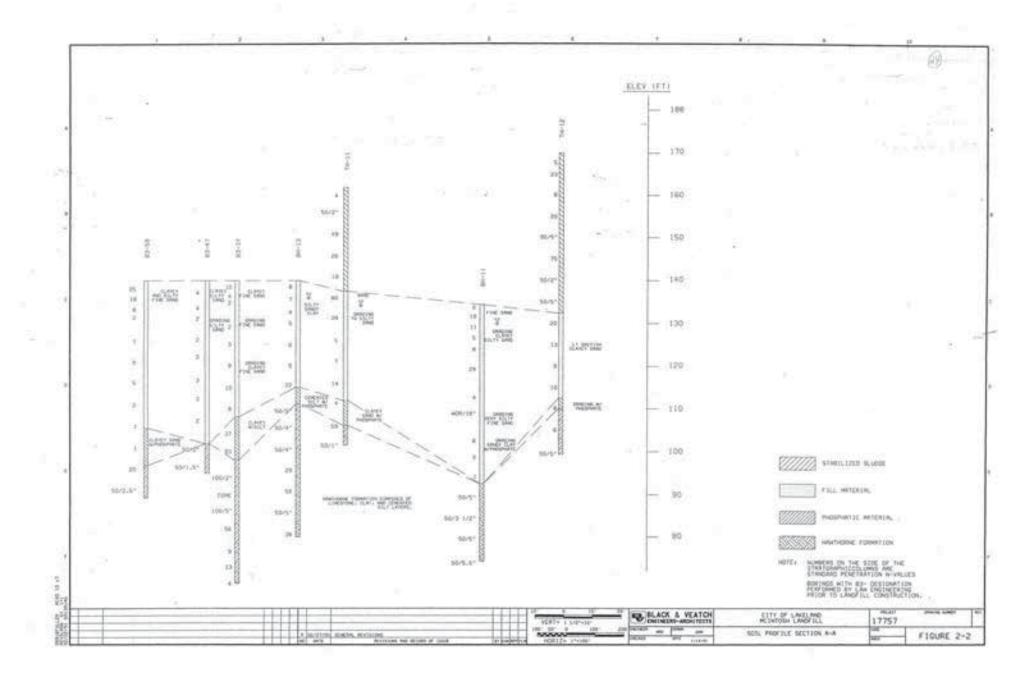


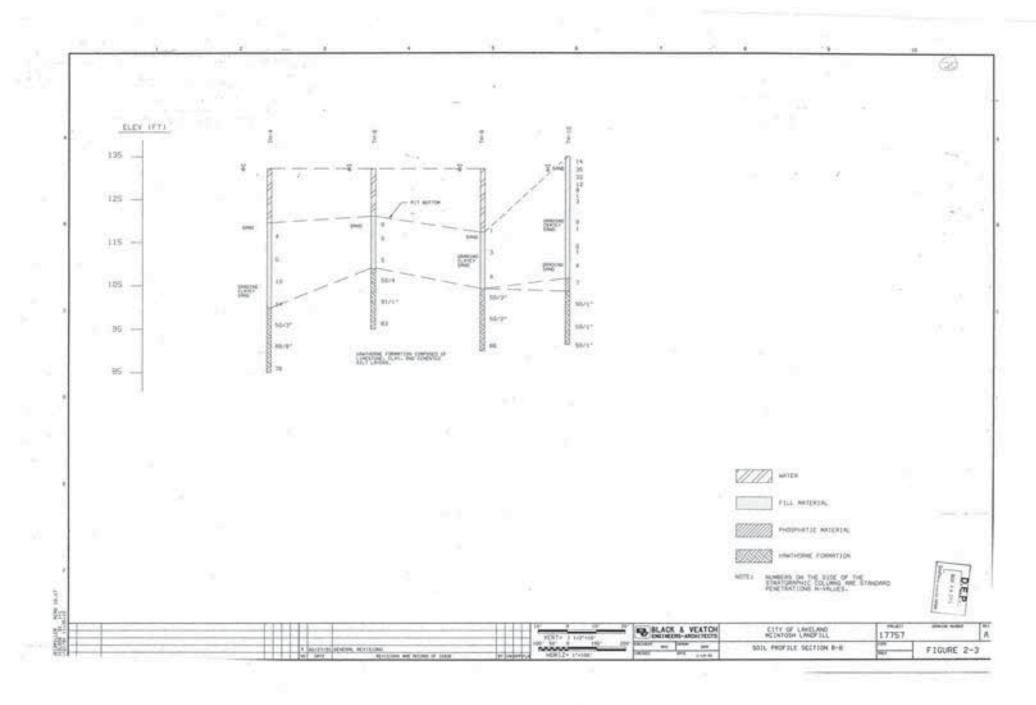


APPENDIX A

Soil Boring Logs and Location Map

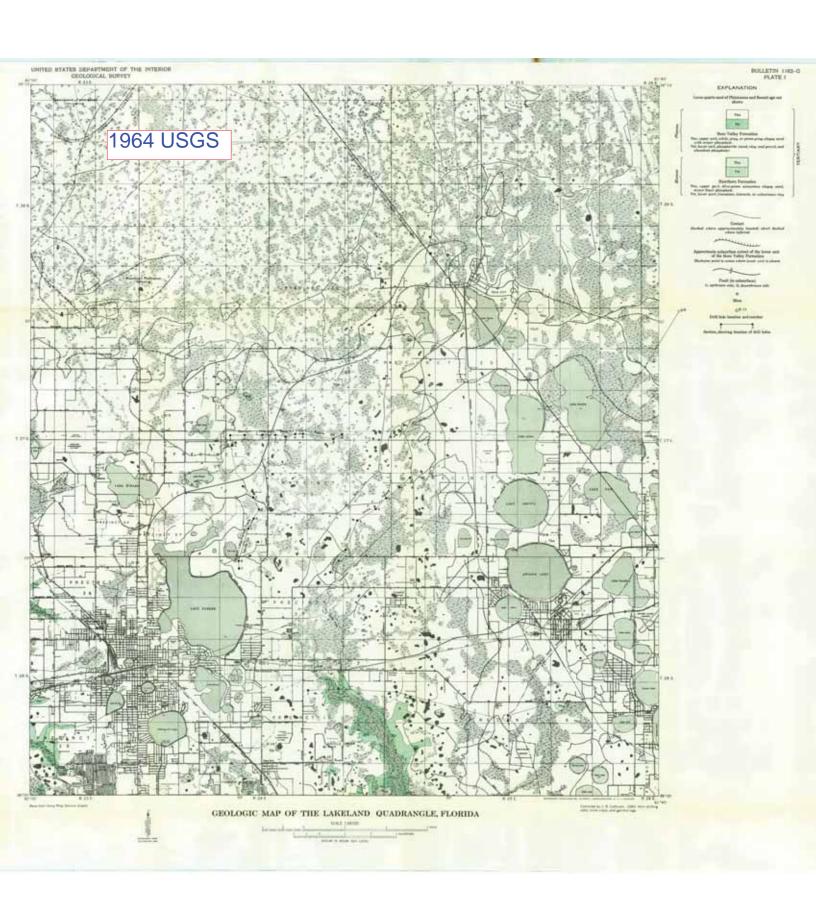


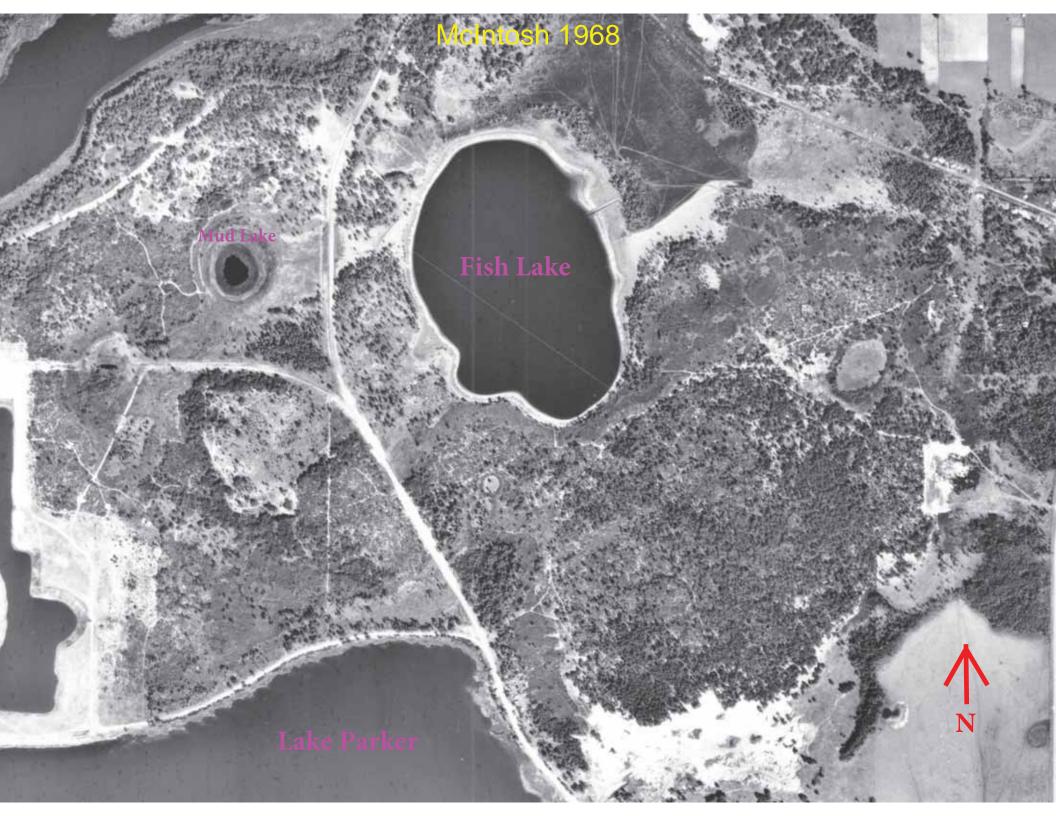


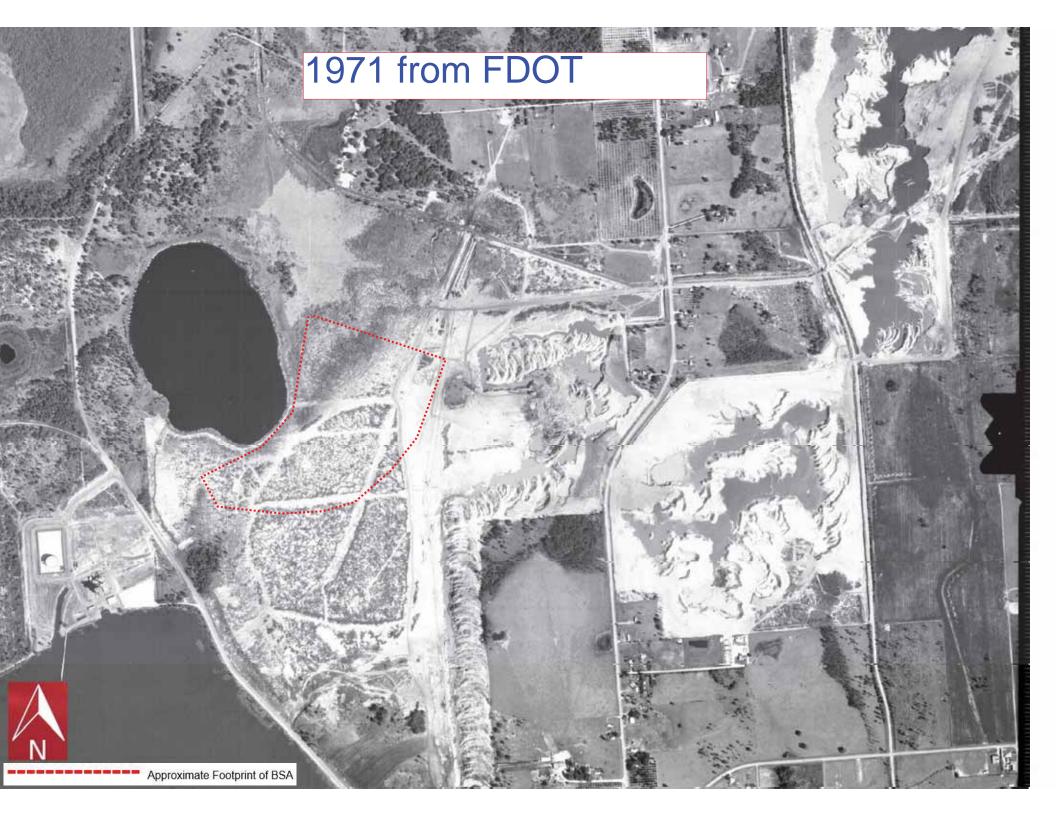


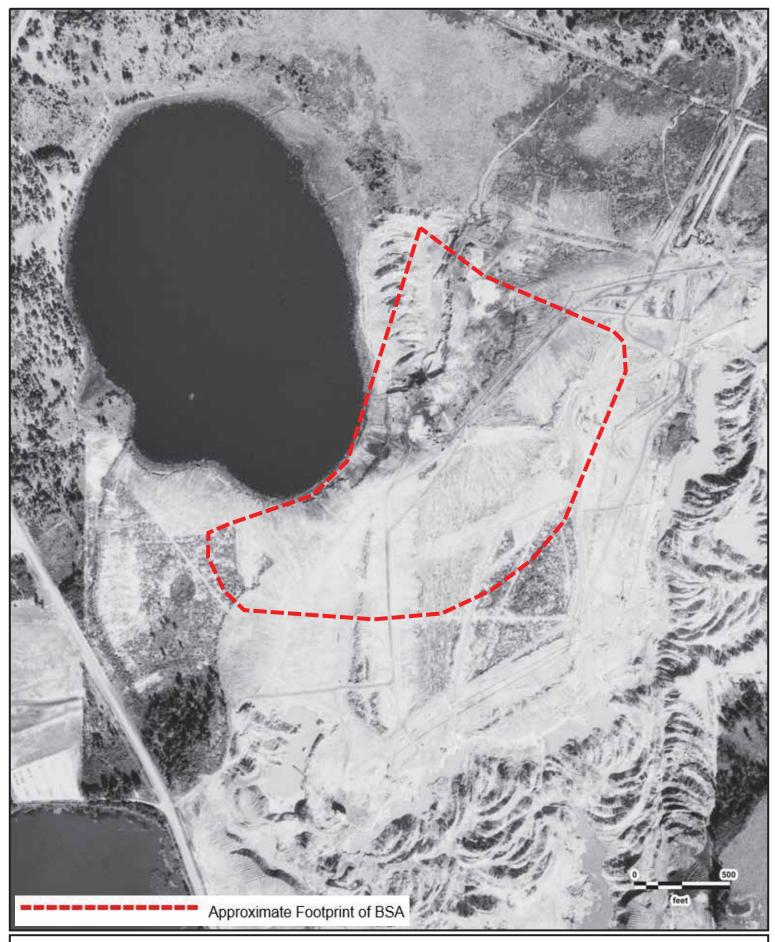
APPENDIX B

Historical Aerial Photographs and Maps







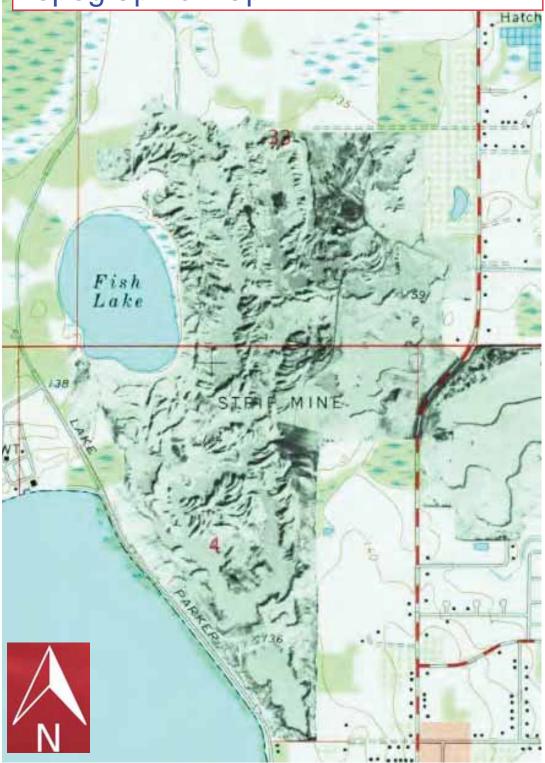


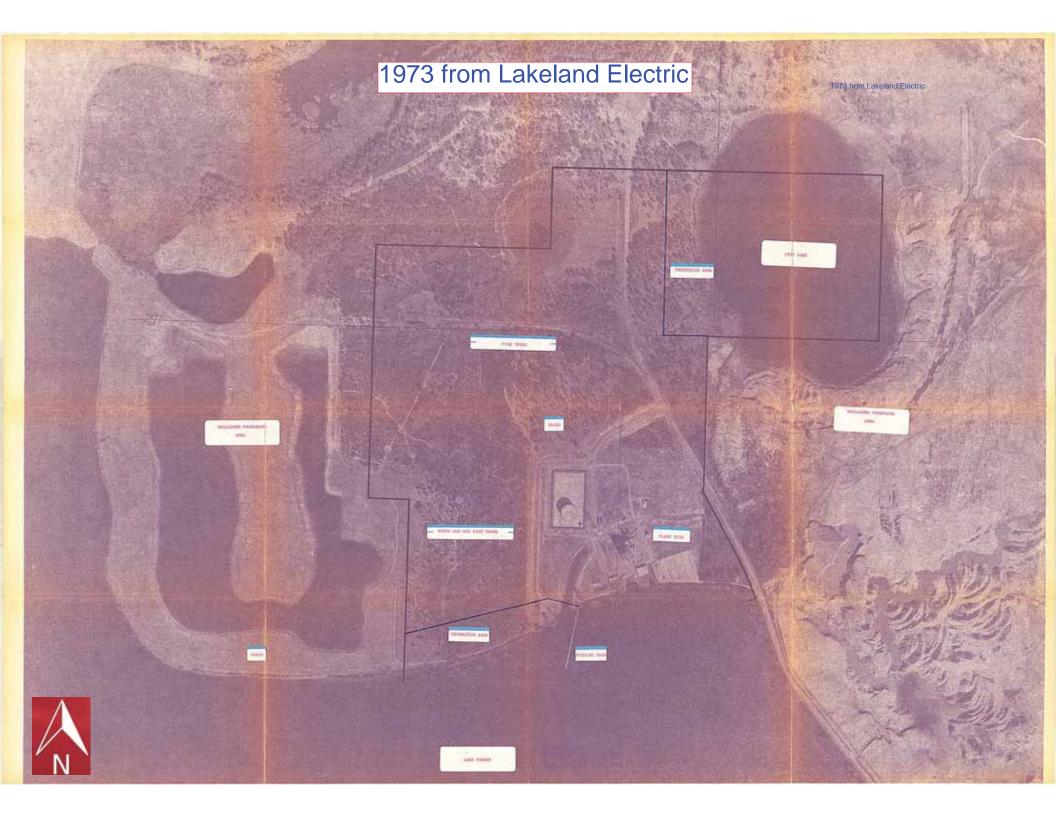


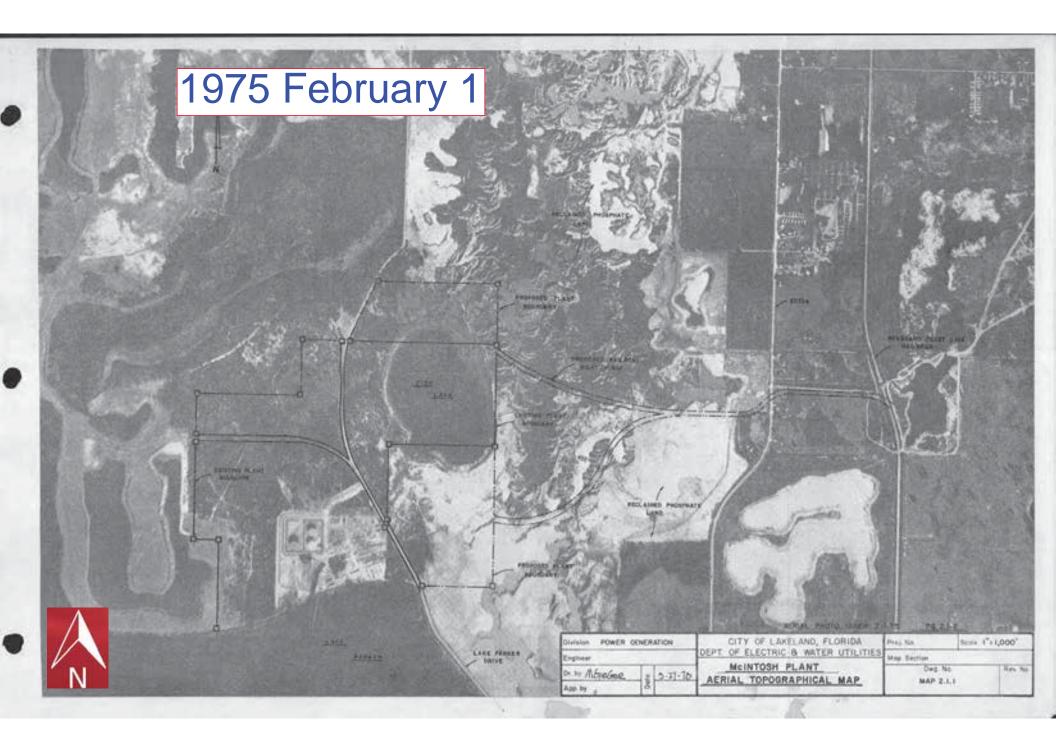
BSA at Lakeland Electric USGS 11/30/1971 (Current boundary shown by dashed red line)



1972 Photo on 1975 USGS Topographic Map











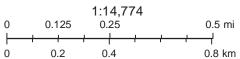
BSA at Lakeland Electric USGS 11/26/1977 (Current boundary shown by dashed red line)

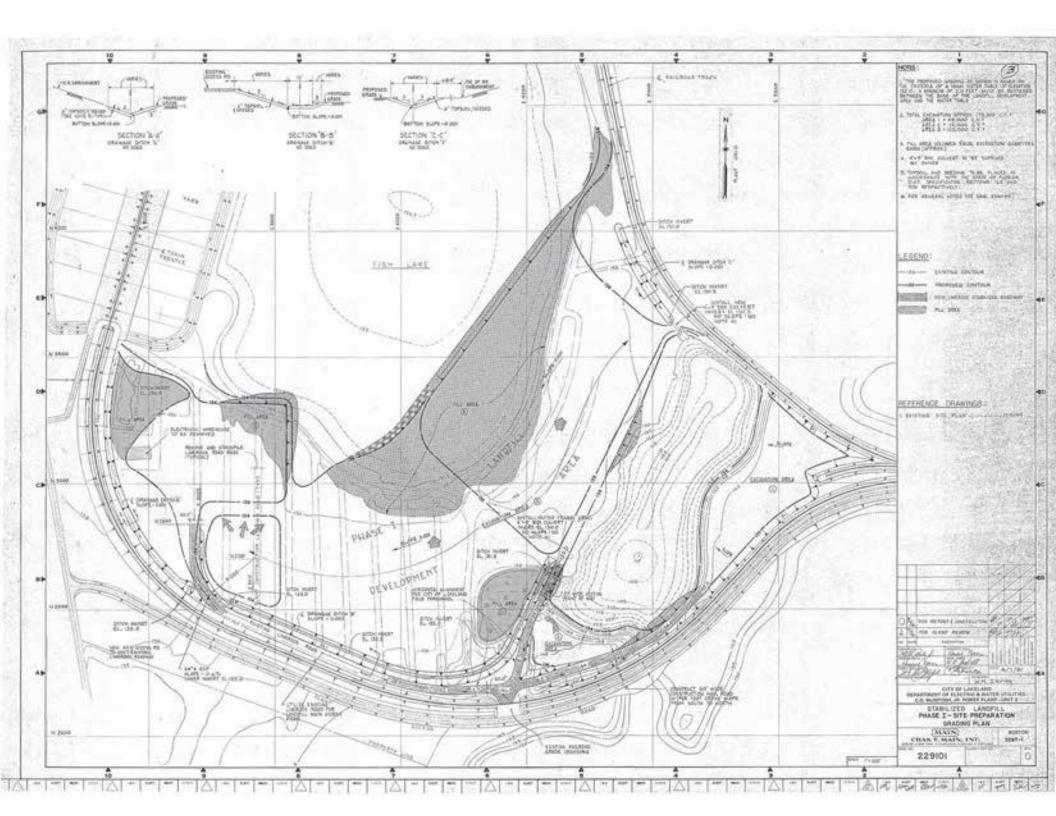


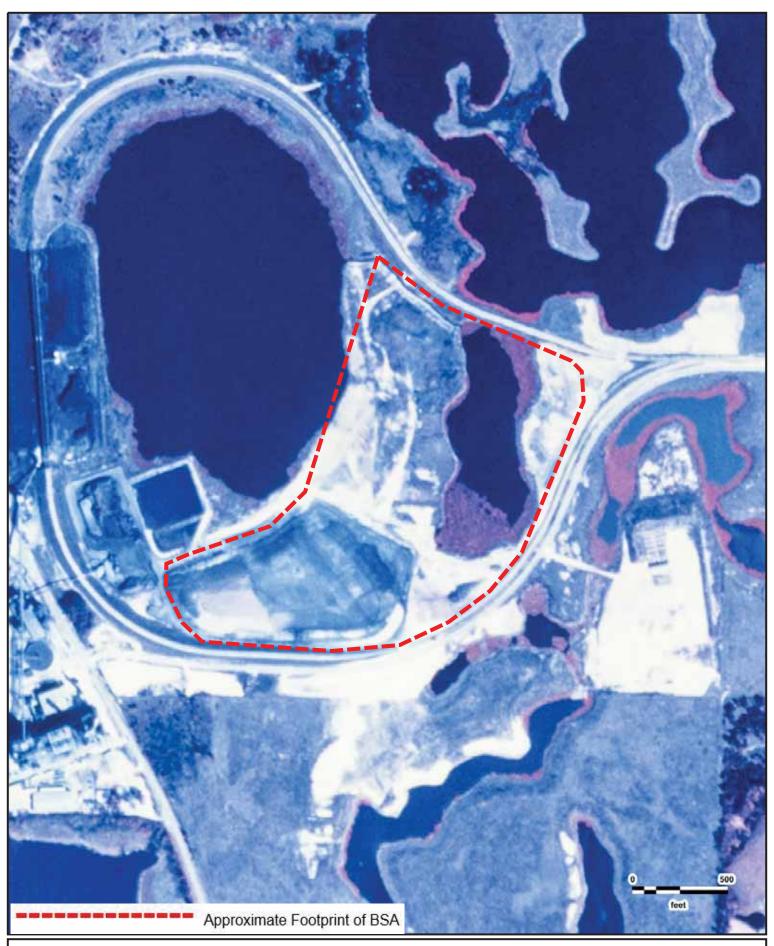
McIntosh 1980













BSA at Lakeland Electric USGS 03/02/1984 (Current boundary shown by dashed red line)



APPENDIX C

Record of Borehole Logs for CCR-2A, CCR-4A, CCR-5A, CCR-7A, CCR-13A, and CCR-14A

RECORD OF BOREHOLE CCR-2A

PROJECT: Lakeland Electric CCR PROJECT NUMBER: 19117001 DRILLED DEPTH: 30.0 ft AZIMUTH: N/A LOCATION: Lakeland, FL

DRILL METHOD: Direct Push DRILL RIG: Geoprobe 3230 DT DATE STARTED: 2/11/2019 DATE COMPLETED: 2/11/2019 WEATHER: Partly cloudy

DATUM: NAD83 / NAVD88 COORDS: N: 1,362,203.9 E: 681,787.6 GS ELEVATION: 137.6 ft

TRC ELEVATION: N/A ft TEMPERATURE: 74° F

SHEET 1 of 1 INCLINATION: -90 DEPTH W.L.: 5.9 ft ELEVATION W.L.: 131.70 ft DATE W.L.: 3/12/2019

TIME W.L.: 10:45

SOIL PROFILE ELEVATION (ft) DEPTH (ft) ELEV. GRAPHIC LOG **NSCS** DESCRIPTION COMMENTS DEPTH (ft) 0 0.0 - 1.01.) Borehole location is adjacent to monitoring SAND, fine; brown, dry SP well CCR-2; survey coordinates shown are 136.6 from CCR-2. 1.0 - 2.0 1.0 SP SAND, fine; grayish brown, dry 2.) Ground surface elevation is estimated 135.6 based on ground surface elevation of monitoring well CCR-2. 2.0 - 4.0 2.0 135 SAND, fine; light gray, dry 3.) Boreholes were backfilled with 20/30 SP graded silica sand to 5 ft bgs and the remaining borehole was filled with bentonite 133.6 chips to land surface 4.0 SAND, trace organics, fine to medium, subrounded to subangular, poorly 4.) Water-level elevations are estimated based graded; dark brown to black 5 on depth-to-water measurements from adjacent monitoring well CCR-2. SP 5.) Density descriptions are based on field observations and not form SPT blow counts. 6.) Soil cores were collected and transported to Golder's Tampa office. The soil cores were 130.1 later logged by M. Boatman for mineralogic description of lithology. 130 7.5 - 10.8 7.5 SAND, fine to medium, subround to subangular, uniform grading; light tan to white, moist 7.) Based on lithologic descriptions, mine tailings and/or fill was encountered from approximately ground surface to 20 ft bgs and in-situ residual soil and/or weathered rock SP 10 from 20 ft bgs to terminal depth. 126.9 10.8 - 13.5 10.8 SAND, fine, subrounded, uniform; dark brown to black, compact, wet SP 125 124.1 13.5 - 15.8 13.5 No Recovery 15 121.9 15.8 SAND, fine, subrounded; light brown to light grey (white with small round SP 120 119.2 18.4 SAND, fine: dark brown to black (grains are brown), compact to dense. SP 118.1 19.5 - 20.0 117.6 20 No Recovery 20.0 20.0 - 23.0 SAND, very fine, subrounded; light brown to tan with a dark brown to black coating with small black opaque grains, compact to very dense, wet SP 115 114 6 23.0 - 23.5 SC 114.1 CLAYEY SAND; tan to light brown, wet 23.5 23.5 - 25.0 SAND, very fine, subrounded; light brown to tan with a dark brown to SP black coating with small black heavy mineral, compact to very dense, wet 112.6 25 25.0 1545454.2_REV1 (1).GPJ 5/30/19 SAND, fine subrounded, uniform grading; brown, loose to compact, wet SP 110.1 110 27.5 SAND, fine, subrounded; tan to white with small black heavy minerals, compact to dense, wet SP 107.6 30 Boring completed at 30.0 ft

LOG SCALE: 1 in = 4 ft

GEOTECH NO SPT

H

G

DRILLING COMPANY: Action Environmental

DRILLER: Omar Velazquez

INSPECTOR: M. Boatman CHECKED BY: G. Morelli

DATE: 5/30/19



RECORD OF BOREHOLE CCR-4A

PROJECT: Lakeland Electric CCR PROJECT NUMBER: 19117001 DRILLED DEPTH: 30.0 ft AZIMUTH: N/A

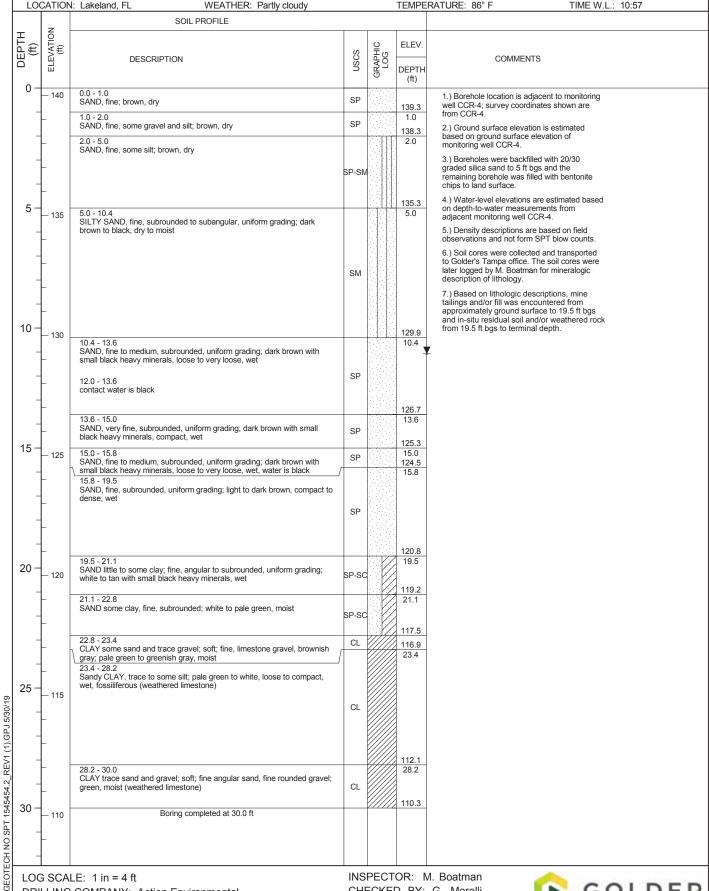
DRILL METHOD: Direct Push DRILL RIG: Geoprobe 3230 DT DATE STARTED: 2/11/2019 DATE COMPLETED: 2/11/2019 WEATHER: Partly cloudy

DATUM: NAD83 / NAVD88 COORDS: N: 1,362,450.0 E: 683,042.7 GS ELEVATION: 140.3 ft

TRC ELEVATION: N/A ft TEMPERATURE: 86° F

INCLINATION: -90 DEPTH W.L.: 11.05 ft ELEVATION W.L.: 129.25 ft DATE W.L.: 3/12/2019 TIME W.L.: 10:57

SHEET 1 of 1



LOG SCALE: 1 in = 4 ft

R

G

DRILLING COMPANY: Action Environmental

DRILLER: Omar Velazquez

INSPECTOR: M. Boatman CHECKED BY: G. Morelli

DATE: 5/30/19



RECORD OF BOREHOLE CCR-5A

PROJECT: Lakeland Electric CCR PROJECT NUMBER: 19117001 DRILLED DEPTH: 30.0 ft AZIMUTH: N/A

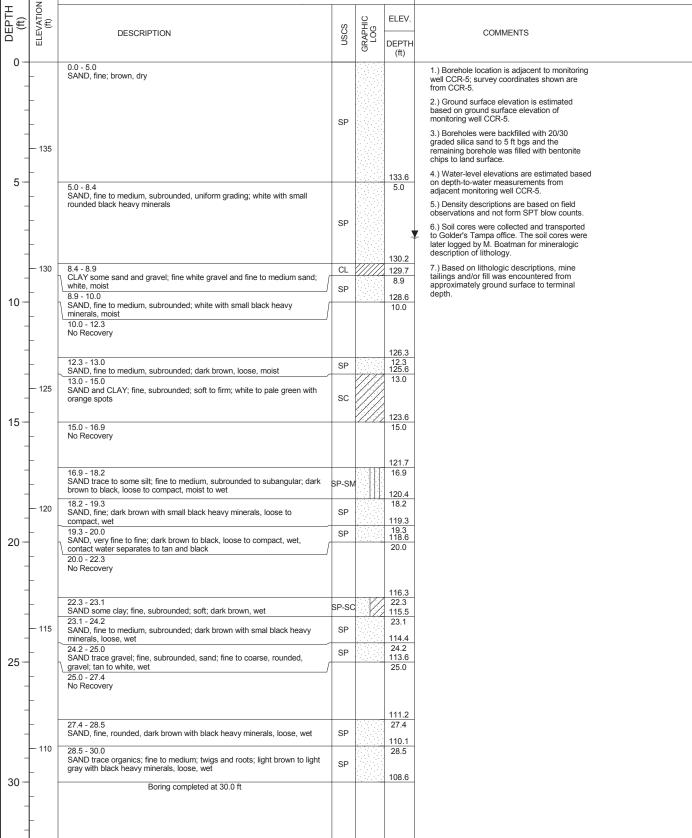
DRILL METHOD: Direct Push DRILL RIG: Geoprobe 3230 DT DATE STARTED: 2/11/2019 DATE COMPLETED: 2/11/2019

DATUM: NAD83 / NAVD88 COORDS: N: 1,362,716.0 E: 683,376.9 GS ELEVATION: 138.6 ft TRC ELEVATION: N/A ft TEMPERATURE: 88° F

INCLINATION: -90 DEPTH W.L.: 7.29 ft ELEVATION W.L.: 131.31 ft DATE W.L.: 3/12/2019 TIME W.L.: 11:00

SHEET 1 of 1

LOCATION: Lakeland, FL WEATHER: Partly cloudy SOIL PROFILE



LOG SCALE: 1 in = 4 ft

1545454.2_REV1 (1).GPJ

GEOTECH NO SPT

H

G

DRILLING COMPANY: Action Environmental

DRILLER: Omar Velazquez

INSPECTOR: M. Boatman CHECKED BY: G. Morelli



RECORD OF BOREHOLE CCR-7A

PROJECT: Lakeland Electric CCR PROJECT NUMBER: 19117001 DRILLED DEPTH: 30.0 ft AZIMUTH: N/A LOCATION: Lakeland, FL

DRILL METHOD: Direct Push DRILL RIG: Geoprobe 3230 DT DATE STARTED: 2/11/2019 DATE COMPLETED: 2/11/2019 WEATHER: Partly cloudy

DATUM: NAD83 / NAVD88
COORDS: N: 1,363,631.9 E: 683,772.2
GS ELEVATION: 139.1 ft
TRC ELEVATION: N/A ft

TEMPERATURE: 86° F

SHEET 1 of 1 INCLINATION: -90 DEPTH W.L.: 5.43 ft ELEVATION W.L.: 133.67 ft DATE W.L.: 3/12/2019 TIME W.L.: 11:05

1	DN: Lakeland, FL WEATHER: Partly cloudy			ICIVIFE	ERATURE: 80° F TIME W.L.: 11:05
	SOIL PROFILE				
(ft) (ELEVATION (ft)	PERCEIPTION	SS	SHIC G	ELEV.	
	DESCRIPTION	nscs	GRAPHIC LOG	DEPTH (ft)	COMMENTS
0	0.0 - 5.0 SAND, fine; light brownish gray, dry to wet				Dorehole location is adjacent to monitoring well CCR-7; survey coordinates shown are from CCR-7.
+					Cound surface elevation is estimated based on ground surface elevation of monitoring well CCR-7.
+		SP			3.) Boreholes were backfilled with 20/30 graded silica sand to 5 ft bgs and the
135	4.0: ~ moist at 4 ft bgs			134.1	remaining borehole was filled with bentonite chips to land surface. 4.) Water-level elevations are estimated based
5 —	5.0 - 6.0 No Recovery			5.0 <u>1</u>	on depth-to-water measurements from adjacent monitoring well CCR-7. 5.) Density descriptions are based on field observations and not form SPT blow counts.
_	6.0 - 7.0 SAND with pockets of sand/clay; fine, subrounded, uniform grading; fine sand/clay matrix, firm; tan to dark brown, loose to compact, wet	SP		6.0 132.1 131.7	observations and not form SPT blow counts. 6.) Soil cores were collected and transported to Golder's Tampa office. The soil cores were
+	7.0 - 7.4 SAND, fine, subrounded, uniform grading; black, loose to compact, wet 7.4 - 10.0	/		7.4	later logged by M. Boatman for mineralogic description of lithology.
130	SAND with pockets of sand/clay; fine, subrounded, uniform grading; fine sand/clay matrix, firm; tan to dark brown, loose to compact, wet	SP		100.4	Based on lithologic descriptions, mine tailings and/or fill was encountered from approximately ground surface to 17 ft bgs and in-situ residual soil and/or weathered rock
10 —	10.0 - 11.0 No Recovery			129.1 10.0 128.1	from 17 ft bgs to terminal depth.
<u></u>	11.0 - 15.0 SILTY SAND, fine, subrounded, uniform grading, dark brown with black heavy minerals, loose, wet			11.0	
125	13.4: 13.4-13.8 pockets of white sand/clay matrix	SM			
15 —	15.0 - 17.0 No Recovery			124.1	-
+	17.0 - 17.8 SAND trace to some silt; fine, uniform grading; dark brown to black, wet	SP-SN	1	122.1 17.0 121.3	-
+	17.8 - 18.5 CLAY; white, soft to firm, moist	CL		17.8 120.6	
120	18.5 - 20.0 SAND trace to some silt and sady clay; fine, uniform grading; dark brown, wet	SP-SN	1	18.5	
20 —	20.0 - 25.0 SAND with pockets of sandy clay; fine, uniform grading; white clay; brown with black heavy minerals, wet			20.0	
-		SP/CL			
115	5			444	
25 —	25.0 - 26.1 No Recovery			25.0	-
†	26.1 - 26.6 SAND, fine, subrounded, uniform grading; dark brown, loose, wet	SP SC/CL	///	113.0	- -
1	26.6 - 27.2 SAND and CLAY; fine to coarse; soft; white to pale green, wet 27.2 - 28.6	SP	<i>///</i> /	27.2	-
110	SAND, fine, subrounded, uniform grading; light brown, loose, wet 28.6 - 29.3 Sandy CLAY; fine to coarse, subrounded; compact, pale green, moist	CL		110.5 28.6 109.8	
30 –	29.3 - 30.0 Sandy CLAY, fine, subrounded, uniform grading; light to dark brown, loose, wet	CL		29.3 109.1	_
+	Boring completed at 30.0 ft				
	ALE: 1 in = 4 ft G COMPANY: Action Environmental		PECT	OR: D BY:	M. Boatman : G. Morelli GOL

GLDR

DRILLER: Omar Velazquez



RECORD OF BOREHOLE CCR-13A

PROJECT: Lakeland Electric CCR PROJECT NUMBER: 19117001 DRILLED DEPTH: 30.0 ft AZIMUTH: N/A LOCATION: Lakeland, FL

DRILL METHOD: Direct Push DRILL RIG: Geoprobe 3230 DT DATE STARTED: 2/12/2019 DATE COMPLETED: 2/12/2019 WEATHER: Partly cloudy

DATUM: NAD83 / NAVD88 COORDS: N: 1,362,936.6 E: 682,164.1 GS ELEVATION: 135.0 ft

TRC ELEVATION: N/A ft TEMPERATURE: 72° F

INCLINATION: -90 DEPTH W.L.: 2.39 ft ELEVATION W.L.: 132.61 ft DATE W.L.: 3/12/2019 TIME W.L.: 11.58

SHEET 1 of 1

SOIL PROFILE ELEVATION (ft) DEPTH (ft) ELEV. GRAPHIC LOG **NSCS** DESCRIPTION COMMENTS DEPTH (ft) 0 135 0.0 - 2.01.) Borehole location is adjacent to monitoring SAND, fine; light brown, dry well CCR-13; survey coordinates shown are SP from CCR-13. 2.) Ground surface elevation is estimated 133.0 based on ground surface elevation of monitoring well CCR-13. 2.0 - 4.0 2.0 SAND, fine; dark grayish brown, dry 3.) Boreholes were backfilled with 20/30 SP graded silica sand to 5 ft bgs and the remaining borehole was filled with bentonite 131.0 chips to land surface 4.0 - 5.0 SAND, fine; brown, dry 4.0 SP 4.) Water-level elevations are estimated based 130.0 130 5 on depth-to-water measurements from 50-71 5.0 adjacent monitoring well CCR-13. SAND, fine, subrounded, uniform grading; black to dark gray, loose, moist to wet 5.) Density descriptions are based on field SP observations and not form SPT blow counts. 6.) Soil cores were collected and transported to Golder's Tampa office. The soil cores were later logged by M. Boatman for mineralogic description of lithology. 127.9 7.1 SILTY SAND, fine, uniform grading; tan to white, compact to dense, wet SM 7.) Based on lithologic descriptions, mine tailings and/or fill was encountered from approximately ground surface to 25 ft bgs and in-situ residual soil and/or weathered rock 125.6 94 - 100 SP 125.0 SAND, fine, uniform grading; black with heavy minerals, loose, wet 10 125 from 25 ft bgs to terminal depth. 10.0 10.0 - 12.0 No Recovery 123.0 12.0 - 15.0 12.0 SAND, fine to medium, subrounded; dark brown, loose to compact, wet SP 14.2: root encountered 120.0 15 120 15.0 - 17.0 15.0 No Recovery 118.0 17 0 - 19 0 17.0 SAND trace to some clay, fine, uniform grading; grayish brown/tan with black heavy minerals, loose, wet. SP-SC - two black bands at 17.3 and 17.6 ft bgs 116.0 19.0 - 20.0 19.0 SP SAND, fine, uniform grading; grayish brown with black heavy minerals, compact, moist 115.0 20 115 20.0 SAND, fine to medium, uniform grading; tan to white wih heavy minerals SP 110.0 25 110 CLAY trace sand; fine, sand; white to pale green, firm to stiff, slight mottling, moist 1545454.2_REV1 (1).GPJ CL 105.0 30 -- 105 Boring completed at 30.0 ft

LOG SCALE: 1 in = 4 ft

GEOTECH NO SPT

H

G

DRILLING COMPANY: Action Environmental

DRILLER: Omar Velazquez

INSPECTOR: M. Boatman CHECKED BY: G. Morelli



RECORD OF BOREHOLE CCR-14A

PROJECT: Lakeland Electric CCR PROJECT NUMBER: 19117001 DRILLED DEPTH: 30.0 ft AZIMUTH: N/A LOCATION: Lakeland, FL

DRILL METHOD: Direct Push DRILL RIG: Geoprobe 3230 DT DATE STARTED: 2/12/2019 DATE COMPLETED: 2/12/2019

DATUM: NAD83 / NAVD88 COORDS: N: 1,362,771.1 E: 681,761.2 GS ELEVATION: 135.8 ft TRC ELEVATION: N/A ft TEMPERATURE: 75° F

INCLINATION: -90 DEPTH W.L.: 3.76 ft ELEVATION W.L.: 132.04 ft DATE W.L.: 3/12/2019 TIME W.L.: 12:06

SHEET 1 of 1

WEATHER: Partly cloudy

- I5	SOIL PROFILE				
(ft) (ft) ELEVATION (ft)	DESCRIPTION	nscs	GRAPHIC LOG	ELEV. DEPTH	COMMENTS
0135	0.0 - 5.0 SAND, fine; brown, dry to moist				1.) Borehole location is adjacent to monitoring well CCR-14; survey coordinates shown are from CCR-14. 2.) Ground surface elevation is estimated based on ground surface elevation of
- - -		SP			monitoring well CCR-14. 3.) Boreholes were backfilled with 20/30 graded silica sand to 5 ft bgs and the remaining borehole was filled with bentonite chips to land surface.
5	5.0 - 7.4 SAND some silt; fine, subrounded, uniform grading; grayish brown, wet,			130.8	Water-level elevations are estimated based on depth-to-water measurements from adjacent monitoring well CCR-14.
130	loose 6.3: 6.3-6.7 ft bgs, CLAY pocket; soft; white, moist	SP-SN			5.) Density descriptions are based on field observations and not form SPT blow counts. 6.) Soil cores were collected and transported
+	7.4 - 10.0 SAND, fine, subrounded, uniform grading; light to medium grayish brown,			7.4	to Golder's Tampa office. The soil cores were later logged by M. Boatman for mineralogic description of lithology.
-	moist 8.6: 8.6-8.8 ft bgs, (CL) CLAY; soft; white, moist	SP		405.0	Based on lithologic descriptions, in-situ residual soil and/or weathered rock was encountered from approximately ground surface to terminal depth.
10 - 125	10.0 - 11.2 No Recovery			125.8 10.0 124.6	Surface of Communicación.
-	11.2 - 12.3 SILTY SAND, fine, subrounded, uniform graded; white to light gray, wet, loose	SM		11.2	
-	12.3 - 15.0 CLAYEY SAND to Sandy CLAY, fine, subrounded; white to tan, moist, compact	SC/CL		12.3	
15 - 120	15.0 - 16.4 No Recovery			120.8	
-	16.4 - 18.3 CLAYEY SAND to Sandy CLAY, fine to coarse, subangular, fossil fragments; white to pale green, wet, loose to compact	SC/CL		119.4	
_	18.3 - 20.0 SAND, fine to medium, subrounded to subangular, uniform grading; moist, compact to dense	SP		117.5 18.3 115.8	
20 - 115	20.0 - 22.8 Sandy CLAY; fine to coarse, subangular coarse (fossil fragments); pale green to green, compact to dense (weathered limestone)	CL		20.0	
-	22.8 - 25.0 Sandy CLAY, fine to medium; white to pale green, moist, loose to compact	CL		113.0 22.8 110.8	
25 - 110	25.0 - 27.0 Sandy CLAY; fine to coarse, subangular coarse (fossil fragments); pale green to green, compact to dense (weathered limestone)	CL		25.0 108.8	
-	27.0 - 30.0 CLAY trace sand; coarse sand; green and olive brown mottled, phosphatic grains, moist, stiff to hard (weathered limestone)	CL		27.0	
				105.8	

GLDR

DRILLER: Omar Velazquez



APPENDIX D

Geochemical Evaluation of Radium-226+228 in Soils

Phosphorus Radium 226 Radium 228 Total Radium (mg/kg) (pCi/g) (pCi/g) (pCi/g)

Results of chemical analysis of soils from boreholes for radionuclides and phosphorus

Uranium (mg/kg)

Depth of samples (ft. bgs.)

Soil Boring ID

300

250

200

100

20

Uranium (mg/kg) 150

RIC	
CLIENT LAKE LAND ELECTRIC	
10 _	

0.443 2.21

> 0.443 65.2

> > 90,000 78,000

280

CCR-18

CCR-22 CCR-23 Notes:

24 - 25

28

24 - 25

1.03 9.92

0.702

2,800 3,000 800

4.5 4.3 1.2

1.07 Ω

1.14

0.726 0.328

75.9

130,000

280

CCR-4A CCR-15 CCR-16 2.99

15.1

0.359 1.49

14.7

mg/kg- milligrams per kilogram pCl/g- picocuries per gram ft. bgs.- feet below ground surface

4

GOLDER

GEOCHEMICAL EVALUATION OF RADIUM-226+228 IN SOILS

PHASE 01

PROJECT
BASA COR GROUNDWATER
C.D. MAINTOSH POWER PLANT
LAKELAND, POLK COUNTY, FLORIDA
TITLE

70

(a)

9

 $R^2 = 0.9918$

Radium[226+228] (pCi/g) 8 8 8 8

20 10

06 80

APPENDIX E

Mineralogical Assessment prepared by Petrologic Solutions, Inc.

Petrologic Solutions, Inc.

3997 Oak Hill Road Douglasville, GA 30135 Tel: (678) 313-4146 rlkath@comcast.net



June 4, 2019 P18-2058

Anthony Grasso, P.G. Golder Associates Inc. 5402 Beaumont Center Boulevard, Suite 108 Tampa, Florida, USA 33634

RE: TRANSMITTAL OF ANALYTICAL RESULTS IN SUPPORT OF THE EVALUATION OF RADIONUCLIDE SOURCES AT THE C.D. McINTOSH POWER PLANT, POLK COUNTY, LAKELAND, FLORIDA

Dear Mr. Grasso:

Petrologic Solutions, Inc. (Petrologic) was retained by Golder Associates Inc. (Golder) to evaluate soil samples for the presence of naturally-occurring radiogenic minerals and elements in support of Lakeland Electric's evaluation of radionuclide sources beneath the Byproduct Storage Area (BSA) at the C.D. McIntosh Power Plant (MPP) in Lakeland, Florida. For this work effort, Petrologic conducted petrographic analysis, qualitative X-ray diffraction (XRD), Scanning Electron Microscopy (SEM), and bulk geochemical analysis of unconsolidated soil samples collected from borings recently advanced at the site. Analytical procedures and results of these analyses are presented herein.

1.0 SAMPLE COLLECTION, PREPARATION, AND DESCRIPTION

Six soil borings were advanced around the perimeter of the BSA adjacent to monitoring wells CCR2, CCR4, CCR5, CCR7, CCR13, and CCR14 in February 2019, using Direct Push Technology (DPT). These additional borings, designated CCR2A, CCR4A, CCR5A, CCR7A, CCR13A, and CCR14A, were each extended to 30 feet below ground surface (ft. bgs). The locations of the borings were selected to evaluate geologic conditions of downgradient monitoring wells that encountered statistically significant levels of Radium-226 (Ra²²⁶) and Radium-228 (Ra²²⁸) during recent groundwater sampling events. An additional boring was located adjacent to CCR2, which occurs in an upgradient or side gradient position relative to the BSA. Golder logged the soil samples collected from the borings on March 1, 2019 and shipped 40 representative samples to Petrologic for analysis. Upon receipt, the soil samples were saturated; consequently, the samples were dried at 100 °C for 12-hours and then relogged by Petrologic.

Based on visual observation of the dried samples, generally two different material types were represented in the 40 samples collected. The upper-most unit consists of subangular to subrounded, fine- to medium-grained sand that varies in color, silt content, and abundance of heavy minerals. The sand-sized material is largely comprised of quartz, feldspar and a variety of dark heavy minerals; mineralogy of the very fine-grained matrix of the sand could not be determined through visual observation. This unit, as represented on the soil logs provided by Golder, ranges from approximately 20 feet to greater than 30 feet thick and was encountered in the upper parts of each of the additional DPT borings advanced. Although the samples show lithologic variability, no lateral continuity was apparent, giving the material a disturbed or disrupted appearance.

A second unit, observed to locally underlie the sand unit, consists of white to buff-tan, very fine-to fine-grained clayey sand to sandy clay with variable concentrations of silt and local occurrence of marine fossils (bryozoans and bivalves) and bone fragments. This lower unit is largely comprised of clay and quartz, with accessory minerals including rounded brown collophane (fine-grained apatite) "balls" and dolomite. Where present, this clayey sand to sandy clay unit, as represented on the soil logs provided by Golder, ranges from at least 5 feet to 10 feet thick and was encountered in the lower part of each of the DPT borings advanced except for CCR2A and CCR5A. The lateral continuity of this material along with the occurrence of dolomite, marine fossils, and bone, indicates that this unit may represent in-situ material.

From the 40 samples provided, Petrologic selected a subset of 16 samples for supplemental evaluation using a variety of analytical techniques, discussed in Section 2.0. These 16 samples were screened for the occurrence of radiogenic minerals using petrographic analysis of polished thin sections, XRD analysis, and radiogenic elements using bulk geochemistry. Based on these results, Petrologic selected a subset of 5 samples for SEM analysis to evaluate the presence of radiogenic minerals observed in thin section.

2.0 ANALYTICAL TECHNIQUES

Petrographic Analysis

Splits of the dried samples were prepared for petrographic analysis. The 16 soil samples selected from CCR2A, CCR4A, CCR5A, CCR7A, CCR13A, and CCR14A were re-dried and vacuum impregnated with clear epoxy by National Petrographic. The samples were mounted to a microscope slide; once the epoxy cured and then cut using a water-based cutoff saw. After drying the epoxy at 130 °C for 35 minutes, the billets were cut off from the microscope slides and the epoxied material was ground to approximately $35\mu m$. After reaching $35\mu m$, the samples were then polished using a roto-polishing system to a final thickness of $30\mu m$. During grinding and polishing of the clayey samples, the clays were absorbing the grinding oils; consequently, the oil was cleaned with acetone repetitively during the grinding and polishing process to prevent oil from impregnating the clays.

Photomicrographs of the thin sections were taken using plane-polarized light (PPL), cross-polarized light (XPL), or reflected light (RL) on standard using an Olympus BX-60 petrographic microscope and Pixelink 662 digital camera in the microscopy lab at the University of West Georgia, Department of Geosciences. Unless otherwise indicated, all images were taken at 5x magnification; the long-edge of the field of view in the photographs is approximately 2.5 mm in length. Representative photomicrographs are presented in Attachment 1.

Qualitative X-Ray Diffraction - XRD

Splits of the dried samples were prepared for qualitative XRD analysis. The 16 soil samples selected from CCR2A, CCR4A, CCR5A, CCR7A, CCR13A, and CCR14A were ground using a mortar and pestle to create fine-grained powders (~10-12µm-diameter). The fine powders were then loaded on Whatman GF/C glass fiber filters using the Tubular Aerosol Suspension Chamber (TASC) method. This method is used to reduce preferred orientation and allow for a uniform particle distribution over the load area. The samples were loaded into a Philips PW-3710 X-ray diffractometer using a spinning stage pedestal and Cu-K α X-ray source. The samples were run at 0.96 (~1) degree two-theta per minute from 4 to 64 degrees two-theta. Sample identification was conducted using a semi-automated search-match computer program (High Score) which utilizes a Joint Committee on Powder Diffraction Standards (JCPDS) and Crystallography Open (COD) databases; and manual identification using published reference patterns. Additionally, some of the

XRD patterns were overlain with unpublished reference patterns obtained at the University of West Georgia. Interpreted XRD patterns are presented in Attachment 2.

Bulk Geochemistry

Sixteen dried soil samples collected from CCR2A, CCR4A, CCR5A, CCR7A, CCR13A, and CCR14A were provided to American Assay Laboratory (AAL) in Sparks, Nevada for bulk geochemical elemental analysis. All 16 samples were placed in a drying oven at 90°C by AAL prior to analysis. After drying, samples were transferred into ring and puck shatterbox where samples were reduced to a fine powder (200 mesh). A 0.5-gram sample was then weighed and placed into Teflon sample tubes for acid digestion with HNO₃+HCl+HF+HClO₄ for 1 hour. Major, minor and trace element concentrations of the samples were determined by Inductively Coupled Plasma (ICP)- Mass Spectrometry (MS) using ICP-5AM48 protocol. Geochemical results are included as Attachment 3 and summarized on Table 1, presented in Section 3.0.

Scanning Electron Microscopy - SEM

The University of West Georgia Microscopy Center (WGMC) at the Department of Geosciences completed SEM analysis of five polished thin sections, one sample each from CCR2A, CCR7A, and CCR13A, and two samples from CCR14A. The selected thin sections were carbon-coated to reduce surface charging during SEM analysis. Qualitative backscattered electron imaging (BSE) and identification of potential Uranium (U)/Thorium (Th)-bearing accessory minerals in the coated polished thin-sections were conducted using the FEI Quanta 200 SEM instrument and attached Bruker EDX detector for semi-quantitative analysis. Analyses were completed using a 20 kilovolt (kV) accelerating voltage on the filament and a partial vacuum of 0.45 Torr in the sample chamber. Images, spectra, and elemental maps were collected, processed, and annotated using the Bruker ESPRIT software package. Images resulting from the SEM analyses are presented in Attachment 4.

3.0 RESULTS

Petrographic Analysis

Petrographic analysis was conducted on all 16 polished thin-sections to determine the major and minor mineralogy of each sample. Based on petrographic analysis of the upper sand, this unit is characterized by more than 95 volume percent detrital quartz, which is typically subangular to subrounded. Associated with the quartz are accessory minerals that include microcline, muscovite, staurolite, kyanite, zircon, rutile, and ilmenite. The matrix of the sand is variably comprised of kaolinite and eylettersite, and is locally cemented with wavellite.

Based on petrographic analysis of the lower clayey sand to sandy clay unit, this unit is characterized by subangular sand in a clayey matrix. Large rounded grains of collophane, marine fossils (Bryozoa and Molluska), and bone fragments also occur within this more clay-rich unit. Collophane is a massive cryptocrystalline apatite comprised of apatite, fluorapatite and hydroxyapatite. Typically, apatite-minerals are not optically isotropic; however, the cryptocrystalline nature of the collophane makes it optically isotropic in thin section. In one sample, CCR14A (28.3-28.6), dolomite is present in the clayey matrix. Accessory minerals include microcline, staurolite, ilmenite, and zircon.

Photomicrographs for selected samples are presented in Attachment 1.

Qualitative X-Ray Diffraction - XRD

X-Ray powder diffraction scans were completed on all 16 samples to identify the major minerals present. A limitation of XRD analysis is that the lower detection limit is approximately 4 to 5 weight percent. Therefore, diffraction peaks for accessory minerals that are less than approximately 5 weight percent of the rock are typically lost in the background. As previously discussed, the samples are loaded GF/C filters using an aerosol suspension chamber. This method of sample preparation reduces preferred orientation; however, it is a thin layer diffraction technique. Consequently, each of the XRD scans presented in Attachment 2 shows two aluminum peaks that represent the aluminum sample holder upon which the loaded filters are mounted; therefore, aluminum-metal is not contained in these samples.

Consistent with the petrographic analysis, XRD analysis indicates that mineralogy of the upper sand unit is primarily comprised of quartz with minor zircon. Kaolinite and wavellite were also observed, along with the presence of eylettersite occurring in increased concentration near the base of this unit.

The lower clay-rich unit is characterized by the occurrence of quartz, hydroxyapatite, fluorapatite, palygorskite, and minor wavellite. Additionally, the deepest sample, collected from CCR14A at 28.3-28.6 ft. bgs, contains dolomite. Annotated XRD scans for the selected samples are presented in Attachment 2.

Bulk Geochemistry

A summary of selected major, minor and trace elemental geochemistry of soil samples from CCR2A, CCR4A, CCR5A, CCR7A, CCR13A, and CCR14A is presented on Table 1. A complete listing of all geochemical data is presented in Attachment 3.

As indicated in these summary results, the radiogenic elements uranium and thorium were detected in all of the samples collected from the upper sand unit and lower clayey sand to sandy clay unit. The radiogenic elements rubidium and potassium were also detected in many of the samples.

Scanning Electron Microscopy - SEM

Petrographic and XRD analyses indicated the presence of minerals that are potentially radiogenic, and bulk geochemistry confirms the presence of radiogenic elements. Scanning Electron Microscopy was used to confirm the presence of the radiogenic elements detected in the bulk geochemistry in the radiogenic minerals identified in thin section and XRD patterns.

Radiogenic minerals identified from SEM analyses in representative sediment samples include the following:

Zircon Rutile

Ilmenite Wavellite

Hydroxyapatite Fluorapatite

Collophane Eylettersite

Energy dispersive spectroscopy (EDS), back scatter electron (BSE) images, and element maps of soil samples are presented as Attachment 4. In the BSE images, minerals that contain elements with low atomic numbers are shown in gray tones. Minerals that contain elements with large atomic numbers, generally show up as "bright" spots on the BSE image. Because

uranium and thorium have atomic numbers of 92 and 90, respectively, minerals that contain these elements are "brighter" than the surrounding matrix.

Once a mineral with high atomic number elements was identified in the BSE image, the mineral was analyzed using energy dispersive spectroscopy. EDS is an analytical technique for elemental analysis based on x-ray emission caused by electrons that are dislodged from the inner orbitals by an x-ray beam from the instrument. As the inner electron is ejected from the inner shell, the electron hole is filled by electrons from higher-energy shells. transformation from an outer- to an inner-shell releases energy in the form of an x-ray that can be detected and quantified. The energy of the x-ray is characteristic for different elements and can be displayed on an EDS spectrum as a function of electron volts (KeV). EDS and BSE plots for each sample analyzed is presented in Attachment 4.

Discussion

Based on review of historic aerial photographs, topographic maps and mine records, Golder has interpreted that the BSA and surrounding area are underlain by either fine-grained phosphatic mine tailings and/or unmined phosphate deposits. Results from visual observation, petrographic analysis, XRD analysis, bulk chemistry, and SEM analysis conducted for this work effort support this interpretation.

Two types of material were generally encountered in the six additional DPT borings advanced around the BSA. Based on the absence of glass (spherical or shards) in the thin sections or XRD patterns, and relatively low arsenic, beryllium and lithium concentrations, along with the high concentration of wavellite-cemented detrital quartz, microcline, zircon, staurolite, kyanite, ilmenite, and rutile, the upper sand unit encountered is not considered to represent coal combustion residuals (CCR). Although there is lithologic variability in this sand unit, there is no lateral continuity, giving the material a disturbed appearance; consequently, the absence of stratigraphy in a marine sand sequence and known land-use history indicates that this material likely represents backfilled materials, comprised of either removed and replaced overburden, unrecoverable ore, processed mine tailings, and/or mine waste. The underlying clayey-sand to sandy clay unit is interpreted to represent unmined, in-situ material, based on the occurrence of palygorskite, collophane apatite (with quartz inclusions), dolomitic carbonate, marine fossils, and bone fragments.

It is well-documented by Golder that phosphate deposits mined in this area contain naturallyoccurring radiogenic minerals. Based on petrographic, XRD and SEM analysis, several potentially radiogenic minerals were identified in the soil samples collected, including: eylettersite (thoriumbearing aluminum phosphate); wavellite (uranium-bearing aluminum phosphate); collophane, apatite, hydroxyapatite, and fluorapatite (uranium-bearing calcium phosphates); and zircon, rutile, and ilmenite (uranium-bearing oxides). This is further supported by the detection of uranium concentrations up to 467ppm and thorium concentrations up to 23.4ppm in the bulk geochemistry, as summarized in Table 1 and presented in Attachment 3.

Radioactive decay products from naturally occurring radionuclides such as uranium and thorium are potential sources of Ra²²⁶ and Ra²²⁸. Results from this investigation and regional mineral resource evaluations reveal significant uranium and other accessory constituents that are associated with the phosphate ore mined at and near the BSA. Published uranium concentrations in phosphate-bearing rocks have typical concentrations of up to 300 ppm, significantly exceeding concentrations reported for US coals and fly ash (USGS 1997). As shown on Table 1, naturally occurring radionuclides in phosphate ore and mine tailings surrounding the BSA are consistent with, and locally have higher concentrations of uranium than published concentrations in CCR.

Based on research conducted by Golder, the BSA is located in one of the most productive districts of the land-pebble phosphate mining in Florida. Because land-pebble deposits contain phosphates with elevated concentrations of uranium, this district was also of economic interest to the United States Atomic Energy Commission (USACE) (Cathcart, 1949). Uranium is associated in different ways with the aluminum phosphate and calcium phosphate mining zones that occur within these types of deposits. The upper sand unit encountered around the BSA, appears to represent materials originally derived from the aluminum phosphate zone, indicated by the presence of wavellite, eylettersite, and kaolinite. Materials located in the leached portions of the aluminum phosphate zone, originally formed by the downward migration of oxygen-rich acidic water, were noted to have uranium concentrated in the finest fraction (Cathcart, 1964). The principal fine fraction in the leached zone is kaolinitic clay and eylettersite.

The lower clayey-sand unit appears to represent the calcium phosphate zone, which was the target ore that was mined beneath the BSA. Cathcart (1964) described this zone as being comprised of unconsolidated sand, clayey sand, and sandy clay containing abundant nodules of calcium phosphate. We interpret the rounded collophane "balls" which consist of apatite, hydroxyapatite, and fluorapatite to represent the calcium phosphate nodules described by Cathart (1964). Samples from this zone represent unmined, in-situ material that are locally present beneath the BSA.

Based on the results of this work effort, multiple sources for naturally occurring uranium and thorium, and their decay products of Ra²²⁶ and Ra²²⁸, were identified in the unconsolidated samples taken from the DPT borings advanced adjacent to monitoring wells installed around the BSA.

4.0 CLOSING

Petrologic Solutions appreciates the opportunity to work with Golder Associates on this project. Should you require additional information related to this evaluation, please do not hesitate to contact us.

Respectfully submitted,

PETROLOGIC SOLUTIONS INC.

Kandy L. Kell

Randy Kath, PhD, PG

Senior Geologist and Principal

References:

Cathcart, J.B., 1964, Economic Geology of the Lakeland Quadrangle Florida. USGS Survey Bulletin 1162-G. US Government Printing Office, Washington.

USGS 1997. Radioactive Elements in Coal and Fly Ash: Abundance, Forms, and Environmental Significance. USGS Fact Sheet FS-163-97

Table 1. Summary of Selected Geochemical Data

Attachment 1: Photomicrographs of Sediment Samples

Attachment 2: Qualitative X-Ray diffraction scans

Attachment 3: Bulk Geochemistry

Attachment 4: SEM Backscatter Images and Associated EDS Spectra

Table 1: Summary of Selected Geochemical Data

		Al ₂ O ₃	TiO ₂	Fe ₂ O ₃	MgO	MnO	CaO	K ₂ O	NaO	P ₂ 0 ₅
Sample Number	Depth (ft. BGS)	wt%	wt%	wt%	wt%	wt%	wt%	wt%	wt%	wt%
CCR2A	18.7-19	1.37	1.34	0.35	<mdl< td=""><td>0.01</td><td>0.10</td><td>0.06</td><td>0.01</td><td>0.47</td></mdl<>	0.01	0.10	0.06	0.01	0.47
CCR2A	23-23.5	9.22	1.06	0.50	0.05	0.01	0.51	0.13	0.02	2.29
CCR4A	12.5-12.8	0.42	0.50	0.08	<mdl< td=""><td>0.00</td><td>0.19</td><td>0.03</td><td><mdl< td=""><td>0.05</td></mdl<></td></mdl<>	0.00	0.19	0.03	<mdl< td=""><td>0.05</td></mdl<>	0.05
CCR4A	17-17.4	3.75	0.62	0.13	0.05	0.00	0.20	0.06	0.02	0.67
CCR4A	26.1-26.4	9.12	0.36	0.45	0.10	0.01	23.38	0.36	0.13	>2.30
CCR5A	19.3-20	1.11	0.31	0.06	<mdl< td=""><td>0.00</td><td>0.13</td><td>0.04</td><td>0.03</td><td>0.22</td></mdl<>	0.00	0.13	0.04	0.03	0.22
CCR5A	22.3-22.6	9.32	0.42	0.34	0.05	0.00	0.48	0.10	0.03	1.10
CCR7A	7-7.4	0.59	0.51	0.10	<mdl< td=""><td>0.00</td><td>0.20</td><td><mdl< td=""><td><mdl< td=""><td>0.11</td></mdl<></td></mdl<></td></mdl<>	0.00	0.20	<mdl< td=""><td><mdl< td=""><td>0.11</td></mdl<></td></mdl<>	<mdl< td=""><td>0.11</td></mdl<>	0.11
CCR7A	14.6-15	0.73	0.62	0.13	<mdl< td=""><td>0.01</td><td>0.08</td><td><mdl< td=""><td><mdl< td=""><td>0.16</td></mdl<></td></mdl<></td></mdl<>	0.01	0.08	<mdl< td=""><td><mdl< td=""><td>0.16</td></mdl<></td></mdl<>	<mdl< td=""><td>0.16</td></mdl<>	0.16
CCR7A	23.2-23.5	8.70	0.51	0.71	0.05	0.00	0.90	0.07	0.20	>2.30
CCR13A	9.4-10	0.54	0.94	0.12	<mdl< td=""><td>0.00</td><td>0.41</td><td><mdl< td=""><td><mdl< td=""><td>0.13</td></mdl<></td></mdl<></td></mdl<>	0.00	0.41	<mdl< td=""><td><mdl< td=""><td>0.13</td></mdl<></td></mdl<>	<mdl< td=""><td>0.13</td></mdl<>	0.13
CCR13A	17.3-17.6	4.12	0.36	0.16	0.03	0.00	0.26	0.05	<mdl< td=""><td>1.29</td></mdl<>	1.29
CCR13A	27.8-28.2	17.87	0.68	1.41	0.81	0.01	0.59	0.66	0.05	>2.30
CCR14A	8.6-8.8	7.61	0.46	0.42	0.14	0.00	1.05	0.13	0.02	2.13
CCR14A	16.5-18	11.95	0.53	0.50	0.08	0.01	0.72	0.18	0.02	>2.30
CCR14A	28.3-28.6	2.99	0.17	3.37	6.37	0.02	20.09	0.43	0.26	>2.30
		As	Be	Cr	Pb	Rb	Th	U	V	Zr
Sample Number		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CCR2A	18.7-19	0.30	0.17	19.5	25.00	4.00	8.50	5.0	19.00	71.0
CCR2A	23-23.5	<mdl< td=""><td>1.22</td><td>42.9</td><td>29.00</td><td>6.00</td><td>12.90</td><td>50.4</td><td>59.00</td><td>70.2</td></mdl<>	1.22	42.9	29.00	6.00	12.90	50.4	59.00	70.2
CCR4A	12.5-12.8	<mdl< td=""><td>0.01</td><td>7.7</td><td><mdl< td=""><td><mdl< td=""><td>1.70</td><td>1.2</td><td>6.00</td><td>17.6</td></mdl<></td></mdl<></td></mdl<>	0.01	7.7	<mdl< td=""><td><mdl< td=""><td>1.70</td><td>1.2</td><td>6.00</td><td>17.6</td></mdl<></td></mdl<>	<mdl< td=""><td>1.70</td><td>1.2</td><td>6.00</td><td>17.6</td></mdl<>	1.70	1.2	6.00	17.6
CCR4A	17-17.4	0.30	0.20	19.2	13.00	3.00	6.80	5.3	16.00	37.7
CCR4A	26.1-26.4	3.40	1.80	136.1	11.00	16.00	9.70	185.5	119.00	51.8
CCR5A	19.3-20	<mdl< td=""><td>0.05</td><td>6.6</td><td>6.00</td><td>2.00</td><td>2.10</td><td>4.1</td><td>5.00</td><td>15.9</td></mdl<>	0.05	6.6	6.00	2.00	2.10	4.1	5.00	15.9
CCR5A	22.3-22.6	0.70	1.22	49.6	24.00	5.00	8.20	34.2	35.00	44.0
CCR7A	7-7.4	0.60	0.05	7.9	4.00	<mdl< td=""><td>1.70</td><td>1.4</td><td>6.00</td><td>42.5</td></mdl<>	1.70	1.4	6.00	42.5
CCR7A	14.6-15	<mdl< td=""><td>0.05</td><td>10.1</td><td>4.00</td><td><mdl< td=""><td>2.00</td><td>0.9</td><td>6.00</td><td>30.7</td></mdl<></td></mdl<>	0.05	10.1	4.00	<mdl< td=""><td>2.00</td><td>0.9</td><td>6.00</td><td>30.7</td></mdl<>	2.00	0.9	6.00	30.7
CCR7A	23.2-23.5	<mdl< td=""><td>0.93</td><td>50.5</td><td>22.00</td><td>3.00</td><td>8.80</td><td>35.0</td><td>33.00</td><td>60.9</td></mdl<>	0.93	50.5	22.00	3.00	8.80	35.0	33.00	60.9
CCR13A	9.4-10	0.40	0.04	11.4	16.00	<mdl< td=""><td>4.80</td><td>3.0</td><td>13.00</td><td>76.1</td></mdl<>	4.80	3.0	13.00	76.1
CCR13A	17.3-17.6	<mdl< td=""><td>0.49</td><td>23.4</td><td>12.00</td><td>3.00</td><td>6.30</td><td>22.4</td><td>25.00</td><td>43.5</td></mdl<>	0.49	23.4	12.00	3.00	6.30	22.4	25.00	43.5
CCR13A	27.8-28.2	0.20	1.58	162.8	21.00	41.00	23.40	164.4	247.00	167.2
CCR14A	8.6-8.8	<mdl< td=""><td>1.47</td><td>48.4</td><td>26.00</td><td>8.00</td><td>11.40</td><td>96.2</td><td>50.00</td><td>93.3</td></mdl<>	1.47	48.4	26.00	8.00	11.40	96.2	50.00	93.3
CCR14A	16.5-18	0.60	4.24	112.3	31.00	10.00	16.60	467.0	48.00	94.2
CCR14A	28.3-28.6	5.30	0.69	84.3	6.00	20.00	4.00	34.8	123.00	19.0

<MDL- less than method detection limit

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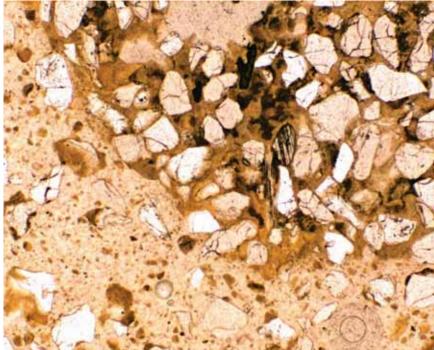
ATTACHMENT 1 PHOTOMICROGRAPHS OF SELECT THIN SECTIONS

PHOTO 1

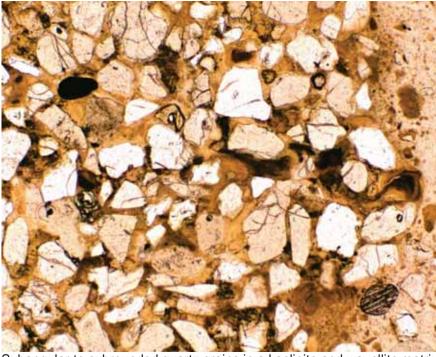
PHOTO 2

CCR2A 23.0-23.5

CCR2A 23.0-23.5



Subangular to subrounded quartz grains in a kaolinite and wavellite matrix (brown). Striated high-relief mineral is kyanite. Minor rutile. Plane light.



Subangular to subrounded quartz grains in a kaolinite and wavellite matrix (brown). Striated high-relief mineral is kyanite; rounded opaque grain is ilmenite; pleochroic yellow minerals are staurolite. Plane light.



P18-2055

PHOTO 3 CCR2A 23.0-23.5

Subangular to subrounded quartz grains in a kaolinite and wavellite matrix (brown). Greenish mineral is zircon; elongate mineral is muscovite Plane light.

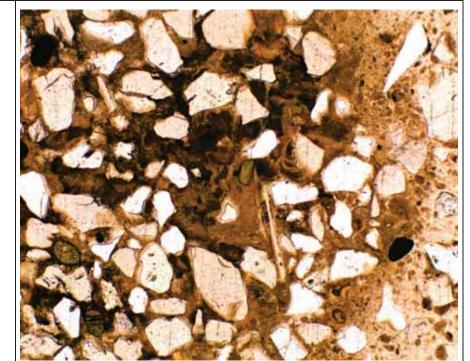


PHOTO 4

CCR2A 23.0-23.5

Subangular to subrounded quartz grains in a kaolinite and wavellite matrix (brown). Greenish minerals are zircon; elongate mineral is muscovite; rounded opaque mineral is ilmenite. Plane light.



April 15, 2019 P18-2055

PHOTO 1 CCR4A 26.1-26.4

Subangular to subrounded quartz grains in a kaolinite, wavellite, and apatite matrix (brown). Plane light.

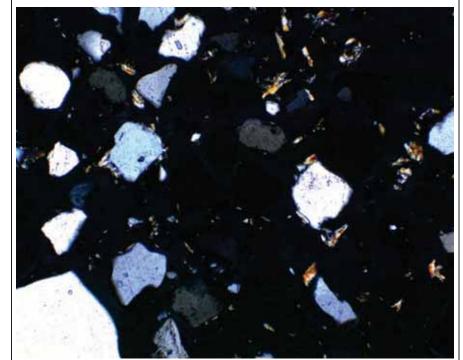


PHOTO 2

CCR4A 26.1-26.4

Subangular to subrounded quartz grains in a kaolinite, wavellite, and apatite matrix (brown). Polarized light.



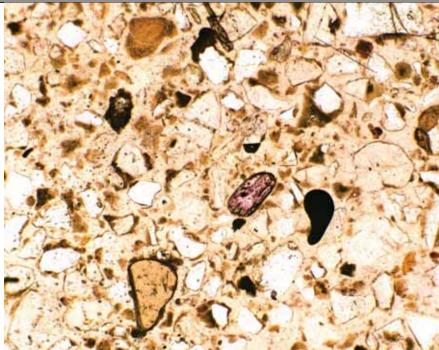


PHOTO 1 CCR7A 23.2-23.5

Subangular to subrounded quartz grains in a kaolinite, apatite, and wavellite matrix (brown). Yellow and pleochroic minerals are staurolite; opaque mineral is ilmenite. Plane light.

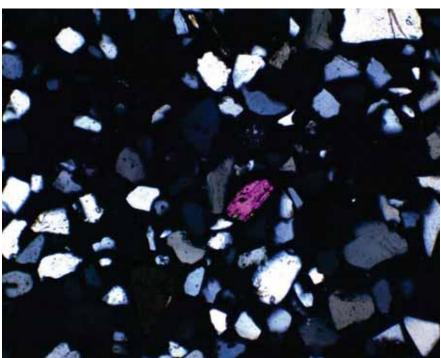


PHOTO 2

CCR7A 23.2-23.5

Subangular to subrounded quartz grains in a kaolinite, apatite, and wavellite matrix (brown). Greenish and purple mineral are staurolite. Polarized light.



Lakeland Electric

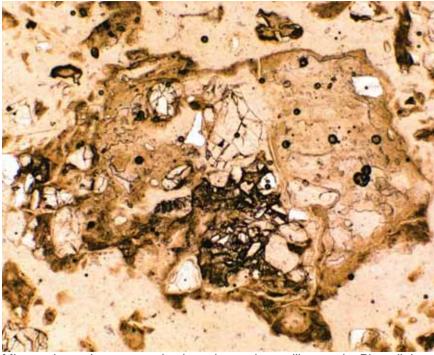


PHOTO 1

CCR13A 27.8-28.2

Minor subangular quartz grins in a clay and wavellite matrix. Plane light.

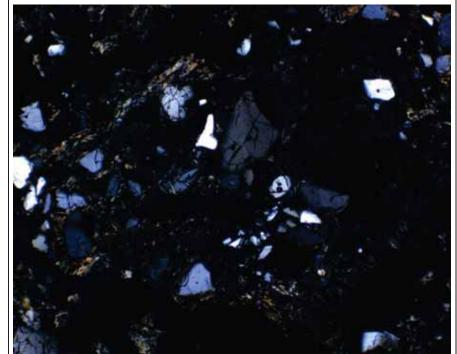


PHOTO 2 CCR13A 27.8-28.2

Minor subangular quartz grins in a clay and wavellite matrix. Polarized light.



Wavellite cement around an angular quartz grain. Plane light.

PHOTO 3 CCR13A 27.8-28.2

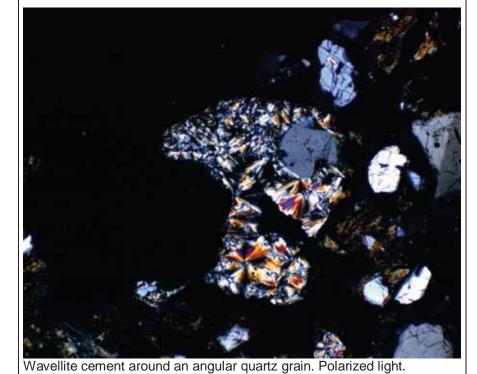


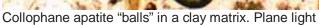
PHOTO 4 CCR13A 27.8-28.2





PHOTO 1

CCR14A 28.3-28.66



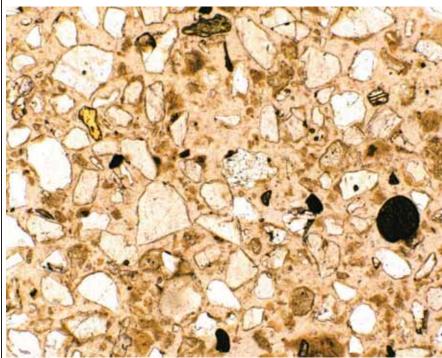


PHOTO 2

CCR14A 16.5-18.0

Subangular to subrounded quartz grains in a kaolinite and wavellite matrix (brown). Yellow mineral is staurolite, striated high-relief mineral is kyanite, and large round mineral is rutile. Plane light.



PHOTO 3 CCR14A 28.3-28.66

Collophane apatite "balls" in a clay and dolomite matrix. Pleochroic grain near the center of the image is staurolite. Plane light.

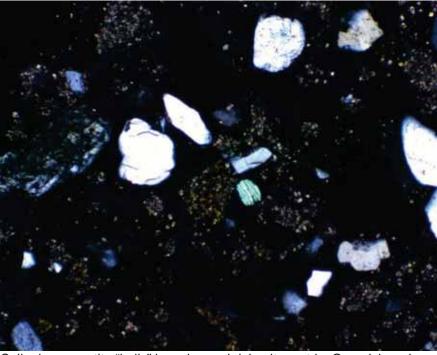


PHOTO 4 CCR14A 16.5-18.0

Collophane apatite "balls" in a clay and dolomite matrix. Greenish grain near the center of the image is staurolite. Polarized light.



PHOTO 5 CCR14A 28.3-28.66

Microcline grain (showing twinning) in a clay and wavellite matrix. Polarized light.







PHOTO 7 CCR14A 28.3-28.66

Phosphatic bone fragment and collophane "balls" in a dolomitic, clay-rich matrix (brown). Polarized light.

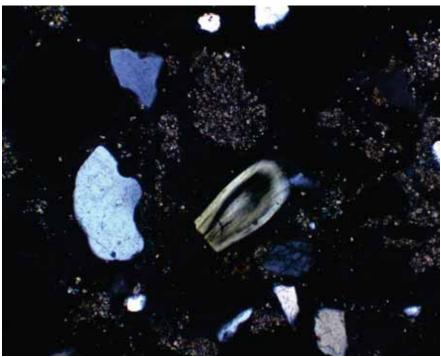


PHOTO 8CCR14A 16.5-18.0

Phosphatic bone fragment and collophane "balls" in a dolomitic, clay-rich matrix (brown). Note undulatory extinction. Polarized light.

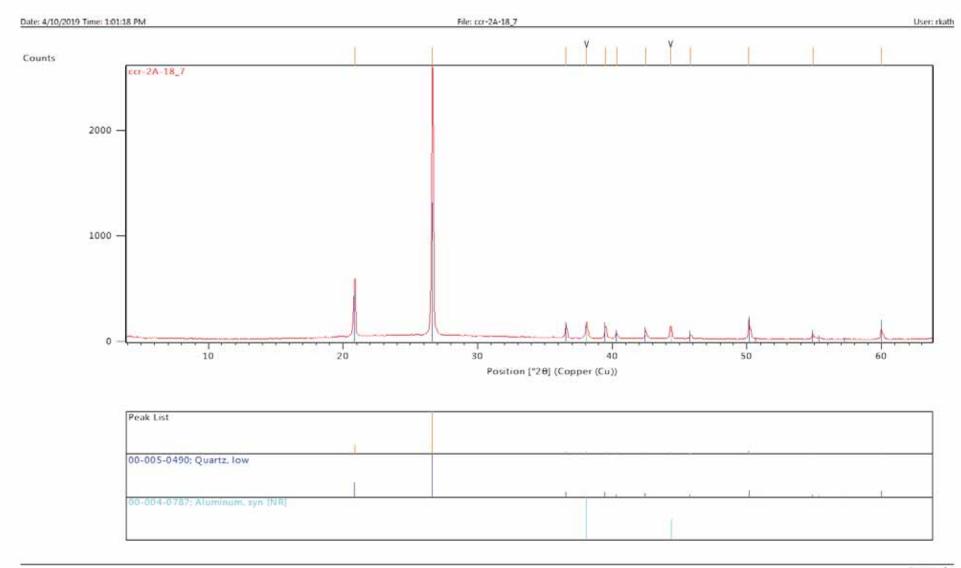


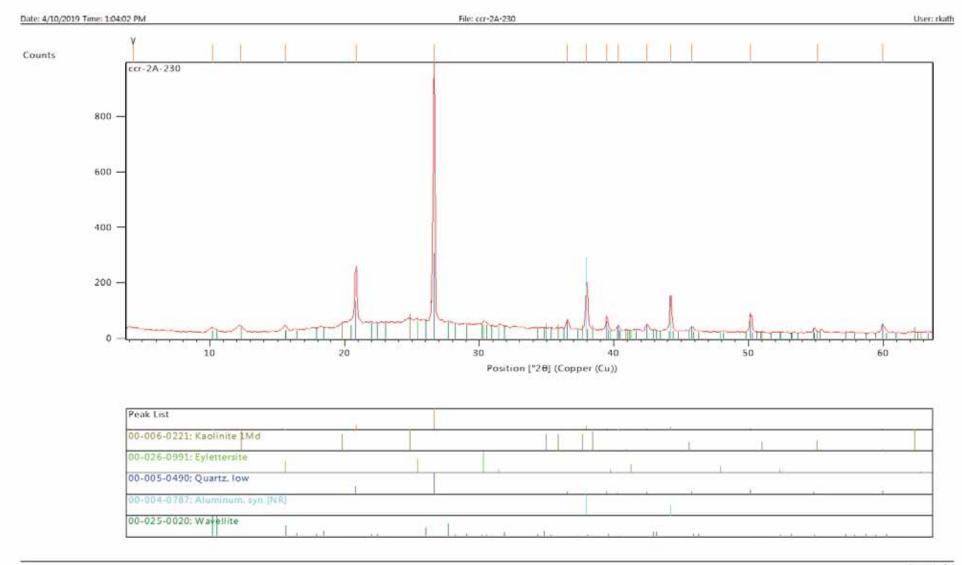
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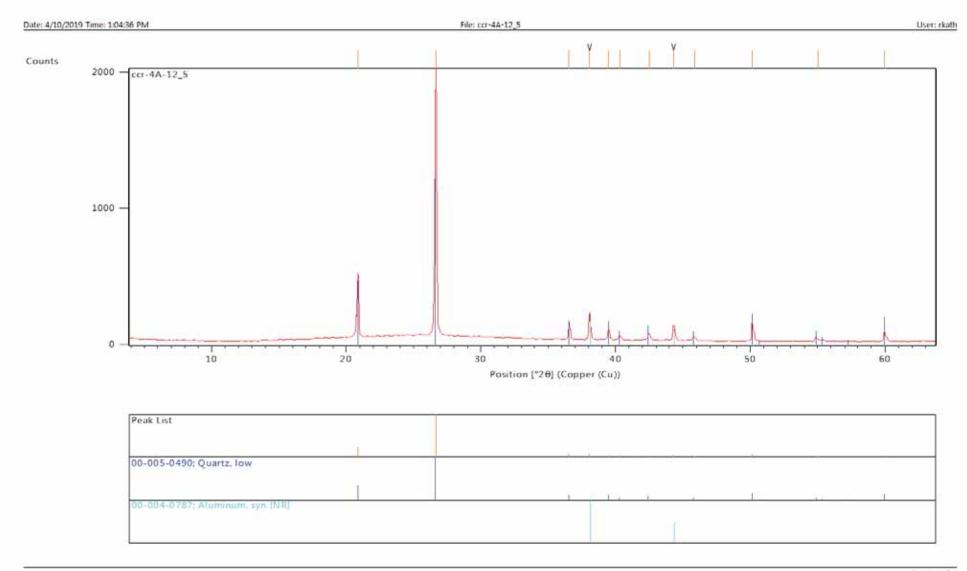
3997 Oak Hill Road Douglasville, GA 30135 *Tel:* (678) 313-4146 *email:* rlkath@comcast.net

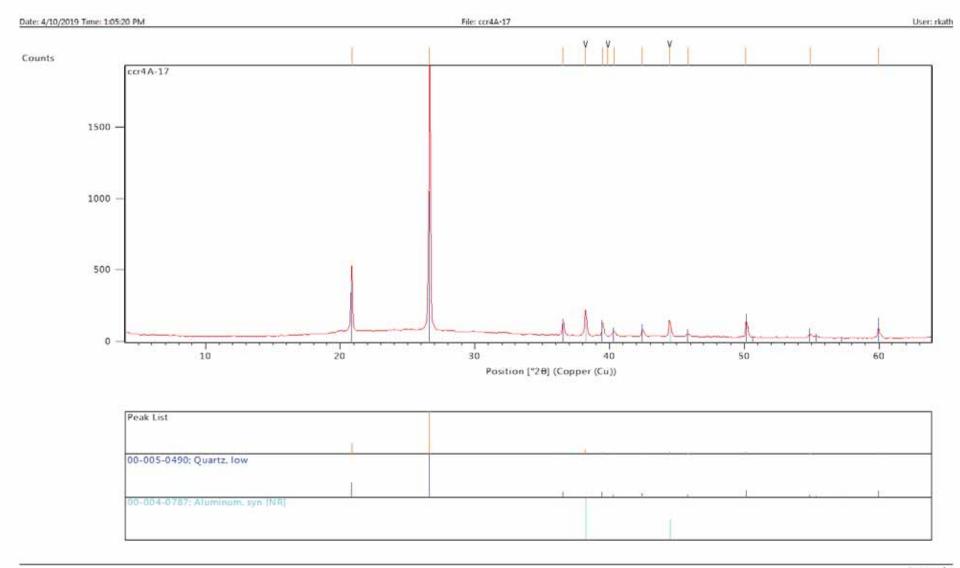


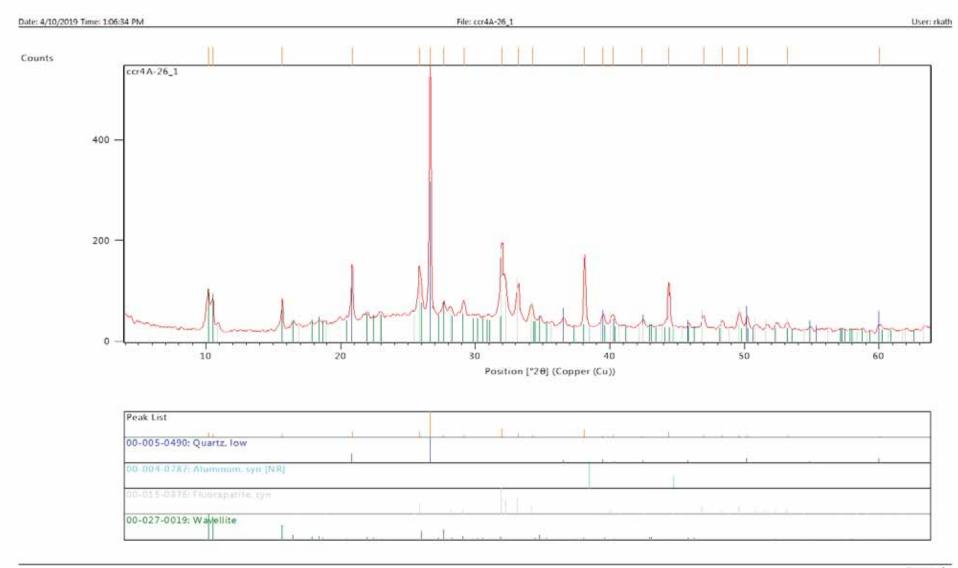
ATTACHMENT 2 QUALITATIVE X-RAY DIFFRACTION DATA

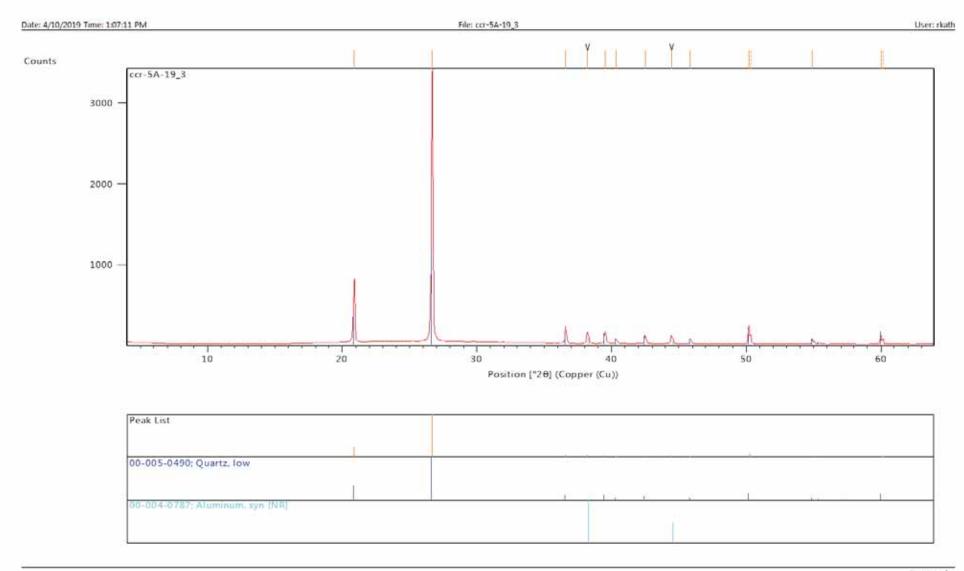


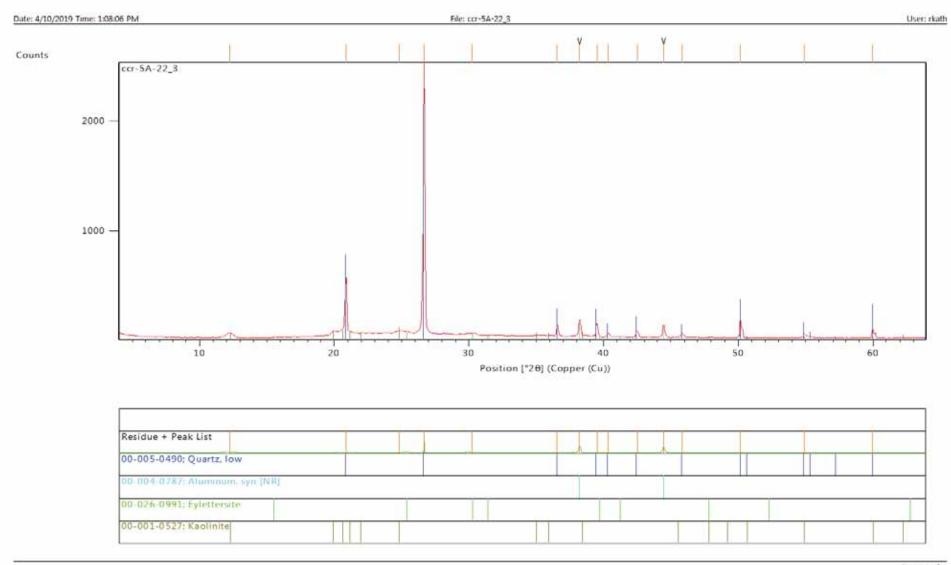


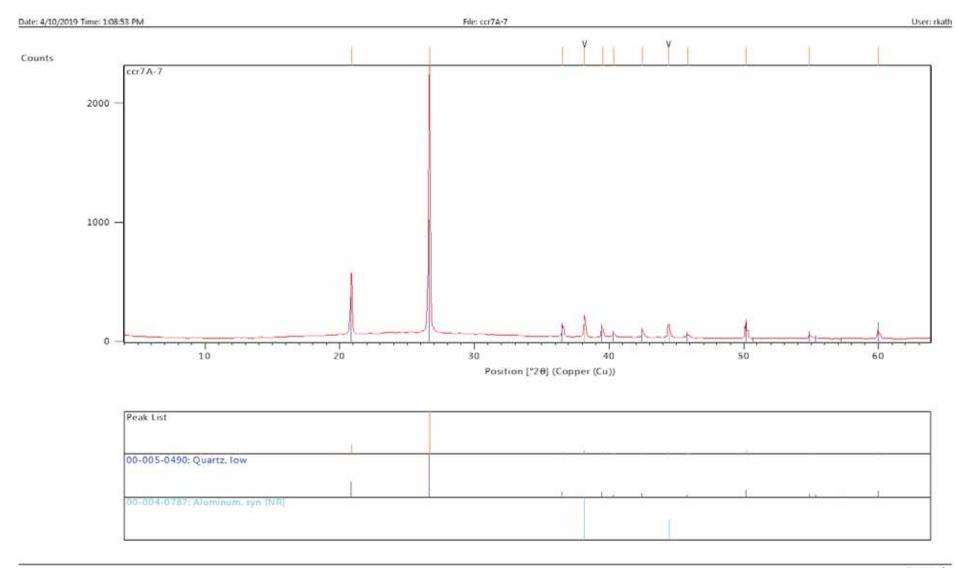




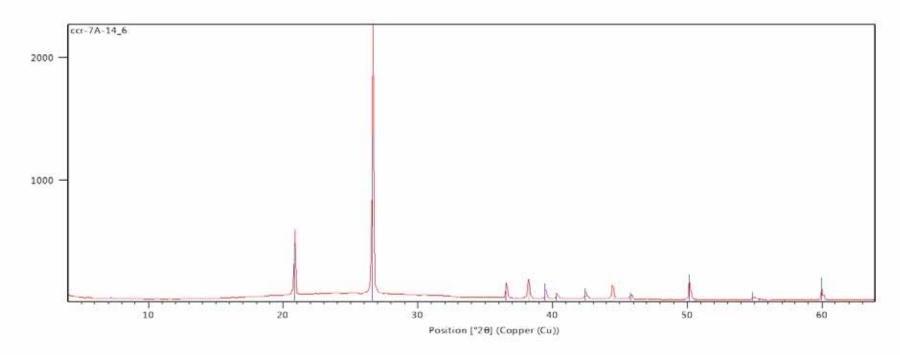




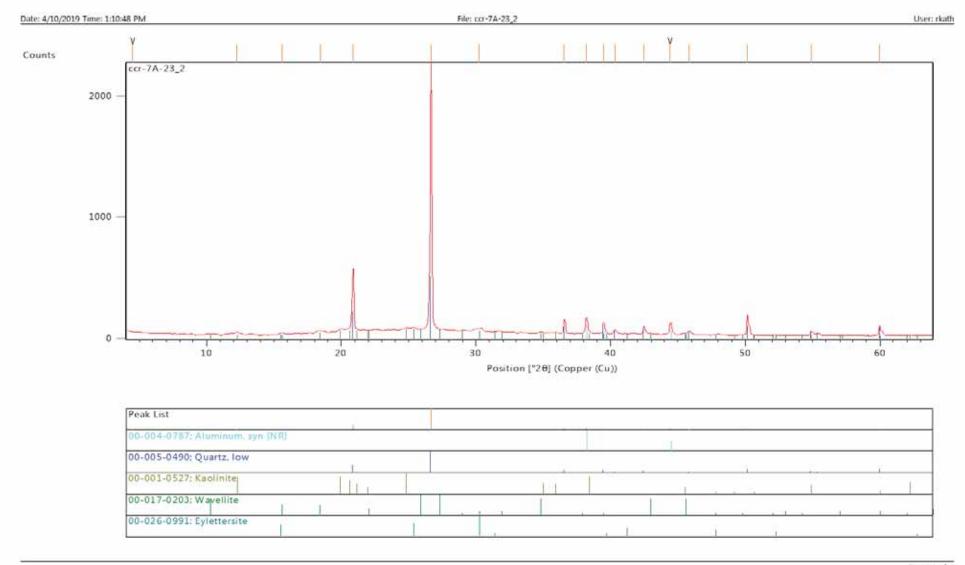


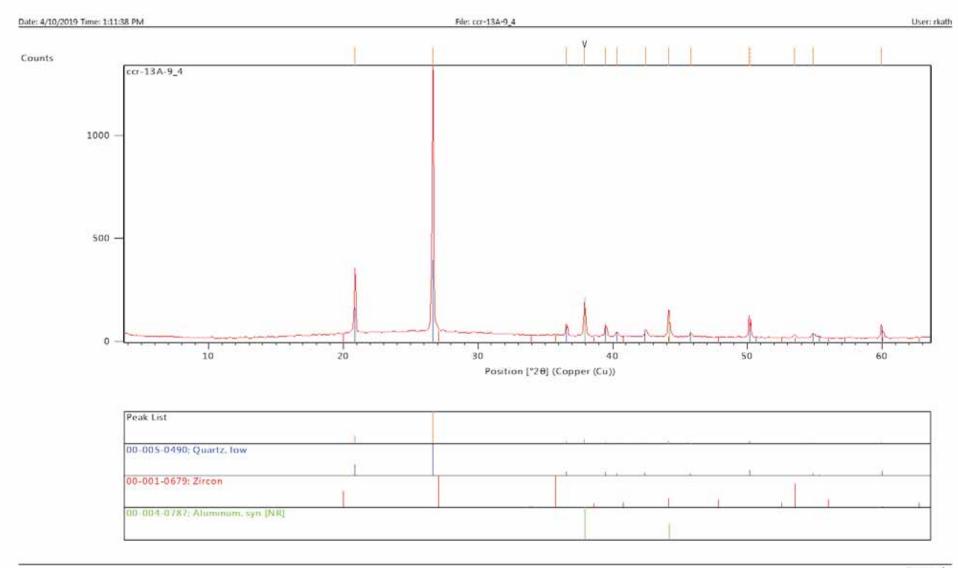


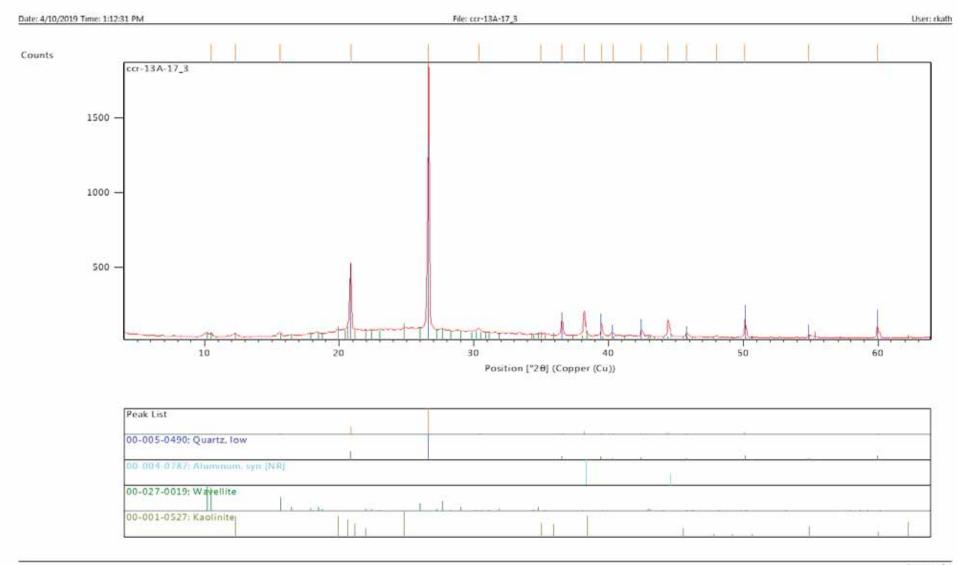




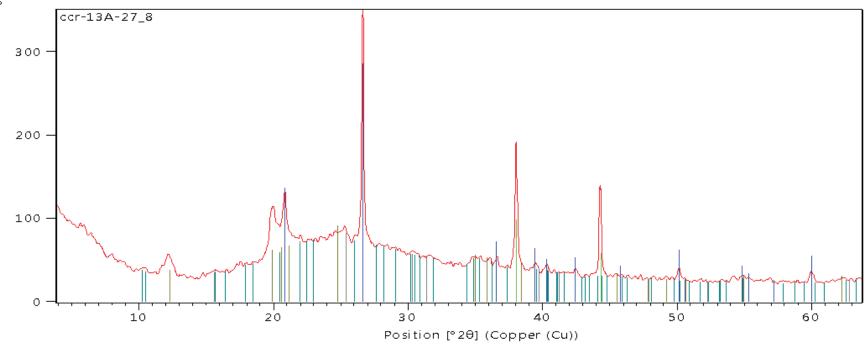


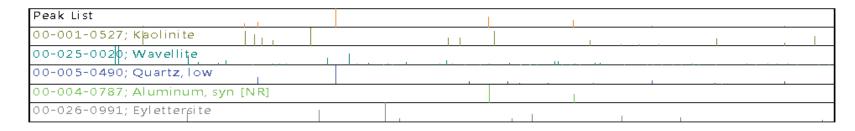


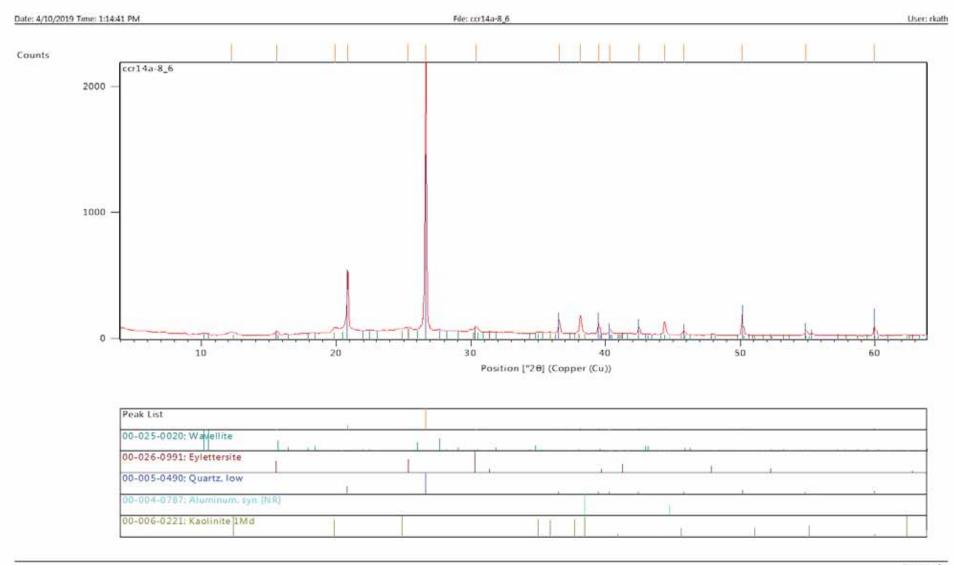


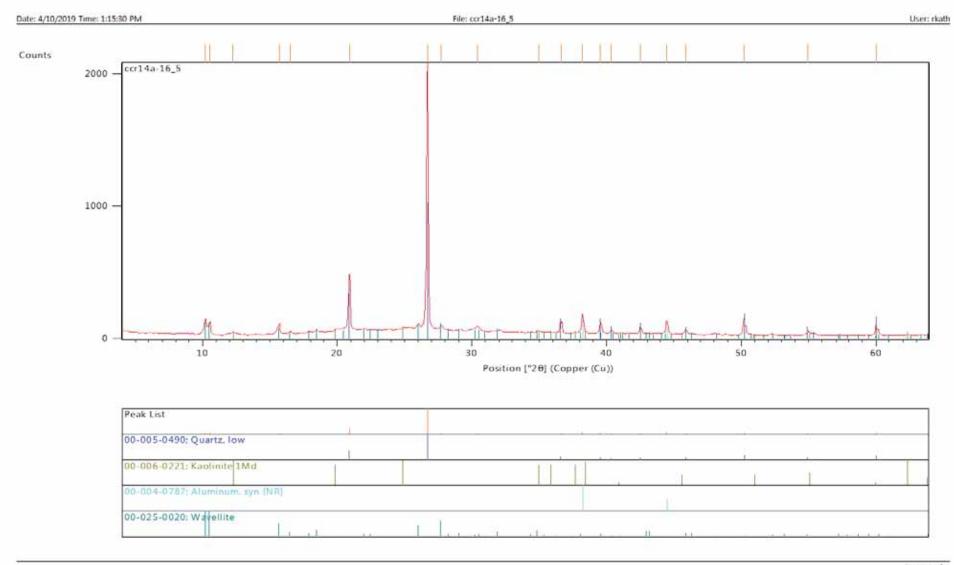


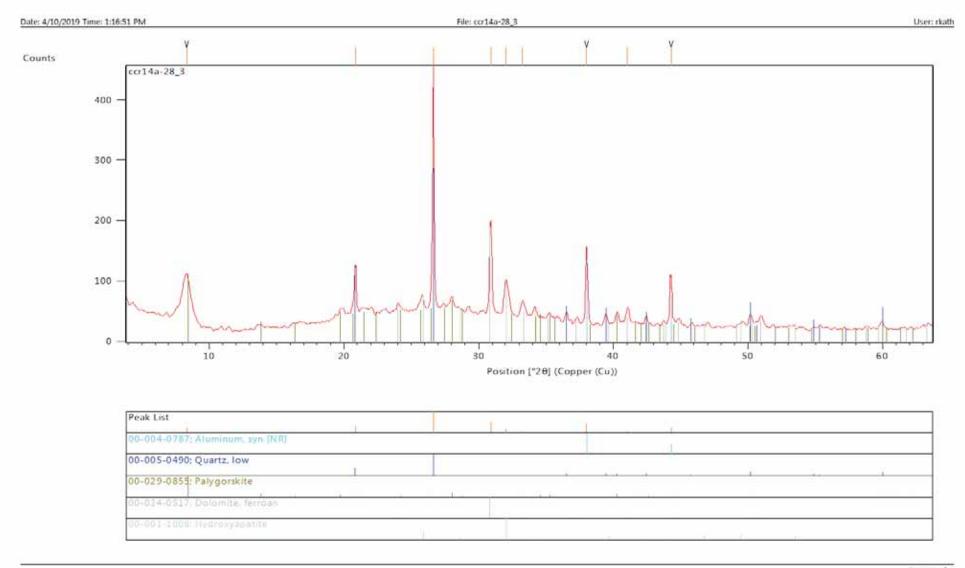












PetroLOGIC Solutions, Inc.

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ATTACHMENT 3 GEOCHEMISTRY DATA

	Al_2O_3	TiO_2	Fe_2O_3	MgO	MnO	CaO	K_2O	NaO	$P_{2}0_{5}$
Sample Number	wt%	wt%	wt%	wt%	wt%	wt%	wt%	wt%	wt%
CCR2A 18.7-19	1.37	1.34	0.35	<mdl< td=""><td>0.01</td><td>0.10</td><td>0.06</td><td>0.01</td><td>0.47</td></mdl<>	0.01	0.10	0.06	0.01	0.47
CCR2A 23-23.5	9.22	1.06	0.50	0.05	0.01	0.51	0.13	0.02	2.29
CCR4A 12.5-12.8	0.42	0.50	0.08	<mdl< td=""><td>0.00</td><td>0.19</td><td>0.03</td><td><mdl< td=""><td>0.05</td></mdl<></td></mdl<>	0.00	0.19	0.03	<mdl< td=""><td>0.05</td></mdl<>	0.05
CCR4A 17-17.4	3.75	0.62	0.13	0.05	0.00	0.20	0.06	0.02	0.67
CCR4A 26.1-26.4	9.12	0.36	0.45	0.10	0.01	23.38	0.36	0.13	>2.30
CCR5A 19.3-20	1.11	0.31	0.06	<mdl< td=""><td>0.00</td><td>0.13</td><td>0.04</td><td>0.03</td><td>0.22</td></mdl<>	0.00	0.13	0.04	0.03	0.22
CCR5A 22.3-22.6	9.32	0.42	0.34	0.05	0.00	0.48	0.10	0.03	1.10
CCR7A 7-7.4	0.59	0.51	0.10	<mdl< td=""><td>0.00</td><td>0.20</td><td><mdl< td=""><td><mdl< td=""><td>0.11</td></mdl<></td></mdl<></td></mdl<>	0.00	0.20	<mdl< td=""><td><mdl< td=""><td>0.11</td></mdl<></td></mdl<>	<mdl< td=""><td>0.11</td></mdl<>	0.11
CCR7A 14.6-15	0.73	0.62	0.13	<mdl< td=""><td>0.01</td><td>0.08</td><td><mdl< td=""><td><mdl< td=""><td>0.16</td></mdl<></td></mdl<></td></mdl<>	0.01	0.08	<mdl< td=""><td><mdl< td=""><td>0.16</td></mdl<></td></mdl<>	<mdl< td=""><td>0.16</td></mdl<>	0.16
CCR7A 23.2-23.5	8.70	0.51	0.71	0.05	0.00	0.90	0.07	0.20	>2.30
CCR13A 9.4-10	0.54	0.94	0.12	<mdl< td=""><td>0.00</td><td>0.41</td><td><mdl< td=""><td><mdl< td=""><td>0.13</td></mdl<></td></mdl<></td></mdl<>	0.00	0.41	<mdl< td=""><td><mdl< td=""><td>0.13</td></mdl<></td></mdl<>	<mdl< td=""><td>0.13</td></mdl<>	0.13
CCR13A 17.3-17.6	4.12	0.36	0.16	0.03	0.00	0.26	0.05	<mdl< td=""><td>1.29</td></mdl<>	1.29
CCR13A 27.8-28.2	17.87	0.68	1.41	0.81	0.01	0.59	0.66	0.05	>2.30
CCR14A 8.6-8.8	7.61	0.46	0.42	0.14	0.00	1.05	0.13	0.02	2.13
CCR14A 16.5-18	11.95	0.53	0.50	0.08	0.01	0.72	0.18	0.02	>2.30
CCR14A 28.3-28.6	2.99	0.17	3.37	6.37	0.02	20.09	0.43	0.26	>2.30
	Ag	As	Ba	Be	Bi	Ce	Cd	Co	Cr
	Ag ppm								
CCR2A 18.7-19	Ag ppm 0.27	As ppm 0.30	Ba ppm 128.00	Be ppm 0.17	Bi ppm 0.29	Ce ppm 57.9	Cd ppm <mdl< td=""><td>Co ppm 12.20</td><td>Cr ppm 19.5</td></mdl<>	Co ppm 12.20	Cr ppm 19.5
CCR2A 18.7-19 CCR2A 23-23.5	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	ppm 0.27	ppm 0.30	ppm 128.00	ppm 0.17	ppm 0.29	ppm 57.9	ppm <mdl< td=""><td>ppm 12.20</td><td>ppm 19.5</td></mdl<>	ppm 12.20	ppm 19.5
CCR2A 23-23.5	ppm 0.27 <mdl< td=""><td>ppm 0.30 <mdl< td=""><td>ppm 128.00 679.00</td><td>ppm 0.17 1.22</td><td>ppm 0.29 0.19</td><td>ppm 57.9 93.7</td><td><pre>ppm <mdl <mdl<="" pre=""></mdl></pre></td><td>ppm 12.20 10.10</td><td>ppm 19.5 42.9</td></mdl<></td></mdl<>	ppm 0.30 <mdl< td=""><td>ppm 128.00 679.00</td><td>ppm 0.17 1.22</td><td>ppm 0.29 0.19</td><td>ppm 57.9 93.7</td><td><pre>ppm <mdl <mdl<="" pre=""></mdl></pre></td><td>ppm 12.20 10.10</td><td>ppm 19.5 42.9</td></mdl<>	ppm 128.00 679.00	ppm 0.17 1.22	ppm 0.29 0.19	ppm 57.9 93.7	<pre>ppm <mdl <mdl<="" pre=""></mdl></pre>	ppm 12.20 10.10	ppm 19.5 42.9
CCR2A 23-23.5 CCR4A 12.5-12.8	ppm 0.27 <mdl <mdl<="" td=""><td>ppm 0.30 <mdl <mdl<="" td=""><td>ppm 128.00 679.00 6.00</td><td>ppm 0.17 1.22 0.01</td><td>ppm 0.29 0.19 0.03</td><td>ppm 57.9 93.7 6.1</td><td>ppm <mdl <mdl <mdl< td=""><td>ppm 12.20 10.10 4.50</td><td>ppm 19.5 42.9 7.7</td></mdl<></mdl </mdl </td></mdl></td></mdl>	ppm 0.30 <mdl <mdl<="" td=""><td>ppm 128.00 679.00 6.00</td><td>ppm 0.17 1.22 0.01</td><td>ppm 0.29 0.19 0.03</td><td>ppm 57.9 93.7 6.1</td><td>ppm <mdl <mdl <mdl< td=""><td>ppm 12.20 10.10 4.50</td><td>ppm 19.5 42.9 7.7</td></mdl<></mdl </mdl </td></mdl>	ppm 128.00 679.00 6.00	ppm 0.17 1.22 0.01	ppm 0.29 0.19 0.03	ppm 57.9 93.7 6.1	ppm <mdl <mdl <mdl< td=""><td>ppm 12.20 10.10 4.50</td><td>ppm 19.5 42.9 7.7</td></mdl<></mdl </mdl 	ppm 12.20 10.10 4.50	ppm 19.5 42.9 7.7
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4	ppm 0.27 <mdl <mdl 0.06</mdl </mdl 	ppm 0.30 <mdl <mdl 0.30</mdl </mdl 	ppm 128.00 679.00 6.00 137.00	ppm 0.17 1.22 0.01 0.20	ppm 0.29 0.19 0.03 0.12	ppm 57.9 93.7 6.1 39.4	ppm <mdl <mdl <mdl 0.05</mdl </mdl </mdl 	ppm 12.20 10.10 4.50 5.70	ppm 19.5 42.9 7.7 19.2
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4	ppm 0.27 <mdl <mdl 0.06 0.34</mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40</mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00	ppm 0.17 1.22 0.01 0.20 1.80	ppm 0.29 0.19 0.03 0.12 0.13	ppm 57.9 93.7 6.1 39.4 69.8	<pre>ppm <mdl 0.05="" 42.65<="" <mdl="" pre=""></mdl></pre>	ppm 12.20 10.10 4.50 5.70 3.30	ppm 19.5 42.9 7.7 19.2 136.1
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl< td=""><td>ppm 0.30 <mdl <mdl 0.30 3.40 <mdl< td=""><td>ppm 128.00 679.00 6.00 137.00 131.00 39.00</td><td>ppm 0.17 1.22 0.01 0.20 1.80 0.05</td><td>ppm 0.29 0.19 0.03 0.12 0.13 0.03</td><td>ppm 57.9 93.7 6.1 39.4 69.8 13.2</td><td>ppm <mdl <mdl <mdl 0.05 42.65 <mdl< td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6</td></mdl<></mdl </mdl </mdl </td></mdl<></mdl </mdl </td></mdl<></mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl< td=""><td>ppm 128.00 679.00 6.00 137.00 131.00 39.00</td><td>ppm 0.17 1.22 0.01 0.20 1.80 0.05</td><td>ppm 0.29 0.19 0.03 0.12 0.13 0.03</td><td>ppm 57.9 93.7 6.1 39.4 69.8 13.2</td><td>ppm <mdl <mdl <mdl 0.05 42.65 <mdl< td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6</td></mdl<></mdl </mdl </mdl </td></mdl<></mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05	ppm 0.29 0.19 0.03 0.12 0.13 0.03	ppm 57.9 93.7 6.1 39.4 69.8 13.2	ppm <mdl <mdl <mdl 0.05 42.65 <mdl< td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6</td></mdl<></mdl </mdl </mdl 	ppm 12.20 10.10 4.50 5.70 3.30 2.80	ppm 19.5 42.9 7.7 19.2 136.1 6.6
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20 CCR5A 22.3-22.6	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl 0.06</mdl </mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70</mdl </mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22	ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31	ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0	ppm <mdl <mdl <mdl 0.05 42.65 <mdl 0.16</mdl </mdl </mdl </mdl 	ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30	ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20 CCR5A 22.3-22.6 CCR7A 7-7.4	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl 0.06 0.14</mdl </mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70 0.60</mdl </mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05	ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05	ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3	ppm <mdl <mdl 0.05 42.65 <mdl 0.16 <mdl< td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9</td></mdl<></mdl </mdl </mdl 	ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30	ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20 CCR5A 22.3-22.6 CCR7A 7-7.4 CCR7A 14.6-15	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl 0.06 0.14</mdl </mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70 0.60 <mdl< td=""><td>ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00 12.00</td><td>ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05</td><td>ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02</td><td>ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1</td><td>ppm <mdl <mdl 0.05 42.65 <mdl 0.16 <mdl <mdl< td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1</td></mdl<></mdl </mdl </mdl </mdl </td></mdl<></mdl </mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00 12.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05	ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02	ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1	ppm <mdl <mdl 0.05 42.65 <mdl 0.16 <mdl <mdl< td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1</td></mdl<></mdl </mdl </mdl </mdl 	ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50	ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20 CCR5A 22.3-22.6 CCR7A 7-7.4 CCR7A 14.6-15 CCR7A 23.2-23.5	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl 0.06 0.14 0.07 <mdl< td=""><td>ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70 0.60 <mdl <mdl< td=""><td>ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00 12.00 516.00</td><td>ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05</td><td>ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02</td><td>ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1 60.0</td><td>ppm <mdl <mdl 0.05 42.65 <mdl 0.16 <mdl <mdl 0.42</mdl </mdl </mdl </mdl </mdl </td><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5</td></mdl<></mdl </mdl </mdl </mdl </td></mdl<></mdl </mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70 0.60 <mdl <mdl< td=""><td>ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00 12.00 516.00</td><td>ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05</td><td>ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02</td><td>ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1 60.0</td><td>ppm <mdl <mdl 0.05 42.65 <mdl 0.16 <mdl <mdl 0.42</mdl </mdl </mdl </mdl </mdl </td><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5</td></mdl<></mdl </mdl </mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00 12.00 516.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05	ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02	ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1 60.0	ppm <mdl <mdl 0.05 42.65 <mdl 0.16 <mdl <mdl 0.42</mdl </mdl </mdl </mdl </mdl 	ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20	ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20 CCR5A 22.3-22.6 CCR7A 7-7.4 CCR7A 14.6-15 CCR7A 23.2-23.5 CCR13A 9.4-10	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl 0.06 0.14 0.07 <mdl 0.27</mdl </mdl </mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70 0.60 <mdl <mdl 0.40</mdl </mdl </mdl </mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00 12.00 516.00 45.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05 0.05	ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02 0.14 0.18	ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1 60.0 37.9	ppm <mdl <mdl 0.05 42.65 <mdl 0.16 <mdl <mdl 0.42 <mdl< td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20 18.40</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5</td></mdl<></mdl </mdl </mdl </mdl </mdl 	ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20 18.40	ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20 CCR5A 22.3-22.6 CCR7A 7-7.4 CCR7A 14.6-15 CCR7A 23.2-23.5 CCR13A 9.4-10 CCR13A 17.3-17.6	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl 0.06 0.14 0.07 <mdl 0.27 0.14</mdl </mdl </mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70 0.60 <mdl <mdl 0.40 <mdl< td=""><td>ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 12.00 516.00 45.00 189.00</td><td>ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05 0.93 0.04</td><td>ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02 0.14 0.18</td><td>ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1 60.0 37.9 39.3</td><td>ppm <mdl 0.05="" 0.16="" 0.42="" 42.65="" <mdl="" <mdl<="" td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20 18.40 20.10</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5 11.4 23.4</td></mdl></td></mdl<></mdl </mdl </mdl </mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 12.00 516.00 45.00 189.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05 0.93 0.04	ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02 0.14 0.18	ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1 60.0 37.9 39.3	ppm <mdl 0.05="" 0.16="" 0.42="" 42.65="" <mdl="" <mdl<="" td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20 18.40 20.10</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5 11.4 23.4</td></mdl>	ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20 18.40 20.10	ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5 11.4 23.4
CCR2A 23-23.5 CCR4A 12.5-12.8 CCR4A 17-17.4 CCR4A 26.1-26.4 CCR5A 19.3-20 CCR5A 22.3-22.6 CCR7A 7-7.4 CCR7A 14.6-15 CCR7A 23.2-23.5 CCR13A 9.4-10 CCR13A 17.3-17.6 CCR13A 27.8-28.2	ppm 0.27 <mdl <mdl 0.06 0.34 <mdl 0.06 0.14 0.07 <mdl 0.27 0.14 0.48</mdl </mdl </mdl </mdl 	ppm 0.30 <mdl <mdl 0.30 3.40 <mdl 0.70 0.60 <mdl <mdl 0.40 <mdl 0.20</mdl </mdl </mdl </mdl </mdl </mdl 	ppm 128.00 679.00 6.00 137.00 131.00 39.00 617.00 18.00 12.00 516.00 45.00 189.00	ppm 0.17 1.22 0.01 0.20 1.80 0.05 1.22 0.05 0.05 0.93 0.04 0.49 1.58	ppm 0.29 0.19 0.03 0.12 0.13 0.03 0.31 0.05 0.02 0.14 0.18 0.06 0.30	ppm 57.9 93.7 6.1 39.4 69.8 13.2 60.0 12.3 10.1 60.0 37.9 39.3 64.7	ppm <mdl 0.05="" 0.16="" 0.41<="" 0.42="" 42.65="" <mdl="" td=""><td>ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20 18.40 20.10 15.10</td><td>ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5 11.4 23.4 162.8</td></mdl>	ppm 12.20 10.10 4.50 5.70 3.30 2.80 10.30 23.30 14.50 21.20 18.40 20.10 15.10	ppm 19.5 42.9 7.7 19.2 136.1 6.6 49.6 7.9 10.1 50.5 11.4 23.4 162.8

<MDL less than method detection limit

	Cs	Cu	Ga	Ge	Hf	In	La	Li	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CCR2A 18.7-19	0.30	6.40	7.25	0.04	1.77	0.02	32.7	1.10	2.70
CCR2A 23-23.5	0.70	2.60	11.27	0.08	1.84	0.03	50.1	3.90	2.10
CCR4A 12.5-12.8	<mdl< td=""><td>1.50</td><td>2.04</td><td><mdl< td=""><td>0.51</td><td><mdl< td=""><td>2.4</td><td>0.70</td><td>1.70</td></mdl<></td></mdl<></td></mdl<>	1.50	2.04	<mdl< td=""><td>0.51</td><td><mdl< td=""><td>2.4</td><td>0.70</td><td>1.70</td></mdl<></td></mdl<>	0.51	<mdl< td=""><td>2.4</td><td>0.70</td><td>1.70</td></mdl<>	2.4	0.70	1.70
CCR4A 17-17.4	0.40	3.40	6.76	0.03	1.09	0.03	20.7	4.20	2.20
CCR4A 26.1-26.4	1.50	8.50	10.30	0.06	1.76	0.06	63.2	3.20	2.30
CCR5A 19.3-20	0.10	0.90	2.41	0.02	0.44	0.01	6.5	6.10	1.10
CCR5A 22.3-22.6	0.40	1.40	9.16	0.05	1.44	0.07	30.6	7.50	1.50
CCR7A 7-7.4	<mdl< td=""><td>1.30</td><td>2.21</td><td>0.01</td><td>0.65</td><td>0.01</td><td>4.5</td><td>1.80</td><td>1.50</td></mdl<>	1.30	2.21	0.01	0.65	0.01	4.5	1.80	1.50
CCR7A 14.6-15	<mdl< td=""><td>2.00</td><td>2.81</td><td>0.01</td><td>0.55</td><td>0.02</td><td>4.0</td><td>1.20</td><td>1.60</td></mdl<>	2.00	2.81	0.01	0.55	0.02	4.0	1.20	1.60
CCR7A 23.2-23.5	0.30	1.20	10.57	0.06	1.55	0.04	31.8	7.00	2.10
CCR13A 9.4-10	0.10	3.10	3.95	<mdl< td=""><td>1.60</td><td>0.01</td><td>20.1</td><td>2.20</td><td>4.10</td></mdl<>	1.60	0.01	20.1	2.20	4.10
CCR13A 17.3-17.6	0.30	2.20	5.30	0.05	1.06	0.02	21.3	6.40	0.90
CCR13A 27.8-28.2	4.20	6.50	19.57	0.05	5.21	0.16	39.0	20.60	2.10
CCR14A 8.6-8.8	1.00	4.00	9.10	0.06	3.10	0.05	45.2	5.40	1.30
CCR14A 16.5-18	1.00	11.60	11.94	0.12	2.97	0.06	83.6	3.00	1.70
CCR14A 28.3-28.6	1.20	1.30	4.03	0.04	0.78	0.01	21.3	8.30	2.80
	Nb	Ni	Pb	Rb	Re	\mathbf{S}	Sb	Sc	Se
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CCR2A 18.7-19	17.45	1.50	25.00	4.00	<mdl< td=""><td>245.0</td><td>0.37</td><td>2.7</td><td>0.30</td></mdl<>	245.0	0.37	2.7	0.30
CCR2A 23-23.5	16.51	6.90	29.00	6.00	<mdl< td=""><td>315.0</td><td>0.64</td><td>4.8</td><td>0.30</td></mdl<>	315.0	0.64	4.8	0.30
CCR4A 12.5-12.8	4.81	1.30	<mdl< td=""><td><mdl< td=""><td><mdl< td=""><td>219.0</td><td>0.13</td><td>0.9</td><td>0.40</td></mdl<></td></mdl<></td></mdl<>	<mdl< td=""><td><mdl< td=""><td>219.0</td><td>0.13</td><td>0.9</td><td>0.40</td></mdl<></td></mdl<>	<mdl< td=""><td>219.0</td><td>0.13</td><td>0.9</td><td>0.40</td></mdl<>	219.0	0.13	0.9	0.40
CCR4A 17-17.4	10.05	6.30	13.00	3.00	<mdl< td=""><td>344.0</td><td>0.23</td><td>1.8</td><td>0.80</td></mdl<>	344.0	0.23	1.8	0.80
CCR4A 26.1-26.4	7.58	4.10	11.00	16.00	0.00	624.0	1.07	8.2	0.50
CCR5A 19.3-20	4.14	2.00	6.00	2.00	<mdl< td=""><td>112.0</td><td>0.10</td><td>0.7</td><td><mdl< td=""></mdl<></td></mdl<>	112.0	0.10	0.7	<mdl< td=""></mdl<>
CCR5A 22.3-22.6	7.17	10.90	24.00	5.00	0.01	144.0	0.76	8.6	0.30
CCR7A 7-7.4	5.81	2.40	4.00	<mdl< td=""><td>0.03</td><td><mdl< td=""><td>0.16</td><td>0.8</td><td><mdl< td=""></mdl<></td></mdl<></td></mdl<>	0.03	<mdl< td=""><td>0.16</td><td>0.8</td><td><mdl< td=""></mdl<></td></mdl<>	0.16	0.8	<mdl< td=""></mdl<>
CCR7A 14.6-15	6.32	1.30	4.00	<mdl< td=""><td>0.02</td><td>142.0</td><td>0.13</td><td>0.9</td><td><mdl< td=""></mdl<></td></mdl<>	0.02	142.0	0.13	0.9	<mdl< td=""></mdl<>
CCR7A 23.2-23.5	9.17	10.70	22.00	3.00	0.03	261.0	0.35	5.9	1.30
CCR13A 9.4-10	14.68	1.60	16.00	<mdl< td=""><td>0.02</td><td>218.0</td><td>0.41</td><td>1.5</td><td>0.80</td></mdl<>	0.02	218.0	0.41	1.5	0.80
CCR13A 17.3-17.6	6.31	4.70	12.00	3.00	0.03	291.0	0.29	2.3	0.30
CCR13A 27.8-28.2	15.13	21.20	21.00	41.00	0.01	270.0	1.24	82.1	<mdl< td=""></mdl<>
CCR14A 8.6-8.8	8.44	10.00	26.00	8.00	0.03	345.0	0.39	18.2	0.20
CCR14A 16.5-18	10.31	5.70	31.00	10.00	0.03	534.0	0.45	13.5	0.20
CCR14A 28.3-28.6	3.66	56.60	6.00	20.00	0.01	1645.0	1.41	2.7	0.50
	Sn	Sr	Ta	Te	Th	Tl	U	\mathbf{v}	\mathbf{W}
GGP24 10 7 10	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CCR2A 18.7-19	1.40	207.0	1.64	0.08	8.5	0.03	5.0	19.00	1.2
CCR2A 23-23.5	1.30	929.0	1.09	0.03	12.9	0.22	50.4	59.00	1.1
CCR4A 12.5-12.8	0.90	12.0	0.66	0.01	1.7	<mdl< td=""><td>1.2</td><td>6.00</td><td>0.5</td></mdl<>	1.2	6.00	0.5
CCR4A 17-17.4	1.50	227.0	1.65	0.03	6.8	0.04	5.3 185.5	16.00	0.9
CCR4A 26.1-26.4	1.50	308.0	0.12	0.05	9.7	0.50		119.00	0.8
CCR5A 19.3-20 CCR5A 22.3-22.6	0.60	63.0 748.0	0.46	<mdl< td=""><td>2.1</td><td>0.01</td><td>4.1</td><td>5.00</td><td>0.4</td></mdl<>	2.1	0.01	4.1	5.00	0.4
CCR7A 7-7.4	1.10		0.06 0.60	0.02 <mdl< td=""><td>8.2</td><td>0.10</td><td>34.2</td><td>35.00 6.00</td><td>66.3 184.8</td></mdl<>	8.2	0.10	34.2	35.00 6.00	66.3 184.8
CCR7A 14.6-15	0.80 0.80	30.0 18.0	0.69	0.01	1.7 2.0	<mdl <mdl< td=""><td>1.4 0.9</td><td>6.00</td><td>97.1</td></mdl<></mdl 	1.4 0.9	6.00	97.1
CCR7A 23.2-23.5	1.20	786.0	<mdl< td=""><td>0.01</td><td>8.8</td><td>0.04</td><td>35.0</td><td>33.00</td><td>173.9</td></mdl<>	0.01	8.8	0.04	35.0	33.00	173.9
CCR13A 9.4-10	1.10	91.0	1.44	0.03	4.8	0.04	3.0	13.00	104.3
CCR13A 17.3-17.6	0.50	458.0	0.30	0.01	6.3	0.08	22.4	25.00	175.2
CCR13A 27.8-28.2	2.50	210.0	0.12	0.02	23.4	1.00	164.4	247.00	77.8
CCR14A 8.6-8.8	0.90	815.0	0.18	0.02	11.4	0.23	96.2	50.00	153.1
CCR14A 16.5-18	1.50	1185.0	1.04	<mdl< td=""><td>16.6</td><td>0.28</td><td>467.0</td><td>48.00</td><td>185.1</td></mdl<>	16.6	0.28	467.0	48.00	185.1
CCR14A 28.3-28.6	0.80	461.0	<mdl< td=""><td><mdl< td=""><td>4.0</td><td>0.60</td><td>34.8</td><td>123.00</td><td>37.0</td></mdl<></td></mdl<>	<mdl< td=""><td>4.0</td><td>0.60</td><td>34.8</td><td>123.00</td><td>37.0</td></mdl<>	4.0	0.60	34.8	123.00	37.0
20.0									- /

<MDL less than method detection limit

Lakeland Electric

	Y	Zn	\mathbf{Zr}
	ppm	ppm	ppm
CCR2A 18.7-19	12.10	4.00	71.0
CCR2A 23-23.5	49.30	11.00	70.2
CCR4A 12.5-12.8	1.10	<mdl< td=""><td>17.6</td></mdl<>	17.6
CCR4A 17-17.4	9.40	4.00	37.7
CCR4A 26.1-26.4	96.30	87.00	51.8
CCR5A 19.3-20	3.00	<mdl< td=""><td>15.9</td></mdl<>	15.9
CCR5A 22.3-22.6	33.30	7.00	44.0
CCR7A 7-7.4	2.20	4.00	42.5
CCR7A 14.6-15	1.40	4.00	30.7
CCR7A 23.2-23.5	25.80	7.00	60.9
CCR13A 9.4-10	6.80	3.00	76.1
CCR13A 17.3-17.6	17.00	5.00	43.5
CCR13A 27.8-28.2	33.90	49.00	167.2
CCR14A 8.6-8.8	48.90	12.00	93.3
CCR14A 16.5-18	93.50	10.00	94.2
CCR14A 28.3-28.6	30.70	49.00	19.0

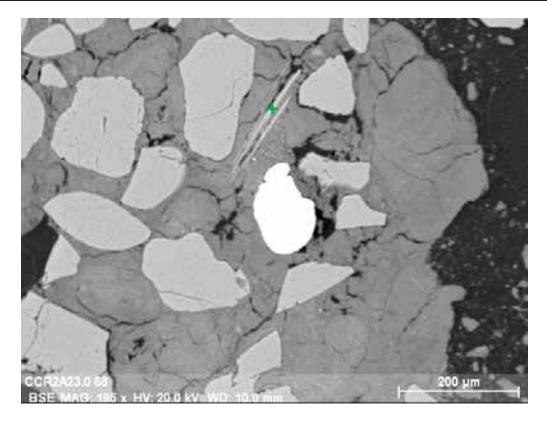
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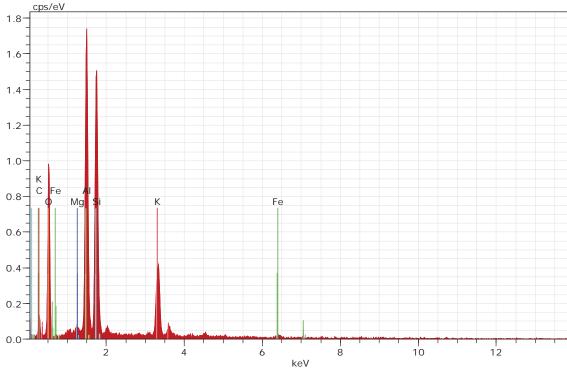
PetroLOGIC Solutions, Inc.

3997 Oak Hill Road Douglasville, GA 30135 *Tel:* (678) 313-4146 *email:* rlkath@comcast.net



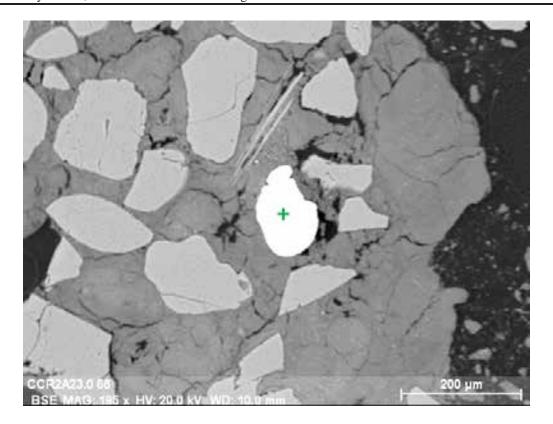
ATTACHMENT 4 SCANNING ELECTRON MICROSCOPY DATA

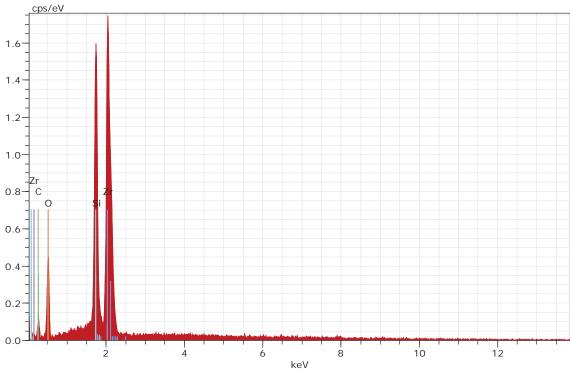




CCR2A 23.0-23.5: BSE image (top) and EDS spectrum (bottom) for muscovite; green crosshair on BSE image marks analysis location.

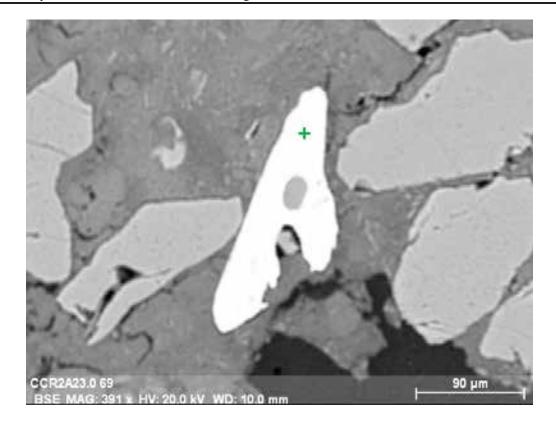


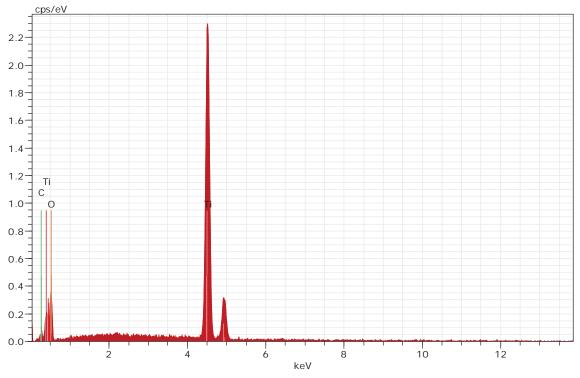




CCR2A 23.0-23.5: BSE image (top) and EDS spectrum (bottom) for zircon; green crosshair on BSE image marks analysis location.

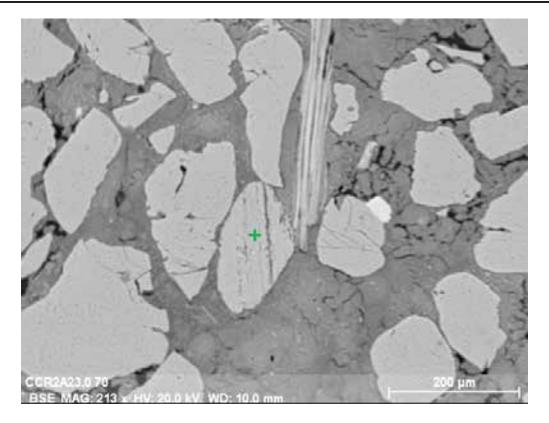


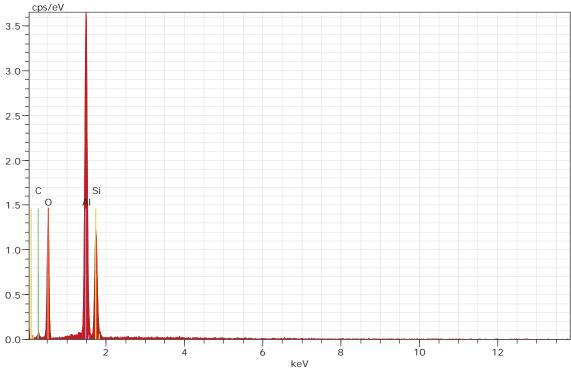




CCR2A 23.0-23.5: BSE image (top) and EDS spectrum (bottom) for rutile; green crosshair on BSE image marks analysis location.

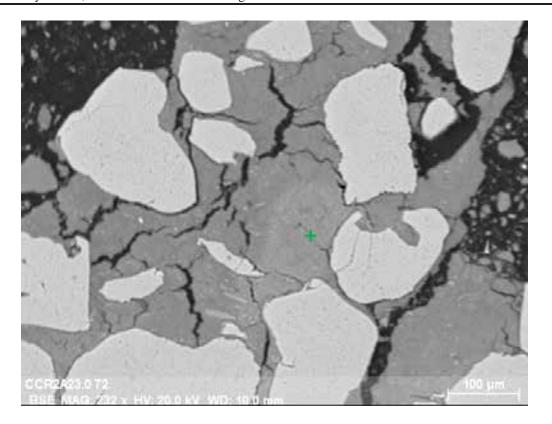


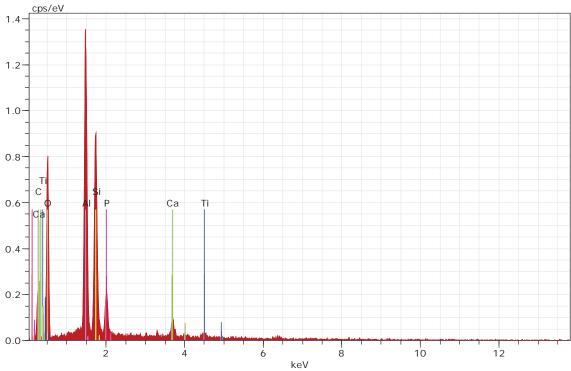




CCR2A 23.0-23.5: BSE image (top) and EDS spectrum (bottom) for kyanite; green crosshair on BSE image marks analysis location.

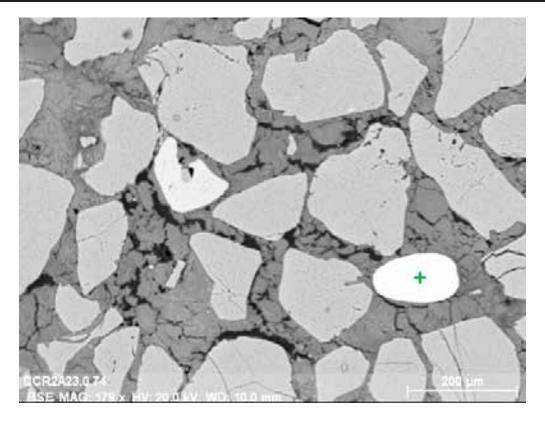


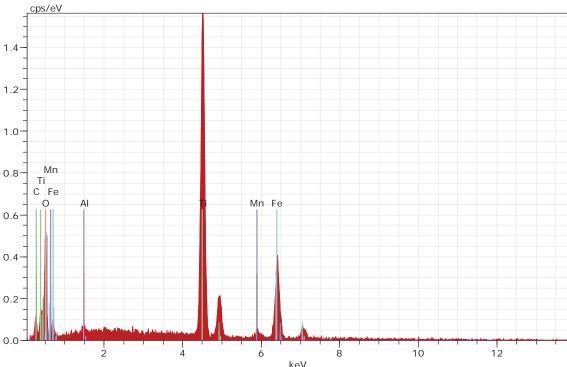




CCR2A 23.0-23.5: BSE image (top) and EDS spectrum (bottom) for wavellite and clay matrix; green crosshair on BSE image marks analysis location.

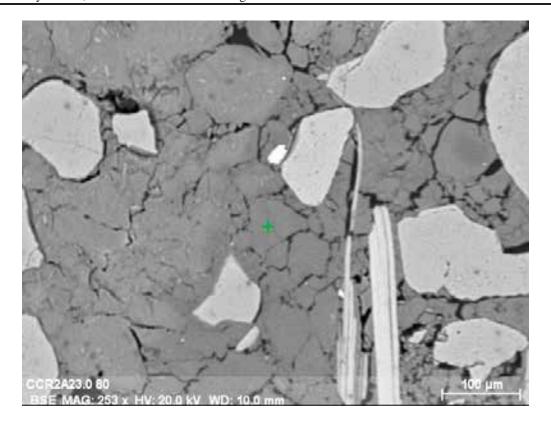


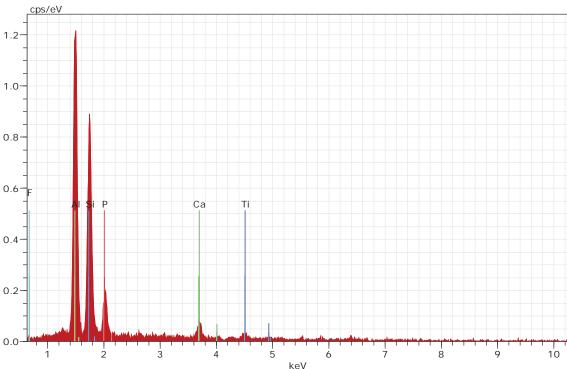




CCR2A 23.0-23.5: BSE image (top) and EDS spectrum (bottom) for ilmenite; green crosshair on BSE image marks analysis location.

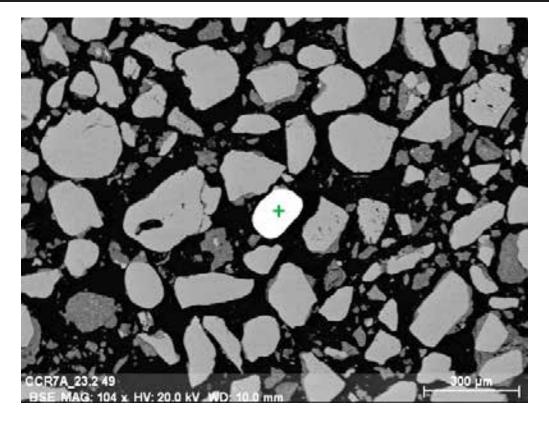


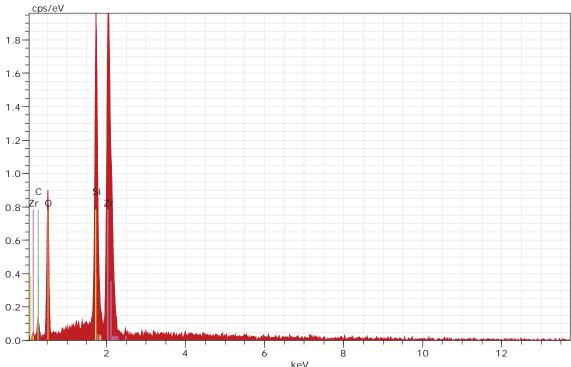




CCR2A 23.0-23.5: BSE image (top) and EDS spectrum (bottom) for wavellite and clay matrix; green crosshair on BSE image marks analysis location.

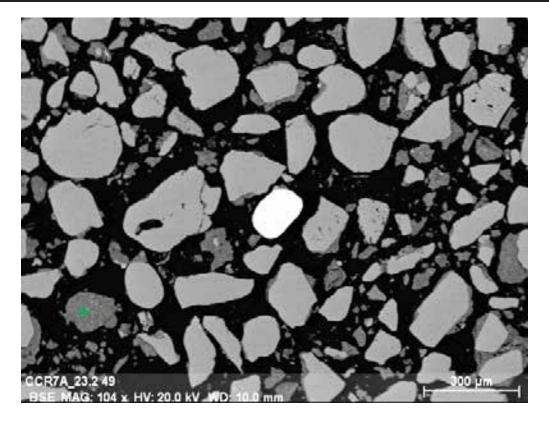


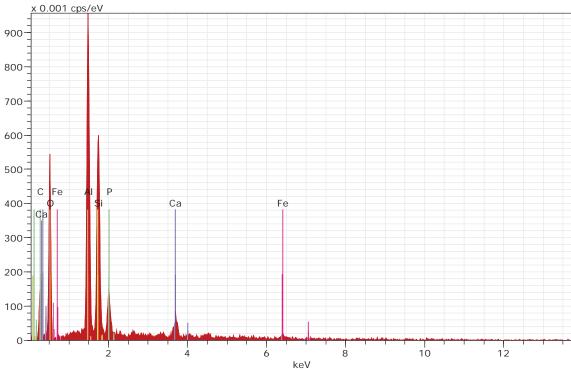




CCR7A 23.2-23.5: BSE image (top) and EDS spectrum (bottom) for zircon; green crosshair on BSE image marks analysis location.

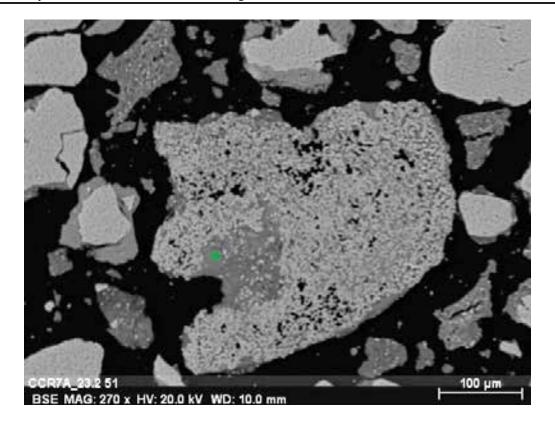


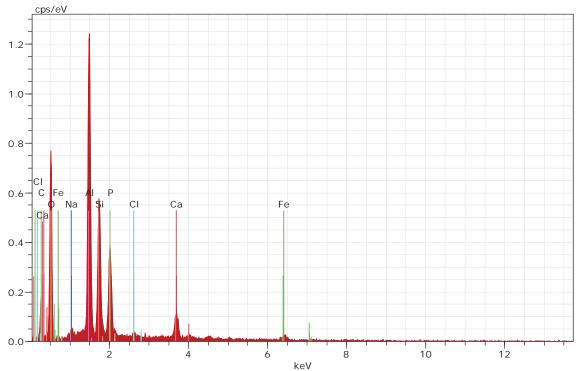




CCR7A 23.2-23.5: BSE image (top) and EDS spectrum (bottom) for Ca- and Al-phosphate matrix; green crosshair on BSE image marks analysis location.

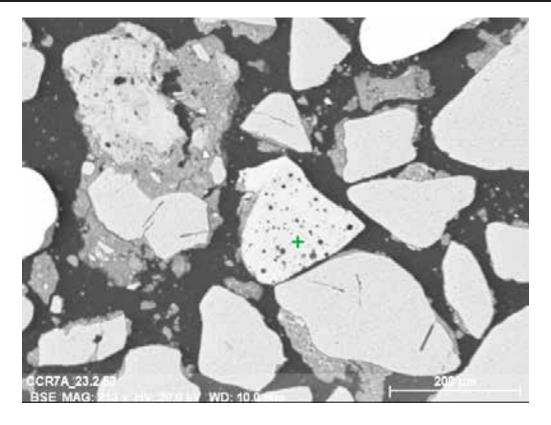


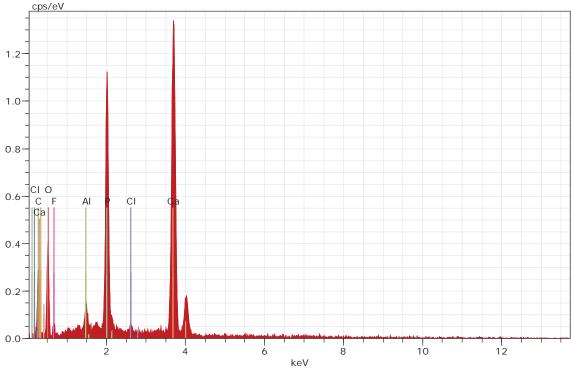




CCR7A 23.2-23.5: BSE image (top) and EDS spectrum (bottom) for wavellite and apatite matrix; green crosshair on BSE image marks analysis location.

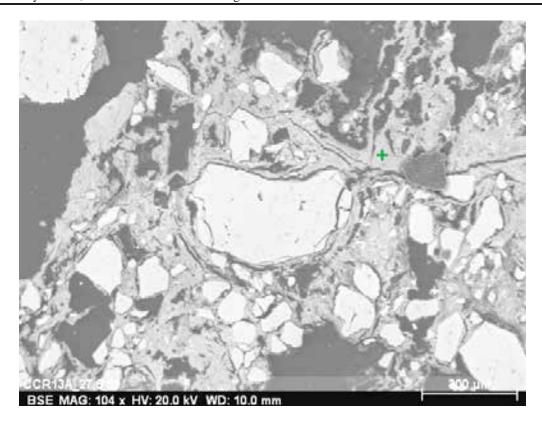


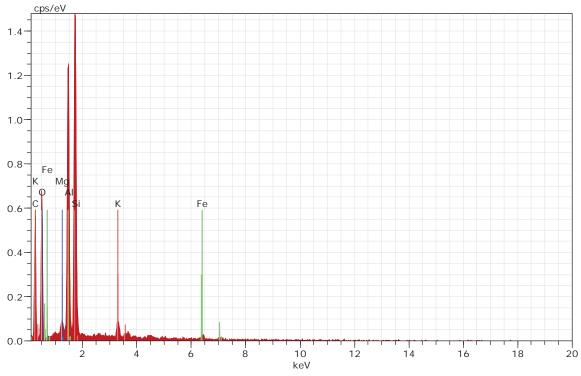




CCR7A 23.2-23.5: BSE image (top) and EDS spectrum (bottom) for apatite matrix; green crosshair on BSE image marks analysis location.

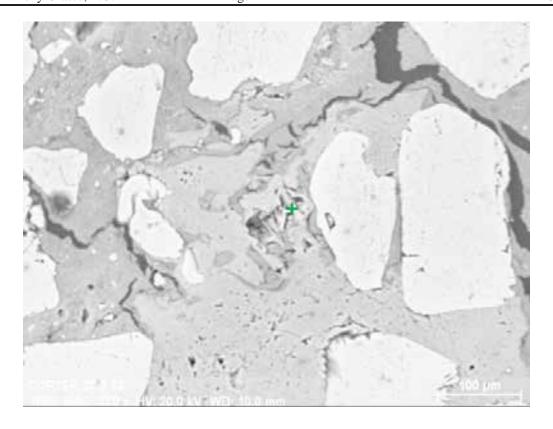


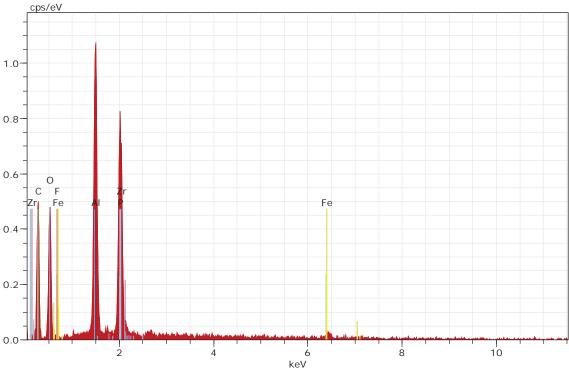




CCR13A 27.8-28.2: BSE image (top) and EDS spectrum (bottom) for kaolinite and muscovite matrix; green crosshair on BSE image marks analysis location.

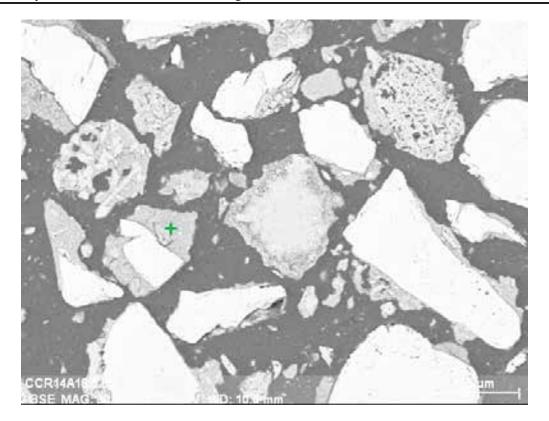


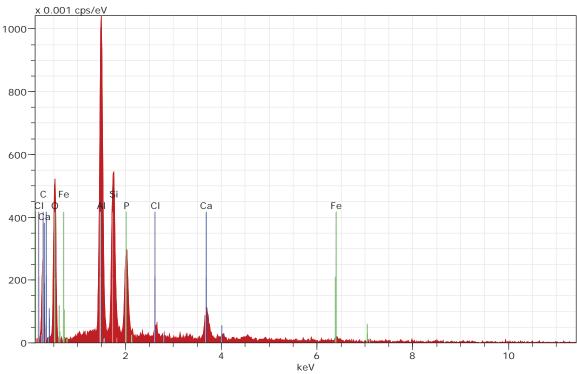




CCR13A 27.8-28.2: BSE image (top) and EDS spectrum (bottom) for wavellite; green crosshair on BSE image marks analysis location.



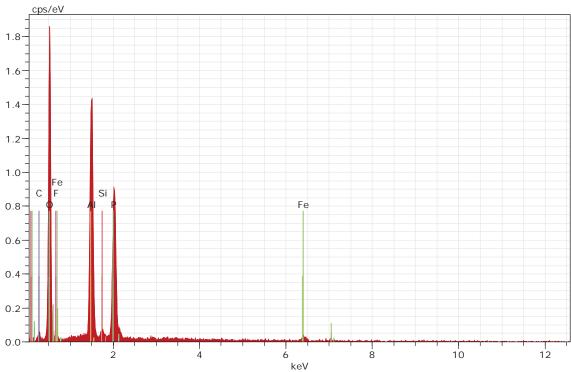




CCR14A 16.5-18.0: BSE image (top) and EDS spectrum (bottom) for apatite and wavellite matrix; green crosshair on BSE image marks analysis location.

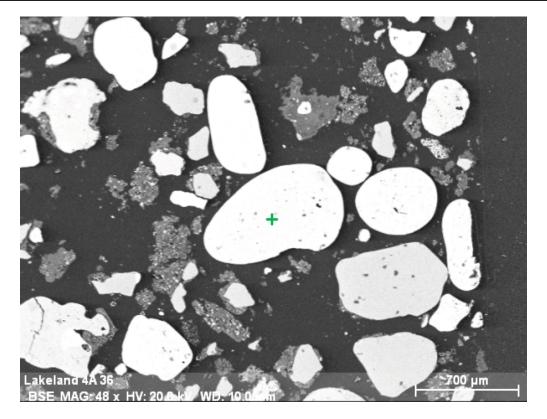


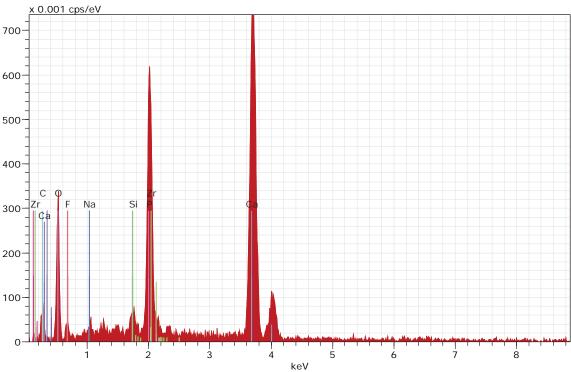




CCR14A 16.5-18.0: BSE image (top) and EDS spectrum (bottom) for wavellite; green crosshair on BSE image marks analysis location.

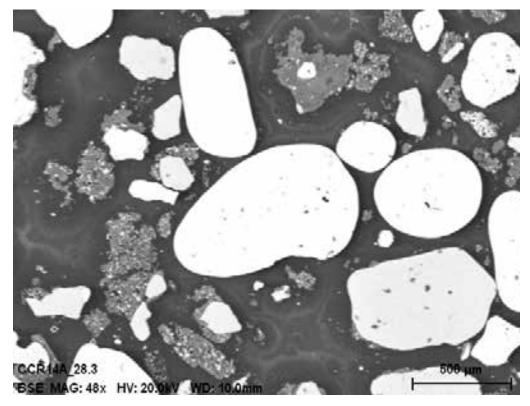


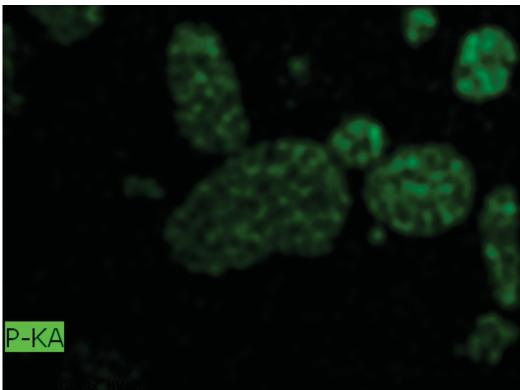




CCR14A 28.3-28.6: BSE image (top) and EDS spectrum (bottom) for collophane (apatite) "ball" with quartz inclusions (light gray); green crosshair on BSE image marks analysis location.

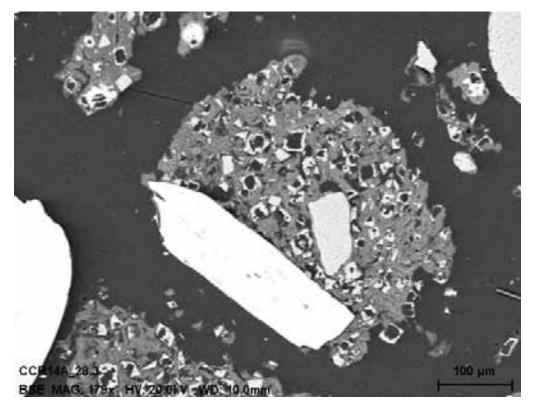


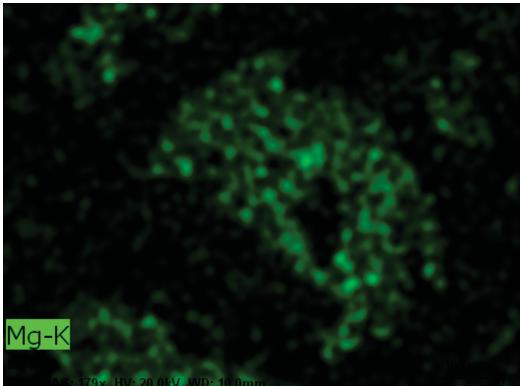




CCR7A 23.2-23.5: BSE image (top) and phosphorous map (bottom) of collophane apatite with quartz inclusions.







CCR7A 23.2-23.5: BSE image (top) of dolomite (high relief rhombohedral grains) in a clay matrix and magnesium map (bottom) of dolomite.





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