Environmental Monitoring

Technical Summary Report

Rolling Hills

Construction & Demolition Debris Facility

and Surrounding Areas

Data Collected:

July 2014 – December 2023

Prepared by:

Escambia County

Natural Resources Management Department

Water Quality & Land Management Division

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Version 2.0

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Appendix 2: FDOH Heath Alerts and Advisories Relating to Former Rolling Hills C&DD Facility

Appendix 3: Hydrogen Sulfide Monitoring Equipment Calibration Records

Appendix 4: Particulate Monitoring Field Documentation

Appendix 5: Particulate Monitoring Equipment Calibration Records

Appendix 6: Surface Water Quality Monitoring Field Documentation

Appendix 7: Surface Water Quality Monitoring Equipment Calibration Records

Appendix 8: Wedgewood Community Center Groundwater Well Installation Report (September 2019)

Appendix 9: Groundwater Quality Monitoring Field Documentation

Appendix 10: Groundwater Quality Monitoring Equipment Calibration Records

Appendix 11: Summary of Data Provided as Electronic Files

1.0 Document Version Control

Version	Date	Notes
V0.1	January 2022	Initial draft report released by Escambia County Water Quality & Land Management Division for review by Escambia County team members. Portions of the report were presented for feedback to representatives with the Florida Department of Environmental Protection and Florida Department of Health. Report initially released as V1.0.
V1.0	July 2022	Release of initial report by Escambia County Water Quality & Land Management Division. Report summarized monitoring efforts conducted from July 2014 – June 2021. Report initially released as V2.0.
V1.1	December 2022	Draft report presented as an addendum to V1.0. Report summarized monitoring efforts conducted from July 2021 – December 2022. Portions of the draft report saw limited release to Escambia County team members. Report initially released as V2.1.
V1.2	March 2024	Draft report released by Escambia County Water Quality & Land Management Division for review by Escambia County team members. July 2022 V1.0 report revised to incorporate all monitoring efforts through December 2023.
V2.0	April 2024	Release of revised report by Escambia County Water Quality & Land Management Division. Report summarized monitoring efforts conducted from July 2014 – December 2023.

2.0 Area of Interest

Data summarized in this report was collected within a portion of south-central Escambia County generally bounded by Interstate 10 to the north, U.S. Highway 29 (Pensacola Boulevard) to the east, State Road 296 (Michigan Avenue) to the south, and State Road 297 (Pine Forest Road) to the west. Land use within the area of interest is mostly comprised of medium density residential with other higher intensity land uses generally located along main thoroughfares. Neighborhoods located within the area include Wedgewood, Olive Heights, Rolling Hills, Randall Oaks, Pepper Ridge, Marcus Point, Somerset, and Crescent Lake. Other community landmarks within the area include Marie K. Young Wedgewood Community Center, Pine Forest High School, George Stone Technical College, Marcus Pointe Commerce Park, Marcus Pointe Gulf Club, Lewis Powell Park, and Crescent Lake. The entire area is located within the upper Marcus Creek watershed. A vicinity map showing the area of interest is provided in Figure 1.

3.0 Brief History of Rolling Hills Construction & Demolition Debris Facility

The Rolling Hills Construction & Demolition Debris Facility (aka Rolling Hills C&D Recycling Center) is a former solid waste management facility located within the area of interest at 6990 Rolling Hills Road. A review of available state records indicates a state-permitted C&DD facility was in operation at this location as early as 1990. Escambia County later permitted the facility in 2007 (File No. 2007-8-001CDD) following the adoption of a local ordinance in 2006 regulating construction and demolition debris facilities (Ordinance No. 2006-24). A total of two unlined disposal cells were eventually constructed on property. Authorized waste types were limited to construction and demolition debris. The final permit issued by the State of Florida for the facility in 2013 (Permit No. 003397-013-SO) described the facility at that time as "having approximately 39.4 acres of total disposal area, with an average daily load of 1,000 cubic yards per day under normal operating conditions." Other portions of the site operated under separate state permit(s) as a land clearing debris facility.

In 2014, FDEP took enforcement action against the C&DD owner/operator (f.k.a South Palafox Properties, LLC) revoking the state permit preventing the facility from continuing to operate. The FDEP Notice of Revocation issued July 2014 was based on the following eight counts: 1) violation of surface water quality standards, 2) failure to implement/install Remedial Action Plan (RAP), 3) failure to provide adequate financial assurance, 4) failure to provide financial assurance for corrective action, 5) objectionable odor, 6) failure to remove unauthorized waste, 7) disposal of unauthorized waste, and 8) exceeding permitted disposal area. The Final Order of Permit Revocation was issued May 2015. In addition to revoking the state permit, the Final Order required the C&DD owner/operator to pursue proper closure in accordance with Chapter 62-701 of Florida Administrative Code. A Final Judgement Granting Injunctive Relief and Assessment of Civil Penalties was issued in Circuit Court in June 2016. All eight counts are discussed in the Final Judgement.

FDEP permit conditions required the Rolling Hills C&DD Facility to conduct routine groundwater and surface water monitoring at predefined locations. Elevated levels of iron, copper, lead, zinc, and mercury in exceedance of state surface water criteria have been previously documented at the facility's surface water sampling sites. Elevated levels of arsenic, boron, ammonia, iron, and total dissolved solids have also been previously documented in the monitoring wells at facility. The Rolling Hills C&DD owner/operator was issued an order to implement a Remedial Action Plan (RAP) in July 2013 to address groundwater contamination. Monitoring reports submitted to FDEP document results of sampling conducted at the Rolling Hills C&DD Facility. Records indicate reports were only submitted through May 2017. In January 2019, FDEP confirmed the groundwater remedial system required by the RAP was no longer operational. FDEP conducted surface water and groundwater sampling at the site February/March 2019. No other surface water or groundwater monitoring has occurred on site since March 2019. FDEP filed a Motion for Contempt in Circuit Court against the Rolling Hills owner/operator for failing to comply with the Final Judgement. An Order Granting Motion for Contempt was issued November 2019.

The Rolling Hills C&DD owner/operator also failed to pursue closure of the facility within the timeline prescribed within the Final Order. In response, FDEP made demand on the Performance Bond posted to properly close the facility. FDEP began the process of closing the C&DD facility in late 2016. FDEP executed a task assignment for the completion of final closure of the facility in June 2019. Work associated with closure of the waste disposal cell was substantially complete by January 2020. FDEP issued a notice of violation in May 2023 requiring the owner/operator to complete closure of the Rolling Hills C&DD Facility and to implement and maintain the activities as required by the RAP. A Final Order adopting the Orders for Corrective Action was issued and served September 2023. State documents related to the Rolling Hills Construction & Demolition Debris Facility are publicly available from the FDEP Electronic Document Management System (OCULUS) at https://depedms.dep.state.fl.us/Oculus/servlet/login.

4.0 Other Facilities

Other solid waste disposal facilities, as defined by Chapter 62-701.200 of Florida Administrative Code, are located within the defined area of interest. These facilities exist in various degrees of activity with many no longer in operation. State documents for permitted facilities are publicly available from FDEP OCULUS at the link provided above. Corresponding geospatial data for state permitted solid waste disposal facilities is also available through FDEP Map Direct at https://ca.dep.state.fl.us/mapdirect/. Escambia County permitted facilities within the area of interest include concrete recycling, vegetative yard debris recycling, and other closed C&DD facilities. Multiple active and inactive borrow pits also exist within the area.

5.0 FDOH Health Consultation

The Florida Department of Health (FDOH), Division of Disease Control and Health Protection released a Health Consultation specific to the Rolling Hills C&DD Facility in June 2015. The purpose of the Health Consultation was to assess the public health threat to the surrounding community from hydrogen sulfide gas (H_2S) and particulate matter (PM) generated as a result of the operation of the nearby C&DD facility. The Health Consultation considered the following environmental data: mobile discrete daytime H_2S testing, fixed continuous H_2S testing, and mobile discrete particulate matter testing. The mobile discrete daytime H_2S testing dataset was comprised of 1,040 samples collected from July 2014 into September 2014. Samples were collected at various locations within the neighborhoods surrounding the C&DD facility. The fixed continuous H_2S testing dataset was comprised of 5,624 samples collected September 2014 through December 2014. Samples were collected north of the C&DD facility near the Wedgewood Community Center. The particulate matter dataset was comprised of 18 samples collected July 2014. Samples were at various locations within the neighborhoods surrounding the C&DD facility. All environmental data considered was collected by Escambia County.

Data was reviewed by FDOH toxicologists based on standards published by the federal Agency for Toxic Substances and Disease Registry (ASTDR). The FDOH Health Consultation included the following seven conclusions (paraphrased): 1) H_2S levels were determined to be a public health hazard. 2) H_2S levels were highest overnight/early morning hours. 3) Insufficient PM data was available to evaluate corresponding public health threat. 4) H_2S odor was frequently detected in surrounding neighborhoods. 5) It was unclear if H_2S levels caused eye irritation, respiratory problems, and/or weakness/fatigue. 6) H_2S levels did not likely cause other community health concerns. 7) Evaluation of public health threat limited to identified area, period, and parameters. The Health Consultation also included the following three recommendations (paraphrased): 1) C&DD owner/operator manage the facility to keep H_2S levels in surrounding neighborhoods from exceeding 70 parts per billion (ppb). 2) Escambia County continue around-the-clock H_2S monitoring in neighborhoods surrounding the C&DD facility. 3) Escambia County monitor particulate matter air pollution in surrounding neighborhoods as long as the C&DD facility continues to operate. The Health Consultation identified review of new data as a planned future activity. The FDOH Health Consultation for the Rolling Hills C&DD Facility is available at http://www.floridahealth.gov/environmental-health/hazardous-waste-sites/Reports/hw-reports-search.html .

In August 2016, FDOH revaluated the original fixed continuous H_2S testing dataset to determine if monthly averages during the available data period ever exceeded 20 ppb. This assessment was made based on new guidance received by ATSDR on the appropriate application of the intermediate duration minimal risk level guidelines. Monthly averages were all determined to be less than 20 ppb. Results from the FDOH assessment of average observed monthly H_2S concentrations is provided as Appendix 1.

6.0 FDOH Health Alerts and Advisories

The FDOH in Escambia County issued a Health Alert on July 22, 2014, relating to the former Rolling Hills C&DD Facility for elevated levels of hydrogen sulfide gas. The FDOH in Escambia County also issued a Health Advisory relating to the former Rolling Hills C&DD Facility for smoke caused by a land clearing debris fire. The Health Advisory for smoke was issued on February 17, 2017, and later rescinded. Documents relating to referenced FDOH Health Alerts and Advisories are provided as Appendix 2.

7.0 Available Escambia County Environmental Data

7.1 Outdoor Air Quality

7.1.1 Hydrogen Sulfide

WQLM began monitoring hydrogen sulfide (H_2S) levels within the area of interest near the former Rolling Hills C&DD facility starting in July 2014. Initial sampling efforts were limited to discrete daytime monitoring. Fixed continuous monitoring began in September 2014 and remains ongoing as of the date of this report. Four monitoring station locations were initially selected to approximately align with the four cardinal directions relative to the former C&DD facility. These station locations were 3420 West Pinestead Road (north), 6760 Rolling Hills Road (south), 703 Pinestead Road (east), and 6964 Rolling Hills Road (west). Sites include both public and private property. Equipment was placed as close as feasibly possible to the C&DD fence line with actual distances ranging from 80 to 440 feet. The station located at 703 Pinestead Road was moved south across the street from 704 Pinestead Road in March 2017 due to a change in owner occupancy. The station located at 6964 Pinestead Road was discontinued in September 2020 due to significant property damage caused by Hurricane Sally. The station located at 6760 Rolling Hills Road was discontinued May 2021 because of a loss of access to electrical power caused by a change in property ownership. The station located at 704 Pinestead Road was discontinued March 2022 due to loss of access to electrical power caused by a minor electrical fire. Hydrogen sulfide monitoring has continued at the Wedgewood Community Center (6405 Wagner Road) through December 2023. Fixed continuous H_2S Monitoring station locations are shown in Figure 2.

Escambia County installed a siren at the Wedgewood Community Center in February 2016 at the request of the community to warn if ever H_2S levels exceed 200 ppb. The threshold for the siren was selected based on guidance provided by the FDOH in Escambia County. Roadside signs were also installed at key entry points entering the area to provide an opportunity for concerned citizens to contact WQLM personnel to ask questions regarding H_2S data and the county monitoring program.

Escambia County monitors hydrogen sulfide levels using Jerome 651 H_2S Monitoring Systems in combination with Jerome 631-X H_2S Analyzers. Product details are available at https://store.brookfieldengineering.com/jerome-651-hydrogen-sulfide-monitoring-system/ and https://store.brookfieldengineering.com/jerome-631-x-gold-film-hydrogen-sulfide-analyzer/, respectively. Jerome 651 units are also capable of logging internal temperature, outside ambient temperature, wind speed, and wind direction. Wind speed and wind direction data was collected for the program at the Wedgewood Community Center (6405 Wagner Road). Equipment was maintained and calibrated per manufacture's recommendations. Calibration was performed by the manufacturer at least annually.

The county program analyzed hydrogen sulfide at all active stations every 30 minutes, 24 hours per day, 365 days per year. This sampling protocol allowed up to 17,520 samples to be analyzed per station, per, year. Escambia County has analyzed over 375,000 individual air samples as of the date of this report. System errors, power outages, equipment failures, theft, tropical cyclones, routine maintenance, and the COVID-19 pandemic all resulted in limited sporadic data gaps. WQLM personnel worked diligently in every case to bring the network back online as soon as possible. Despite challenges, WQLM was able to maintain over 80% functionality for all four continuous H_2S monitoring stations over the entire period of record. Complete system outages were limited to less than 2% of the overall time logged during the same period. H_2S data is still posted in real-time to the county website at https://myescambia.com/our-services/natural-resources-management/air-quality-monitoring. H_2S monitoring results are presented below in Tables 1.1 - 1.10, Figures 3.1 - 3.5, and Figures 4.1 - 4.5. Equipment calibration records are provided in Appendix 3.

7.1.2 Particulate Matter

7.1.2.1 County Permitted Recycling Facilities

Particulate (PM) monitoring is required as a special condition of all county-issued recycling permits. Compliance requires permitted facilities to maintain emission levels of $PM_{2.5}$ at or below an hourly average of 35 µg/m^3 (micrograms per cubic meter of air). County permitted recycling facilities are required to provide written notification via email at least two business days prior to beginning any crushing activities. WQLM conducts particulate monitoring of every county permitted recycling facility upon receiving written notification, but also a least a minimum of once per quarter regardless of site activity. Monitoring was expanded to twice per quarter starting spring 2019 based on direction provided by the Escambia County Board of County Commissioners.

Particulate monitoring was conducted in accordance with Escambia County and applicable Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs). Air was analyzed with a DustTrak DRX Aerosol monitor (Model 8534). DustTrak DRX simultaneously measures size-segregated mass fraction concentrations corresponding to the following size fractions: PM_1, $PM_{2.5}$, PM_{resp} (respirable), PM_{10}, and PM_{total}. Product details are available at https://tsi.com/products/aerosol-and-dust-monitors/dust-monitors/dusttrak-drx-aerosol-monitor-8534/. Field equipment was maintained and calibrated per manufacture's recommendations. Calibration was performed by the manufacturer at least annually. Particulate samples were collected downwind of the recycling facility at the property line. Results were based on the average of 60 individual one-minute samples. WQLM began collecting upwind (background) samples during all sampling events starting in November 2017. Collection of upwind samples was identical to the procedures followed for downwind samples with the exception that results for upwind samples are based on the average of 10 individual one-minute samples. Upwind samples were used to evaluate potential for other offsite sources of $PM_{2.5}$.

Two county permitted recycling facilities are located within the area of interest. Sunbelt Crushing LLC is a concrete recycling facility located at 2390 Longleaf Drive. This facility received a county permit in April 2016 (PSP# 15000136). Eager Beaver Professional Tree Care LLC is a vegetative yard debris recycling facility located at 2170 Longleaf Drive. This facility received a county permit in October 2018 (PSP#160300030). Facility locations are shown in Figure 5. Both facilities process and store their respective materials onsite. Both facilities operate dust control systems on an as needed basis. Monitoring results for respirable dust are presented below in Tables 2.1 - 3.2 and

Figures 6.1 - 6.2. The available datasets for 2390 Longleaf Drive and 2170 Longleaf Drive include 57 and 35 monitoring events, respectively. Results are also posted to the Escambia County website at www.myescambia.com/our-services/natural-resources-management/particulate-monitoring. Field documentation is provided as Appendix 4. Equipment calibration records are provided as Appendix 5.

7.1.2.2 County-Wide Air Monitoring Network

Escambia County installed a county-wide air quality monitoring network in late 2023. The network is comprised of a dozen stations spread across the entire county at representative locations. Station locations include the Wedgwood Community Center (6405 Wagner Road), Brownsville Community Center (3200 W. De Soto Street), Regency Park in Ferry Pass (8245 Fathom Road), Zamora Square in East Hill (1800 Block of E. Bobe Street), Equestrian Center in Beulah (7750 Mobile Highway), Escambia County Road Department in Cantonment (601 Highway 297A), Southwest Sports Complex (2020 Bauer Road), Santa Rosa Island Authority Maintenance on Pensacola Beach (25 Via De Luna Drive), Molino Fire Rescue Station #18 (1459 Molino Road), Perido Key Fire Rescue Station #19 (15500 Perdido Key Drive), Walnut Hill Community Center (7850 Highway 97), and Lake Stone Campground near Century (801 County Road 4). Monitoring locations are shown in Figure 7. The Escambia County air quality monitoring network was developed based on guidance from *The Enhanced Air Sensor Guidebook* published by the U.S. Environmental Protection Agency (September 2022). This guidebook and other U.S. EPA resources for developing local air monitoring programs are available at http://www.epa.gov/air-sensor-toolbox. Local air quality monitoring programs developed using these tools are not intended for regulatory purposes.

Escambia County monitors local air quality using PurpleAir Flex sensors. Product details are available at https://www2.purpleair.com/products/purpleair-flex. Sensors monitor $PM_{1.0}$, $PM_{2.5}$, PM_{10}, particles >= 0.3, 0.5, 1.0, 2.5, 5.0, and 10 (particles / dL), fine particle light scattering, deciviews, visual range, volatile organic hydrocarbons (experimental), humidity, Humidex, absolute humidity, temperature, dew point, and sea level pressure. PurpleAir also uses algorithms developed by the U.S. EPA to calculate Air Quality Index (AQI) for $PM_{2.5}$ and PM_{10}. Active sensors analyze ambient air every five seconds to calculate two-minute averages, 24 hours per day, 365 days per year. Each PurpleAir Flex includes dual user-replaceable laser particle counters. Sensors compare results from each laser particle counter every two minutes to calculate confidence. Confidence calculations are intended to be used as a quality control tool to evaluate data precision. Sensors are expected to generate reliable data for approximately two years after deployment without additional calibration. Confidence calculations will be used to determine when sensors need to be replaced. PurpleAir Flex sensors used in the Escambia County air monitoring network were all collocated alongside a fixed reference instrument for at least one week prior to field deployment. All sensors will continue to be periodically collocated alongside the reference instrument throughout the duration of the program. The fixed reference instrument used for this county program is the Escambia County Air Quality Monitoring Station (AQS # 033-0004) operated and maintained by FDEP Division of Air Resource Management. More information about FDEP's air program and this specific fixed reference instrument is available at https://fldep.dep.state.fl.us/air/flaqs/sitedetail.asp?SiteID=120330004.

Air quality monitoring data collected under this program is available in near real-time at https://myescambia.com/our-services/natural-resources-management/air-quality-monitoring, https://fire.airnow.gov/, or https://map.purpleair.com. AQIs based on $PM_{2.5}$ and PM_{10} monitoring

results are presented below in Tables 4.1 – 5.3 and Figures 8.1 – 8.2. Equipment collocation data is presented in Figures 9.1 – 11.2 with other records are provided as Appendix 5.

7.2 Surface Water Quality

WQLM monitors ambient surface water quality in streams, bayous, and bays throughout the county. Data is used to determine stormwater MS4 permit compliance, restoration goals, and general status and trends. The existing county program was expanded in March 2019 to include seven additional stations within the Wedgewood area and points downstream. Monitoring station locations are identified in Figure 12. The expanded program was designed to collect data necessary to evaluate if solid waste facilities within the area of interest are causing measurable impacts to downstream resources. Stations were initially monitored monthly for over 80 laboratory and field parameters including heavy metals, nutrients, volatile organic compounds, and residuals. This initial parameter list was based typical state permit requirements for solid waste facilities. Monthly fecal indicator bacteria (*E. coli*) monitoring began at all stations starting May 2020. Sampling for the full list of surface water parameters (i.e. heavy metals, volatile organic compounds, etc.) was scaled back from monthly to semiannual (spring and fall) starting October 2022. The semiannual sampling schedule now matches state requirements for other solid waste facilities. All seven stations were also added to the county long-term ambient water quality program starting October 2022. In addition to the previously mentioned monthly fecal indicator bacteria sampling, long-term ambient stations are also monitored monthly for field parameters (temperature, pH, dissolved oxygen, dissolved oxygen saturation, specific conductance, salinity, and turbidity), and bimonthly for nutrients (Total Kjeldahl Nitrogen, nitrate-nitrite, total nitrogen, total phosphorus), residuals (total suspended solids), and chlorophyll-a. The complete list of surface water parameters is provided in Table 6.

Surface water quality monitoring is conducted in accordance with Escambia County and applicable FDEP SOPs. FDEP SOPs are available at https://floridadep.gov/dear/quality-assurance/content/dep-sops. Samples are analyzed by the Escambia County Water Quality Laboratory (NELAC #E911116) and other NELAC certified laboratories. All laboratories are certified for the specific suite of parameters analyzed. Field parameters (temperature, pH, specific conductance, salinity, dissolved oxygen, dissolved oxygen saturation) are measured using an In-Situ Aqua TROLL Multiparameter Sonde (Models 400, 500, 600). Turbidity is measured with a Geotech Portable Turbidity Meter. Product details are available at https://in-situ.com/us/ and https://www.geotechenv.com/geotech_portable_turbidity_meter.html, respectively. Field equipment is maintained and calibrated per manufacture's recommendations. Calibration and verification are performed in accordance with FDEP SOPs. FDEP surface water quality standards are listed in Chapter 62-302 Florida Administrative Code. Surface water quality monitoring laboratory and field results are presented below. Tables 7.1 - 4.51 contain summaries of laboratory detections by date and station. Distribution of results for laboratory parameters with results detected above the corresponding practical quantitation limit (PQL) are presented in Figures 13.1 – 13.26. Trends for laboratory parameters with results detected above the corresponding PQL are presented in Figures 14.1 – 14.26. Tables 8.1 - 5.58 contain summaries of field results by date and station. Distribution of field results are presented in Figures 15.1 - 15.7. Trends for field parameters are presented in Figures 16.1 - 16.7. Table 7.52 contains a summary of laboratory detections by date and station for fecal indicator bacteria. Distribution and trends for fecal indicator bacteria are presented in Figures 13.27 and 14.27, respectively. Relevant rainfall data is presented in Tables 9.1 – 9.2 and 10. Field documentation is provided as Appendix 6. Equipment calibration records are provided as Appendix 7.

Surface water quality is evaluated in Florida using polygons representing watershed or management areas known as Waterbody IDs (WBIDs). Most of the Marcus Creek watershed, including the western branch, is located within the area identified as WBID 697C. The eastern branch of Marcus Creek is located in WBID 725. The former Rolling Hills C&DD Facility is located near the eastern branch headwaters. WBIDs 697C and 725 are both on the 2022 Statewide Comprehensive Study List based on low dissolved oxygen saturation. The causative pollutant(s)

responsible for the low dissolved oxygen saturation observed has not yet been identified. Additional surface water quality data may be available for other sites within the area of interest. Other credible data sources for surface water data include Florida Storet (STOrage and RETrieval) and the Watershed Information Network (WIN). Both sources are available at https://floridadep.gov/dear/watershed-services-program/content/winstoret. Fish Consumption Advisories are also published periodically by the State of Florida to alert consumers of the possibility of chemically contaminated fish in Florida waters. The June 2021 statewide guide to eating fish caught in Florida includes guidelines for Crescent Lake. Fish consumption advisories are available at www.floridahealth.gov/programs-and-services/prevention/healthy-weight/nutrition/seafood-consumption/fish-advisories-page.html.

7.3 Groundwater

WQLM monitors groundwater at closed and active county-owned solid waste facilities. Data is used to determine state permit compliance. The existing county program was expanded in January 2020 to include two additional monitoring wells on county property north of the Rolling Hills C&DD Facility. The expanded program was designed to collect data necessary to evaluate area groundwater flow and site conditions. Well locations were selected based on guidance provided by a professional geologist licensed in the State of Florida. Well locations are identified in Figure 17. The well installation report is included as Appendix 8. Additional well development was conducted by WQLM to address initial elevated turbidity levels. Wells were initially monitored monthly for over 50 laboratory and field parameters including heavy metals, nutrients, volatile organic compounds, and residuals. This initial parameter list was based typical state permit requirements for solid waste facilities. Sampling for the full list of groundwater parameters was scaled back from monthly to semiannual (spring and fall) starting October 2022. The semiannual sampling schedule now matches state requirements for solid waste facilities. The complete list of groundwater parameters is provided in Table 11.

Groundwater monitoring is conducted in accordance with Escambia County and applicable FDEP SOPs. FDEP SOPs are available at https://floridadep.gov/dear/quality-assurance/content/dep-sops. Low flow samples are collected using a Geotech Geosub Pump and Controller. Product details are available at https://www.geotechenv.com/geotech_geosub_2.html. Samples are analyzed by laboratories NELAC certified for the specific suite of parameters analyzed. Field parameters (temperature, pH, specific conductance, dissolved oxygen, and oxidation-reduction potential) are measured using an In-Situ Aqua TROLL Multiparameter Sonde with flow cell (Models 500, 600). Turbidity is measured with a Geotech Portable Turbidity Meter. Product details are available at https://in-situ.com/us/ and https://www.geotechenv.com/geotech_portable_turbidity_meter.html, respectively. Field equipment is maintained and calibrated per manufacture's recommendations. Calibration is performed in accordance with FDEP SOPs. FDEP Groundwater Cleanup Target Levels are listed in Chapter 62-777 Florida Administrative Code. Tables 13.1 – 13.11 contain summaries of laboratory detections by date and station. Distribution of results for laboratory parameters with results detected above the corresponding practical quantitation limit (PQL) are presented in Figures 19.1 – 19.16. Trends for laboratory parameters with results detected above the corresponding PQL are presented in Figures 20.1 -20.16. Tables 14.1 - 14.22 contain summaries of field results by date and station. Distribution of field results are presented in Figures 21.1 - 21.6. Trends for field parameters are presented in Figures 12.1 - 22.6. Groundwater monitoring did not occur in September 2020 or October 2020 due to Hurricane Sally. Field documentation is provided as Appendix 9. Equipment calibration records are provided as Appendix 10.

8.0 Monitoring Results

8.1 Outdoor Air Quality Results

8.1.1 Hydrogen Sulfide Monitoring Results

This summary report includes data from almost ten years of hydrogen sulfide (H_2S) monitoring (July 2014 – December 2023). The maximum value observed during the reporting period was 590 ppb (October 2014, Wedgewood Community Center). The minimum value observed during the same period was 0 ppb (all stations, all months/years sampled). Equipment was programed to collect ambient air samples every 30 minutes, 24 hours per day, seven days per week. A total of 376,584 hydrogen sulfide samples were analyzed through December 2023. Stations were installed at locations approximating the four cardinal directions relative to the former Rolling Hills C&DD Facility. References to data collected north, south, east, and west of former facility equate to monitoring stations located at the Wedgewood Community Center, 6700 Blk of Rolling Hills Road, 700 Blk of Pinestead Road, and 6900 BLK of Rolling Hills Road, respectively. The location of monitoring stations is shown in Figure 2. Results are discussed relative to minimum risk levels (MRL) as set by the Agency for Toxic Substances and Disease Registry (ATSDR). More information regarding MRLs is available at https://www.atsdr.cdc.gov/minimalrisklevels/index.html.

The first of four continuous, fixed station hydrogen sulfide monitoring stations was installed at the Wedgewood Community Center in July 2014. Of the 119 days sampled north of the Rolling Hills C&DD Facility, a total of 50 days (42%) included one or more samples exceeding the ASTDR MRL for intermediate exposure (20 ppb), 23 days (19%) included one or more samples exceeding the MRL for acute exposure (70 ppb), and 6 days (5%) included one or more samples exceeding the health advisory level (200 ppb) set by the Florida Department of Health in Escambia County. A total of 5,612 hydrogen sulfide samples were analyzed for the county monitoring program in 2014. The maximum and mean values observed were 590 ppb (October 2014) and 4.9 ppb, respectively. Results for 2014 likely underrepresent actual conditions due to limitations in monitoring coverage. Results for 2014 are summarized in Table 1.1.

Three additional monitoring hydrogen sulfide monitoring stations were added to the network by fall of 2015. Of the 364 days sampled north of the facility, a total of 103 days (28%) included one or more samples exceeding the ASTDR MRL for intermediate exposure, 20 days (5%) included one or more samples exceeding the MRL for acute exposure, and 3 days (1%) included one or more samples exceeding the FDOH health advisory level. Of the 142 days sampled west of the facility, a total of 55 days (39%) included one or more samples exceeding the MRL for intermediate exposure, 7 days (5%) included one or more samples exceeding the MRL for acute exposure, and 2 days (1%) included one or more samples exceeding the FDOH health advisory level. Of the 119 days sampled east of the facility, a total of 4 days (3%) included one or more samples exceeding the MRL for intermediate exposure, 1 day (1%) included one or more samples exceeding the MRL for acute exposure, and no days included samples exceeding the FDOH health advisory level. Of the 77 days sampled south of the facility, a total of 37 days (48%) included one or more samples exceeding the MRL for intermediate exposure, 11 days (14%) included one or more samples exceeding the MRL for acute exposure, and 1 day (1%) included one or more samples exceeding the FDOH health advisory level. A total of 32,782 hydrogen sulfide samples were analyzed for the county monitoring program in 2015. The maximum value observed was 290 ppb (November 2015, 6900 Blk of Rolling Hills Road). The mean concentration varied by station from 0.3 ppb (700 Blk of Pinestead Road) up to 5.1 ppb (6700 Blk of Rolling Hills Road). Results for 2015 are summarized in Table 1.2.

All four monitoring stations were active in 2016. The 700 Blk of Pinestead Road station was offline from the October 2016 through February 2017 due to equipment theft and lack of access to electrical power. No other major equipment outages were noted. Of the 365 days sampled north of the facility, a total of

25 days (7%) included one or more samples exceeding the ASTDR MRL for intermediate exposure, 2 days (1%) included one or more samples exceeding the MRL for acute exposure, and no days included samples exceeding the FDOH health advisory level. Of the 339 days sampled west of the facility, a total of 43 days (13%) included one or more samples exceeding the MRL for intermediate exposure, 3 days (1%) included one or more samples exceeding the MRL for acute exposure, and no days included samples exceeding the FDOH health advisory level. Of the 248 days sampled east of facility, a total of 2 days (1%) included one or more samples exceeding the MRL for intermediate exposure and no days included samples exceeding the MRL for acute exposure or the FDOH health advisory level. Of the 343 days sampled south of the facility, a total of 57 days (17%) included one or more samples exceeding the MRL for intermediate exposure, 11 days (3%) included one or more samples exceeding the MRL for acute exposure, and 1 day (<1%) included one or more samples exceeding the FDOH health advisory level. A total of 60,846 hydrogen sulfide samples were analyzed for the county monitoring program in 2016. The maximum value observed was 240 ppb (March 2016, 6700 Blk of Rolling Hills Road). The mean concentration varied by station from 0.5 ppb (700 Blk of Pinestead Road) up to 1.2 ppb (6700 Blk of Rolling Hills Road). Results for 2016 are summarized in Table 1.3.

All four monitoring stations were active in 2017. The 700 Blk of Pinestead Road station was offline from the October 2016 through February 2017 due to the previous equipment theft and continued lack of access to electrical power. The 700 Blk of Pinestead Road station was also offline from November 2017 through February 2018 until a new secure location could be identified. No other major equipment outages were noted. Of the 364 days sampled north of the facility, a total of 10 days (2%) included one or more samples exceeding the ASTDR MRL for intermediate exposure, 3 days (1%) included one or more samples exceeding the MRL for acute exposure, and no days included samples exceeding the FDOH health advisory level. Of the 360 days sampled west of the facility, a total of 2 days (1%) included one or more samples exceeding the MRL for intermediate exposure, and no days included samples exceeding the MRL for acute exposure or the FDOH health advisory level. Of the 224 days sampled east of the facility, no days included samples exceeding MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 338 days sampled south of the facility, a total of 5 days (1%) included one or more samples exceeding the MRL for intermediate exposure, 1 day (<1%) included one or more samples exceeding the MRL for acute exposure, and no days included samples exceeding the FDOH health advisory level. A total of 60,059 hydrogen sulfide samples were analyzed for the county monitoring program in 2017. The maximum value observed was 140 ppb (January 2017, Wedgewood Community Center). The mean concentration varied by station from 0.2 ppb (700 Blk of Pinestead Road and 6900 Blk of Rolling Hills Road) up to 1.2 ppb (Wedgewood Community Center). Results for 2017 are summarized in Table 1.4.

All four monitoring stations were active in 2018. Three units were offline for extended periods of time due to equipment theft, station relocation, equipment failure/replacement, and routine maintenance. Only the 6700 Blk Rolling Hills Road station experienced no major equipment outages. Of the 279 days sampled north of the facility, a total of 1 day (<1%) included one or more samples exceeding the ASTDR MRL for intermediate exposure, and no days included samples exceeding the MRL for acute exposure or the FDOH health advisory level. Of the 291 days sampled west of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 175 days sampled east of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 361 days sampled south of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. A total of 51,683 hydrogen sulfide samples were analyzed for the county monitoring program in 2018. The maximum value observed was 29 ppb (January 2017, Wedgewood Community Center). The mean concentration varied by station from 0.3 ppb (Wedgewood

Community Center and 700 Blk of Pinestead Road) up to 0.5 ppb (6700 Blk of Rolling Hills Road). Results for 2018 are summarized in Table 1.5.

All four monitoring stations were active in 2019. Three units were offline for extended periods of time due equipment failure and/or routine maintenance. Only the 700 Blk of Pinestead Road station experienced no major equipment outages. Of the 246 days sampled north of the facility, no days included samples exceeding the ASTDR MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 159 days sampled west of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure or exceeding, or the FDOH health advisory level. Of the 347 days sampled east of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 223 days sampled south of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. A total of 44,237 hydrogen sulfide samples were analyzed for the county monitoring program in 2019. The maximum value observed was 14 ppb (April 2018, Wedgewood Community Center). The mean concentration varied by station from 0.1 ppb (6700 Blk of Rolling Hills Road) up to 1.6 ppb (6900 Blk of Rolling Hills Road). Results for 2019 are summarized in Table 1.6.

All four monitoring stations were active in 2020. Three units were offline for extended periods of time due equipment failure and/or routine maintenance. The 6900 Blk of Rolling Hills Road station was permanently taken offline in September 2020 due to impacts from Hurricane Sally. Only the 700 Blk of Pinestead Road station experienced no major equipment outages. Of the 211 days sampled north of the facility, no days included samples exceeding the ASTDR MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 302 days sampled west of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 364 days sampled east of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 288 days sampled south of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. A total of 54,625 hydrogen sulfide samples were analyzed for the county monitoring program in 2020. The maximum values observed were 11 ppb (February 2020 and 6900 Blk of Rolling Hills Road). The mean concentration varied by station from 0.3 ppb (700 Blk of Pinestead Road) up to 1.6 ppb (6700 Blk of Rolling Hills Road). Results for 2020 are summarized in Table 1.7.

Three monitoring stations were active in 2021. The 6700 Blk of Rolling Hills Road station was permanently taken offline starting in May 2021 due to a change in property ownership. Of the 345 days sampled north of the facility, no days included samples exceeding the ASTDR MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 326 days sampled east of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 101 days sampled south of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. A total of 36,216 hydrogen sulfide samples were analyzed for the county monitoring program in 2021. The maximum value observed was 8 ppb (March 2021, Wedgewood Community Center). The mean concentration varied by station from 0.1 ppb (700 Blk of Pinestead Road) up to 0.6 ppb (Wedgewood Community Center). Results for 2021 are summarized in Table 1.8.

Two monitoring stations were active in 2022. The 700 Blk of Pinestead Road station was taken offline due to lack of access to electrical power. Of the 236 days sampled north of the facility, no days included

samples exceeding the ASTDR MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. Of the 76 days sampled east of the facility, no days included samples exceeding the MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. A total of 14,682 hydrogen sulfide samples were analyzed for the county monitoring program in 2022. The maximum value observed was 5 ppb (March 2022, Wedgewood Community Center). The mean concentration varied by station from 0.0 ppb (700 Blk of Pinestead Road) up to 0.2 ppb (Wedgewood Community Center). Results for 2022 are summarized in Table 1.9.

One monitoring station was active in 2023. Of the 305 days sampled north facility, no days included samples exceeding the ASTDR MRL for intermediate exposure, the MRL for acute exposure, or the FDOH health advisory level. A total of 13,995 hydrogen sulfide samples were analyzed for the county monitoring program in 2023. The maximum value observed was 8 ppb (April 2023, Wedgewood Community Center. The mean concentration at the Wedgewood Community Center was calculated at 0.2 ppb. Results for 2023 are summarized in Table 1.10.

Hydrogen sulfide gas measured in ambient air within the greater Wedgewood area began to show significant reductions in both in the number of exceedances and frequency of exceedances of ASTDR MRL thresholds as of early 2017. The timing of the observed decline in the prevalence in elevated levels of hydrogen sulfide gas aligns with the FDEP's efforts to properly close the former Rolling Hills C&DD Facility. The last recorded concentrations of hydrogen sulfide gas exceeding the MRL for acute exposure (70 ppb) were recorded by the county program in May 2017 (6700 Blk Rolling Hills Road, 77 ppb and Wedgewood Community Center, 101 ppb). Elevated levels of hydrogen sulfide became even less common by early 2018, with the last recorded concentration exceeding the MRL for intermediate exposure (20 ppb) recorded in December 2018 (Wedgewood Community Center, 29 ppb). No readings above the Occupational Safety and Health Administration (OSHA) odor threshold of 10 ppb have been documented in the area since May 2020. Anecdotally, reports from the area seem to indicate the rotten egg odor is either far less prevalent or possibly not currently present within the neighborhoods surrounding the former Rolling Hills C&DD Facility. A thorough evaluation of available data by the Florida Department of Health or other qualified community health professionals would be necessary to determine if conditions no longer support an ongoing public health hazard as originally identified in the June 2015 FDOH Health Consultation.

8.1.2 Particulate Monitoring Results

8.1.2.1 Monitoring Results for County Permitted Recycling Facilities Results

Report includes results from particulate monitoring conducted of county permitted recycling facilities located within study area. Monitoring began at the 2390 Longleaf Drive site in May 2016. Monitoring at the 2170 Longleaf Drive site began over two years later in December 2018. The location of monitoring stations is shown in Figure 5. Results include concentrations of particulates measured in micrograms per cubic meter of air sampled ($\mu g/m^3$). Data presented in Tables 2.1 – 2.3 and Tables 3.1 – 3.2 includes particulate concentrations for multiple fractions (PM_1, $PM_{2.5}$, PM_{Resp}, PM_{10}, and PM_{Total}). Each fraction is representative of a range of particle sizes having a maximum diameter of the corresponding listed value (i.e. PM_1 represents concentration of particulates having a diameter less than 1.0 µm, $PM_{2.5}$ represents concentration of particulates having a diameter less than 2.5 µm, etc.). $PM_{2.5}$ is the only size fraction with a corresponding county standard (35 $\mu g/m^3$). The available particulate data was collected to evaluate the potential offsite impacts related to specific recycling facilities. Data collected under this specific program is not necessarily representative of typical conditions of the greater Wedgewood

community. Unless otherwise noted, evaluation for statistical significance was made using a paired T test.

WQLM conducted a total of 57 separate monitoring events of the 2170 Longleaf Drive through December 2023. Downwind conditions never exceeded the county maximum allowable $PM_{2.5}$ concentration. The maximum upwind concentration detected was 36 µg/m^3 (November 2019). The maximum downwind concentration detected was 35 µg/m^3 (September 2023). The mean and median upwind concentrations (sampling events with both upwind and downwind samples) were 14.7 µg/m^3 and 14.0 µg/m^3, respectively. The mean and median downwind concentrations (sampling events with both upwind and downwind samples) were 13.6 µg/m^3 and 12.0 µg/m^3, respectively. Any differences between upwind and downwind samples are not statistically significant (p=0.360).

WQLM conducted a total of 35 separate monitoring events of the 2390 Longleaf Drive site through December 2023. Downwind conditions never exceeded the county maximum allowable $PM_{2.5}$ concentration. The maximum upwind concentration detected was 31 µg/m^3 (September 2023). The maximum downwind concentration detected was also 31 µg/m^3 (September 2020). The mean and median upwind concentration (sampling events with both upwind and downwind samples) was 12.4 µg/m^3 and 11.0 µg/m^3, respectively. The mean downwind concentrations (sampling events with both upwind and downwind samples) were 12.7 µg/m^3 and 10.0 µg/m^3, respectively. Any differences between upwind and downwind samples are not statistically significant (p=0.630).

8.1.2.2 Monitoring Results for County-Wide Air Monitoring Network

Report includes results from three months of air quality results collected from 12 separate monitoring stations strategically located across the county. One of the stations was installed in south-central Escambia County at the Wedgewood Community Center. The location of all monitoring stations is shown in Figure 7. Prior to deployment, all sensors were collocated in two batches alongside a local fixed reference instrument operated and maintained by FDEP Division of Air Resource Management. Pre-deployment collocation occurred from July 27, 2023 – August 4, 2023 (sensors later located at Wedgewood Community Center, Escambia County Equestrian Center, Southwest Sports Complex, Molino Fire Rescue, Perdido Key Fire Rescue, Walnut Hill Community Center, and Lake Stone Campground) and September 1, 2023 – September 19, 2023 (sensors later located at Brownsville Community Center, Regency Park, Zamora Square, Escambia County Road Department, and Santa Rosa Island Authority Maintenance). Monitoring at all stations began in October 2023. A combined total of approximately 788,400 individual two-minute results were generated for each parameter ($PM_{2.5}$, PM_{10}, etc.) through December 2023. Results are discussed relative to Air Quality Index. AQI is the U.S. Environmental Protection Agency standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. For this report, data is presented based on AQI for particulates. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. More information regarding AQI is available at https://www.airnow.gov/aqi/aqi-basics/. All data presented is compared as daily averages. $PM_{2.5}$ data was corrected using the piecewise correction equation developed for EPA specific to PurpleAir sensors (Barkjohn et al. 2021).

During the 92-day period of record, daily average $PM_{2.5}$-based AQIs across all stations ranged from 2 to 103. Over 90% (988/1095) of $PM_{2.5}$-based AQIs were classified as “good” (0-50). Air

quality in this range is considered satisfactory, and pollution poses little or no risk. Nearly all (106-107) of remaining days with $PM_{2.5}$-based AQIs greater than 50 were classified as "moderate" (51-100). Air quality in this range is considered acceptable. However, there may be risk for some people, particularly those who are unusually sensitive to air pollution. The station located at Regency Park experienced one day where the daily average $PM_{2.5}$-based AQI exceeded 100. This is the only AQI recorded during the period of record where air quality was categorized as "unhealthy for sensitive groups" (101-150). Air quality in this range may affect members of sensitive groups. The general public is still considered less likely to be affected. No daily average $PM_{2.5}$-based AQIs recorded at any county stations during the period of record were classified as "unhealthy" (151-200), "very unhealthy" (200-300) or "hazardous" (>300).

PM2.5-based AQI for Wedgewood Community Center show positive correlations with data from all other stations. Linear regression pairing the PM2.5-based AQI for Wedgewood Community Center data with all other stations results in an overall R^2 value of 0.690. Individual stations showing stronger positive correlations include Zamora Square, Escambia County Equestrian Center, Regency Park, Molino Fire Rescue, County Road Department, Brownsville Community Center with R^2 values of 0.873, 0.869, 0.850, 0.837, 0.832, and 0.814, respectively. Individual stations showing moderate positive correlations include Walnut Hills Community Center and Santa Rosa Island Authority Maintenance with R^2 values of 0.710 and 0.700, respectively. Finally, individual stations showing weaker positive correlations include Lake Stone Campground, Perdido Key Fire Rescue, and Southwest Escambia Sports Complex with R^2 values of 0.597, 0.554, and 0.498, respectively. As expected, stations located further away from the Wedgewood Community Center or stations situated on the coast showed lower correlations. Data collected for the program shows $PM_{2.5}$-based AQIs exceeding 50 were much more likely to occur together on days with other stations rather than as singular elevated readings. The strong correlations observed between nearby stations, and elevated readings more often occurring together both suggest regional or county-wide factors possibly play one of the most important roles in determining local air quality. More data would be required to make a more definitive determination on relationships among stations.

Evaluation of collocation data appears to show individual sensors each begin with a consistent bias. This bias can be seen in Figures 9.1 and 9.2 with county sensors showing good precision albeit skewed accuracy in comparison to the FDEP fixed reference sensor. Median percent errors ranged by sensor from -1.2% (Walnut Hill Community Center) up to +16.6% (Brownsville Community Center) with the mode being near +8%. Reported data may slightly overestimate $PM_{2.5}$-based AQIs based on the mostly positive sensor bias observed during colocation. The potential exists to apply an additional unique calibration factor for each sensor to address the observed sensor bias. The benefit of applying this additional step can be seen in Figures 10.1 and 10.2 with examples of the specific calibrations applied shown for representatives from each batch of sensors in Figures 11.1 and 11.2. Median percent errors after applying correction factors ranged by sensor from -0.3% (Southwest Sports Complex) up to +1.0% (Brownsville Community Center) with the mode being near +0.5%. The limited range of conditions observed during the collocation periods (< 30 $\mu g/m^3$) prevented the application of additional unique correction factors for this report, but the method should be considered as part of the ongoing program if higher levels of accuracy are warranted.

PM_{10}-based AQIs are presented in Figures Tables 5.1-5.3 and Figure 8.2. Research has also shown this data to be less accurate (Ouimette et al. 2024). For this reason, PM_{10} data has been included in this report for informational purposes only.

8.2 Surface Water Quality Monitoring Results

Report includes surface water quality results collected from seven different monitoring stations located throughout the upper Marcus Creek watershed. Monthly monitoring began in March 2019. The upper watershed is comprised of two main branches (east and west). Both branches drain into Crescent Lake before discharging downstream to the lower creek system through a control structure located in the dam. Monitoring stations were selected at access points along both branches. Stations were located both upstream and downstream of known areas of interest. Marcus Creek west branch stations include the West Branch Headwaters (ECSW-5), Longleaf Drive (ECSW-4), Marcus Pointe Boulevard West (ECSW-3), and Crescent Lake West Branch (ECSW-2). Marcus Creek east branch stations include Downstream of Rolling Hills (ECSW-7) and Marcus Pointe Boulevard East (ECSW-6). Both branches eventually discharge to the station located at Crescent Lake Dam (ECSW-1). The location of monitoring stations is shown in Figure 12. Stations were monitored monthly for over 80 individual parameters. Laboratory and field parameters were selected based on general Florida guidelines for determining potential effects of solid waste facilities. Laboratory parameters included heavy metals, nutrients, volatile organic compounds, and residuals. Field parameters included temperature, pH, specific conductance, dissolved oxygen, dissolved oxygen saturation, oxidation-reduction potential, and turbidity. A complete list of both laboratory and field parameters is presented in Table 6. More information about the parameters discussed below, including referenced natural and anthropogenic sources, is available at https://www.atsdr.cdc.gov/ or https://www.epa.gov/. Environmental data rarely follows normal distributions. Therefore, geometric means are used in this report to compare differences in surface water data distribution. Geometric means were calculated using applicable MDLs for "U" qualified data. Analyte concentrations are also evaluated against class III (predominately freshwater) surface water criteria listed in 62-302 of the Florida Administrative Code (FAC). Where no 62-302 standards apply, analyte concentrations are evaluated against surface water Cleanup Target Levels (CTLs) listed in 62-777 FAC. Unless otherwise noted, evaluation for statistical significance was made using the Mann-Whitney U test.

Volatile Organic Compounds

Samples were analyzed for 46 specific volatile organic compounds (VOCs) using EPA Method 8260B and two additional organic compounds using EPA Method 8011. A combined total of 15,024 individual results were generated through December 2023. Only 66 results (0.44%) included detections for volatile compounds. Almost 90% of all detections (57 of 66) were estimated values less than the corresponding practical quantitation limit (PQL). Many of the low-level detections were of compounds often associated with potential laboratory contamination (i.e. acetone, methylene chloride). VOCs above the corresponding PQL were all detected during only four sampling events (4/51).

Bromomethane (CH_3Br) can be found naturally occurring in low concentrations in the world's oceans. Anthropogenic sources historically include pesticides, automobile exhaust, and, more recently, combustion of biomass and biofuels. Bromomethane readily volatilizes from water into the air at a rate dependent on factors such as temperature. Bromomethane was detected November 2020 at ECSW-4 at a concentration of 12.2 µg/L. This result is the only bromomethane detection in the entire dataset (1/306). The result may be an anomaly. No class III surface water criteria exist for bromomethane. However, the surface water CTL for bromomethane is listed as 35 µg/L. This bromomethane detection was below the corresponding CTL. Graphics depicting bromomethane results are presented by station in Figures 13.2 and 14.2.

Chloromethane (CH_3Cl) is naturally occurring and ubiquitous in low concentrations in the world's oceans and atmosphere. Anthropogenic sources include municipal and industrials solid waste leachate, effluent from treatment works, combustion of biomass, and can also be associated with vinyl chloride production and wastes. Chloromethane readily volatilizes from water into the air at a rate dependent on factors such as temperature. Chloromethane was detected February 2022 at ECSW-4, ECSW-3, and ECSW-1 at concentrations of 1.1, 1.3, and 1.0 µg/L. Lower-level concentrations of chloromethane (below the PQL) were also infrequently detected on other days at multiple stations sampled under this program. The class III surface water criteria for chloromethane is 470.8 µg/L calculated as an annual average. All concentrations of chloromethane detected were below the corresponding Florida surface water quality criteria. Graphics depicting Chloromethane results are presented by station in Figures 13.3 and 14.3.

Four separate VOCs were detected February 2023 in a single sample collected at ECSW-2. Benzene (C_6H_6), ethylbenzene (C_8H_{10}), toluene ($C_6H_5CH_3$), and total xylenes ($(CH)_3C_6H_4$) were detected at 170, 11, 49, and 42 µg/L, respectively. Lower-level concentrations of benzene and toluene (below the PQL) were also infrequently detected on other days at multiple stations sampled under this program. These results are the only ethylbenzene and total xylene detections in the entire dataset (1/306). The class III surface water criteria for benzene is 71.28 µg/L calculated as an annual average. While the benzene concentration detected February 2023 at ECSW-2 exceed the published surface water criteria, a single sample does not constitute an annual average. No class III surface water criteria exist for toluene. However, the surface water CTL for toluene is listed as 480 µg/L. This toluene detection was below the corresponding CTL. No class III surface water criteria exist for ethylbenzene or total xylenes. Interestingly, the ratio among ethylbenzene, toluene, and total xylene concentrations detected matches published values for ethanol-free gasoline (47.8 : 9.6 : 42.6 according to publish values as compared to 48.0 : 10.8 : 41.2 in county sample) (Chin and Batterman 2012). No VOCs have been detected in any subsequent county samples collected for this program. Graphics depicting results for benzene, ethylbenzene, toluene, and total xylenes are presented by station in Figures 13.1 and 14.1, 13.4 and 14.4, 13.5 and 14.5, and 13.6 and 14.6, respectively.

Metals

Samples were analyzed for 20 different metals using EPA Method 200.7. Additionally, samples were analyzed for mercury using EPA Method 1631E. A combined total of 6,410 individual results were generated through December 2023. Copper was the only metal not detected in any of the samples collected. Detections for 11 additional metals were all less than the corresponding PQL (i.e. antimony, arsenic, cadmium, chromium, cobalt, lead, selenium, silver, thallium, vanadium, and zinc). Calcium and magnesium results were only used to calculate total hardness. Only seven of the remaining metals (7/19) were detected in any of the samples collected above the corresponding PQL (i.e. aluminum, barium, beryllium, boron, iron, mercury, and nickel).

Aluminum (Al) is the most abundant metal in the earth's crust. It naturally enters the environment through weathering of rocks and minerals. Aluminum is found in various important industrial, domestic, consumer, and medicinal products. The dissolved concentration of aluminum in surface and groundwater is known to be pH dependent with higher natural dissolved concentrations of aluminum often associated with lower pH conditions. No class III surface water criteria exist for aluminum. However, the surface water CTL for aluminum is listed as 13 µg/L. Less than 20% of samples analyzed for aluminum were above the PQL (53 of 306). The geometric mean concentration varied by station from 0.057 mg/L (ECSW-6) up to 0.135 mg/L (ECSW-4). The maximum concentration observed was 2.7 mg/L (June 2021, ECSW-7). Aluminum detections generally show positive correlations with both total suspended solids and turbidity. Linear regression pairing aluminum with TSS results in an overall R^2 value across all stations of 0.460. Individual stations showing stronger positive correlations include ECSW-7, ECSW-3, ECSW-2, and ECSW-1 with R^2 values of 0.823, 0.606, 0.558, 0.539, respectively. Individual stations showing weaker positive correlations include ECSW-4, ECSW-5, and ECSW-6 with R^2 values of 0.258, 0.223, and 0.064, respectively. Poor correlation at ECSW-6 is driven by the relative lack of both aluminum and TSS

detections at Marcus Pointe Boulevard East. Linear regression pairing aluminum with turbidity results in an overall R^2 value across all stations of 0.635. Individual stations showing stronger positive correlations include ECSW-2, ECSW-1, ECSW-4, ECSW-7, and ECSW-3 with R^2 values of 0.923, 0.919, 0.855, 0.789, and 0.667, respectively. Individual stations showing weaker positive correlations include ECSW-5 and ECSW-6 with R^2 values of 0.371 and 0.039, respectively. Poor correlation at ECSW-6 is again driven by the relative lack of aluminum detections at Marcus Pointe Boulevard East. Positive correlations with both TSS and turbidity suggest suspended silt/clay particles carried by runoff is the most likely source of aluminum in the upper Marcus Creek watershed. Conversely, linear regression pairing aluminum with total dissolved solids and specific conductance result in an overall R^2 values across all stations of 0.000 and 0.044, respectively. The lack of correlation between aluminum concentration and TDS or specific conductance appears to confirm the major contribution of aluminum is from runoff rather than other sources such as groundwater. Samples collected June 2021 followed the highest 72-hour antecedent rainfall total recorded during the study period (4.39 inches) and, not surprisingly, these same samples also boasted the highest geometric mean concentration among aluminum samples analyzed for this study (0.809 mg/L). The increase in geometric mean concentration observed from ECSW-5 (0.078 mg/L) downstream to ECSW-4 (ECSW-4) is statistically significant ($p<0.001$) suggesting measurable specific source(s) of aluminum may exist between these stations. Graphics depicting aluminum results are presented by station in Figures 13.7 and 14.7.

Barium (Ba) is widely distributed in small quantities as a component of various compounds within the earth's crust. It naturally enters the environment through weathering of rocks and minerals. Anthropogenic sources are primarily associated with industrial processes including the manufacture and use of drilling muds. No class III surface water criteria exist for barium nor do applicable CTLs exist. Approximately 60% of samples analyzed for barium were above the corresponding PQL (181/306). The geometric mean concentration varied by station from 0.015 mg/L (ECSW-4) up to 0.027 mg/L (ECSW-7). The maximum concentration observed was 0.044 mg/L (August 2023, ECSW-7). Concentrations upstream of Marcus Pointe Boulevard tended to be higher at stations located in the eastern branch. No apparent correlations exist between barium concentrations observed and TSS or turbidity. Linear regression pairing barium with TSS and turbidity result in an overall R^2 values across all stations of 0.003 and 0.005, respectively. Correlations between barium concentrations observed and TDS and specific conductance are also moderately weak. Linear regression pairing barium with TDS and specific conductance result in an overall R^2 values across all stations of 0.275 and 0.346, respectively. Graphics depicting barium results are presented by station in Figures 13.8 and 14.8.

Beryllium (Be) is an element naturally occurring within the earth's crust. It naturally enters the environment through weathering of rocks. Beryllium has many important uses in a variety of sectors including industry, consumer electronics, national defense, telecommunications, energy, and medicine. Anthropogenic sources include wastewater effluents and atmospheric deposition resulting from combustion of coal or fuel oil. The class III surface water criteria for beryllium is 0.00013 µg/L calculated as an annual average. The sample specific detection limit is not currently capable of supporting the associated regulatory requirement. A total of four samples analyzed contained concentrations of beryllium above the corresponding PQL (4/306). The geometric mean concentrations for all seven stations were 0.001 mg/L. The maximum concentration observed was 0.003 mg/L (August 2023, ECSW-1). No beryllium detections were associated with east branch stations. All detections occurred after February 2022. Three of four detections occurred in samples collected August 2023. Graphics depicting beryllium results are presented by station in Figures 13.9 and 14.9.

Boron (B) is a component of various compounds found in nature. It is an essential micronutrient for most plants and animals. Boron enters the environmental in low concentrations by weathering of rocks and minerals. Anthropogenic sources include detergents in municipal sewage releases, coal-burning power plants and other industry, and fertilizers and herbicides. Florida-based research has also shown boron to be a groundwater contaminant linked to construction and demolition debris landfills (Rui et al. 2020). No class III surface water

criteria exist for boron nor do applicable CTLs exist. However, FDEP does reference a boron standard of 1.1 mg/L developed by the University of Florida in 2003. Approximately 60% of samples analyzed for boron were above the corresponding PQL (182/306). The geometric mean concentration varied by station from 0.026 mg/L (ECSW-4) up to 0.210 mg/L (ECSW-7). The maximum concentration observed was 0.405 mg/L (March 2019, ECSW-7). The highest boron concentrations for all sampling events were always detected at ECSW-7 (51/51), with the second highest concentrations immediately downstream at ECSW-6 (51/51). Concentrations at ECSW-7 were typically an order of magnitude higher than samples collected on the same dates along the west brand and at the dam. The increase in geometric mean concentrations observed between ECSW-7 and west branch stations is statistically significant ($p<0.001$) suggesting measurable specific source(s) of boron may exist upstream of ECSW-7. Boron concentrations within the east branch generally have trended downward over the sampling period with all seven results over 0.30 mg/L occurring by May 2020 (15/51) and all 13 results over 0.25 mg/L occurring by March 2021 (25/51). Boron detections generally show positive correlations with both total dissolved solids and specific conductance. Linear regression pairing boron with TDS results in an overall R^2 value across all stations of 0.641. Linear regression pairing boron with specific conductance results in an overall R^2 value across all stations of 0.858. Individual stations universally show weaker correlations for both TDS and specific conductance. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual stations. Conversely, linear regression pairing boron with total suspended solids and turbidity result in an overall R^2 values across all stations of 0.006 and 0.000, respectively. Positive correlations with both TDS and specific conductance while showing no correlation with TSS or turbidity appears to confirm the major contribution of boron is from groundwater sources. Samples collected June 2021 followed the highest 72-hour antecedent rainfall total recorded during the study period (4.39 inches) and, not surprisingly, these same samples also boasted the lowest geometric mean concentration of boron among all sample dates (0.024 mg/L). Graphics depicting boron results by station are presented in Figures 13.10 and 14.10.

Iron (Fe) is one of the most common elements found in the earth's crust. Naturally occurring ferric iron (Fe^{3+}) is bound in soils but can become mobile when converted to the more soluble ferrous form (Fe^{2+}). Low oxygen environments often support microbiological communities capable of reducing iron. Reducing environments are associated with some natural systems such as wetlands. Northwest Florida-based research has also shown landfill leachate from unlined landfills can also cause conditions allowing for iron release by microbial processes (Subramaniam 2007). All samples analyzed contained measurable concentrations of iron above the PQL (306/306). Concentrations generally decreased in both branches from upstream to downstream. The geometric mean concentration along the west branch decreased from 0.865 mg/L at ECSW-4 (ECSW-5 similar at 0.848 mg/L) to 0.723 mg/L at ECSW-2. The geometric mean concentration along the west branch decreased from 1.42 mg/L (ECSW-7) to 0.801 mg/L (ECSW-6). The maximum concentration observed was 4.77 mg/L (August 2023, ECSW-7). The geometric mean concentration of iron was the lowest downstream of both branches at the dam at 0.702 mg/L. Iron concentration does not show an apparent correlation with any other field or laboratory parameters collected for this study. The class III surface water criteria for iron is 1.0 mg/L. Multiple results from all seven stations exceeded the surface water standard for iron (102/306). Frequency of exceedance varied by station, but generally followed the same upstream to downstream pattern. Results from ECSW-7 exceeded the surface water standard for iron almost twice as often (79.6% or 35/44) as the next most frequent location (ECSW-5, 43.2% or 19/44). Graphics depicting iron results by station are presented in Figures 13.11 and 14.11.

Mercury (Hg) is present in the natural environment in both an elemental form and as a component of various compounds. It naturally enters the environment through weathering of certain mercury-containing rocks, volcanic activity, and combustion of biomass. Anthropogenic sources include mining, industry, combustion of fossil fuels, and medical and municipal waste. Mercury enters surface waters carried by runoff or through atmospheric deposition. Mercury is known to bioaccumulate in both terrestrial and aquatic food chains. Samples were analyzed using methods capable of detecting low levels of mercury measured in parts per trillion or nanograms per liter

(ng/L). Nearly all samples analyzed collected contained measurable concentrations of mercury above the corresponding PQL (294/304). Concentrations generally increased in both branches from upstream to downstream. The geometric mean concentration varied by station from 0.784 ng/L (ECSW-7) up to 3.80 ng/L (ECSW-1). The maximum concentration observed was 8.9 ng/L (April 2021, ECSW-1). The class III surface water standard for mercury is 12 ng/L. No detections of mercury were above the state surface water standard. However, a Florida fish consumption advisory exists as of 2021 for Crescent Lake citing mercury as the contaminate of concern. Graphics depicting mercury results by station are presented in Figures 13.12 and 14.12.

Nickel (Ni) is present in soil as a component of various compounds. It naturally enters the environment through weathering of rocks and runoff caring disturbed soil. Anthropogenic sources include domestic wastewater and industrial effluent. Class III (predominately freshwater) surface water quality standards listed in 62-302 FAC are determined by a calculation based on total hardness. A total of six samples included detections for nickel above the corresponding PQL (6/306). The geometric mean concentrations for all seven stations ranged from 0.002 mg/L to 0.003 mg/L. The maximum concentration observed was 0.211 mg/L (February 2022, ECSW-5). Detections occurred at the dam and west branch stations but were limited to just three (3/51) separate sampling events (April 2021, February 2022, and August 2023). Total hardness-based standards for stations/dates with nickel detections above the corresponding PQL ranged from 0.016 mg/L to 0.021 mg/L. Most detections above the PQL exceeded the corresponding surface water quality criteria (5/6). Nickel is frequently associated with suspended silt/clay particles, but, in this case, nickel concentrations do not show an apparent correlation with any other field or laboratory parameters collected for this study. The lack of correlation between nickel concentration and TSS or turbidity may be due to the small sample size of actual detections above the corresponding PQL. Graphics depicting nickel results by station are presented in Figures 13.13 and 14.13.

Nutrients

Samples were analyzed for total phosphorus and multiple forms of nitrogen using EPA Methods 365.1, 351.2, and 353.2. Samples were also analyzed for chlorophyll-a using EPA Method 445. A combined total of 2,375 individual results were generated through December 2023. Total Keldahl nitrogen (TKN) captures organic forms of nitrogen plus ammonia. Organic nitrogen is often associated with decomposition and decay of organic matter. Nitrate + nitrite (NO_X) captures inorganic forms of nitrogen minus ammonia. Inorganic nitrogen exists in forms readily available for plant uptake and is commonly associated with certain fertilizers. Excess inorganic nitrogen can also be associated with septic take effluent. Total nitrogen is calculated as the sum of TKN and NO_X. Total phosphorus results include both organic ($PO(OR)_3$) and inorganic forms (PO_4^{3-}). Inorganic phosphorus is the only form available for plant uptake. Chlorophyll-a is used as an estimate of algal biomass.

Over 90% of samples analyzed for TKN were above the corresponding PQL (329/353). The geometric mean concentration varied by station from 0.340 mg/L (ECSW-3) up to 0.724 mg/L (ECSW-7). The maximum concentration observed was 2.76 mg/L (April 2023, ECSW-3). TKN geometric mean concentrations were similar across six of the seven sites (0.342 mg/L – 0.408 mg/L). The geometric mean for ECSW-7 (0.724 mg/L) was approximately 80% more than any other site. The increase in geometric mean concentrations observed between ECSW-7 and other stations is statistically significant ($p<0.001$) suggesting measurable specific source(s) of organic nitrogen may exist upstream of ECSW-7. No class III surface water criteria exist for TKN nor do applicable CTLs exist. Graphics depicting TKN results by station are presented in Figures 13.15 and 14.15.

Almost 90% of samples analyzed also contained NO_X concentrations above the corresponding PQL (307/353). The geometric mean concentration varied by station from 0.101 mg/L (ECSW-5) up to 0.384 mg/L (ECSW-2). The maximum concentration observed was 1.87 mg/L (May 2019, ECSW-6). NO_X concentrations were more variable between sites when compared to TKN. The increase in geometric mean concentrations observed from ECSW-3 (0.192 mg/L) downstream to ECSW-2 (0.384 mg/L) is statistically significant ($p<0.001$) suggesting measurable

specific source(s) of inorganic nitrogen may exist between these stations. The increase in geometric mean concentrations observed from ECSW-7 (0.248 mg/L) downstream to ECSW-6 (0.319 mg/L) is not statistically significant (p=0.161). Concentrations across all stations follow a cyclical annual pattern with peak values observed from late spring into fall then declining from late fall into spring. The geometric mean NO_X concentration for all data collected from May to October is 0.318 mg/L while the geometric mean for all data collected from November to April is only 0.135 mg/L. The difference is between seasons is statistically significant (p<0.001). Lower NO_X concentrations over the growing season is not unexpected since inorganic nitrogen is readily available for plant uptake. No class III surface water criteria exist for NO_X nor do applicable CTLs exist. Graphics depicting NO_X results by station are presented in Figures 13.16 and 14.16.

Nitrate (NO_3) concentrations mirrored results presented for NO_X with approximately 90% of results above the corresponding PQL (273/313). The geometric mean concentration varied by station from 0.103 mg/L (ECSW-5) up to 0.373 mg/L (ECSW-2). The maximum concentration observed was 1.87 mg/L (May 2019, ECSW-6). No class III surface water criteria exist for nitrate nor do applicable CTLs exist. Graphics depicting nitrate results by station are presented in Figures 13.17 and 14.17. Only six results included detections of nitrite (NO_2) above the corresponding PQL (6/313). The majority of detections were at ECSW-7 (4/6). The geometric mean concentrations for all seven stations ranged from 0.037 mg/L to 0.043 mg/L. The maximum concentration observed was 0.283 mg/L (April 2019, ECSW-1). No class III surface water criteria exist for nitrite nor do applicable CTLs exist. The relationship between nitrate and nitrate is as expected. Graphics depicting nitrite results by station are presented in Figures 13.18 and 14.18.

Total nitrogen (TN) was detected at levels above the corresponding PQL in nearly all samples analyzed (351/352). The geometric mean concentration varied by station from 0.513 mg/L (ECSW-5) up to 1.07 mg/L (ECSW-7). The maximum concentration observed was 3.30 mg/L (April 2023, ECSW-3). The geometric mean concentration for the three west branch stations upstream of Marcus Pointe Boulevard were all similar (0.513 to 0.562 mg/L). A noticeable increase in geometric mean concentration was observed starting at ECSW-2 (0.798 mg/L). These results were largely driven by elevated inorganic nitrogen levels. The highest geometric mean for total nitrogen concentration was recorded in the east branch at ECSW-7 (1.07 mg/L). Conversely, these results were largely driven by elevated TKN levels. Numeric nutrient criteria for total nitrogen for the Panhandle West region is set at 0.67 mg/L. This value represents an annual geometric mean concentration and by rule is not to be exceeded more than once in any three-calendar year period. Graphics depicting total nitrogen results by station are presented in Figures 13.14 and 14.14.

Approximately 60% of samples analyzed for total phosphorous (TP) were above the corresponding PQL (211/353). The geometric mean concentration varied by station from 0.007 mg/L (ECSW-6) up to 0.013 mg/L (ECSW-7). The maximum concentration observed was 0.190 mg/L (October 2023, ECSW-2). TP concentrations were similar across six of the seven sites (0.007 mg/L – 0.010 mg/L). While the geometric mean for ECSW-4 was approximately 25% higher than the next highest site, this difference is not statistically significant (p=0.237). The numeric nutrient criteria for total phosphorous for the Panhandle West region is 0.06 mg/L. Graphics depicting total phosphorous results by station are presented in Figures 13.15 and 14.15.

Chlorophyll-a sampling did not begin until October 2022. All samples analyzed for chlorophyll-a were above the corresponding PQL (51/51). The geometric mean concentration varied by station from 0.40 µg/L (ECSW-6) up to 4.51 µg/L (ECSW-1). The maximum concentration observed was 13.3 µg/L (December 2023, ECSW-6). The geometric mean for ECSW-7 was nearly four time higher than any other site. Elevated concentrations of chlorophyll-a in the lake as compared to the flowing tributaries is as expected. The lake allows time and conditions for the growth of algal biomass. Graphics depicting chlorophyll-a results by station are presented in Figures 13.16 and 14.16.

Residuals

Samples were analyzed for residuals using Standard Methods 2540C and 2540D. A combined total of 666 individual results were generated through December 2023. Nearly all samples analyzed contained measurable concentrations of total dissolved solids (309/313). The geometric mean concentration varied by station from 56 mg/L (ECSW-4) up to 123 mg/L (ECSW-2). The maximum concentration observed was 167 mg/L (May 2020, ECSW-7). Geometric means were similar across all five of the west branch stations including Crescent Lake dam (55 to 64 mg/L). The geometric mean associated with ECSW-7 (123 mg/L) was approximately 90% more than any other site. The increase in geometric mean concentrations observed among ECSW-7 and west branch stations is statistically significant ($p<0.001$) suggesting measurable specific source(s) of TDS may exist upstream of ECSW-7. As previously discussed, linear regression pairing TDS with boron resulted in moderate positive correlation with an R^2 value across all stations of 0.641. No class III surface water criteria exist for TDS nor do applicable CTLs exist. Graphics depicting TDS results by station are presented in Figures 13.17 and 14.17.

Only three results included detections for total suspended solids above the corresponding PQL (3/353). The geometric mean concentrations for all seven stations ranged from 2.09 mg/L to 2.89 mg/L. The maximum concentration observed was 16.6 mg/L (June 2021, ECSW-7). All detections above the PQL resulted from sampling conducted June 2021. As noted above, the June 2021 sampling event followed significant rainfall. Lower-level detections (below the PQL) were also frequently detected at multiple other stations sampled under this program (109/353). As previously discussed, linear regression pairing TSS with aluminum resulted in moderate positive correlation with an R^2 value across all stations of 0.460. No class III surface water criteria exist for TSS nor do applicable CTLs exist. Graphics depicting TSS results by station are presented in Figures 13.18 and 14.18.

Other Laboratory Parameters

Samples were analyzed for biochemical oxygen demand (BOD) and chemical oxygen demand (COD) using Standard Method 5210B and EPA Method 410.4, respectively. A combined total of 620 individual results were generated through December 2023. Less than 15% of samples analyzed contained measurable BOD above the corresponding PQL (41/314). BODs were similar across all seven stations. The geometric mean concentrations for all seven stations ranged from 2.12 mg/L to 2.28 mg/L. The maximum concentration observed was 14.0 mg/L (November 2019, ECSW-2). No class III surface water criteria exist for BOD nor do applicable CTLs exist. Graphics depicting BOD results by station are presented in Figures 13.19 and 14.19. Approximately 60% of samples analyzed for COD were above the corresponding PQL (179/306). The geometric mean concentration varied by station from 12.4 mg/L (ECSW-3) up to 19.4 mg/L (ECSW-2). The maximum concentration observed was 63 mg/L (April 2021, ECSW-2). The geometric mean for ECSW-7 was approximately 20% higher than the next highest site. The increase in geometric mean concentrations observed between ECSW-7 and west branch stations is statistically significant ($p=0.005$) suggesting measurable specific source(s) of COD may exist upstream of ECSW-7. No class III surface water criteria exist for COD nor do applicable CTLs exist. Graphics depicting COD results by station are presented in Figures 13.20 and 14.20.

Total hardness is quantified based on concentrations of calcium and magnesium. Results are used to determine multiple metals-based surface water quality standards found in 62-302 FAC (i.e. cadmium, chromium, copper, lead, nickel, and zinc). A combined total of 626 individual results were generated through December 2023. Over 70% of samples analyzed for total hardness returned values above the corresponding PQL (231/313). The geometric mean concentration varied by station from 25.45 mg/L (ECSW-4) up to 77.11 mg/L (ECSW-7). The maximum concentration observed was 97.56 mg/L (October 2020, ECSW-7). The geometric mean for ECSW-7 was approximately 160% higher than the next highest site. The increase in geometric mean concentrations observed between ECSW-7 and west branch stations is statistically significant ($p<0.001$) suggesting measurable specific source(s) driving total hardness may exist upstream of ECSW-7. Not surprisingly, total hardness detections generally show positive correlation with TDS. Linear regression pairing total hardness with TSS results in an overall

R^2 value across all stations of 0.723. Individual stations universally show weaker correlations. This is possibly due to range restrictions present within the dataset when parsing results by individual stations. No class III surface water criteria exist for total hardness nor do applicable CTLs exist. Graphics depicting total hardness results by station are presented in Figures 13.21 and 14.21.

All samples analyzed for total organic carbon (TOC) were above the corresponding PQL (294/294). The geometric mean concentration varied by station from 3.3 mg/L (ECSW-1) up to 6.9 mg/L (ECSW-7). The maximum concentration observed was 11.0 mg/L (September 2021, ECSW-7). Concentrations generally decreased in both branches from upstream to downstream. The TOC concentration across west branch sites ranged from 1.4 mg/L (January 2021, ECSW-1) up to 14.6 mg/L (August 2020, ECSW-5). The geometric mean concentration along the west branch decreased from 4.85 mg/L (ECSW-5) to 3.6 mg/L (ECSW-2). The geometric mean concentration along the west branch decreased from 6.9 mg/L (ECSW-7) to 4.5 mg/L (ECSW-6). The geometric mean concentration of TOC was the lowest at the dam downstream of both branches at 3.3 mg/L. The geometric mean at ECSW-7 was approximately 40% more than the highest west branch results. This difference is statistically significant ($p<0.001$) suggesting measurable specific source(s) of TOC may exist upstream of ECSW-7. No class III surface water criteria exist for TOC in 62-302 nor do applicable CTLs exist FAC. Graphics depicting TOC results by station are presented in Figures 13.22 and 14.22.

Field Parameters

Field parameters were collected at all seven surface water stations during monitoring events. Field Parameters included temperature, pH, specific conductance, dissolved oxygen, dissolved oxygen saturation, oxidation-reduction potential, and turbidity.

As expected, temperature readings varied seasonally. Minimal variability was observed between stations during individual monitoring events. The temperature range recorded across all sites was from 9.08 to 33.44 °C. No class III surface water criteria exist for temperature. Graphics depicting temperature results by station are presented in Figures 15.1 and 16.1.

The geometric mean pH for all seven stations ranged from 6.38 to 6.96. The lowest pH recorded was 5.87 (September 2020, ECSW-5). The maximum pH recorded was 8.19 (April 2019, ECSW-1). Class III surface water criteria for pH are based on natural background levels. Graphics depicting pH results by station are presented in Figures 15.2 and 16.2.

The geometric mean specific conductance varied by station from 81.3 µS/cm (ECSW-4) up to 201.9 µS/cm (ECSW-7). The maximum value observed was 280.2 µS/cm (September 2019, ECSW-7). The highest specific conductance measurements for all sampling events were always at ECSW-7 (51/51), with the second highest measurements immediately downstream at ECSW-6 (51/51). The geometric mean for ECSW-7 was approximately 160% more than the highest west branch site. The increase in geometric mean for specific conductance observed between ECSW-7 and west branch stations is statistically significant ($p<0.001$) suggesting measurable specific source(s) driving specific conductance may exist upstream of ECSW-7. As previously discussed, linear regression pairing specific conductance with boron resulted in positive correlation with an R^2 value across all stations of 0.858. No class III surface water criteria exist for specific conductance. Graphics depicting specific conductance results by station are presented in Figures 15.3 and 16.3.

Dissolved oxygen concentrations generally increased in both branches from upstream to downstream. The geometric mean concentration along the west branch increased from 3.06 mg/L (ECSW-5) to 7.46 mg/L (ECSW-2). The geometric mean concentration along the west branch increased from 3.97 mg/L (ECSW-7) to 5.01 mg/L (ECSW-6). The lowest concentration observed was 0.39 mg/L (August 2023, ECSW-7). The maximum concentration

observed was 12.42 mg/L (September 2023, ECSW-2). The geometric mean concentration was the highest at the dam downstream of both branches at 8.71 mg/L. Notable seasonal changes were noted in the upstream locations while downstream locations were less variable. Linear regression pairing dissolved oxygen with temperature at upstream locations resulted in moderate negative correlation with an R^2 value of 0.488. Individual station correlations for ECSW-5 and ECSW-7 have R^2 values of 0.571 and 0.393, respectively. Relationship between temperature and dissolved oxygen concentration is as expected. No class III surface water criteria exist for dissolved oxygen. Graphics depicting dissolved oxygen results by station are presented in Figures 15.4 and 16.4.

Dissolved oxygen saturation results mirrored dissolved oxygen concentrations. The geometric mean dissolved oxygen saturation varied by station from 35.3% (ECSW-5) up to 101.1% (ECSW-1). The lowest dissolved oxygen saturation measured was 5.2% (August 2023, ECSW-7). The maximum dissolved oxygen saturation measured was 159.3% (September 2023, ECSW-2). Dataset includes results greater than 100%. All such results were recorded at either ECSW-2 (12/40) or ECSW-1 (28/40). Dissolved oxygen saturation readings in the lake greater than 100 percent suggests a level of increased algal production and possible eutrophication. The minimum dissolved oxygen saturation for class III surface waters is outlined in 62-302 FAC based on daily, weekly, and monthly averages. Graphics depicting dissolved oxygen saturation results by station are presented in Figures 15.5 and 16.5.

The geometric mean oxidation-reduction potential results varied by station from 145.5 mV (ECSW-6) up to 268.3 mV (ECSW-1). The minimum value measured was 48.58 mV (February 2021, ECSW-5). The maximum value measured was 608.6 mV (May 2020, ECSW-4). No class III surface water criteria exist for ORP. Graphics depicting ORP results by station are presented in Figures 15.6 and 16.6.

The geometric mean turbidity results varied by station from 2.54 NTU (ECSW-2) up to 7.26 NTU (ECSW-7). The maximum value measured was 68.3 NTU (June 2021, ECSW-7). As noted, the June 2021 sampling event followed significant rainfall. The geometric mean for ECSW-7 was approximately 80% higher than the next highest site. The increase in geometric mean observed between ECSW-7 and west branch stations is statistically significant ($p<0.001$) suggesting measurable specific source(s) contributing to elevated turbidity may exist upstream of ECSW-7. As previously discussed, linear regression pairing turbidity with aluminum resulted in moderate positive correlation with an R^2 value across all stations of 0.635. The maximum turbidity levels for Class III surface waters exceed standards when conditions are greater than 29 NTU above background.

8.3 Groundwater Monitoring Results

Report includes groundwater results collected from two different monitoring wells located on county property north of the former Rolling Hills C&DD Facility (upgradient). Monthly monitoring began in January 2020. No sampling occurred in September or October 2020 due to Hurricane Sally. Wells were also not sampled September 2021. Well locations were selected based on guidance provided by a professional geologist licensed in the State of Florida. The northern most station is identified as MW-9. The southern station near the Rolling Hills C&DD fence line is identified as WM-10. Well locations are identified in Figure 17. Wells were monitored monthly for almost 60 individual parameters. Laboratory and field parameters were selected based on general Florida guidelines for determining potential effects of solid waste facilities. Laboratory parameters included heavy metals, nutrients, volatile organic compounds, and residuals. Field parameters included temperature, pH, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity. A complete list of both laboratory and field parameters is presented in Table 13. Environmental data rarely follows normal distributions. As with surface water data presented above, geometric mean is used in this report to compare differences in groundwater data distribution. Again, geometric means were calculated using applicable MDLs for “U” qualified data. Analyte concentrations are also evaluated against Groundwater Cleanup Target Levels (GCTLs) listed in 62-777 FAC. Unless otherwise noted, evaluation for statistical significance was made using the Mann-Whitney U test.

Volatile Organic Compounds

Samples were analyzed for 33 different volatile organic compounds using EPA Method 8260. A combined total of 2,244 individual results were generated through December 2023. Only 11 results (0.49%) included detections for volatile organic compounds. All but one detection was an estimated value less than the corresponding practical quantitation limit (PQL). Benzene (C_6H_6) was detected April 2022 at MW-9 at a concentration of 6.1 µg/L. This is one of only two benzene detections in the entire dataset (2/66). The other detection was potentially carryover since it was detected below the PQL at the second well sampled during the same sampling event. The benzene detection at MW-9 may be an anomaly. No detections have occurred in any of the subsequent seven monitoring events. The GCTL for benzene in Chapter 62-777 FAC is 1 µg/L. Graphics depicting benzene results are presented by station in Figures 19.1 and 20.1.

Metals

Samples were analyzed for 18 different metals using EPA Method 200.7. Additionally, samples were analyzed for mercury using EPA Method 7470. A combined total of 1,254 individual results were generated through December 2023. Detections for five metals were all less than the corresponding PQL (i.e. antimony, beryllium, silver, thallium, zinc). Only seven metals (7/19) were detected in any of the samples above the corresponding PQL (i.e. aluminum, barium, boron, iron, manganese, mercury, sodium).

Only one sample contained a detection of aluminum (Al) above the corresponding PQL (1/66). The March 2022 aluminum concentration at MW-9 was 0.031 mg/L. The GCTL for aluminum is 0.2 mg/L. This detection was below the corresponding GCTL. Graphics depicting aluminum results are presented by station in Figures 19.2 and 20.2.

Approximately 75% of samples analyzed for barium (Ba) were above the corresponding PQL (50/66). The geometric mean concentration ranged from 0.013 mg/L (MW-10) up to 0.030 mg/L (MW-9). The maximum concentration observed was 0.034 mg/L (March 2021, MW-9). Concentrations were consistently higher at MW-9 (33/33). The difference in geometric mean concentrations is statistically significant ($p<0.001$). Detections show good positive correlation with specific conductance. Linear regression pairing barium with specific conductance results in an overall R^2 value for both wells of 0.949. Individual wells show individually show weaker correlations. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual wells. Conversely, linear regression pairing barium with turbidity result in an overall R^2 value for both wells of 0.010. The GCTL for barium is 2 mg/L. All detections were below the corresponding GCTL. Graphics depicting barium results are presented by station in Figures 19.3 and 20.3.

Approximately 20% of samples analyzed for boron (B) were above the corresponding PQL (14/66). The geometric mean concentration ranged from 0.017 mg/L (MW-10) up to 0.022 mg/L (MW-9). The maximum concentration observed was 0.034 mg/L (November 2020, MW-9). Concentrations were consistently higher at MW-9 (33/33). The difference in geometric mean concentrations is statistically significant ($p<0.001$). Detections show moderate positive correlation with specific conductance. Linear regression pairing aluminum with specific conductance results in an overall R^2 value across both wells of 0.451. Individual wells show individually show weaker correlations. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual wells. The GCTL for boron is 1.4 mg/L. All detections were below the corresponding GCTL. Graphics depicting born results are presented by station in Figures 19.4 and 20.4.

Only five samples contained detections of iron (Fe) above the corresponding PQL (5/66). Detections were associated with both wells. The maximum concentration observed was 0.081 mg/L (August 2022, MW-10). The GCTL for iron is 0.3 mg/L. All detections were below the corresponding GCTL. Graphics depicting iron results are presented by station in Figures 19.5 and 20.5.

Approximately 50% of samples analyzed for manganese (Mn) were above the corresponding PQL (32/66). The geometric mean concentration ranged from 0.003 mg/L (MW-10) up to 0.025 mg/L (MW-9). The maximum concentration observed was 0.046 mg/L (January 2021, MW-9). Nearly all detections above the PQL were associated with MW-9 (31/32). The difference in geometric mean concentrations is statistically significant ($p<0.001$). Detections show good positive correlation with specific conductance. Linear regression pairing manganese with specific conductance results in an overall R^2 value for both wells of 0.866. Individual wells show individually show weaker correlations. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual wells. Conversely, linear regression pairing manganese with turbidity result in an overall R^2 value for both wells of 0.001. The GCTL for manganese is 0.05 mg/L. All detections were below the corresponding GCTL. Graphics depicting aluminum results are presented by station in Figures 19.6 and 20.6.

Only one sample contained a detection of mercury (Hg) above the corresponding PQL (1/64). The January 2020 mercury concentration at MW-9 was 0.23 µg/L. This detection may be an anomaly. The GCTL for mercury is 2 µg/L. All detections were below the corresponding GCTL. Graphics depicting aluminum results are presented by station in Figures 19.7 and 20.7.

All samples analyzed for sodium (Na) were above the corresponding PQL (66/66). The geometric mean concentration ranged from 2.97 mg/L (MW-10) up to 5.00 mg/L (MW-9). The maximum concentration observed was 6.80 mg/L (November 2020, MW-9). Higher concentrations may have been present in a few samples that were outside the calibration range. Concentrations were consistently higher at MW-9 (33/33). The difference in geometric mean concentrations is statistically significant ($p<0.001$). Detections show positive correlation with specific conductance. Linear regression pairing sodium with specific conductance results in an overall R^2 value for both wells of 0.795. Individual wells show individually show weaker correlations. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual wells. Conversely, linear regression pairing sodium with turbidity result in an overall R^2 value for both wells of 0.080. The GCTL for sodium is 160 mg/L. All detections were below the corresponding GCTL. Graphics depicting sodium results are presented by station in Figures 19.8 and 20.8.

Nutrients

Samples were analyzed for multiple forms of nitrogen using EPA Methods 350.1 and 351.2. A combined total of 268 individual results were generated. No results for nitrate (NO_2) were above the corresponding PQL (62/62). Only two samples contained ammonia (NH_3) above the corresponding PQL (2/66). The May 2022 and September 2022 ammonia concentrations at MW-10 were 2.2 mg/L and 0.14 mg/L, respectively. The GCTL for ammonia is 2.8 mg/L. All ammonia detections were below the corresponding GCTL. Graphics depicting ammonia results are presented by station in Figures 19.9 and 20.9. Nearly all samples analyzed contained NO_X concentrations above the corresponding PQL (64/66). The geometric mean concentration ranged from 0.631 mg/L (MW-9) up to 0.739 mg/L (MW-10). The maximum concentration observed was 1.39 mg/L (September 2022, MW-10). The GCTL for NO_X is 10 mg/L. All NO_X detections were below the corresponding CTL. Graphics depicting NO_X results are presented by station in Figures 19.10 and 20.10. Nitrate concentrations exactly mirrored results presented for NO_X. The GCTL for NO_3 is 10 mg/L. All detections were below the corresponding GCTL. Graphics depicting NO_3 results are presented by station in Figures 19.11 and 20.11.

Residuals and Other Laboratory Parameters

All samples analyzed for chloride (Cl^-) were above the corresponding PQL (66/66). The geometric mean concentration ranged from 4.95 mg/L (MW-10) up to 7.70 mg/L (MW-9). The maximum concentration observed was 11.0 mg/L (March 2021, MW-9). Concentrations were consistently higher at MW-9 (33/33). The difference in geometric mean concentrations is statistically significant ($p<0.001$). Detections show only moderate positive

correlation with specific conductance. Linear regression pairing TDS with specific conductance results in an overall R^2 value for both wells of 0.674. Individual wells show individually show weaker correlations. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual wells. The GCTL for chloride is 250 mg/L. All detections were below the corresponding GCTL. Graphics depicting chloride results are presented by station in Figures 19.12 and 20.12.

Approximately 50% of samples analyzed for sulfate (SO_2^{-4}) were above the corresponding PQL (32/66). The geometric mean concentration ranged from 1.7 mg/L (MW-10) up to 6.7 mg/L (MW-9). The maximum concentration observed was 7.9 mg/L (August 2020, MW-9). Concentrations were consistently higher at MW-9 (33/33). The difference in geometric mean concentrations is statistically significant ($p<0.001$). Detections show good positive correlation with specific conductance. Linear regression pairing sulfate with specific conductance results in an overall R^2 value for both wells of 0.882. Individual wells show individually show weaker correlations. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual wells. The GCTL for sulfate is 250 mg/L. All detections were below the corresponding GCTL. Graphics depicting sulfate results are presented by station in Figures 19.14 and 20.14.

Approximately 30% of samples analyzed for sulfide (S^{-2}) were above the corresponding PQL (21/66). The geometric mean concentration was similar between both well ranging from 0.48 mg/L (MW-9) to 0.49 mg/L (MW-10). The maximum concentration observed was 10 mg/L (July 2022, MW-9). This value appears to be an outlier. Detections show moderate negative correlation with pH. Linear regression pairing sulfide with pH results in an overall R^2 value for both wells of 0.600. Individual wells show individually show weaker correlations. These lower correlations are possibly due to range restrictions present within the dataset when parsing results by individual wells. No GCTL for sulfide exists. Graphics depicting sulfide results are presented by station in Figures 19.15 and 20.15. Not surprisingly, Unionized hydrogen sulfide (H_2S) concentration trends exactly mirrored results presented for sulfide as unionized hydrogen levels is determined using a calculation based on sulfide concentration. Approximately 30% of samples analyzed for unionized hydrogen sulfide were above the corresponding PQL (21/66). The geometric mean concentration was similar between both well ranging from 0.48 mg/L (MW-10) to 0.50 mg/L (MW-9). The maximum concentration observed was 11 mg/L (July 2022, MW-9). This value appears to be an outlier. Also not surprisingly, detections show moderate negative correlations with pH. Linear regression pairing sulfide with pH results in an overall R^2 value for both wells of 0.601. The GCTL for unionized hydrogen sulfide is 0.021 mg/L. All detections were below the corresponding GCTL. Graphics depicting unionized hydrogen sulfide results are presented by station in Figures 19.13 and 20.13.

Approximately 70% of samples analyzed for total dissolved solids (TDS) were above the corresponding PQL (45/65). The geometric mean concentration ranged from 23 mg/L (MW-10) up to 38 mg/L (MW-9). The maximum concentration observed was 73 mg/L (September 2021, MW-9). Concentrations were consistently higher at MW-9 (29/32). The difference in geometric mean concentrations is statistically significant ($p<0.001$). The GCTL for TDS is 500 mg/L. All TDS detections were below the corresponding CTL. Graphics depicting results are presented by station in Figures 19.16 and 20.16.

Field Parameters

Field parameters were collected at both wells during all monitoring events. Field Parameters included temperature, pH, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity. Recorded temperatures were very consistent during the monitoring period but were always slightly higher at MW-10 (33/33). The geometric mean concentration was similar between both well ranging from 22.68 °C (MW-9) to 23.44 °C (MW-10). Graphics depicting temperature results are presented by station in Figures 21.1 and 22.1. pH was also consistent during the monitoring period. The geometric mean concentration was similar between both well ranging from 4.51 (MW-9) to 4.56 (MW-10). As previously discussed, linear regression pairing pH with sulfide

resulted in moderate negative correlation with an R^2 value across all stations of 0.600. No GCTL for pH exists. Graphics depicting pH results are presented by station in Figures 21.2 and 22.2. The geometric mean specific conductance ranged from 31.9 µS/cm (MW-10) up to 59.2 µS/cm (MW-10). The maximum level observed was 70.14 µS/cm (February 2023, MW-9). Levels were consistently higher at MW-9 (33/33). The difference in geometric means is statistically significant ($p<0.001$). As previously discussed, linear regressions pairing specific conductance with barium, sulfate, manganese, sodium, and boron resulted in positive correlations with an R^2 value for both wells of 0.949, 0.882, 0.866, 0795, and 0.451, respectively. No GCTL for specific conductance exists. Graphics depicting specific conductance results are presented by station in Figures 21.3 and 22.3. The geometric mean dissolved oxygen level ranged from 3.57 mg/L (MW-9) up to 8.81 mg/L (MW-10). The minimum level observed was 2.9 mg/L (August 2021, MW-9). The maximum level observed was 9.7 mg/L (June 2022, MW-10). Levels were consistently higher at MW-10 (33/33). The difference in geometric means is statistically significant ($p<0.001$). No GCTL for dissolved oxygen exists. Graphics depicting dissolved results are presented by station in Figures 21.4 and 22.4. The geometric mean concentration was similar between both wells ranging from 307.0 mV (MW-9) to 320.7 mV (MW-10). No GCTL for ORP exists. Graphics depicting ORP results are presented by station in Figures 21.5 and 22.5. Measured turbidities were low. The geometric mean turbidity ranged from 0.06 NTU (MW-10) up to 0.14 mg/L (MW-9). The maximum level observed was 2.9 NTU (February 2021, MW-9). No GCTL for turbidity exists. Graphics depicting turbidity results are presented by station in Figures 21.6 and 22.6.

9.0 References

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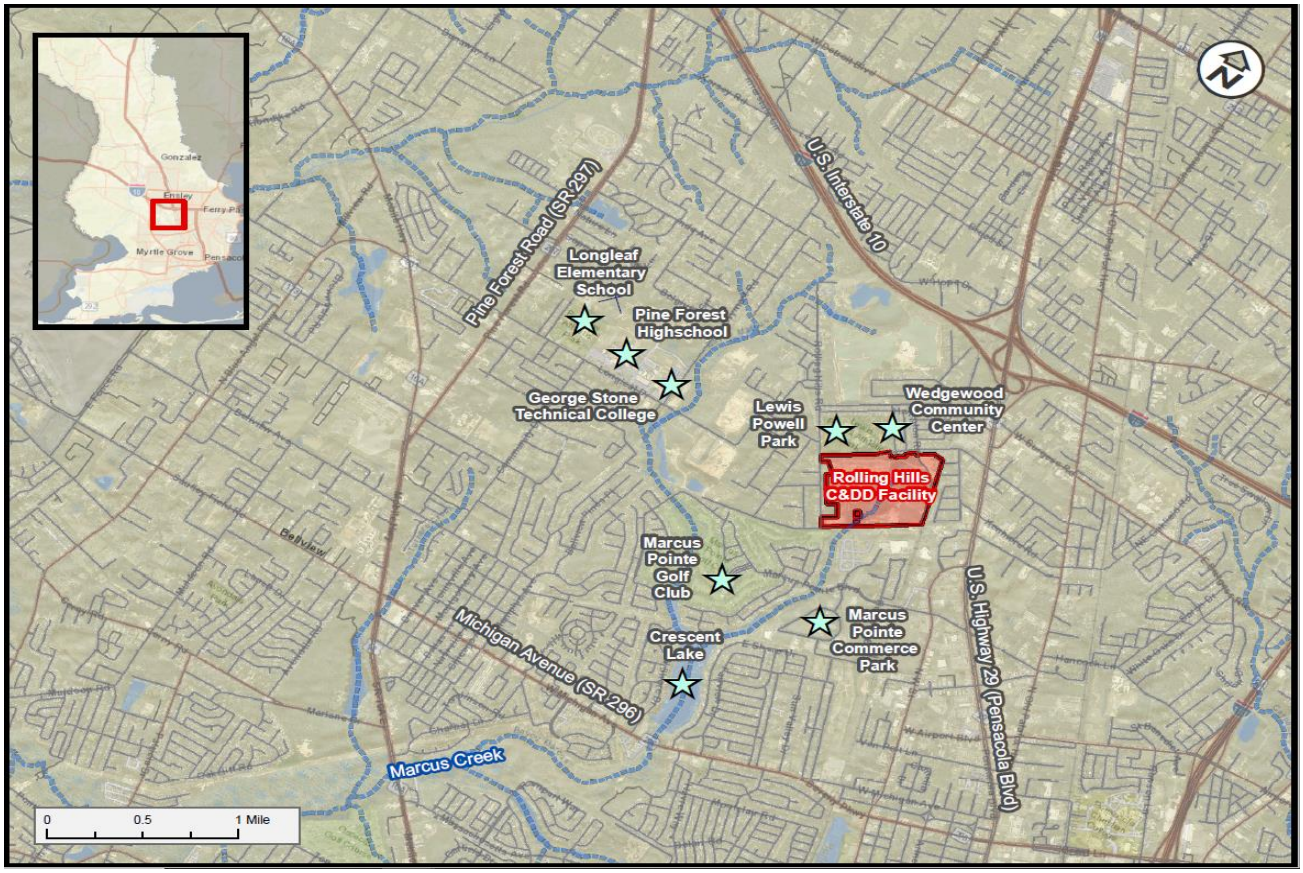
Figure 1: Area of Interest Vicinity Map



Outdoor Air Quality

Hydrogen Sulfide Gas

Tables and Figures

Summarizing Monitoring Results

July 2014 – December 2023

Figure 2: Location of Hydrogen Sulfide Monitoring Stations

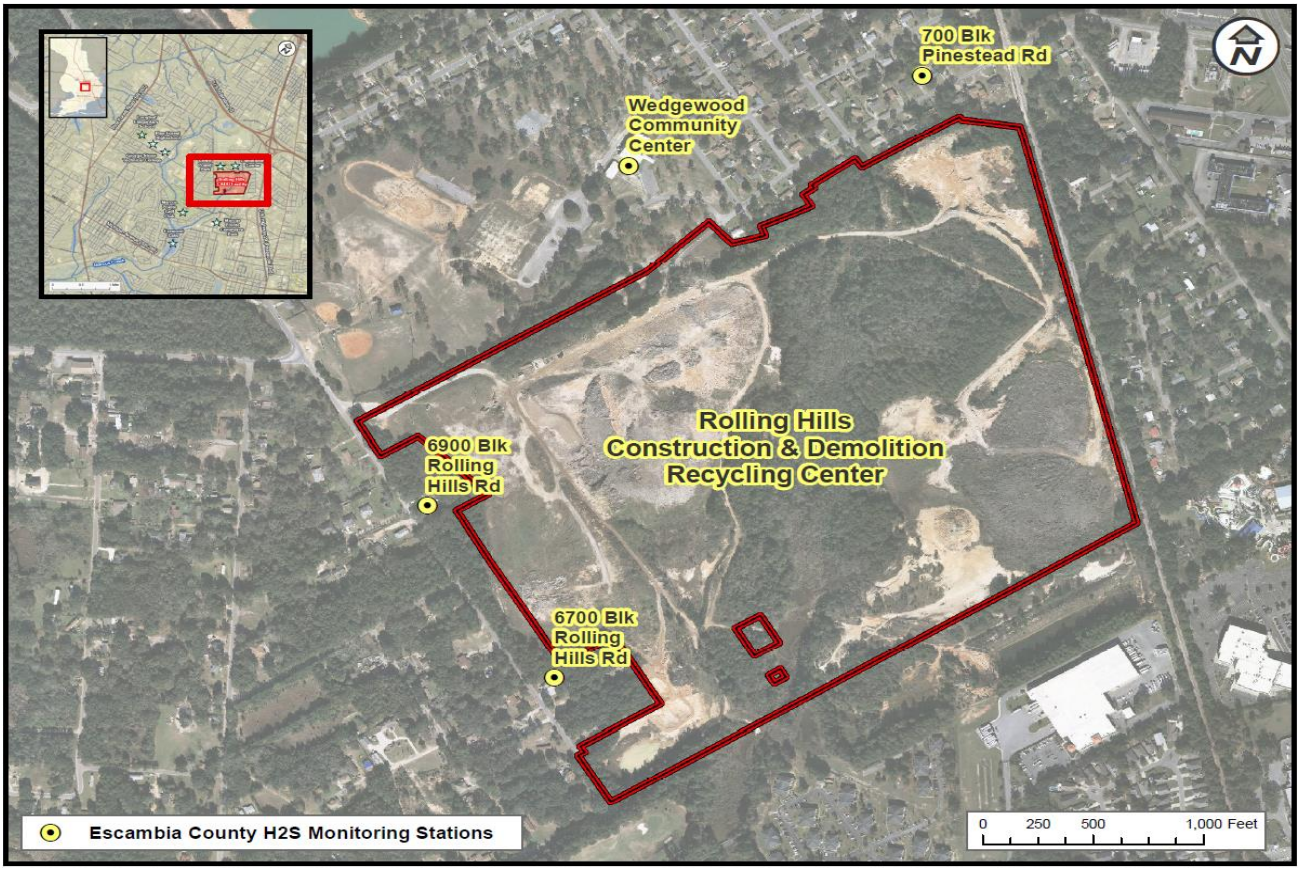


Table 1.1 - 2014 Hydrogen Sulfide (H_2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards: OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
					Max	Mean	Min								
2014	Wedgewood Community Center	119	98%	5,612	590	4.9	0	64	54%	50	42%	23	19%	6	5%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
September 2014	Wedgewood Community Center	27	90%	1,247	220	6.8	0	18	67%	14	52%	6	22%	1	4%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
October 2014	Wedgewood Community Center	31	100%	1,472	590	7.5	0	21	68%	20	65%	12	39%	4	13%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
November 2014	Wedgewood Community Center	30	100%	1,420	230	3.2	0	15	50%	10	33%	3	10%	1	3%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
December 2014	Wedgewood Community Center	31	100%	1,473	140	2.3	0	10	32%	6	19%	2	6%	0	0%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--

Notes:
- Wedgewood Community Center monitoring station was brought online September 4, 2014 @ 14:30. Percentages calculated as of this date. Remaining monitoring stations were not installed until 2015.
- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.2 - 2015 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2015	Wedgewood Community Center	364	100%	17,233	280	2.4	0	166	46%	103	28%	20	5%	3	1%
	6900 Blk of Rolling Hills Road	142	93%	6,407	290	2.2	0	93	65%	55	39%	7	5%	2	1%
	700 Blk of Pinestead Road	119	98%	5,579	110	0.3	0	10	8%	4	3%	1	1%	0	0%
	6700 Blk of Rolling Hills Road	77	84%	3,563	270	5.1	0	47	61%	37	48%	11	14%	1	1%
January 2015	Wedgewood Community Center	31	100%	1,472	280	--		11	35%	8	26%	4	13%	2	6%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
February 2015	Wedgewood Community Center	28	100%	1,329	280	--		7	25%	4	14%	4	14%	1	4%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
March 2015	Wedgewood Community Center	31	100%	1,471	39	--		13	42%	6	19%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
April 2015	Wedgewood Community Center	30	100%	1,424	190	--		20	67%	14	47%	2	7%	0	0%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
May 2015	Wedgewood Community Center	31	100%	1,460	57	--		18	58%	11	35%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
June 2015	Wedgewood Community Center	30	100%	1,418	180	--		22	73%	12	40%	3	10%	0	0%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
July 2015	Wedgewood Community Center	31	100%	1,473	126	--		19	61%	13	42%	6	19%	0	0%
	6900 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
August 2015	Wedgewood Community Center	30	97%	1,422	170	--		18	60%	11	37%	1	3%	0	0%
	6900 Blk of Rolling Hills Road	20	65%	616	110	--		10	50%	6	30%	1	5%	0	0%
	700 Blk of Pinestead Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	0	0%	0	--	--		--	--	--	--	--	--	--	--
September 2015	Wedgewood Community Center	30	100%	1,427	56	2.0	0	11	37%	8	27%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,424	60	2.3	0	24	80%	10	33%	0	0%	0	0%
	700 Blk of Pinestead Road	27	90%	1,262	32	0.2	0	4	15%	1	4%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
October 2015	Wedgewood Community Center	31	100%	1,465	55	1.0	0	10	32%	7	23%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,471	55	1.4	0	20	65%	13	42%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	24	0.4	0	3	10%	1	3%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	16	52%	675	55	4.9	0	11	69%	7	44%	0	0%	0	0%
November 2015	Wedgewood Community Center	30	100%	1,399	62	1.4	0	7	23%	4	13%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,425	290	2.9	0	23	77%	15	50%	3	10%	2	7%
	700 Blk of Pinestead Road	30	100%	1,425	12	0.2	0	1	3%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,418	270	5.7	0	22	73%	17	57%	7	23%	1	3%
December 2015	Wedgewood Community Center	31	100%	1,473	61	1.1	0	10	32%	5	16%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,471	190	2.5	0	16	52%	11	35%	3	10%	0	0%
	700 Blk of Pinestead Road	31	100%	1,420	110	0.5	0	2	6%	2	6%	1	3%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,470	130	4.7	0	14	45%	13	42%	4	13%	0	0%

Notes:
- Monitoring stations located at 6900 Blk of Rolling Hills Road, 700 Blk of Pinestead Road, and 6700 Blk of Rolling Hills Road were brought online August 11, 2015 @ 16:30, September 4, 2015 @ 10:00, and October 14, 2015 @ 15:00, respectively. Percentages calculated as of these dates.
- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.3 - 2016 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2016	Wedgewood Community Center	365	100%	17,329	79	1.0	0	86	24%	25	7%	2	1%	0	0%
	6900 Blk of Rolling Hills Road	339	93%	16,073	140	1.0	0	106	31%	43	13%	3	1%	0	0%
	700 Blk of Pinestead Road	248	91%	11,267	29	0.5	0	14	6%	2	1%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	343	94%	16,177	240	1.2	0	106	31%	57	17%	11	3%	1	0%
January 2016	Wedgewood Community Center	31	100%	1,472	79	1.6	0	9	29%	7	23%	2	6%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,473	140	2.2	0	18	58%	10	32%	1	3%	0	0%
	700 Blk of Pinestead Road	31	100%	1,473	29	1.3	0	7	23%	1	3%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,471	160	4.5	0	21	68%	15	48%	6	19%	0	0%
February 2016	Wedgewood Community Center	29	100%	1,378	49	1.3	0	10	34%	5	17%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	29	100%	1,376	130	1.1	0	9	31%	4	14%	1	3%	0	0%
	700 Blk of Pinestead Road	29	100%	1,374	9	1.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	29	100%	1,376	120	2.2	0	12	41%	6	21%	1	3%	0	0%
March 2016	Wedgewood Community Center	31	100%	1,470	38	0.8	0	6	19%	1	3%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,469	84	0.6	0	7	23%	4	13%	1	3%	0	0%
	700 Blk of Pinestead Road	31	100%	1,467	7	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	19	61%	838	240	1.4	0	6	32%	3	16%	1	5%	1	5%
April 2016	Wedgewood Community Center	30	100%	1,425	23	0.9	0	10	33%	2	7%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,425	48	0.3	0	6	20%	3	10%	0	0%	0	0%
	700 Blk of Pinestead Road	20	67%	775	7	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	190	1.8	0	14	47%	14	47%	2	7%	0	0%
May 2016	Wedgewood Community Center	31	100%	1,472	20	1.0	0	11	35%	1	3%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,472	13	0.1	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	24	77%	1,067	10	0.3	0	1	4%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,473	66	1.0	0	13	42%	7	23%	0	0%	0	0%
June 2016	Wedgewood Community Center	30	100%	1,425	23	0.8	0	12	40%	2	7%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,418	27	0.4	0	8	27%	1	3%	0	0%	0	0%
	700 Blk of Pinestead Road	28	93%	1,192	16	0.4	0	1	4%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	23	77%	1,056	78	0.8	0	10	43%	5	22%	1	4%	0	0%
July 2016	Wedgewood Community Center	31	100%	1,472	30	0.9	0	10	32%	4	13%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,472	49	0.9	0	14	45%	6	19%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	26	0.4	0	3	10%	1	3%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,473	26	0.3	0	12	39%	2	6%	0	0%	0	0%
August 2016	Wedgewood Community Center	30	97%	1,425	21	0.5	0	8	27%	1	3%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	97%	1,425	27	1.1	0	15	50%	4	13%	0	0%	0	0%
	700 Blk of Pinestead Road	25	81%	1,099	11	0.3	0	1	4%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	97%	1,424	28	0.2	0	6	20%	1	3%	0	0%	0	0%
September 2016	Wedgewood Community Center	30	100%	1,424	18	0.6	0	5	17%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,425	48	1.5	0	18	60%	7	23%	0	0%	0	0%
	700 Blk of Pinestead Road	29	97%	1,348	10	0.4	0	1	3%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	27	0.2	0	5	17%	3	10%	0	0%	0	0%
October 2016	Wedgewood Community Center	31	100%	1,472	27	1.2	0	5	16%	2	6%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,473	45	1.7	0	10	32%	4	13%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	31	100%	1,472	17	0.4	0	4	13%	0	0%	0	0%	0	0%
November 2016	Wedgewood Community Center	30	100%	1,422	8	1.4	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,419	8	1.6	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	30	100%	1,422	11	0.7	0	1	3%	0	0%	0	0%	0	0%
December 2016	Wedgewood Community Center	31	100%	1,472	8	1.1	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	5	16%	226	6	1.5	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	28	90%	1,322	23	0.5	0	2	7%	1	4%	0	0%	0	0%

Notes: 1 - Monitoring station located at 700 Blk of Pinestead Road offline from October 2016 - February 2017 due to equipment theft.

- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.4 - 2017 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2017	Wedgewood Community Center	364	100%	17,001	140	1.2	0	20	5%	10	3%	3	1%	0	0%
	6900 Blk of Rolling Hills Road	360	99%	17,007	33	0.2	0	10	3%	2	1%	0	0%	0	0%
	700 Blk of Pinestead Road	224	73%	10,518	16	0.2	0	2	1%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	338	93%	15,533	77	0.5	0	10	3%	5	1%	1	0%	0	0%
January 2017	Wedgewood Community Center	31	100%	1,469	140	1.7	0	6	19%	4	13%	2	6%	0	0%
	6900 Blk of Rolling Hills Road	27	87%	1,255	11	0.3	0	1	4%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	20	65%	918	20	1.0	0	2	10%	1	5%	0	0%	0	0%
February 2017	Wedgewood Community Center	28	100%	1,330	43	1.4	0	2	7%	2	7%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	28	100%	1,330	13	0.2	0	2	7%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	28	100%	1,330	7	0.8	0	0	0%	0	0%	0	0%	0	0%
March 2017	Wedgewood Community Center	31	100%	1,467	48	1.5	0	3	10%	1	3%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,465	6	0.3	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	97%	1,367	4	0.3	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,464	9	0.9	0	0	0%	0	0%	0	0%	0	0%
April 2017	Wedgewood Community Center	30	100%	1,425	13	0.1	0	1	3%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,425	25	0.2	0	1	3%	1	3%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,424	3	0.3	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	26	87%	1,194	25	1.0	0	3	12%	1	4%	0	0%	0	0%
May 2017	Wedgewood Community Center	31	100%	1,464	101	0.5	0	2	6%	2	6%	1	3%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,457	13	0.1	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,441	16	0.4	0	2	6%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,448	77	1.0	0	2	6%	1	3%	1	3%	0	0%
June 2017	Wedgewood Community Center	30	100%	1,425	31	0.6	0	1	3%	1	3%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,425	33	0.3	0	3	10%	1	3%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,425	2	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	40	0.3	0	2	7%	2	7%	0	0%	0	0%
July 2017	Wedgewood Community Center	31	100%	1,436	17	1.0	0	1	3%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,439	4	0.2	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,471	3	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,472	9	0.0	0	0	0%	0	0%	0	0%	0	0%
August 2017	Wedgewood Community Center	30	97%	1,240	12	3.5	0	3	10%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	97%	1,425	5	0.1	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	97%	1,425	3	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	97%	1,425	5	0.0	0	0	0%	0	0%	0	0%	0	0%
September 2017	Wedgewood Community Center	30	100%	1,376	9	2.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,425	3	0.1	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,425	4	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	5	0.0	0	0	0%	0	0%	0	0%	0	0%
October 2017	Wedgewood Community Center	31	100%	1,473	10	1.6	0	1	3%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,473	10	0.2	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	12	39%	540	1	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,468	3	0.2	0	0	0%	0	0%	0	0%	0	0%
November 2017	Wedgewood Community Center	30	100%	1,425	5	0.6	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,417	9	0.4	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	30	100%	1,351	19	0.2	0	1	3%	0	0%	0	0%	0	0%
December 2017	Wedgewood Community Center	31	100%	1,471	3	0.5	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,471	10	0.5	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	20	65%	613	3	0.1	0	0	0%	0	0%	0	0%	0	0%

Notes: 1 - Monitoring station located at 700 Blk of Pinestead Road offline from October 2016 - February 2017 due to lack of electrical power.

2 - Monitoring station located at 700 Blk of Pinestead Road offline from November 2017 - March 2018 due to previous equipment theft and need to relocate station.

- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.5 - 2018 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2018	Wedgewood Community Center	279	76%	13,025	29	0.3	0	1	0%	1	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	291	80%	13,596	14	0.4	0	4	1%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	175	48%	8,137	13	0.3	0	1	1%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	361	99%	16,925	15	0.5	0	2	1%	0	0%	0	0%	0	0%
January 2018	Wedgewood Community Center	31	100%	1,473	3	0.7	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,473	14	1.1	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	28	90%	1,190	8	0.9	0	0	0%	0	0%	0	0%	0	0%
February 2018	Wedgewood Community Center	28	100%	1,330	2	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	21	75%	945	14	0.3	0	1	5%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	28	100%	1,322	6	0.2	0	0	0%	0	0%	0	0%	0	0%
March 2018	Wedgewood Community Center	31	100%	1,470	3	0.5	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	19	61%	871	7	0.2	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [1]	6	19%	273	2	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,468	6	0.3	0	0	0%	0	0%	0	0%	0	0%
April 2018	Wedgewood Community Center	19	63%	880	4	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,425	12	0.2	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,404	7	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,414	1	0.0	0	0	0%	0	0%	0	0%	0	0%
May 2018	Wedgewood Community Center [2]	2	6%	42	6	3.1	1	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,472	5	0.2	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	9	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,456	5	0.5	0	0	0%	0	0%	0	0%	0	0%
June 2018	Wedgewood Community Center [2]	1	3%	1	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,423	7	0.1	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,422	13	0.3	0	1	3%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	14	1.6	0	1	3%	0	0%	0	0%	0	0%
July 2018	Wedgewood Community Center [2]	15	48%	640	9	0.4	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,473	5	0.2	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [3]	9	29%	313	5	0.4	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,469	15	1.7	0	1	3%	0	0%	0	0%	0	0%
August 2018	Wedgewood Community Center	30	97%	1,424	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	97%	1,425	5	0.1	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	30	97%	1,422	1	0.1	0	0	0%	0	0%	0	0%	0	0%
September 2018	Wedgewood Community Center	30	100%	1,396	7	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	100%	1,396	5	0.2	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road	30	100%	1,390	2	0.1	0	0	0%	0	0%	0	0%	0	0%
October 2018	Wedgewood Community Center	31	100%	1,473	5	0.1	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	25	81%	1,130	10	0.4	0	1	4%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road [3]	8	26%	356	2	0.4	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,472	4	0.3	0	0	0%	0	0%	0	0%	0	0%
November 2018	Wedgewood Community Center	30	100%	1,424	8	0.3	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [4]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	100%	1,425	5	0.5	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	2	0.1	0	0	0%	0	0%	0	0%	0	0%
December 2018	Wedgewood Community Center	31	100%	1,472	29	0.3	0	1	3%	1	3%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [4]	13	42%	563	9	2.9	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	5	0.6	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,472	3	0.1	0	0	0%	0	0%	0	0%	0	0%

Notes: 1 - Monitoring station located at 700 Blk of Pinestead Road offline from November 2017 - March 2018 due to previous equipment theft and need to relocate station.
2 - Monitoring station located at Wedgewood Community Center did not operate at full capacity from May 2018 - July 2018 due to equipment failure / replacement.
3 - Monitoring station located at 700 Blk of Pinestead Road offline from July 2018 - October 2018 due to multiple equipment failures / replacements.
4 - Monitoring station located at 6900 Blk of Rolling Hills Road offline from November 2018 - December 2018 due to required maintenance. Temporary replacement equipment was not available from manufacturer for loan during this period.

- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.6 - 2019 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2019	Wedgewood Community Center	246	67%	11,142	14	0.4	0	2	1%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	159	44%	7,156	6	1.6	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	347	95%	16,264	6	0.4	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	223	61%	9,675	4	0.1	0	0	0%	0	0%	0	0%	0	0%
January 2019	Wedgewood Community Center	31	100%	1,472	9	0.4	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,471	6	2.0	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	6	0.9	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	28	90%	1,305	4	0.2	0	0	0%	0	0%	0	0%	0	0%
February 2019	Wedgewood Community Center	20	71%	942	4	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	28	100%	1,306	6	2.3	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	28	100%	1,330	6	0.4	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
March 2019	Wedgewood Community Center	26	84%	998	5	0.3	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,452	6	2.1	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,473	4	0.3	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [1]	21	68%	706	4	0.1	0	0	0%	0	0%	0	0%	0	0%
April 2019	Wedgewood Community Center	24	80%	1,082	14	0.6	0	1	4%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	26	87%	1,071	5	1.6	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,418	4	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [1]	16	53%	483	2	0.0	0	0	0%	0	0%	0	0%	0	0%
May 2019	Wedgewood Community Center [2]	18	58%	692	12	0.4	0	1	6%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	9	29%	315	5	1.7	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	3	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
June 2019	Wedgewood Community Center [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	100%	1,425	2	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [1]	17	57%	650	2	0.0	0	0	0%	0	0%	0	0%	0	0%
July 2019	Wedgewood Community Center [2]	21	68%	966	3	0.5	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	23	74%	1,061	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	24	77%	965	4	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [1]	24	77%	1,068	3	0.1	0	0	0%	0	0%	0	0%	0	0%
August 2019	Wedgewood Community Center [2]	9	29%	411	3	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	9	29%	412	2	0.1	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	20	65%	916	6	0.6	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	97%	1,425	2	0.1	0	0	0%	0	0%	0	0%	0	0%
September 2019	Wedgewood Community Center [2]	5	17%	210	1	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	100%	1,425	3	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	2	0.1	0	0	0%	0	0%	0	0%	0	0%
October 2019	Wedgewood Community Center	31	100%	1,472	5	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	31	100%	1,472	4	0.3	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	29	94%	1,321	2	0.1	0	0	0%	0	0%	0	0%	0	0%
November 2019	Wedgewood Community Center	30	100%	1,424	5	0.6	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	100%	1,424	4	0.9	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	27	90%	1,264	2	0.2	0	0	0%	0	0%	0	0%	0	0%
December 2019	Wedgewood Community Center	31	100%	1,473	5	0.6	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	2	6%	68	5	1.9	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	4	0.7	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [4]	1	3%	28	2	0.4	0	0	0%	0	0%	0	0%	0	0%

Notes:
1 - Monitoring station located at 6700 Blk of Rolling Hills Road did not operate at full capacity from February 2019 - July 2019 to instrument regeneration issue.
2 - Monitoring station located at Wedgewood Community Center did not operate at full capacity from May 2019 - December 2019 due to multiple equipment failures.
3 - Monitoring station located at 6900 Blk of Rolling Hills Road did not operate at full capacity from May 2019 - September 2019 due to multiple equipment failures.
4 - Monitoring station located at 6700 Blk of Rolling Hills Road offline December 2019 due to equipment failure.

- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.7 - 2020 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2020	Wedgewood Community Center	211	58%	9,732	9	0.9	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	302	90%	14,242	11	0.6	0	2	1%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	364	99%	17,128	10	0.3	0	13	4%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	288	79%	13,523	9	1.6	0	0	0%	0	0%	0	0%	0	0%
January 2020	Wedgewood Community Center	31	100%	1,472	5	0.6	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,473	8	1.5	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,472	4	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	23	74%	1,065	6	2.2	0	0	0%	0	0%	0	0%	0	0%
February 2020	Wedgewood Community Center [1]	15	52%	687	4	0.5	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	29	100%	1,376	11	1.1	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	29	100%	1,377	10	0.0	0	1	3%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	29	100%	1,377	5	1.8	0	0	0%	0	0%	0	0%	0	0%
March 2020	Wedgewood Community Center [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road	31	100%	1,473	10	0.9	0	1	3%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,470	10	0.1	0	3	10%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,473	8	2.0	0	0	0%	0	0%	0	0%	0	0%
April 2020	Wedgewood Community Center [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road	30	100%	1,424	3	0.5	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,362	10	0.1	0	4	13%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,424	9	1.9	0	0	0%	0	0%	0	0%	0	0%
May 2020	Wedgewood Community Center [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road	31	100%	1,472	2	0.5	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,471	10	0.1	0	5	16%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,471	9	2.1	0	0	0%	0	0%	0	0%	0	0%
June 2020	Wedgewood Community Center [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road	30	100%	1,420	4	0.4	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,421	1	0.2	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,421	9	2.7	0	0	0%	0	0%	0	0%	0	0%
July 2020	Wedgewood Community Center	23	74%	1,064	9	1.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,471	9	0.3	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,471	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	9	29%	405	9	2.8	0	0	0%	0	0%	0	0%	0	0%
August 2020	Wedgewood Community Center	30	97%	1,421	8	0.8	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	30	97%	1,425	2	0.2	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	97%	1,425	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
September 2020	Wedgewood Community Center	20	67%	739	4	0.5	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	22	73%	972	2	0.2	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	29	97%	1,292	4	0.7	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	13	43%	519	6	1.5	0	0	0%	0	0%	0	0%	0	0%
October 2020	Wedgewood Community Center	31	100%	1,452	5	0.9	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road	31	100%	1,470	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	31	100%	1,470	6	0.6	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,471	7	0.7	0	0	0%	0	0%	0	0%	0	0%
November 2020	Wedgewood Community Center	30	100%	1,425	6	1.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	6	20%	266	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	700 Blk of Pinestead Road	30	100%	1,425	4	0.7	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	30	100%	1,425	4	0.5	0	0	0%	0	0%	0	0%	0	0%
December 2020	Wedgewood Community Center	31	100%	1,472	6	1.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	31	100%	1,472	4	0.9	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,472	4	0.5	0	0	0%	0	0%	0	0%	0	0%

Notes: 1 - Monitoring station located at Wedgewood Community Center offline from February 2020 - June May 2020 due to multiple equipment failures.
2 - Monitoring station located at 6700 Blk of Rolling Hills Road offline from July 2020 - September 2020 due to equipment failure.
3 - Monitoring station located at 6900 Blk of Rolling Hills Road offline starting November 2020 due to impacts from Hurricane Sally and need to relocation station.

- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.8 - 2021 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2021	Wedgewood Community Center	345	95%	16,308	8	0.6	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	326	89%	15,157	5	0.1	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	101	28%	4,751	5	0.4	0	0	0%	0	0%	0	0%	0	0%
January 2021	Wedgewood Community Center	31	100%	1,473	6	1.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	31	100%	1,452	5	0.7	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,473	5	0.4	0	0	0%	0	0%	0	0%	0	0%
February 2021	Wedgewood Community Center	28	100%	1,329	7	1.1	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	28	100%	1,329	5	0.6	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	28	100%	1,329	4	0.4	0	0	0%	0	0%	0	0%	0	0%
March 2021	Wedgewood Community Center	31	100%	1,470	8	1.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	16	52%	696	5	0.3	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road	31	100%	1,470	4	0.3	0	0	0%	0	0%	0	0%	0	0%
April 2021	Wedgewood Community Center	30	100%	1,424	6	1.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	29	97%	1,361	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	11	37%	479	2	0.4	0	0	0%	0	0%	0	0%	0	0%
May 2021	Wedgewood Community Center	12	39%	506	3	0.6	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	9	29%	341	1	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
June 2021	Wedgewood Community Center	30	100%	1,425	3	0.7	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	100%	1,367	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
July 2021	Wedgewood Community Center	31	100%	1,471	7	0.9	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	31	100%	1,430	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
August 2021	Wedgewood Community Center	30	97%	1,424	4	0.8	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	97%	1,424	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
September 2021	Wedgewood Community Center	30	100%	1,425	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	100%	1,425	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
October 2021	Wedgewood Community Center	31	100%	1,471	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	31	100%	1,441	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
November 2021	Wedgewood Community Center	30	100%	1,417	3	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	30	100%	1,419	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
December 2021	Wedgewood Community Center	31	100%	1,473	3	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	31	100%	1,472	1	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--

Notes: 1 - Monitoring station located at 6900 Blk of Rolling Hills Road offline starting November 2020 due to impacts from Hurricane Sally.
2 - Monitoring station located at 6700 Blk of Rolling Hills Road offline starting April 2021 due to lack of electrical power.

- Data from January - June 2021 has been perviously reported.
- Occupational Safety and Health Administration (OSHA) minimum odor threshold is **10** ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is **70** ppb; MRL for intermediate exposure is **20** ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H_2S readings exceeded **200** ppb.

Table 1.9 - 2022 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2022	Wedgewood Community Center	236	65%	11,099	5	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	76	21%	3,583	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
January 2022	Wedgewood Community Center	31	100%	1,472	4	0.5	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	31	100%	1,472	1	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
February 2022	Wedgewood Community Center	28	100%	1,330	4	0.4	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	28	100%	1,330	1	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
March 2022	Wedgewood Community Center	31	100%	1,467	5	0.3	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	17	55%	781	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
April 2022	Wedgewood Community Center	30	100%	1,425	2	0.1	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
May 2022	Wedgewood Community Center	31	100%	1,472	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
June 2022	Wedgewood Community Center	30	100%	1,424	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
July 2022	Wedgewood Community Center	31	100%	1,470	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
August 2022	Wedgewood Community Center	22	71%	1,001	2	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
September 2022	Wedgewood Community Center [4]	2	7%	38	2	0.3	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
October 2022	Wedgewood Community Center [4]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
November 2022	Wedgewood Community Center [4]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
December 2022	Wedgewood Community Center [4]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--

Notes:
1 - Monitoring station located at 6900 Blk of Rolling Hills Road offline starting November 2020 due to impacts from Hurricane Sally.
2 - Monitoring station located at 6700 Blk of Rolling Hills Road offline starting April 2021 due to lack of electrical power.
3 - Monitoring station located at 700 Blk of Pinestead Road offline starting March 2022 due to lack of electrical power.
4 - Monitoring station located at Wedgewood Community Center did not operate at full capacity from September 2022 - March 2023 due to equipment failure / replacement.

- Occupational Safety and Health Administration (OSHA) minimum odor threshold is 10 ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is 70 ppb; MRL for intermediate exposure is 20 ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H2S readings exceeded 200 ppb.

Table 1.10 - 2023 Hydrogen Sulfide (H2S) Monthly Data Summary

Date	Monitoring Station Location	Days in Operation		Number of Samples	Concentration (ppb)			Days with Samples Exceeding Corresponding Standards							
					Max	Mean	Min	OSHA Odor Threshold (10 ppb)		ASTDR MRL Intermediate Exposure (20 ppb)		ASTDR MRL Acute Exposure (70 ppb)		FDOH Health Advisory (200 ppb)	
2023	Wedgewood Community Center	305	84%	13,995	8	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
January 2023	Wedgewood Community Center [4]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
February 2023	Wedgewood Community Center [4]	2	7%	2	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
March 2023	Wedgewood Community Center	29	94%	935	4	0.2	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
April 2023	Wedgewood Community Center	30	100%	1,425	8	0.6	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
May 2023	Wedgewood Community Center	31	100%	1,470	7	1.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
June 2023	Wedgewood Community Center	30	100%	1,424	1	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
July 2023	Wedgewood Community Center	31	100%	1,472	1	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
August 2023	Wedgewood Community Center	30	97%	1,425	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
September 2023	Wedgewood Community Center [5]	30	100%	1,426	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
October 2023	Wedgewood Community Center [5]	31	100%	1,488	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
November 2023	Wedgewood Community Center [5]	30	100%	1,440	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
December 2023	Wedgewood Community Center [5]	31	100%	1,488	0	0.0	0	0	0%	0	0%	0	0%	0	0%
	6900 Blk of Rolling Hills Road [1]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	700 Blk of Pinestead Road [3]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--
	6700 Blk of Rolling Hills Road [2]	0	0%	0	--	--	--	--	--	--	--	--	--	--	--

Notes:
1 - Monitoring station located at 6900 Blk of Rolling Hills Road offline starting November 2020 due to impacts from Hurricane Sally.
2 - Monitoring station located at 6700 Blk of Rolling Hills Road offline starting April 2021 due to lack of electrical power.
3 - Monitoring station located at 700 Blk of Pinestead Road offline starting March 2022 due to lack of electrical power.
4 - Monitoring station located at Wedgewood Community Center did not operate at full capacity from September 2022 - March 2023 due to equipment failure / replacement.
5 - Data Wedgewood Community Center for corresponding months obtained from Netronix Group, Inc. cloud services.

- Occupational Safety and Health Administration (OSHA) minimum odor threshold is 10 ppb. Actual odor threshold is variable based on individual sensitivities.
- Agency for Toxic Substances & Disease Registry (ASTDR) Minimum Risk Level (MRL) for acute exposure (1-14 days) is 70 ppb; MRL for intermediate exposure is 20 ppb.
- Florida Department of Health in Escambia County determined the "Health Advisory Level" was reached when two consecutive H2S readings exceeded 200 ppb.

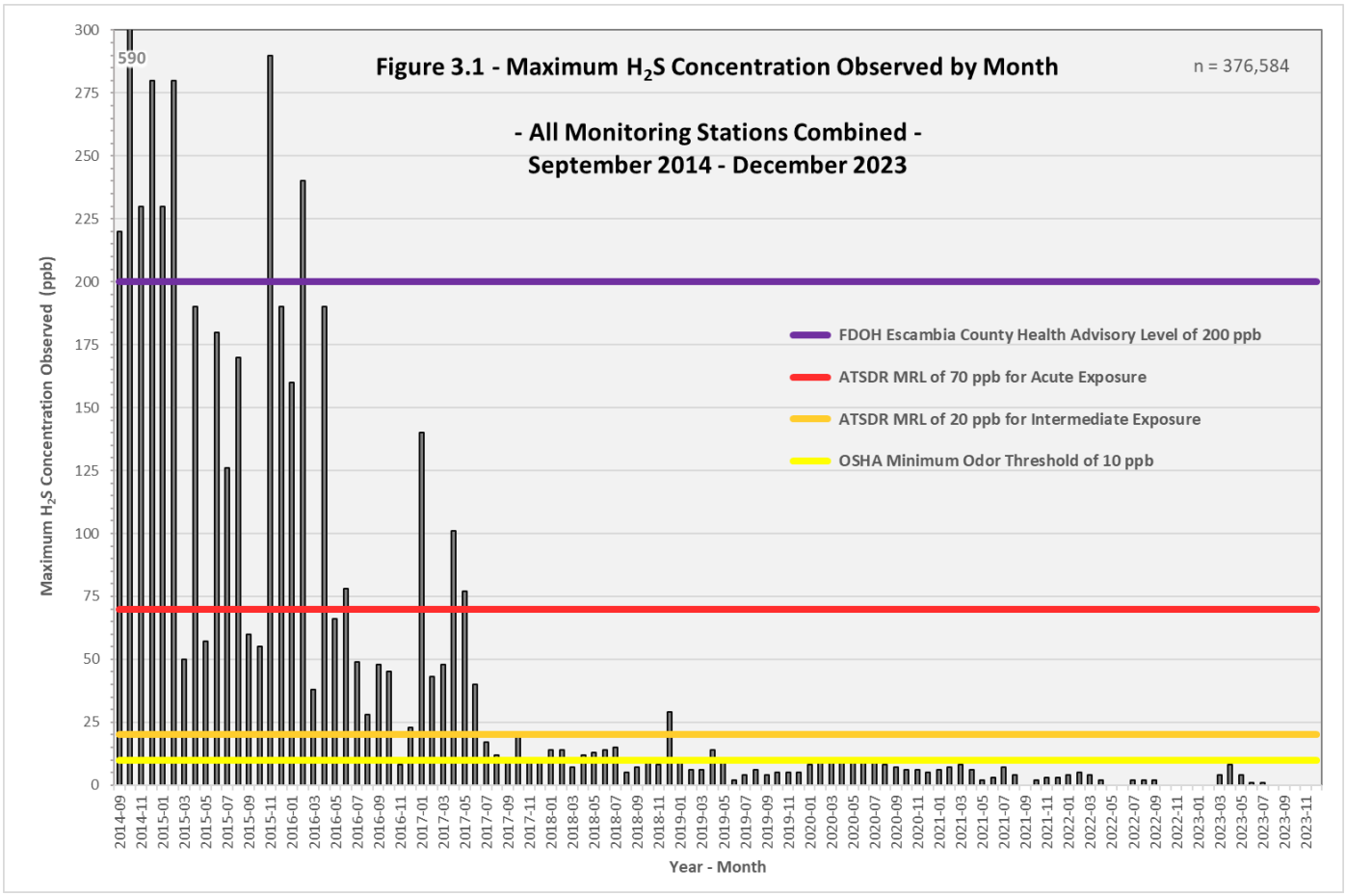


Figure 3.1 - Maximum H_2S Concentration Observed by Month
- All Monitoring Stations Combined -
September 2014 - December 2023
n = 376,584
590
Maximum H_2S Concentration Observed (ppb)
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

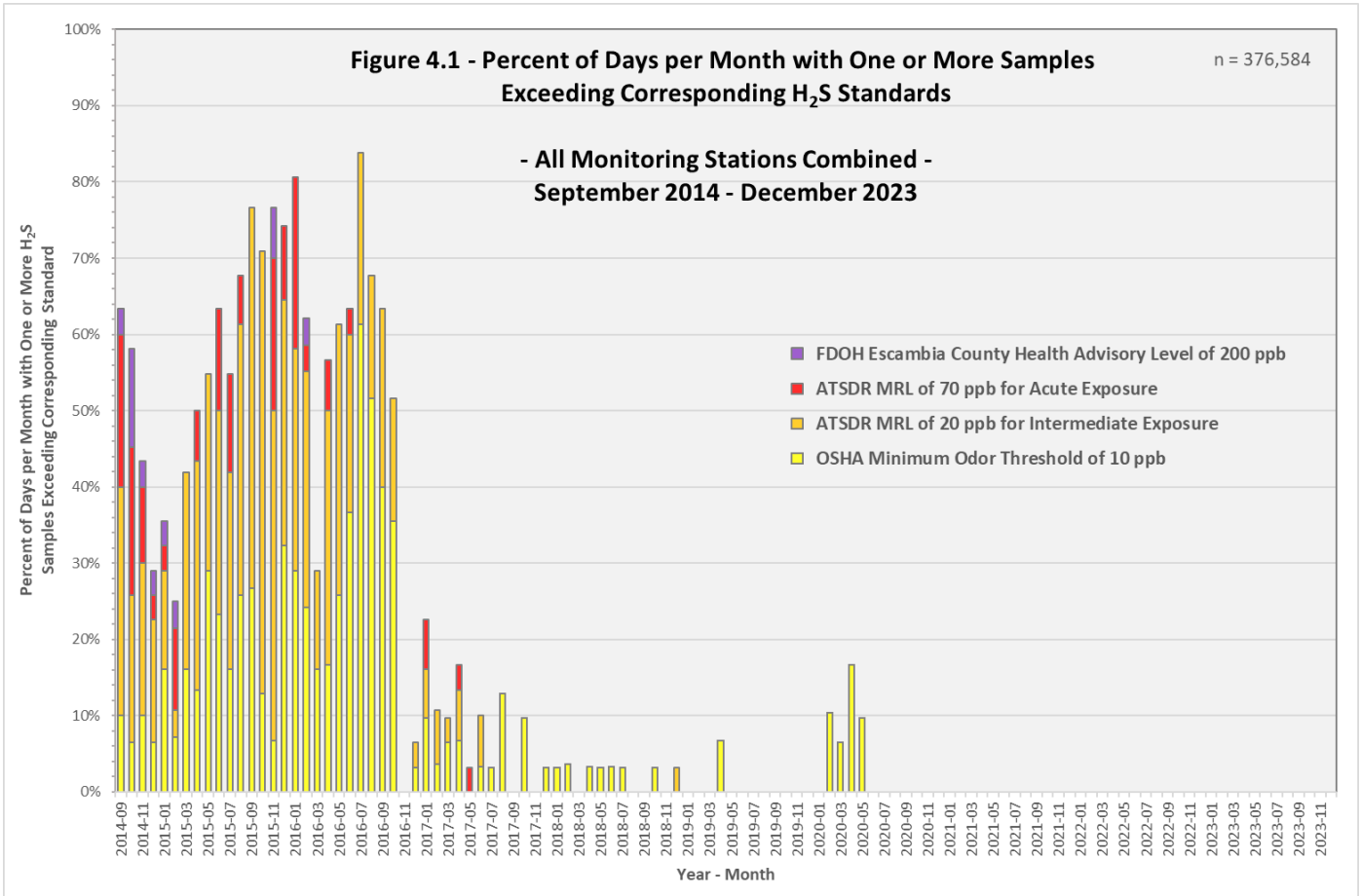


Figure 4.1 - Percent of Days per Month with One or More Samples Exceeding Corresponding H_2S Standards
- All Monitoring Stations Combined -
September 2014 - December 2023
n = 376,584
Percent of Days per Month with One or More H_2S Samples Exceeding Corresponding Standard
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

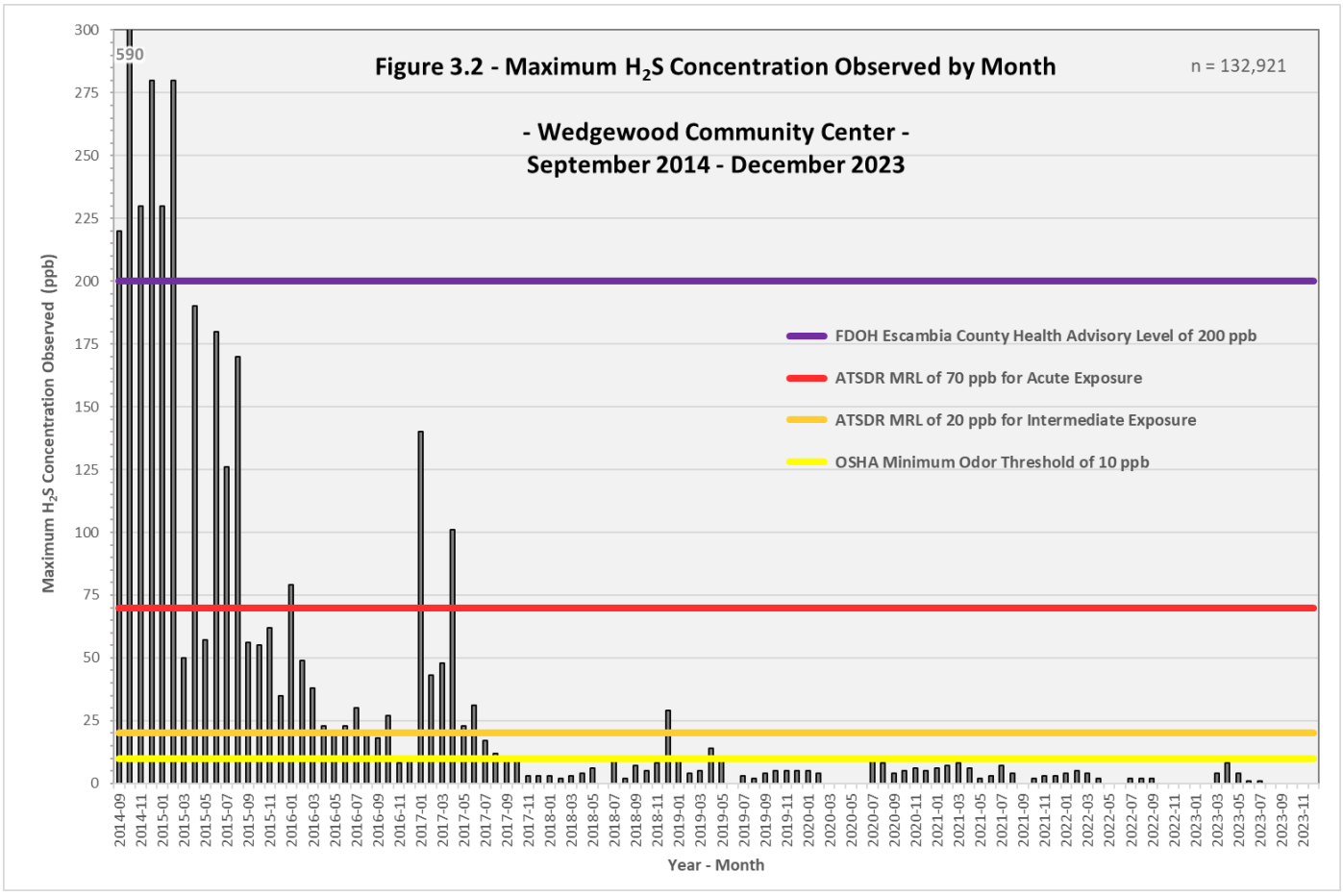


Figure 3.2 - Maximum H_2S Concentration Observed by Month
n = 132,921
- Wedgewood Community Center -
September 2014 - December 2023
590
Maximum H_2S Concentration Observed (ppb)
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

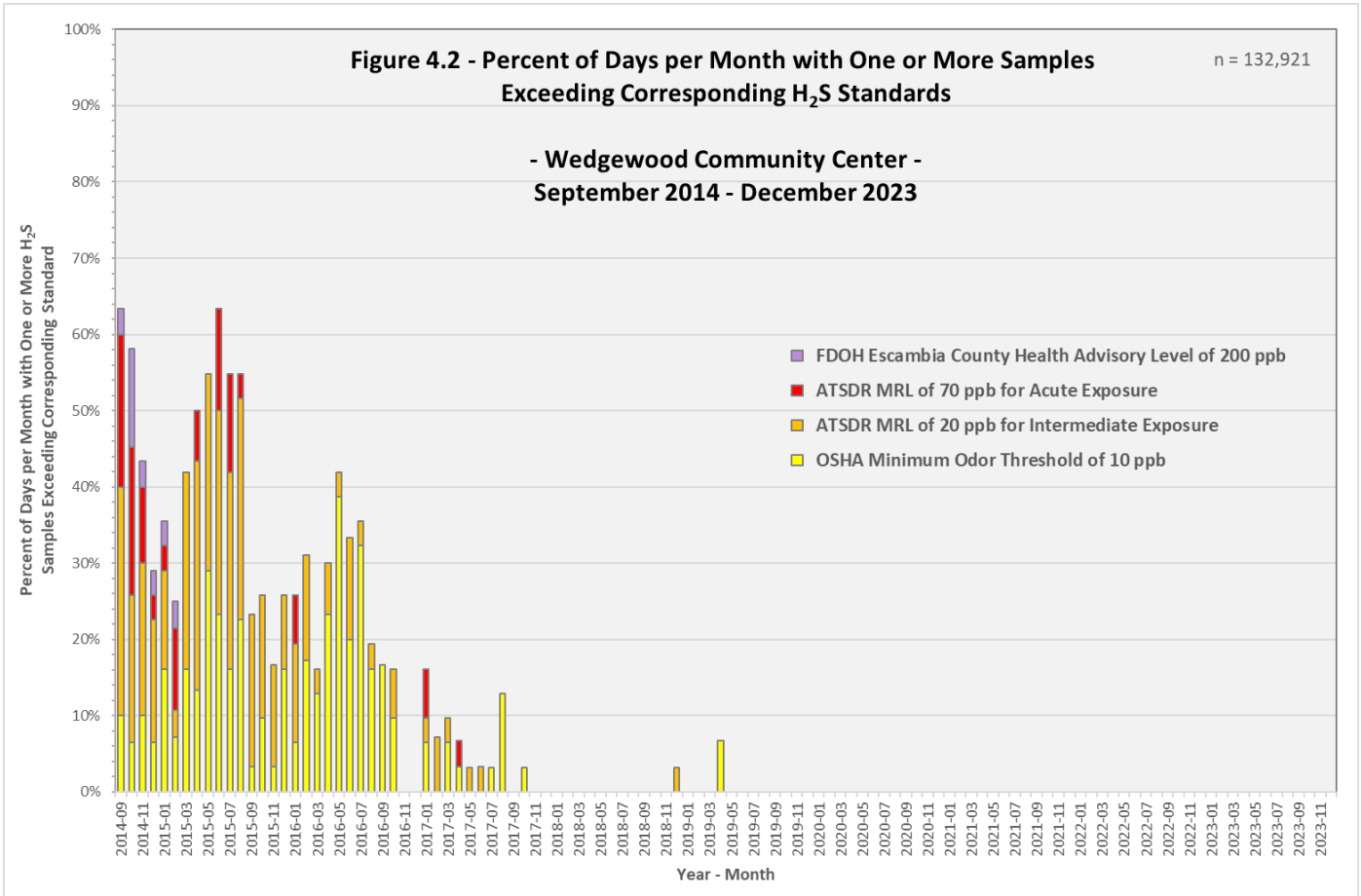


Figure 4.2 - Percent of Days per Month with One or More Samples Exceeding Corresponding H_2S Standards
n = 132,921
- Wedgewood Community Center -
September 2014 - December 2023
Percent of Days per Month with One or More H_2S Samples Exceeding Corresponding Standard
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

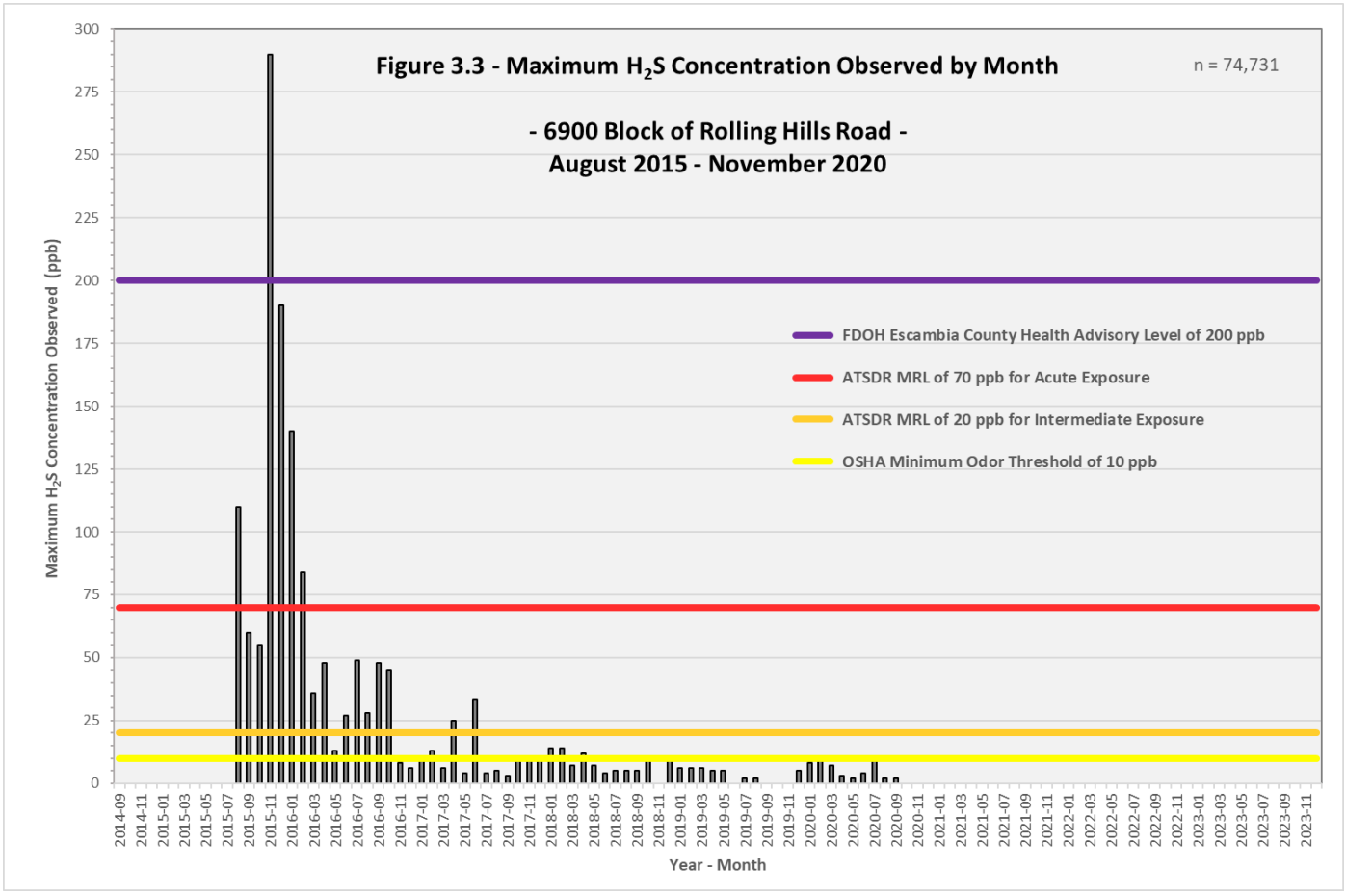


Figure 3.3 - Maximum H_2S Concentration Observed by Month
n = 74,731
- 6900 Block of Rolling Hills Road -
August 2015 - November 2020
Maximum H_2S Concentration Observed (ppb)
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

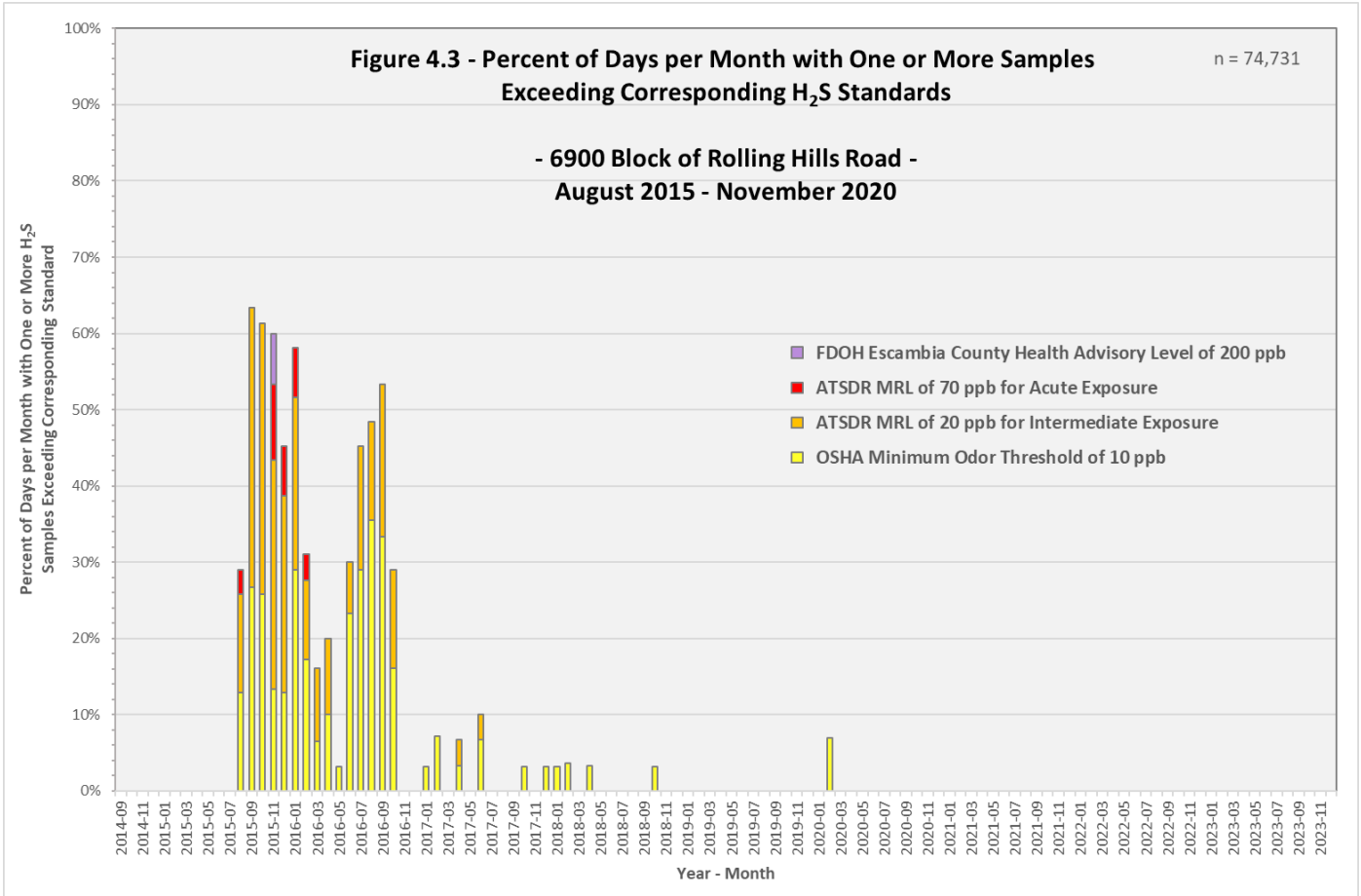


Figure 4.3 - Percent of Days per Month with One or More Samples Exceeding Corresponding H_2S Standards
n = 74,731
- 6900 Block of Rolling Hills Road -
August 2015 - November 2020
Percent of Days per Month with One or More H_2S Samples Exceeding Corresponding Standard
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

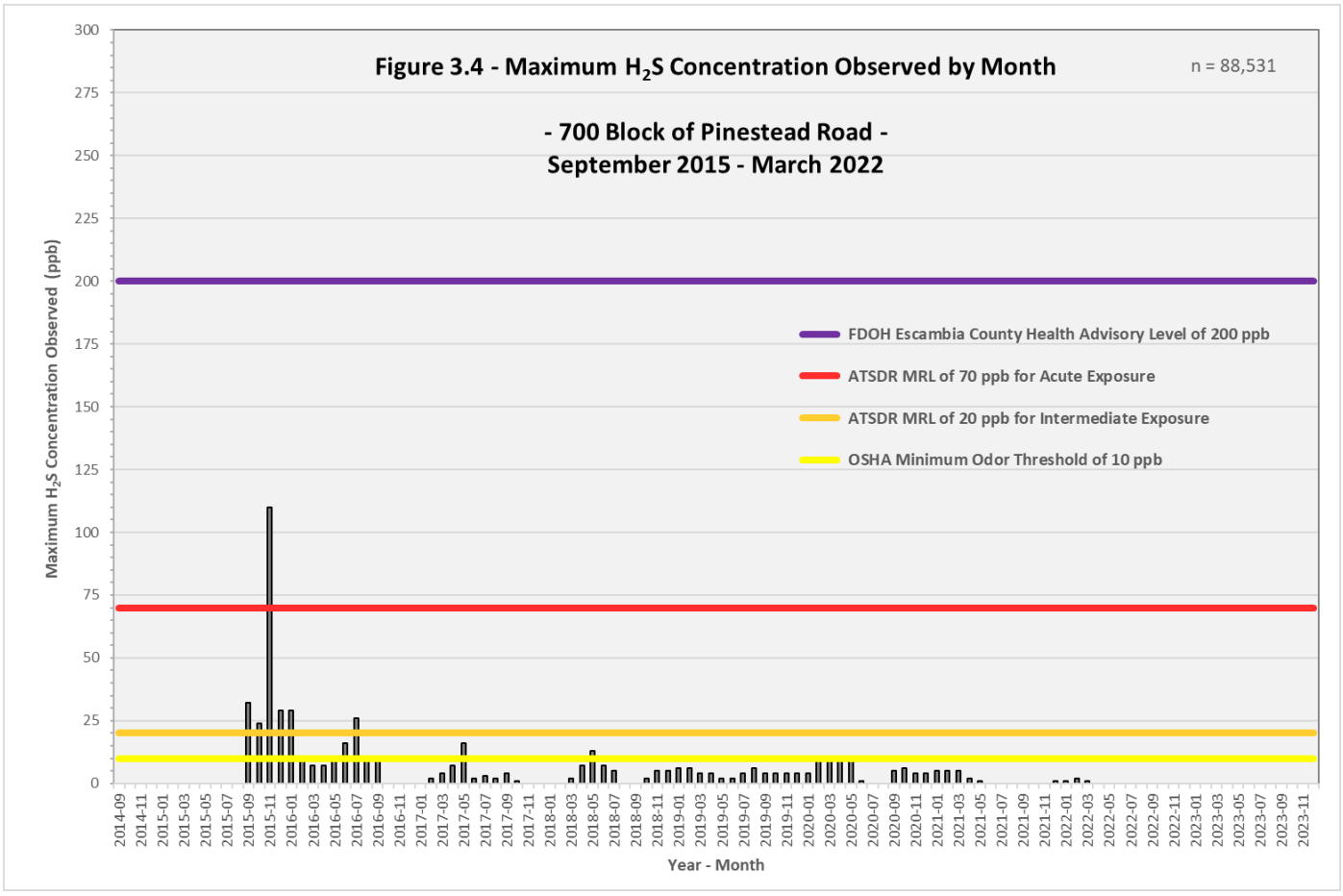


Figure 3.4 - Maximum H_2S Concentration Observed by Month
n = 88,531
- 700 Block of Pinestead Road -
September 2015 - March 2022
Maximum H_2S Concentration Observed (ppb)
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

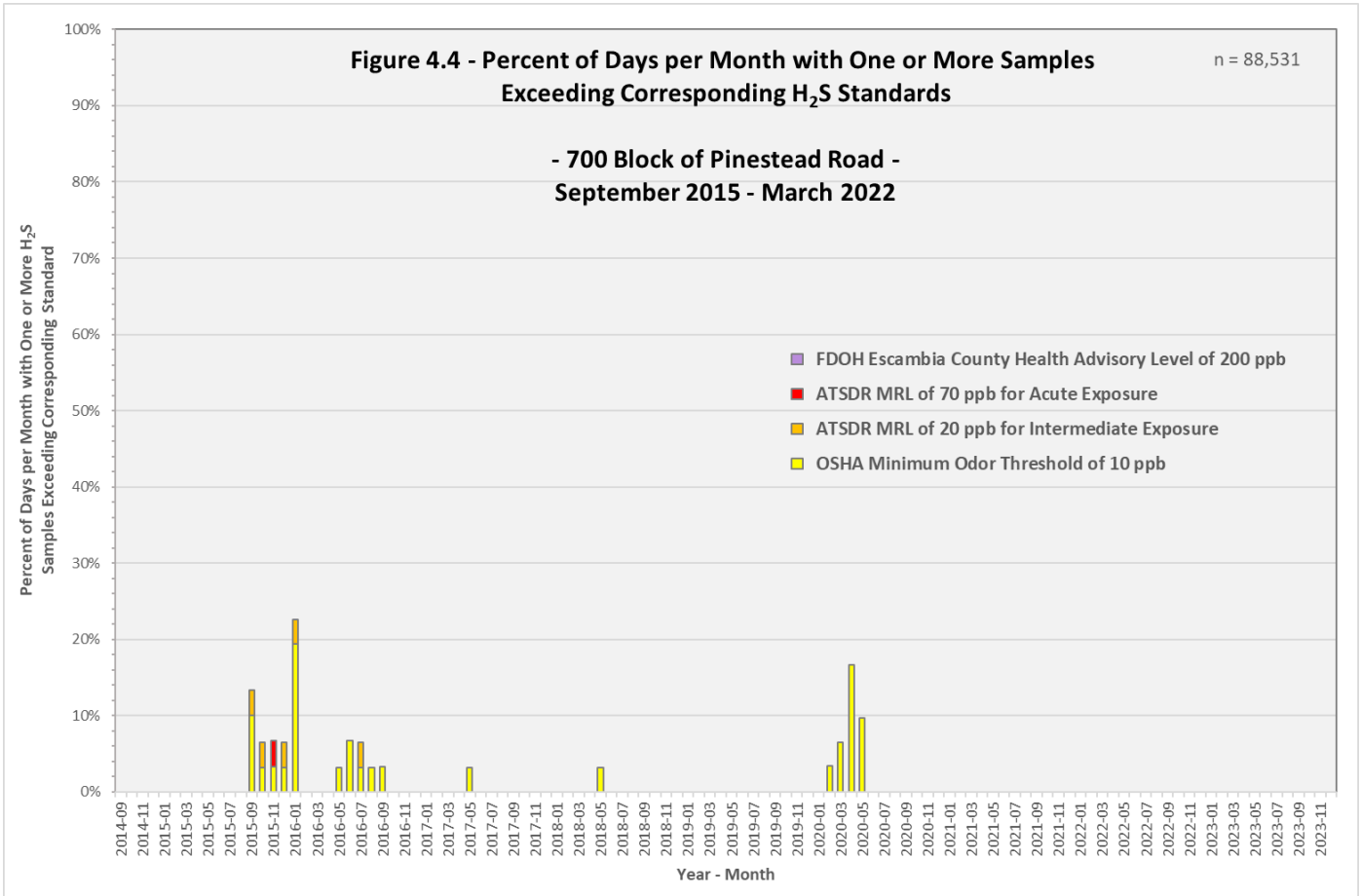


Figure 4.4 - Percent of Days per Month with One or More Samples Exceeding Corresponding H_2S Standards
n = 88,531
- 700 Block of Pinestead Road -
September 2015 - March 2022
Percent of Days per Month with One or More H_2S Samples Exceeding Corresponding Standard
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

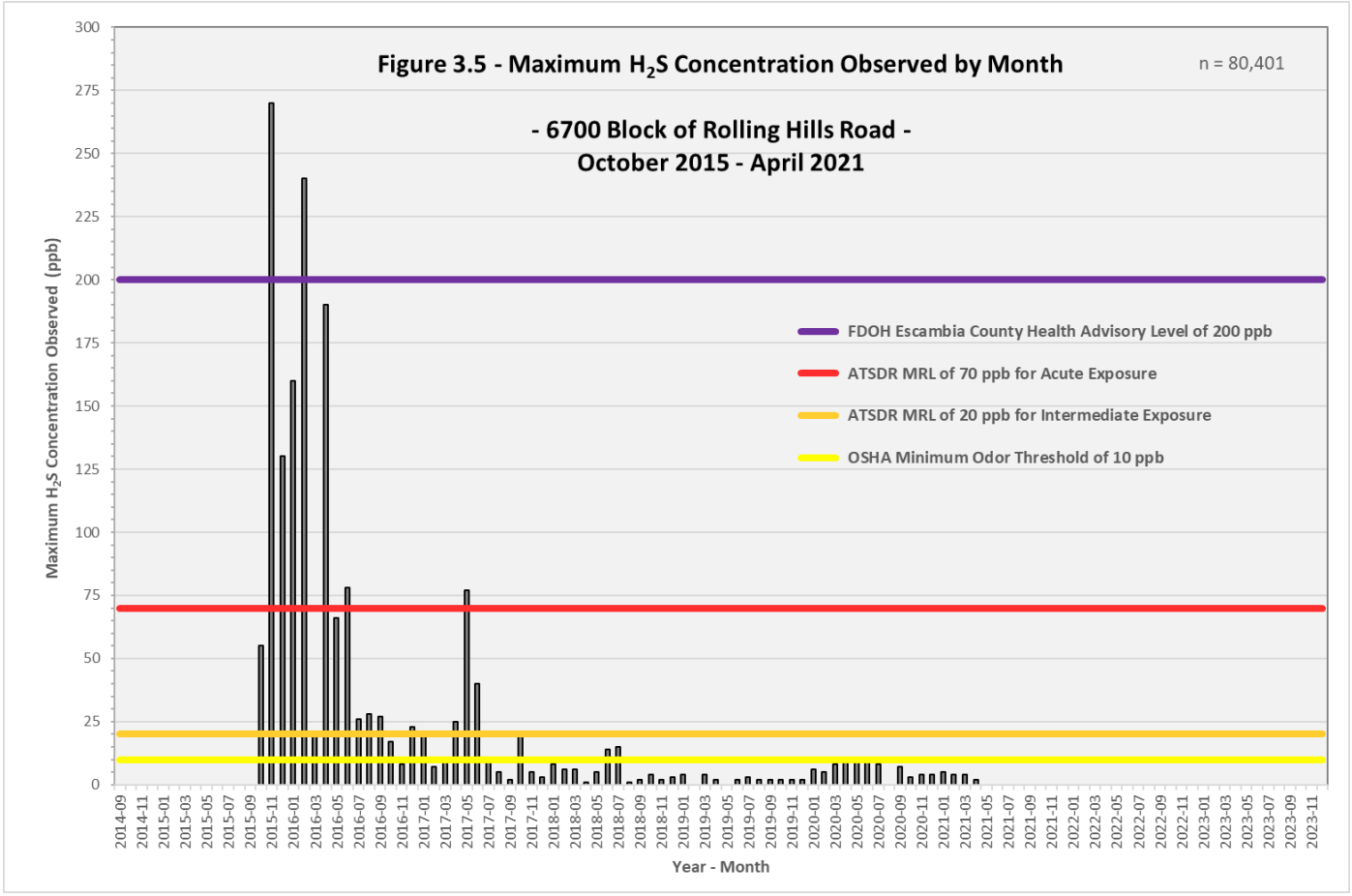


Figure 3.5 - Maximum H_2S Concentration Observed by Month
n = 80,401
- 6700 Block of Rolling Hills Road -
October 2015 - April 2021
Maximum H_2S Concentration Observed (ppb)
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

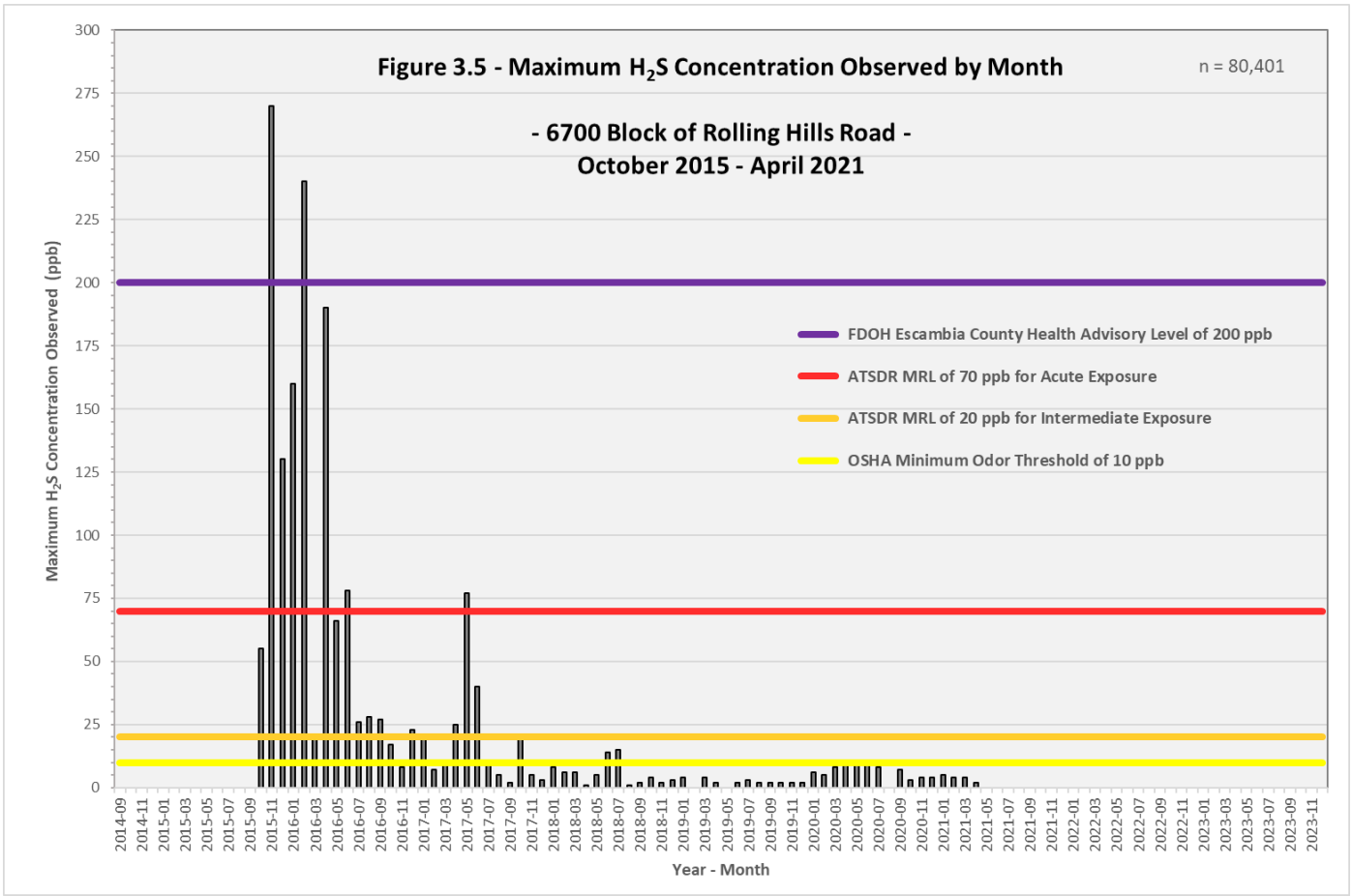


Figure 3.5 - Maximum H_2S Concentration Observed by Month
n = 80,401
- 6700 Block of Rolling Hills Road -
October 2015 - April 2021
Maximum H_2S Concentration Observed (ppb)
Year - Month
FDOH Escambia County Health Advisory Level of 200 ppb
ATSDR MRL of 70 ppb for Acute Exposure
ATSDR MRL of 20 ppb for Intermediate Exposure
OSHA Minimum Odor Threshold of 10 ppb

Outdoor Air Quality

Particulates associated with Recycling Facilities

Tables and Figures

Summarizing Monitoring Results

May 2016 – December 2023

Figure 5: Location of County Permitted Recycling Facilities

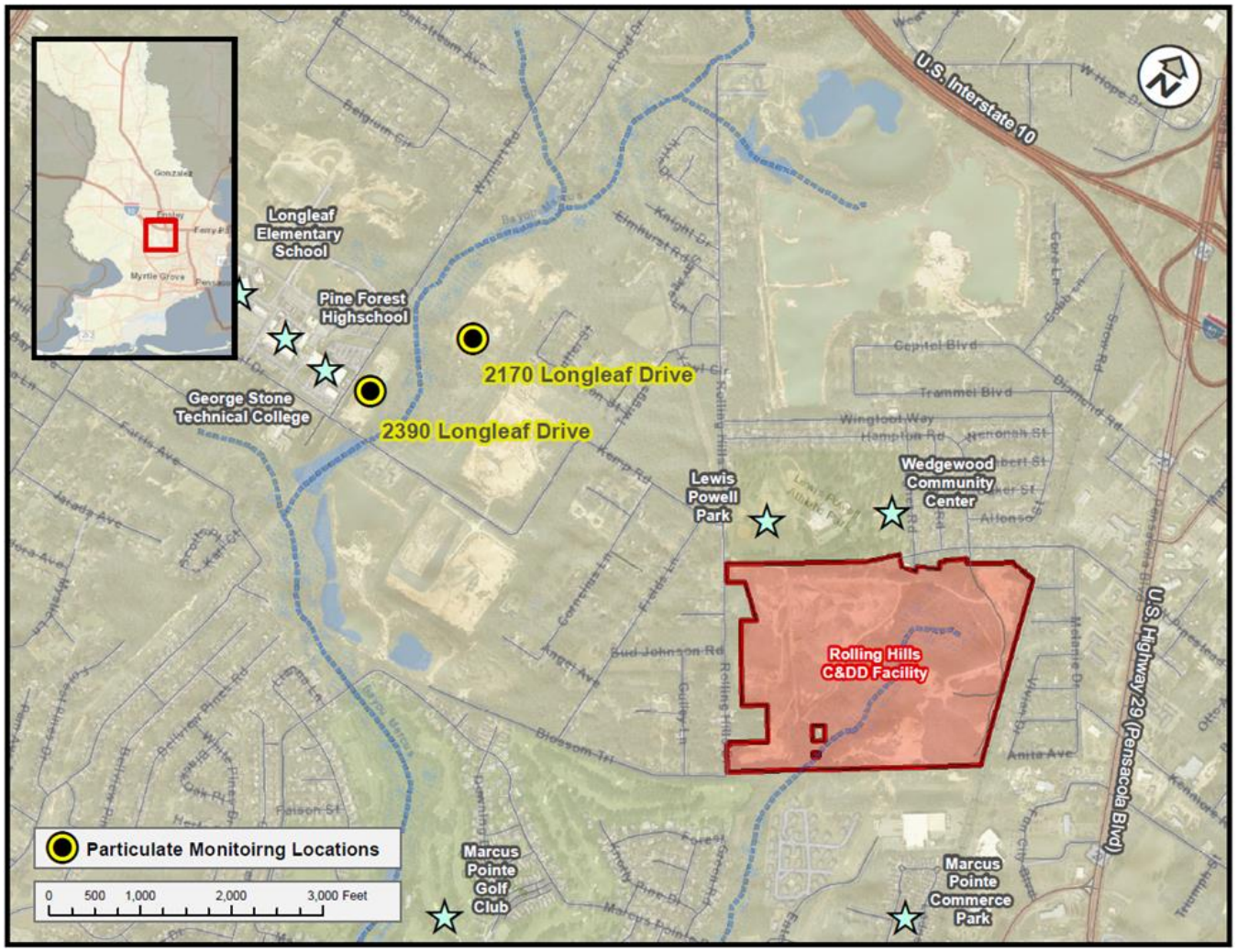


Table 2.1: Particulate Monitoring Data (May 23, 2016, through September 16, 2019) Collected for Escambia County Permitted Recycling Facility Located at 2390 Longleaf Drive, Pensacola, FL 32514 (Sunbelt Crushing LLC)

Date / Start Time	Location	Latitude	Longitude	PM_1	$PM_{2.5}$	PM_{Resp}	PM_{10}	PM_{Total}	Temp	Relative Humidity	Wind Speed	Wind Direction
05/23/2016 09:35	Downwind	30.48715	-87.28969	11	12	12	15	26	26.0	47	0.0	SE
06/07/2016 09:44	Downwind	30.48661	-87.28969	28	30	32	43	73	28.7	65	2.2	E
08/15/2016 13:23	Downwind	30.48702	-87.28961	8	9	10	11	16	32.0	68	3.0	ESE
09/02/2016 12:54	Downwind	30.48715	-87.28966	31	31	31	32	35	32.0	57	7.0	NNW
11/17/2016 12:42	Downwind	30.50248	-87.25608	21	21	21	23	27	27.3	48	3.2	E
12/15/2016 09:56	Downwind	30.48645	-87.28899	30	32	33	38	48	10.6	65	10.0	NW
03/27/2017 15:33	Downwind	30.48922	-87.28971	8	9	10	10	11	23.9	74	9.0	SE
05/16/2017 14:13	Downwind	30.48719	-87.28967	17	17	18	19	20	30.9	48	9.0	SE
07/31/2017 10:56	Downwind	30.48719	-87.28960	6	6	6	7	8	30.1	54	2.0	E
09/07/2017 09:45	Downwind	30.48677	-87.28961	15	16	17	19	31	21.1	61	6.0	NE
09/11/2017 10:04	Downwind	30.48659	-87.28891	28	30	32	43	56	19.4	79	8.0	NW
10/17/2017 17:01	Downwind	30.48716	-87.28998	29	29	29	30	34	25.1	54	7.0	ENE
10/30/2017 10:41	Downwind	30.48682	-87.28972	9	10	10	11	17	16.8	43	0.0	WNW
11/02/2017 14:54	Downwind	30.48879	-87.28900	6	7	7	7	8	25.9	73	7.0	SSE
11/02/2017 16:03	Upwind	30.48632	-87.28892	8	8	9	11	25	25.2	73	11.0	SSE
04/05/2018 09:10	Downwind	30.48662	-87.28966	8	8	8	8	10	11.8	60	0.0	N
04/05/2018 10:19	Upwind	30.48826	-87.28888	5	5	5	6	9	15.5	42	0.0	NE
06/04/2018 12:10	Downwind	30.48644	-87.28884	23	24	25	30	57	31.3	56	1.0	NNE
06/04/2018 11:02	Upwind	30.48876	-87.28961	15	16	16	18	24	29.5	62	4.0	NNW
09/18/2018 10:27	Downwind	30.48691	-87.28965	18	18	18	19	26	32.3	72	0.0	N
09/18/2018 11:35	Upwind	30.48804	-87.28885	18	18	18	19	20	33.2	64	1.0	SSE
12/04/2018 09:18	Downwind	30.48645	-87.28869	13	13	14	17	20	8.1	74	0.0	N
12/04/2018 09:18	Upwind	30.48782	-87.28967	9	9	9	10	12	9.7	68	2.0	NE
03/13/2019 13:33	Downwind	30.48789	-87.28967	19	22	27	44	65	21.1	84	1.0	SSE
03/13/2019 13:10	Upwind	30.48651	-87.28887	16	18	23	31	39	20.8	85	8.0	SSE
04/10/2019 10:16	Downwind	30.48648	-87.28892	9	9	10	12	15	25.6	66	0.0	NNW
04/10/2019 11:26	Upwind	30.48837	-87.28902	8	9	9	10	11	27.2	59	0.0	W
05/23/2019 09:16	Downwind	30.48690	-87.28959	20	21	24	38	59	28.9	78	0.0	E
05/23/2019 10:33	Upwind	30.48643	-87.28889	12	13	14	17	21	30.6	71	0.0	SSW
07/03/2019 08:10	Downwind	30.48675	-87.28867	24	25	28	37	48	25.6	92	5.0	WSW
07/03/2019 07:55	Upwind	30.48682	-87.28971	22	22	24	26	28	25.6	92	6.0	W
08/27/2019 15:26	Downwind	30.48638	-87.28873	8	9	10	12	13	26.9	88	3.0	NNW
08/27/2019 15:00	Upwind	30.48723	-87.28956	14	14	15	17	17	27.9	85	6.0	NNE
09/16/2019 11:12	Downwind	30.48755	-87.28964	13	13	14	19	24	31.6	67	11.0	ESE
09/16/2019 12:29	Upwind	30.48761	-87.28954	16	17	19	32	54	31.9	69	3.0	SE

Notes:

- Particulate data presented as micrograms per cubic meter of air ($\mu g/m^3$).
- Temperature presented as degrees centigrade (°C); Wind Speed presented as mile per hour (mph).
- PM – Particulate matter is a mixture of airborne solid particles and liquid droplets. Sources of PM can be anthropogenic and naturally occurring. Examples of PM include dust, smoke, soot, fly ash, aerosols, fumes, mists, and condensing vapors. PM can be further defined by particle size. PM_1 – particulates having a diameter less than 1.0 micrometers; $PM_{2.5}$ – particulates having a diameter less than 2.5 micrometers; PM_{Resp} – particulates having a diameter less than 4.0 micrometers; PM_{10} – particulates having a diameter less than 10 micrometers; PM_{Total} – combined total of all particulates detected by analyzer.
- Meteorological data presented represents area conditions at the start of testing.
- Table does not include particulate monitoring data from 8/3/2016 because field technician documented likely interferent during sampling; Table does not include particulate monitoring data from 12/14/2016 because field technician documented a relative humidity level above the monitoring equipment manufacturer's recommended range.

Table 2.2: Particulate Monitoring Data from (November 21, 2019, through December 21, 2021) Collected for Escambia County Permitted Recycling Facility Located at 2390 Longleaf Drive, Pensacola, FL 32514 (Sunbelt Crushing LLC)

Date / Start Time	Location	Latitude	Longitude	PM_1	$PM_{2.5}$	PM_{Resp}	PM_{10}	PM_{Total}	Temp	Relative Humidity	Wind Speed	Wind Direction
11/21/2019 11:30	Downwind	30.48834	-87.28959	21	21	22	25	28	19.9	76	13.0	ESE
11/21/2019 11:15	Upwind	30.48657	-87.28878	35	36	39	57	82	19.9	76	12.0	E
01/08/2020 09:00	Downwind	30.48679	-87.28968	8	8	8	10	11	9.4	56	5.0	NE
01/08/2020 10:08	Upwind	30.48640	-87.28875	8	8	8	11	13	12.4	46	8.0	E
03/02/2020 11:00	Downwind	30.48878	-87.28967	13	14	16	18	19	20.5	77	9.0	SE
03/02/2020 12:11	Upwind	30.48640	-87.28875	13	15	16	18	20	19.7	85	6.0	SSE
04/14/2020 13:57	Downwind	30.48644	-87.28872	31	33	36	47	57	26.3	56	4.0	NW
04/14/2020 15:21	Upwind	30.48759	-87.28971	18	18	18	19	20	26.1	61	4.0	NW
06/18/2020 12:34	Downwind	30.48771	-87.28967	20	20	20	21	22	29.7	52	1.0	NE
06/18/2020 13:42	Upwind	30.48644	-87.28872	30	30	30	32	34	29.4	67	5.0	SSE
08/10/2020 11:43	Downwind	30.48951	-87.28957	10	11	12	13	14	31.6	68	2.0	NW
08/10/2020 12:50	Upwind	30.48644	-87.28894	22	23	26	35	45	31.5	68	3.0	S
09/10/2020 10:29	Downwind	30.48687	-87.28964	10	11	11	14	16	29.1	77	5.0	NE
09/10/2020 10:10	Upwind	30.47638	-87.28873	15	15	16	21	26	28.3	79	4.0	NE
10/20/2020 12:54	Downwind	30.48700	-87.28960	7	8	8	9	10	27.6	75	5.0	ENE
10/20/2020 11:12	Upwind	30.48640	-87.28870	11	12	13	15	19	25.7	80	11.0	E
12/28/2020 11:59	Downwind	30.48908	-87.28955	2	2	2	3	3	18.4	66	1.0	SE
12/28/2020 13:11	Upwind	30.48670	-87.28861	1	1	2	2	3	18.5	67	1.0	ESE
02/08/2021 11:31	Downwind	30.48892	-87.28945	6	6	6	7	7	12.9	81	19.0	SE
02/08/2021 12:38	Upwind	30.48647	-87.28864	6	6	7	8	10	14.2	76	9.0	ESE
03/29/2021 14:12	Downwind	30.48708	-87.28963	2	2	3	4	10	22.5	41	2.0	ENE
05/13/2021 13:34	Downwind	30.48683	-87.28969	7	7	7	9	11	19.6	87	5.0	ENE
05/13/2021 14:49	Upwind	30.41865	-87.28755	5	5	6	7	9	19.8	87	10.0	ENE
06/28/2021 14:08	Downwind	30.48821	-87.28959	9	9	10	11	13	29.2	74	13.0	ESE
06/28/2021 15:14	Upwind	30.48645	-87.28871	12	12	13	17	21	27.9	79	8.0	E
08/05/2021 10:41	Downwind	30.48695	-87.28968	19	19	20	21	22	28.8	80	8.0	ENE
08/05/2021 11:46	Upwind	30.48638	-87.28873	15	15	16	17	19	29.7	69	9.0	ENE
09/07/2021 12:45	Downwind	30.48804	-87.28963	2	2	3	4	10	27.9	79	12.0	SE
09/07/2021 12:28	Upwind	30.48635	-87.28872	34	34	36	41	54	28.2	80	11.0	E
11/01/2021 08:55	Downwind	30.48688	-87.28971	20	21	21	23	25	15.3	86	3.0	NNE
11/01/2021 10:18	Upwind	30.48647	-87.28877	15	15	16	17	18	18.6	77	4.0	ENE
12/16/2021 09:01	Downwind	30.48715	-87.28919	18	19	20	23	25	16.8	97	7.0	E
12/16/2021 10:08	Upwind	30.48643	-87.28870	15	16	17	19	20	19.9	93	8.0	ESE
12/21/2021 09:07	Downwind	30.48641	-87.28898	16	16	17	18	19	8.3	92	2.0	NNW
12/21/2021 10:27	Upwind	30.48811	-87.28965	17	17	17	18	18	9.8	88	5.0	NNW

Notes:

- Particulate data presented as micrograms per cubic meter of air (µg/m³).
- Temperature presented as degrees centigrade (°C); Wind Speed presented as mile per hour (mph).
- PM – Particulate matter is a mixture of airborne solid particles and liquid droplets. Sources of PM can be anthropogenic and naturally occurring. Examples of PM include dust, smoke, soot, fly ash, aerosols, fumes, mists, and condensing vapors. PM can be further defined by particle size. PM_1 – particulates having a diameter less than 1.0 micrometers; $PM_{2.5}$ – particulates having a diameter less than 2.5 micrometers; PM_{Resp} – particulates having a diameter less than 4.0 micrometers; PM_{10} – particulates having a diameter less than 10 micrometers; PM_{Total} – combined total of all particulates detected by analyzer.
- Meteorological data presented represents area conditions at the start of testing.

Table 2.3: Particulate Monitoring Data (January 31, 2022, through November 29, 2023) Collected for Escambia County Permitted Recycling Facility Located at 2390 Longleaf Drive, Pensacola, FL 32514 (Sunbelt Crushing LLC)

Date / Start Time	Location	Latitude	Longitude	PM_1	$PM_{2.5}$	PM_{Resp}	PM_{10}	PM_{Total}	Temp	Relative Humidity	Wind Speed	Wind Direction
01/31/2022 10:04	Downwind	30.48736	-87.28867	5	5	5	6	6	15.3	68	10.0	W
01/31/2022 11:11	Upwind	30.48708	-87.28965	7	7	7	8	10	16.7	59	4.0	NW
03/17/2022 12:59	Downwind	30.48879	-87.28958	12	12	12	13	14	20.4	67	2.0	SSE
03/17/2022 14:11	Upwind	30.48652	-87.28877	12	12	12	13	14	21.2	68	10.0	SE
04/27/2022 09:52	Downwind	30.48091	-87.28970	9	9	9	12	14	18.5	61	4.0	NNE
04/27/2022 10:57	Upwind	30.48648	-87.28888	7	8	9	11	14	21.1	57	8.0	NW
06/06/2022 13:13	Downwind	30.48928	-87.28959	12	12	12	13	13	29.8	75	8.0	SSE
06/06/2022 14:20	Upwind	30.48648	-87.28881	8	9	9	11	11	30.2	73	12.0	SSE
07/26/2022 10:46	Downwind	30.48990	-87.28959	8	9	9	10	11	29.3	81	3.0	SE
07/26/2022 10:28	Upwind	30.48645	-87.28873	15	16	17	18	19	29.4	82	5.0	SE
09/14/2022 08:58	Downwind	30.48679	-87.28963	12	12	12	15	17	21.8	72	7.0	NE
09/14/2022 10:09	Upwind	30.49050	-87.28942	8	9	9	11	13	24.9	62	3.0	NNE
10/24/2022 09:51	Downwind	30.48709	-87.28970	14	14	15	17	24	21.4	71	10.0	ESE
10/24/2022 10:59	Upwind	30.48642	-87.38876	14	15	15	20	39	22.2	73	7.0	SE
12/15/2022 11:25	Downwind	30.48636	-87.28881	4	4	4	5	7	13.8	64	9.0	WNW
12/15/2022 12:39	Upwind	30.48881	-87.28966	4	4	4	4	5	15.9	48	3.0	WNW
01/25/2023 11:27	Downwind	30.48726	-87.28886	6	6	6	6	8	15.1	79	7.0	WSW
01/25/2023 12:34	Upwind	30.48758	-87.28965	6	7	7	7	8	15.4	78	5.0	WSW
03/16/2023 11:04	Downwind	30.48922	-87.28965	20	21	21	24	30	18.9	69	17.0	ESE
03/16/2023 12:09	Upwind	30.48646	-87.28872	34	35	37	52	96	18.7	71	12.0	SE
04/20/2023 11:03	Downwind	30.48908	-87.28960	14	15	16	18	23	23.8	75	19.0	SE
04/20/2023 12:10	Upwind	30.48647	-87.28868	16	17	18	24	40	24.5	74	12.0	SE
06/07/2023 10:50	Downwind	30.48937	-87.28959	11	12	12	13	16	28.3	67	1.0	NW
06/07/2023 12:02	Upwind	30.48691	-87.28963	12	12	13	15	21	27.5	74	12.0	ESE
09/20/2023 10:25	Downwind	30.48147	-87.27868	35	35	36	44	72	25.9	64	7.0	E
09/20/2023 10:04	Upwind	30.48718	-87.28877	33	33	34	37	50	25.4	64	6.0	ENE
10/10/2023 09:24	Downwind	30.48746	-87.28869	15	16	16	20	35	21.8	73	5.0	WNW
10/10/2023 10:48	Upwind	30.48720	-87.28965	11	11	12	16	47	24.7	61	2.0	W
11/29/2023 10:27	Downwind	30.48743	-87.28976	8	8	8	10	18	10.9	49	5.0	NE
11/29/2023 11:31	Upwind	30.48719	-87.28881	9	9	9	11	19	13.2	45	5.0	NW

Notes:

- Particulate data presented as micrograms per cubic meter of air ($\mu g/m^3$).
- Temperature presented as degrees centigrade (°C); Wind Speed presented as mile per hour (mph).
- PM – Particulate matter is a mixture of airborne solid particles and liquid droplets. Sources of PM can be anthropogenic and naturally occurring. Examples of PM include dust, smoke, soot, fly ash, aerosols, fumes, mists, and condensing vapors. PM can be further defined by particle size. PM_1 – particulates having a diameter less than 1.0 micrometers; $PM_{2.5}$ – particulates having a diameter less than 2.5 micrometers; PM_{Resp} – particulates having a diameter less than 4.0 micrometers; PM_{10} – particulates having a diameter less than 10 micrometers; PM_{Total} – combined total of all particulates detected by analyzer.
- Meteorological data presented represents area conditions at the start of testing.
- Table does not include particulate monitoring data from 8/24/2023 because field technician documented likely interferent during sampling.

Table 3.1: Particulate Monitoring Data (December 4, 2018, through September 7, 2021) Collected for Escambia County Permitted Recycling Facility Located at 2170 Longleaf Drive, Pensacola, FL 32514 (Eager Beaver Professional Tree Care, LLC)

Date / Start Time	Location	Latitude	Longitude	PM_1	$PM_{2.5}$	PM_{Resp}	PM_{10}	PM_{Total}	Temp	Relative Humidity	Wind Speed	Wind Direction
12/04/2018 11:03	Downwind	30.48767	-87.28668	8	8	9	10	11	10.3	64	6	N
12/04/2018 12:17	Upwind	30.49230	-87.28690	7	7	8	9	9	11.9	60	5	N
03/20/2019 14:30	Downwind	30.49229	-87.28689	25	25	25	28	30	20.5	38	0	S
03/20/2019 15:37	Upwind	30.48764	-87.28678	27	27	28	34	46	20.6	40	0	SSW
07/09/2019 08:58	Downwind	30.48994	-87.28582	21	21	23	26	29	28.9	79	5	WNW
07/09/2019 08:41	Upwind	30.49240	-87.28692	24	25	26	29	30	28.3	80	6	NW
09/18/2019 10:10	Downwind	30.49004	-87.28578	24	24	26	32	41	30.1	73	7	W
09/18/2019 11:20	Upwind	30.49199	-87.28679	21	21	22	25	28	32.1	67	7	W
11/21/2019 09:28	Downwind	30.49236	-87.28683	27	28	28	30	31	17.9	75	9	E
11/21/2019 10:57	Upwind	30.49007	-87.28590	21	21	22	24	25	19.8	75	11	ESE
01/09/2020 10:51	Downwind	30.49230	-87.28941	16	17	19	22	24	16.4	80	12	E
01/09/2020 11:57	Upwind	30.48740	-87.28661	12	13	15	16	18	17.1	80	12	E
03/17/2020 09:22	Downwind	30.48885	-87.28960	23	23	24	27	30	20.8	90	2	ENE
03/17/2020 10:29	Upwind	30.48659	-87.28710	19	19	20	21	25	23.2	79	1	ESE
05/13/2020 10:30	Downwind	30.48890	-87.28959	18	20	22	26	29	23.4	82	17	E
05/13/2020 11:36	Upwind	30.48651	-87.28701	15	17	18	22	25	24.9	81	15	ESE
07/20/2020 13:33	Downwind	30.49151	-87.28940	5	5	6	7	8	32.3	68	3	SE
07/20/2020 14:46	Upwind	30.48626	-87.28748	4	5	5	6	7	32.0	66	3	SE
09/03/2020 11:41	Downwind	30.49606	-87.28510	28	31	36	45	46	30.8	67	6	W
09/03/2020 12:51	Upwind	30.48631	-87.28766	27	30	35	44	46	32.2	68	2	S
10/21/2020 13:26	Downwind	30.49110	-87.28960	12	12	13	16	23	27.6	75	9	NNE
10/21/2020 14:41	Upwind	30.49140	-87.28490	9	9	9	11	12	27.8	72	6	ENE
12/28/2020 10:15	Downwind	30.49034	-87.28947	4	4	4	5	6	16.1	71	3	ESE
12/28/2020 11:37	Upwind	30.49139	-87.28468	3	3	3	4	4	18.3	67	4	ESE
02/08/2021 13:15	Downwind	30.49199	-87.28953	7	7	7	8	8	14.3	78	17	E
02/08/2021 12:56	Upwind	30.49142	-87.28481	6	6	6	7	8	14.1	78	16	SE
03/29/2021 12:35	Downwind	30.49028	-87.28955	7	7	7	9	11	19.5	46	7	E
03/29/2021 12:09	Upwind	30.49133	-87.28488	10	10	11	12	16	18.9	50	6	E
05/06/2021 10:37	Downwind	30.49060	-87.28953	8	8	9	10	11	22.8	74	10	NNE
05/06/2021 11:49	Upwind	30.49599	-87.28504	7	7	8	9	10	23.6	70	13	NNE
06/28/2021 16:05	Downwind	30.49185	-87.28952	10	10	11	13	15	28.1	79	7	ESE
06/28/2021 17:13	Upwind	30.48606	-87.28486	10	11	11	12	12	28.5	78	12	ESE
07/13/2021 10:28	Downwind	30.49193	-87.89548	6	6	7	8	8	28.4	80	7	ESE
07/13/2021 11:37	Upwind	30.49139	-87.28485	6	6	7	7	9	29.3	76	10	ESE
09/07/2021 14:48	Downwind	30.49460	-87.28948	0	2	3	4	10	28.6	76	6	S
09/07/2021 14:01	Upwind	30.48607	-87.28500	2	2	3	4	10	28.3	81	8	SSE

Notes:

- Particulate data presented as micrograms per cubic meter of air ($\mu g/m^3$).
- Temperature presented as degrees centigrade (°C); Wind Speed presented as mile per hour (mph).
- PM – Particulate matter is a mixture of airborne solid particles and liquid droplets. Sources of PM can be anthropogenic and naturally occurring. Examples of PM include dust, smoke, soot, fly ash, aerosols, fumes, mists, and condensing vapors. PM can be further defined by particle size. PM_1 – particulates having a diameter less than 1.0 micrometers; $PM_{2.5}$ – particulates having a diameter less than 2.5 micrometers; PM_{Resp} – particulates having a diameter less than 4.0 micrometers; PM_{10} – particulates having a diameter less than 10 micrometers; PM_{Total} – combined total of all particulates detected by analyzer.
- Meteorological data presented represents area conditions at the start of testing.

Table 3.2: Particulate Monitoring Data (November 1, 2021, through November 29, 2023) Collected for Escambia County Permitted Recycling Facility Located at 2170 Longleaf Drive, Pensacola, FL 32514 (Eager Beaver Professional Tree Care, LLC)

Date / Start Time	Location	Latitude	Longitude	PM_1	$PM_{2.5}$	PM_{Resp}	PM_{10}	PM_{Total}	Temp	Relative Humidity	Wind Speed	Wind Direction
11/01/2021 10:41	Downwind	30.49060	-87.28958	13	13	14	14	15	19.1	73	4	ESE
11/01/2021 12:01	Upwind	30.49603	-87.28504	11	11	12	12	13	20.4	67	4	ENE
12/16/2021 10:47	Downwind	30.49191	-87.28954	14	15	15	17	18	20.6	91	7	E
12/16/2021 10:25	Upwind	30.49134	-87.28480	15	16	17	18	19	20.1	91	4	ESE
01/31/2022 11:48	Downwind	30.49143	-87.28499	7	7	7	9	11	17.3	57	4	W
01/31/2022 11:26	Upwind	30.49094	-87.28949	6	6	6	7	7	17.1	58	6	W
03/17/2022 09:56	Downwind	30.49128	-87.28946	17	17	18	18	19	17.6	75	1	WSW
03/17/2022 11:06	Upwind	30.49127	-87.28482	15	15	15	16	17	19.1	72	2	ESE
04/27/2022 11:40	Downwind	30.49052	-87.28958	4	4	5	6	8	22.1	50	7	WNW
04/27/2022 11:21	Upwind	30.49609	-87.28496	4	4	5	6	7	21.4	54	3	NW
06/06/2022 15:10	Downwind	30.49599	-87.28510	10	11	11	12	13	30.2	69	9	SSE
06/06/2022 14:39	Upwind	30.49148	-87.28483	7	8	8	9	9	30.2	68	10	S
07/26/2022 12:23	Downwind	30.49744	-87.28934	2	3	4	4	5	31.1	73	5	S
07/26/2022 11:56	Upwind	30.48607	87.28499	3	3	4	4	4	30.9	74	3	SSW
09/14/2022 10:20	Downwind	30.49050	-87.28942	7	7	8	9	10	25.3	63	4	ENE
09/14/2022 11:30	Upwind	30.49577	-87.28532	6	6	7	8	10	26.9	56	3	NE
10/24/2022 11:43	Downwind	30.49109	-87.28956	9	10	10	12	18	22.7	73	10	ESE
10/24/2022 11:19	Upwind	30.49130	-87.28480	11	11	11	13	16	22.5	73	17	E
12/15/2022 13:25	Downwind	30.49126	-87.28487	3	4	4	5	7	15.6	52	5	WNW
12/15/2022 12:55	Upwind	30.49166	-87.28959	3	3	3	4	5	15.3	55	7	WNW
01/25/2023 13:34	Downwind	30.49127	-87.28492	7	7	8	9	11	15.9	78	8	W
01/25/2023 12:51	Upwind	30.49102	-87.28952	6	6	6	7	9	15.5	78	8	WSW
03/16/2023 12:55	Downwind	30.49168	-87.28947	13	13	13	14	16	19.2	70	10	SSE
03/16/2023 12:27	Upwind	30.49137	-87.28476	25	26	26	31	49	19.0	70	4	SSE
04/20/2023 12:50	Downwind	30.49182	-87.28951	11	12	13	15	18	24.5	74	9	SE
04/20/2023 12:30	Upwind	30.49133	-87.28479	18	19	20	28	52	24.7	73	14	SSE
06/07/2023 13:40	Downwind	30.49596	-87.28483	16	17	17	19	21	24.1	88	7	SW
06/07/2023 12:02	Upwind	30.48691	-87.28963	12	12	13	15	21	27.5	74	12	ESE
09/20/2023 12:03	Downwind	30.49066	-87.27851	31	31	32	37	58	26.9	72	15	E
09/20/2023 11:41	Upwind	30.49140	-87.28483	30	31	31	34	44	27.1	67	11	E
10/10/2023 11:13	Downwind	30.49588	-87.28526	9	9	9	12	20	24.9	59	1	SSW
10/10/2023 10:48	Upwind	30.48720	-87.28965	11	11	12	16	47	24.7	61	2	W
11/29/2023 12:38	Downwind	30.49120	-87.28956	6	6	7	7	11	13.8	43	8	ENE
11/29/2023 11:57	Upwind	30.49589	-87.28503	6	7	7	7	10	13.1	45	12	NNE

Notes:

- Particulate data presented as micrograms per cubic meter of air ($\mu g/m^3$).
- Temperature presented as degrees centigrade (°C); Wind Speed presented as mile per hour (mph).
- PM – Particulate matter is a mixture of airborne solid particles and liquid droplets. Sources of PM can be anthropogenic and naturally occurring. Examples of PM include dust, smoke, soot, fly ash, aerosols, fumes, mists, and condensing vapors. PM can be further defined by particle size. PM_1 – particulates having a diameter less than 1.0 micrometers; $PM_{2.5}$ – particulates having a diameter less than 2.5 micrometers; PM_{Resp} – particulates having a diameter less than 4.0 micrometers; PM_{10} – particulates having a diameter less than 10 micrometers; PM_{Total} – combined total of all particulates detected by analyzer.
- Meteorological data presented represents area conditions at the start of testing.

Figure 6.1: Downwind $PM_{2.5}$ Results Collected for Escambia County Permitted Recycling Facility Located at 2390 Longleaf Drive, Pensacola, FL 32514 (Sunbelt Crushing, LLC)

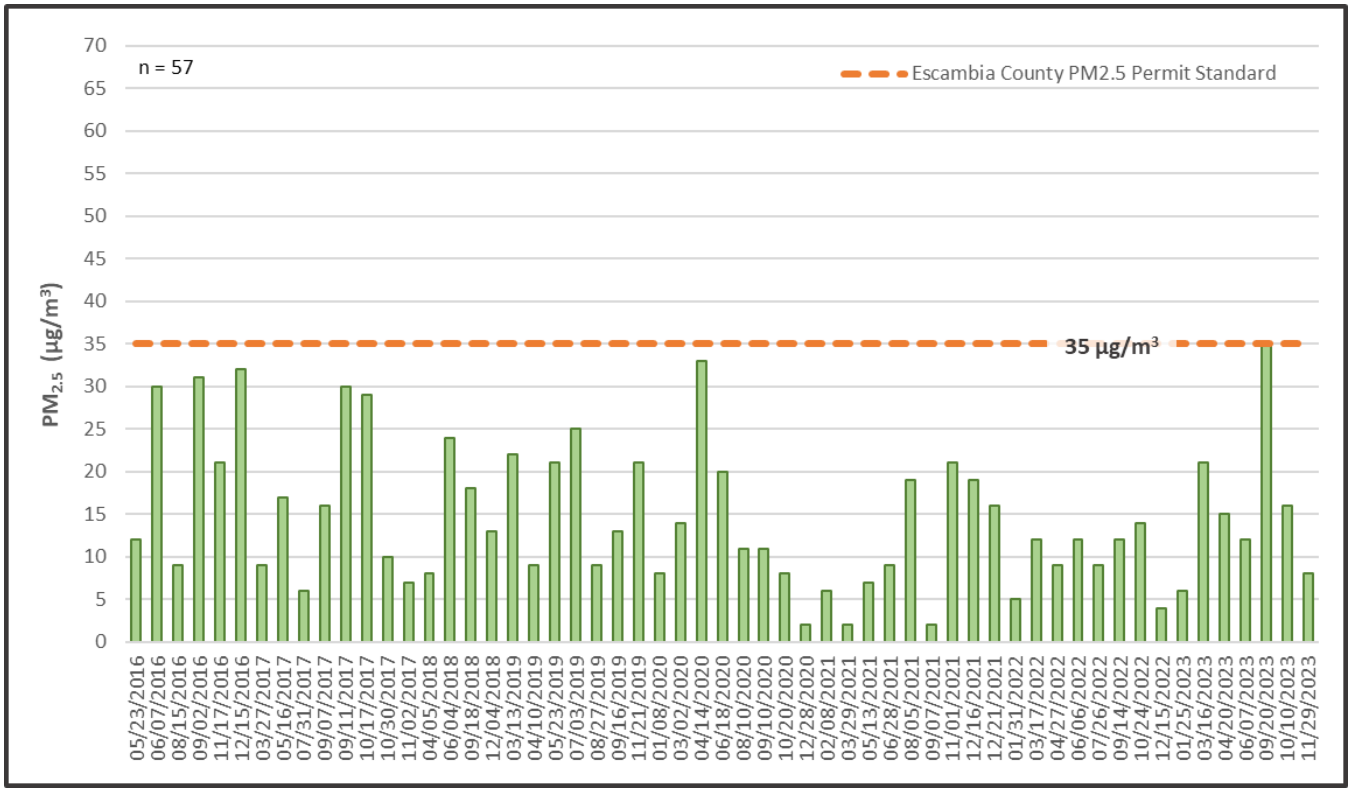
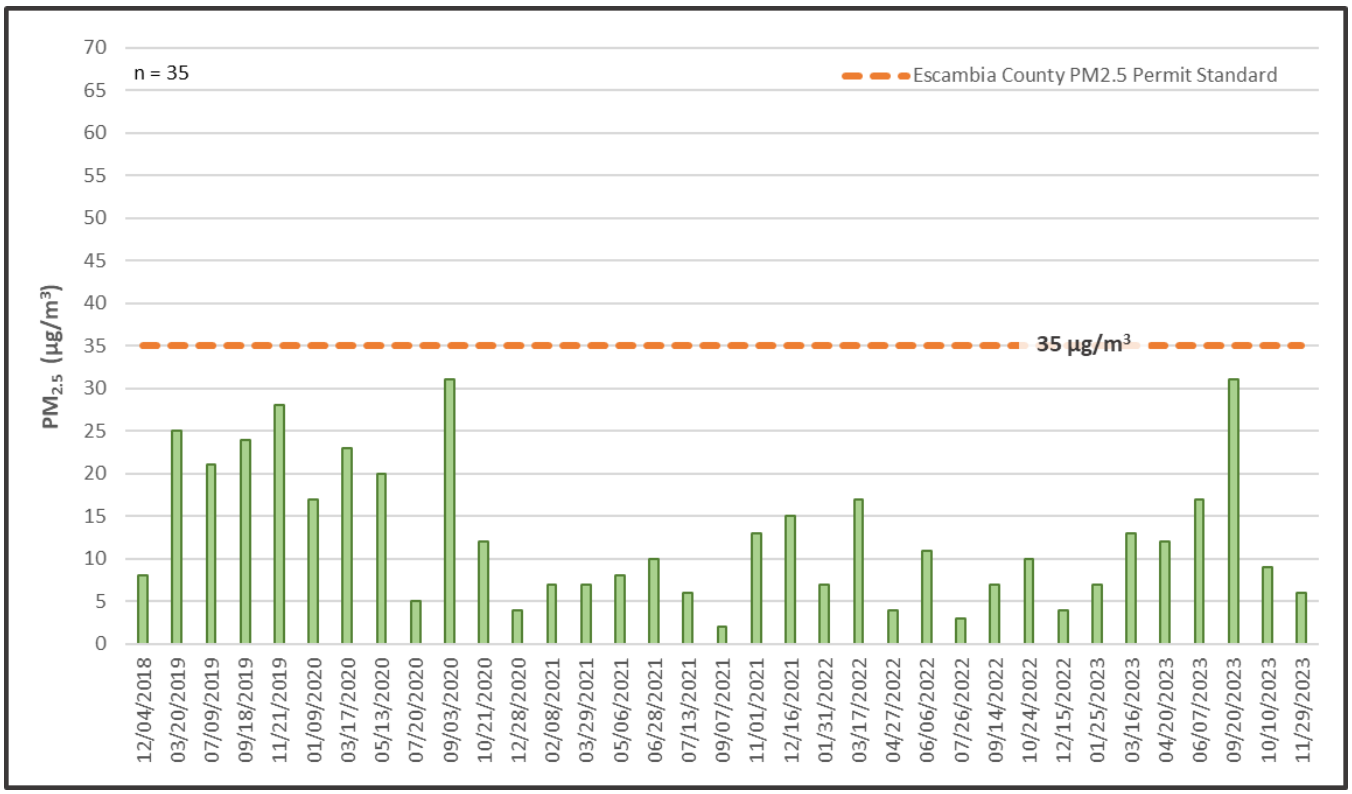


Figure 6.2: Downwind $PM_{2.5}$ Results Collected for Escambia County Permitted Recycling Facility Located at 2170 Longleaf Drive, Pensacola, FL 32514 (Eager Beaver Professional Tree Care, LLC)



Outdoor Air Quality

County-Wide Air Monitoring Network

Tables and Figures

Summarizing Monitoring Results

October 2023 – December 2023

Figure 7: Location of Escambia County Air Montioring Network Stations

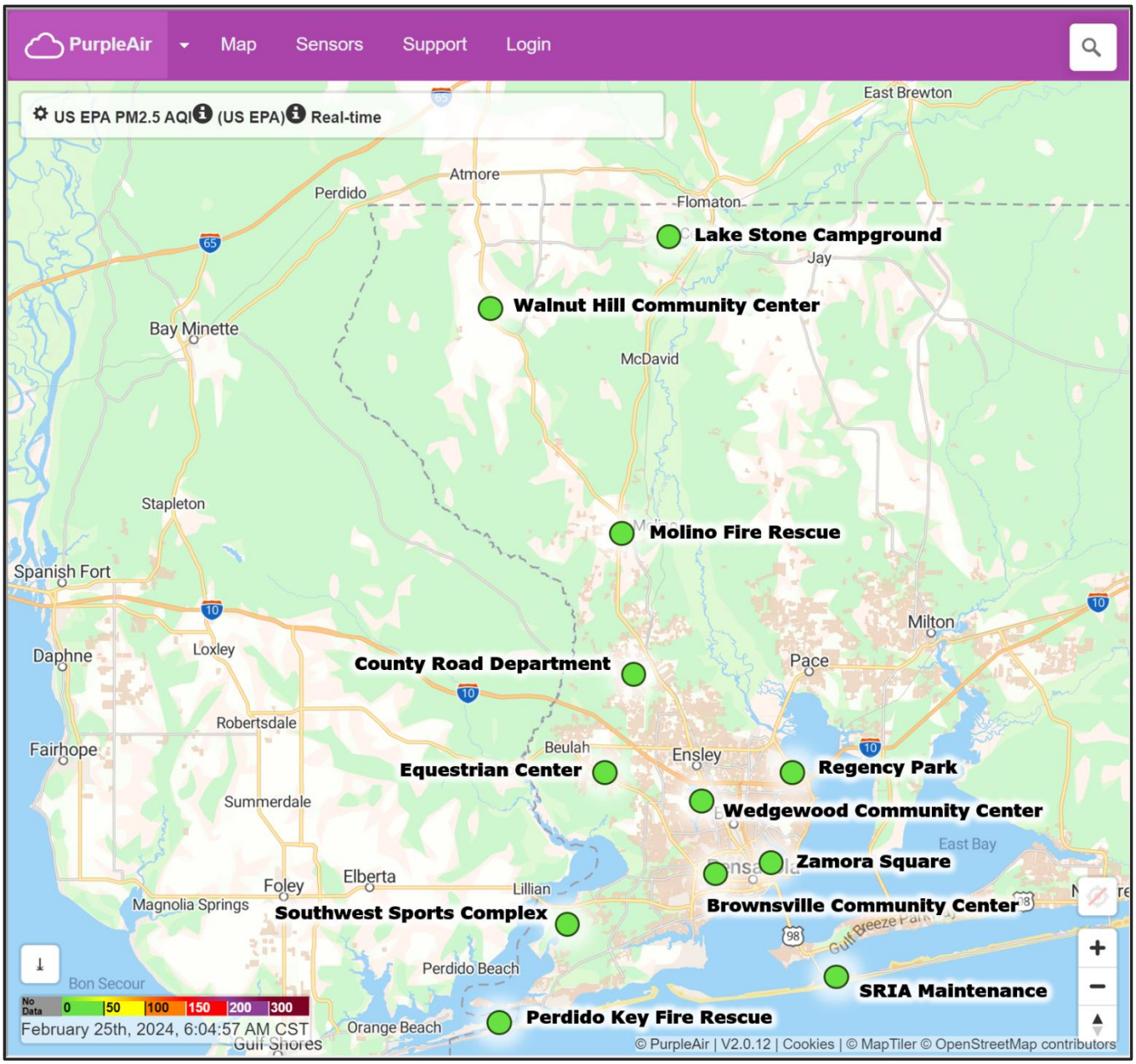


Table 4.1

Air Quality Index (AQI)

Daily Averages based on $Pm_{2.5}$

Calculated by Station for

October 2023

Distance (miles) from WCC →	0.0	4.9	5.7	5.8	6.0	8.2	10.3	13.7	16.1	18.2	30.8	33.0
Direction from WCC →	N/A	S	ENE	SE	WNW	NNW	SW	SE	NNW	SW	NNW	N
↓ Sample Date ↓	Wedgewood Community Center (WCC)	Brownsville Community Center	Regency Park (Ferry Pass)	Zamora Square (East Hill)	Equestrian Center (Beulah)	County Road Department (Cantonment)	Southwest Escambia Sports Complex	Santa Rosa Island Authority Maintenan	Molino Fire Rescue (Station #18)	Perdido Key Fire Rescue (Station #19)	Walnut Hill Community Center	Lake Stone Campground (near Century)
10/01/2023	30	39	29	29	27	33	25	28	32	27	31	31
10/02/2023	25	29	25	25	20	29	17	23	25	21	24	25
10/03/2023	78	84	71	77	75	81	74	77	66	77	65	61
10/04/2023	79	82	72	75	80	85	77	77	72	76	71	62
10/05/2023	41	42	38	40	41	47	37	38	55	39	54	40
10/06/2023	35	38	34	34	35	44	29	32	47	29	51	42
10/07/2023	28	30	26	39	25	27	24	25	25	25	25	24
10/08/2023	21	23	18	27	16	20	14	19	17	16	16	17
10/09/2023	31	33	22	24	17	26	15	23	26	16	19	17
10/10/2023	26	36	25	26	16	23	15	22	28	16	26	43
10/11/2023	22	25	22	22	19	30	15	17	27	15	14	20
10/12/2023	3	7	4	5	4	8	2	2	6	5	6	6
10/13/2023	34	34	25	30	28	37	25	22	31	21	27	23
10/14/2023	35	44	35	39	30	32	30	36	31	31	37	32
10/15/2023	15	18	16	19	14	17	15	15	15	17	15	13
10/16/2023	16	19	15	18	12	23	11	14	15	14	16	14
10/17/2023	56	31	45	30	23	59	21	25	58	21	60	18
10/18/2023	48	53	46	44	41	53	36	37	49	35	52	30
10/19/2023	37	37	27	29	32	41	27	21	35	25	37	29
10/20/2023	23	22	21	22	20	22	18	19	21	17	22	21
10/21/2023	38	42	32	35	37	33	30	26	36	25	32	33
10/22/2023	47	54	44	43	49	50	42	30	51	27	41	39
10/23/2023	52	55	47	48	45	54	43	42	50	41	44	46
10/24/2023	25	26	23	23	24	30	20	22	26	21	23	24
10/25/2023	20	16	16	16	14	21	14	18	18	17	15	19
10/26/2023	13	--	13	12	12	19	11	15	14	18	12	17
10/27/2023	16	20	16	15	15	23	11	14	19	17	15	15
10/28/2023	26	46	24	25	21	32	18	14	20	16	20	20
10/29/2023	22	28	18	18	23	26	20	12	21	15	21	21
10/30/2023	23	29	19	20	25	38	20	15	24	16	21	22
10/31/2023	22	23	19	21	22	24	18	16	23	19	22	21

Notes:

The Air Quality Index (AQI) is the U.S. Environmental Protection Agency's (EPA) standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. The U.S. EPA defines AQI according to the following categories.

"Good" or Green (0 - 50) – Air quality is satisfactory, and air pollution poses little or no risk.

"Moderate" or Yellow (51 – 100) – Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution. Unusually sensitive people should consider reducing prolonged or heavy exertion.

"Unhealthy for Sensitive Groups" or Orange (101 – 150) – Members of sensitive groups may experience health effects. The general public is less likely to be affected. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should reduce prolonged or heavy exertion.

"Unhealthy" or Red (151 - 200) - Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects.

"Very Unhealthy" or Purple (201 – 300) – Health alert: The risk of health effects is increased for everyone. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.

"Hazardous" or Maroon (>300) – Health warning of emergency conditions: everyone is more likely to be affected. Everyone should avoid all physical activity outdoors; people with heart or lung disease, older adults, children, and people of lower socioeconomic status should remain indoors and keep activity levels low.

"--" No or missing data.

Table 4.2

Air Quality Index (AQI)

Daily Averages based on $Pm_{2.5}$

Calculated by Station for

November 2023

	Wedgewood Community Center (WCC)	Brownsville Community Center	Regency Park (Ferry Pass)	Zamora Square (East Hill)	Equestrian Center (Beulah)	County Road Department (Cantonment)	Southwest Escambia Sports Complex	Santa Rosa Island Authority Maintenan	Molino Fire Rescue (Station #18)	Perdido Key Fire Rescue (Station #19)	Walnut Hill Community Center	Lake Stone Campground (near Century)
Distance (miles) from WCC →	0.0	4.9	5.7	5.8	6.0	8.2	10.3	13.7	16.1	18.2	30.8	33.0
Direction from WCC →	N/A	S	ENE	SE	WNW	NNW	SW	SE	NNW	SW	NNW	N
↓ Sample Date ↓												
11/01/2023	32	33	26	28	27	32	26	23	28	25	26	25
11/02/2023	33	40	30	30	25	37	26	25	31	26	28	26
11/03/2023	30	38	29	34	25	34	28	26	34	29	26	26
11/04/2023	30	36	28	35	20	31	23	25	31	24	25	32
11/05/2023	46	47	36	43	30	40	33	31	36	32	33	29
11/06/2023	52	56	47	53	39	50	39	45	43	38	41	40
11/07/2023	38	49	35	44	32	49	30	33	38	27	31	34
11/08/2023	31	37	30	32	28	44	22	27	27	22	30	27
11/09/2023	38	43	36	36	32	49	29	29	34	27	28	31
11/10/2023	33	38	31	31	33	42	26	27	39	31	34	28
11/11/2023	42	35	40	40	45	50	43	35	44	42	53	45
11/12/2023	54	--	50	53	54	56	53	50	52	52	54	51
11/13/2023	41	43	36	37	39	50	38	31	45	35	44	42
11/14/2023	32	32	30	30	28	38	47	27	32	25	34	34
11/15/2023	14	15	14	18	10	17	84	13	13	12	11	13
11/16/2023	17	16	17	20	13	20	54	15	15	17	13	14
11/17/2023	26	26	27	28	22	32	18	24	25	23	23	21
11/18/2023	47	47	36	44	32	40	28	36	36	32	33	28
11/19/2023	49	57	46	44	36	46	34	38	56	35	31	31
11/20/2023	36	51	36	37	34	42	26	28	45	29	31	34
11/21/2023	17	20	19	21	15	20	16	22	18	29	17	16
11/22/2023	27	28	25	26	22	29	21	20	24	23	25	21
11/23/2023	44	49	37	40	37	44	31	33	39	36	40	30
11/24/2023	44	48	40	40	37	48	37	34	39	38	37	33
11/25/2023	50	52	41	43	43	49	33	35	45	33	39	32
11/26/2023	19	17	18	19	16	25	12	14	21	13	22	26
11/27/2023	25	26	22	25	22	25	19	20	23	24	23	21
11/28/2023	30	52	27	34	33	32	25	20	24	28	22	20
11/29/2023	63	66	54	58	49	50	35	58	40	35	24	26
11/30/2023	65	68	57	60	55	65	51	39	66	49	56	90

Notes:

The Air Quality Index (AQI) is the U.S. Environmental Protection Agency's (EPA) standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. The U.S. EPA defines AQI according to the following categories.

"Good" or Green (0 - 50) – Air quality is satisfactory, and air pollution poses little or no risk.

"Moderate" or Yellow (51 – 100) – Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution. Unusually sensitive people should consider reducing prolonged or heavy exertion.

"Unhealthy for Sensitive Groups" or Orange (101 – 150) – Members of sensitive groups may experience health effects. The general public is less likely to be affected. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should reduce prolonged or heavy exertion.

"Unhealthy" or Red (151 - 200) - Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects.

"Very Unhealthy" or Purple (201 – 300) – Health alert: The risk of health effects is increased for everyone. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.

"Hazardous" or Maroon (>300) – Health warning of emergency conditions: everyone is more likely to be affected. Everyone should avoid all physical activity outdoors; people with heart or lung disease, older adults, children, and people of lower socioeconomic status should remain indoors and keep activity levels low.

"--" No or missing data.

Table 4.3

Air Quality Index (AQI)

Daily Averages based on $Pm_{2.5}$

Calculated by Station for

December 2023

	Wedgewood Community Center (WCC)	Brownsville Community Center	Regency Park (Ferry Pass)	Zamora Square (East Hill)	Equestrian Center (Beulah)	County Road Department (Cantonment)	Southwest Escambia Sports Complex	Santa Rosa Island Authority Maintenan	Molino Fire Rescue (Station #18)	Perdido Key Fire Rescue (Station #19)	Walnut Hill Community Center	Lake Stone Campground (near Century)
Distance (miles) from WCC →	0.0	4.9	5.7	5.8	6.0	8.2	10.3	13.7	16.1	18.2	30.8	33.0
Direction from WCC →	N/A	S	ENE	SE	WNW	NNW	SW	SE	NNW	SW	NNW	N
↓ Sample Date ↓												
12/01/2023	17	21	17	19	14	21	11	19	20	47	18	16
12/02/2023	9	24	14	16	6	12	8	23	7	31	8	7
12/03/2023	24	31	25	28	20	33	24	27	19	26	21	17
12/04/2023	32	29	28	32	23	33	21	24	28	22	27	20
12/05/2023	28	33	25	31	25	23	22	22	22	21	20	17
12/06/2023	36	--	31	40	28	36	23	26	29	24	27	23
12/07/2023	40	40	34	33	34	41	27	27	42	28	45	31
12/08/2023	26	43	25	27	25	30	17	21	32	25	30	28
12/09/2023	16	17	17	16	13	27	8	20	21	34	19	19
12/10/2023	10	14	12	14	9	15	8	13	11	15	11	14
12/11/2023	26	24	27	27	21	28	15	20	20	18	19	16
12/12/2023	35	36	38	46	25	34	39	24	31	40	21	20
12/13/2023	56	58	55	56	46	41	49	31	55	57	30	66
12/14/2023	29	34	28	28	27	35	25	23	47	26	32	35
12/15/2023	31	29	31	24	25	27	20	20	27	21	41	28
12/16/2023	19	26	18	19	18	--	17	14	24	17	19	16
12/17/2023	18	22	18	22	15	--	13	16	18	17	16	17
12/18/2023	25	31	27	26	17	29	18	22	24	19	21	17
12/19/2023	40	23	54	56	26	32	27	58	38	28	55	31
12/20/2023	52	60	45	36	55	56	33	23	55	31	53	58
12/21/2023	38	46	38	37	41	53	31	30	56	29	57	63
12/22/2023	37	52	43	36	32	45	25	33	51	28	37	30
12/23/2023	45	53	50	42	36	42	31	27	38	32	26	28
12/24/2023	13	--	19	16	13	17	9	24	20	33	13	18
12/25/2023	14	--	16	18	12	16	11	29	12	39	11	8
12/26/2023	41	--	37	42	27	40	26	36	42	27	31	27
12/27/2023	38	--	36	41	26	30	24	25	32	22	30	22
12/28/2023	27	30	27	29	25	29	22	24	25	24	25	22
12/29/2023	28	36	31	34	25	26	24	23	28	21	21	19
12/31/2023	65	98	103	64	56	100	49	39	60	43	53	44

Notes:

The Air Quality Index (AQI) is the U.S. Environmental Protection Agency's (EPA) standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. The U.S. EPA defines AQI according to the following categories.

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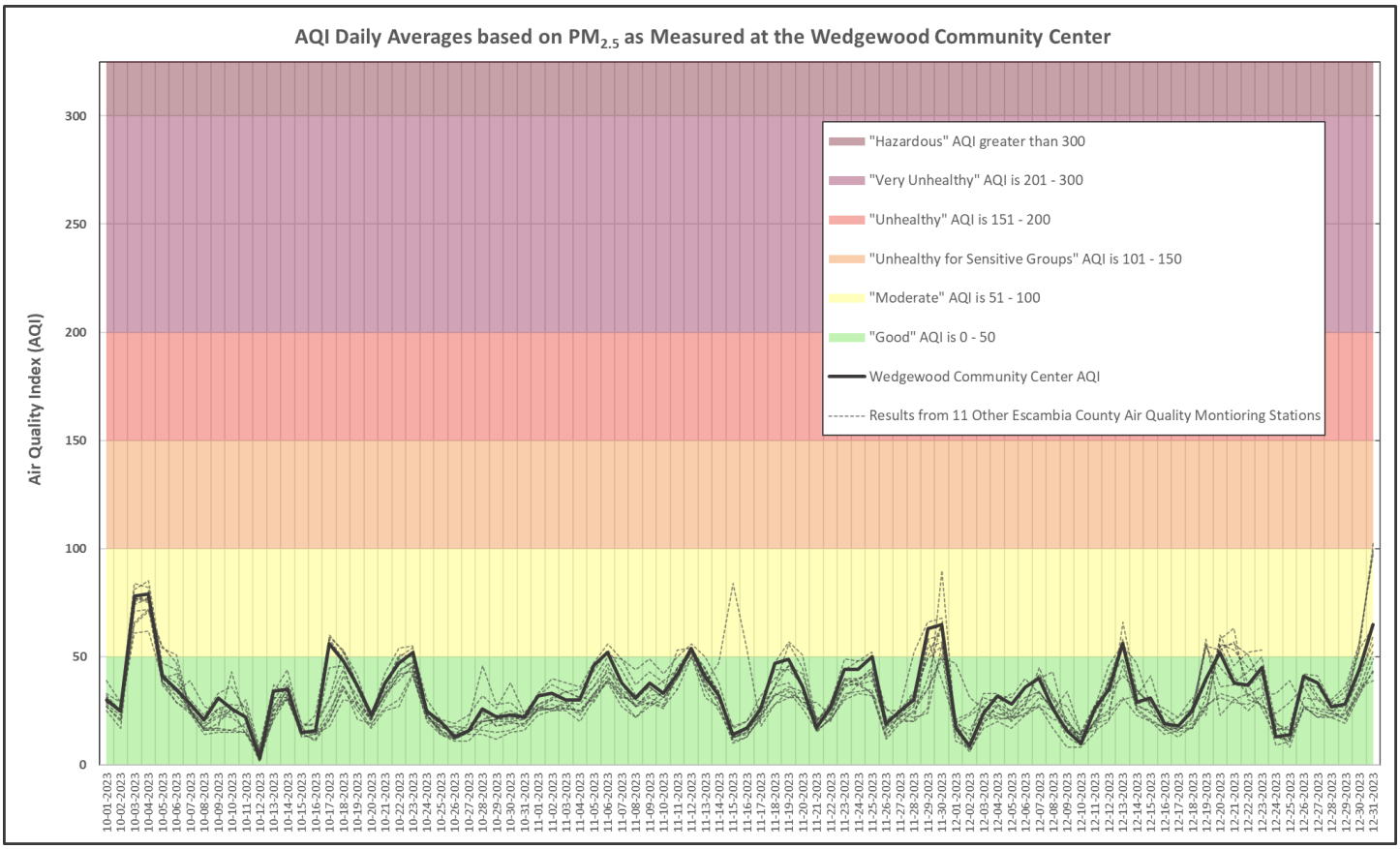
"Hazardous" or Maroon (>300) – Health warning of emergency conditions: everyone is more likely to be affected. Everyone should avoid all physical activity outdoors; people with heart or lung disease, older adults, children, and people of lower socioeconomic status should remain indoors and keep activity levels low.

"--" No or missing data.

Figure 8.1: Air Quality Index (AQI) Daily Averages (October 1, 2023, through December 31,2023) based on $PM_{2.5}$ Data Collected from the Escambia County Monitoring Network



Notes:

The Air Quality Index (AQI) is the U.S. Environmental Protection Agency's (EPA) standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. The U.S. EPA defines AQI according to the following categories.

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- "Unhealthy" or Red (151 – 200) – Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should avoid prolonged or heavy exertion; everyone else should reduce prolonged or heavy exertion.
- "Very Unhealthy" or Purple (201 – 300) – Health alert: The risk of health effects is increased for everyone. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
- "Hazardous" or Maroon (>300) – Health warning of emergency conditions: everyone is more likely to be affected. Everyone should avoid all physical activity outdoors; people with heart or lung disease, older adults, children, and people of lower socioeconomic status should remain indoors and keep activity levels low.

Figure 9.1: EPA Corrected $PM_{2.5}$ Hourly Averages Measured during Collocation of Air Quality Sensors (Includes Sensor Currently Located at Wedgewood Community Center)

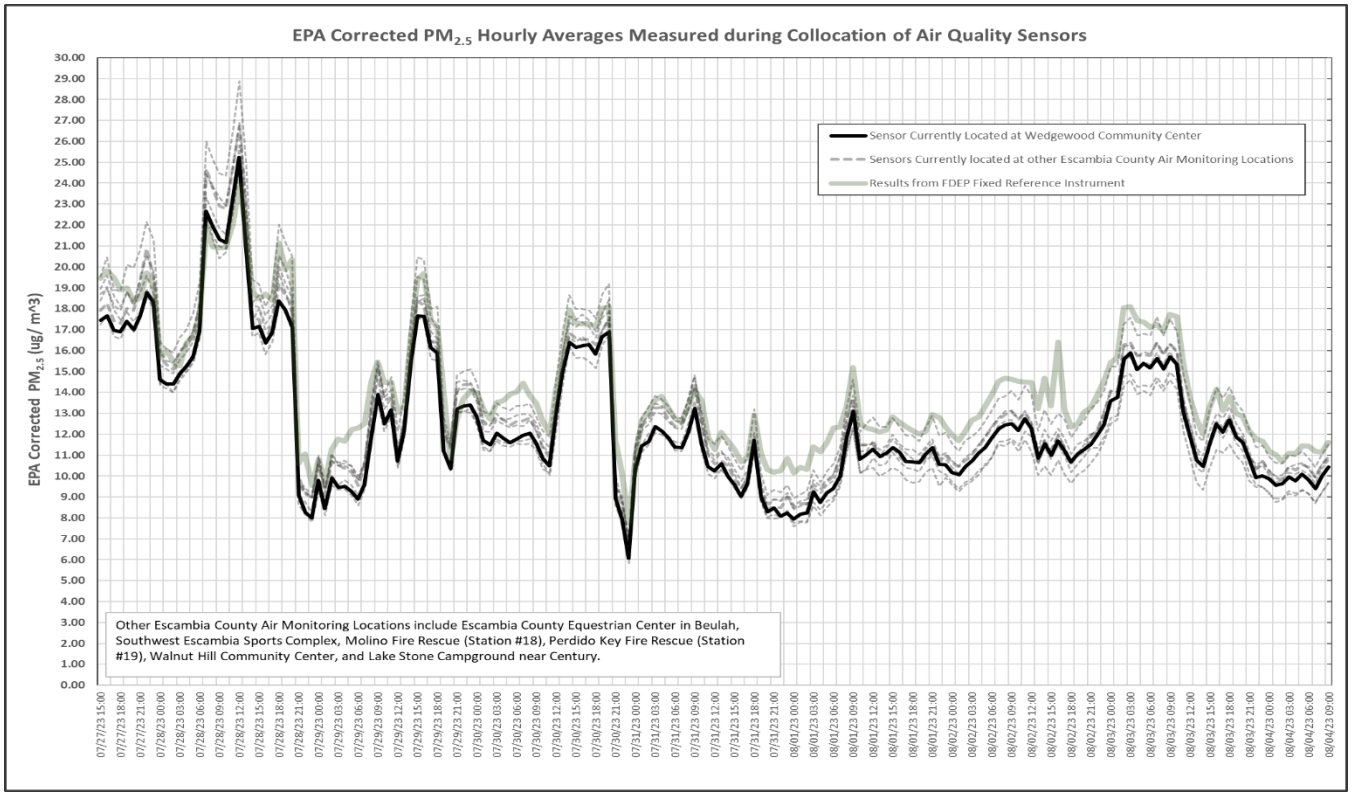

Figure 9.2: EPA Corrected $PM_{2.5}$ Hourly Averages Measured during Collocation of Air Quality Sensors

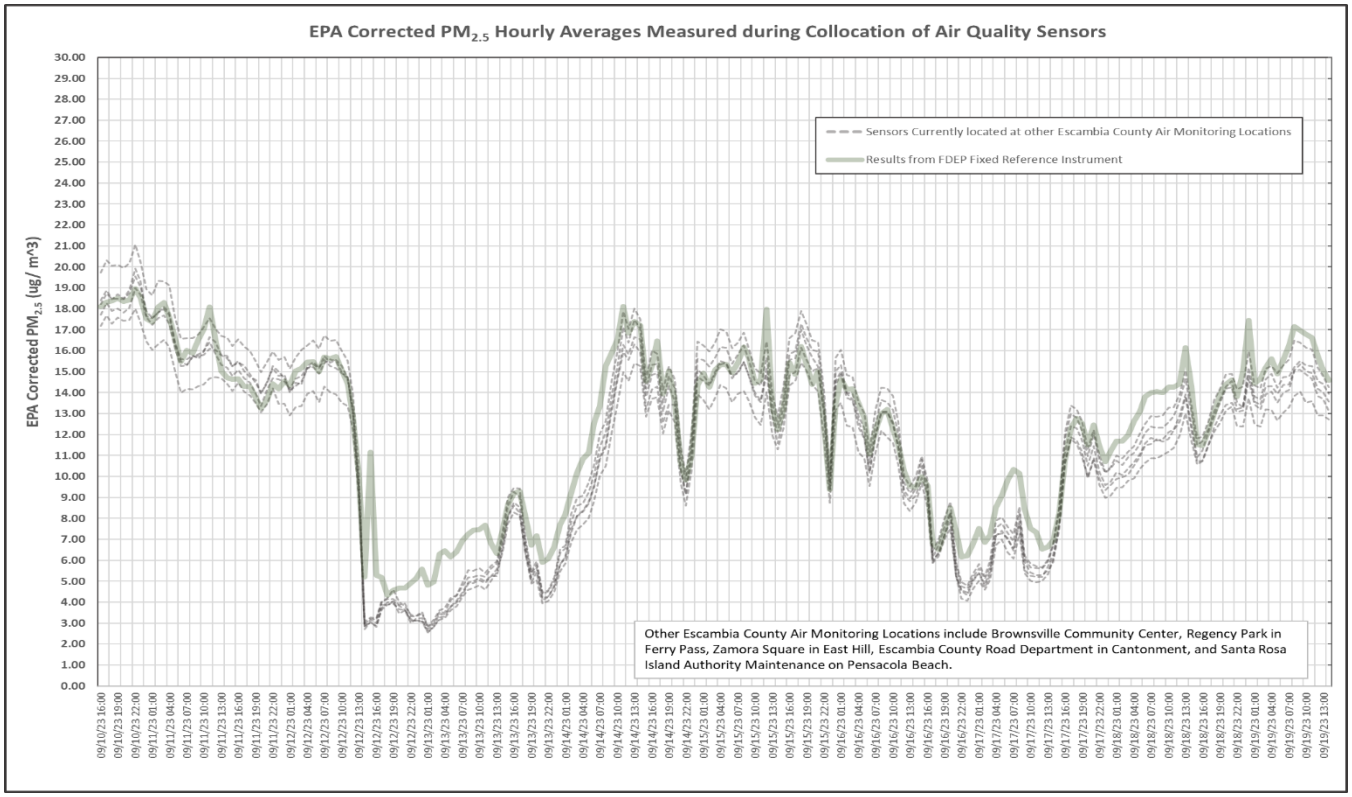

Figure 10.1: EPA Corrected, FDEP Calibrated PM2.5 Hourly Averages Measured during Collocation of Air Quality Sensors (Includes Sensor Currently Located at Wedgewood Community Center)

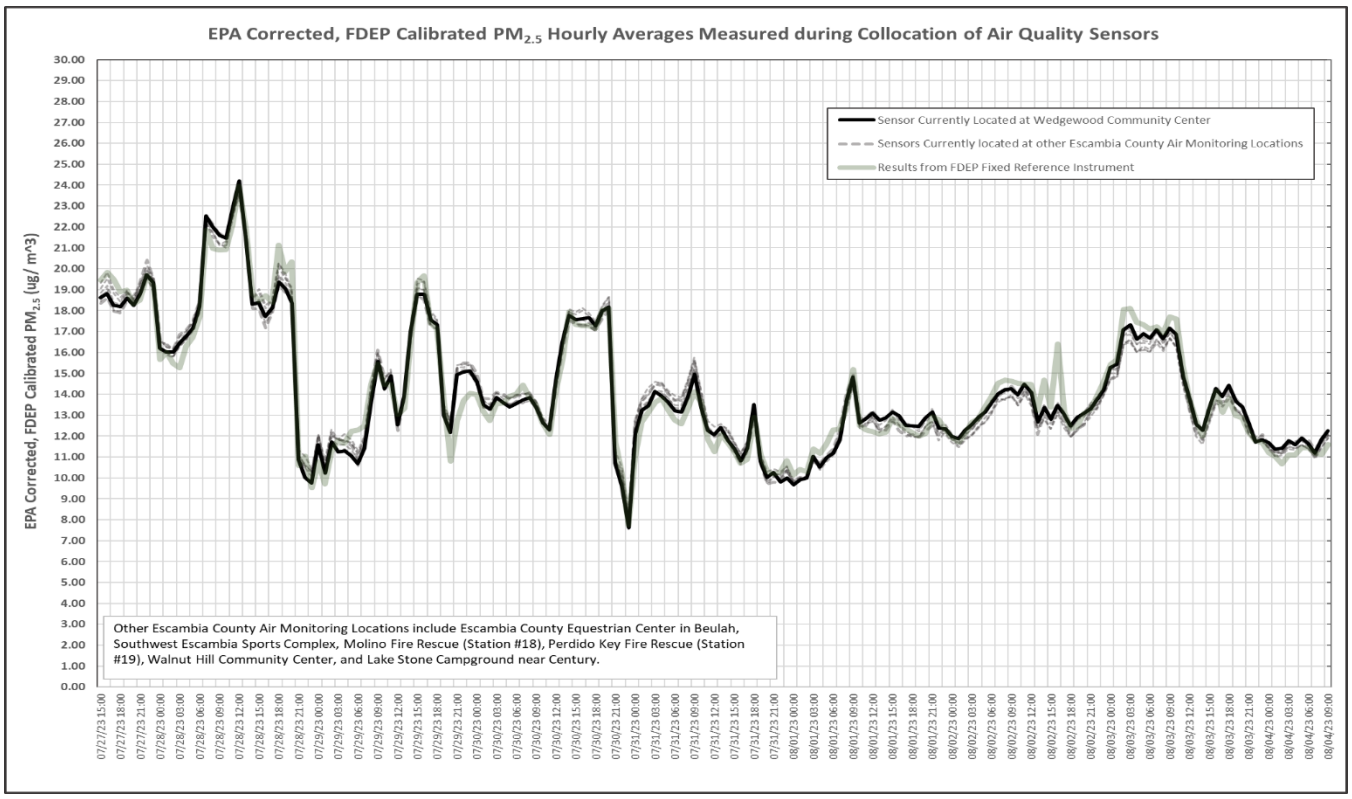

Figure 11.1: $PM_{2.5}$ Hourly Average Regression for Wedgewood Community Center Sensor and FDEP Fixed Reference Instrument

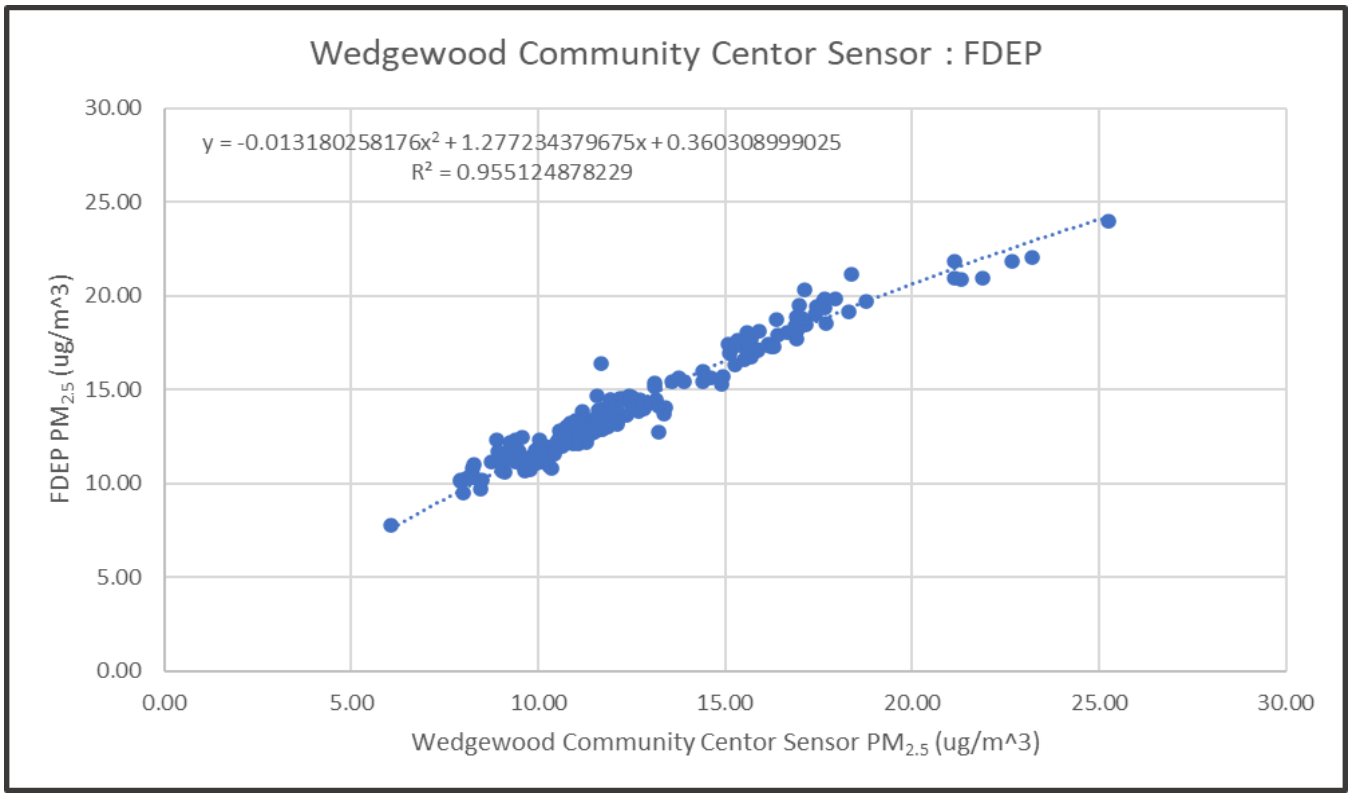

Figure 10.2: EPA Corrected, FDEP Calibrated PM2.5 Hourly Averages Measured during Collocation of Air Quality Sensors

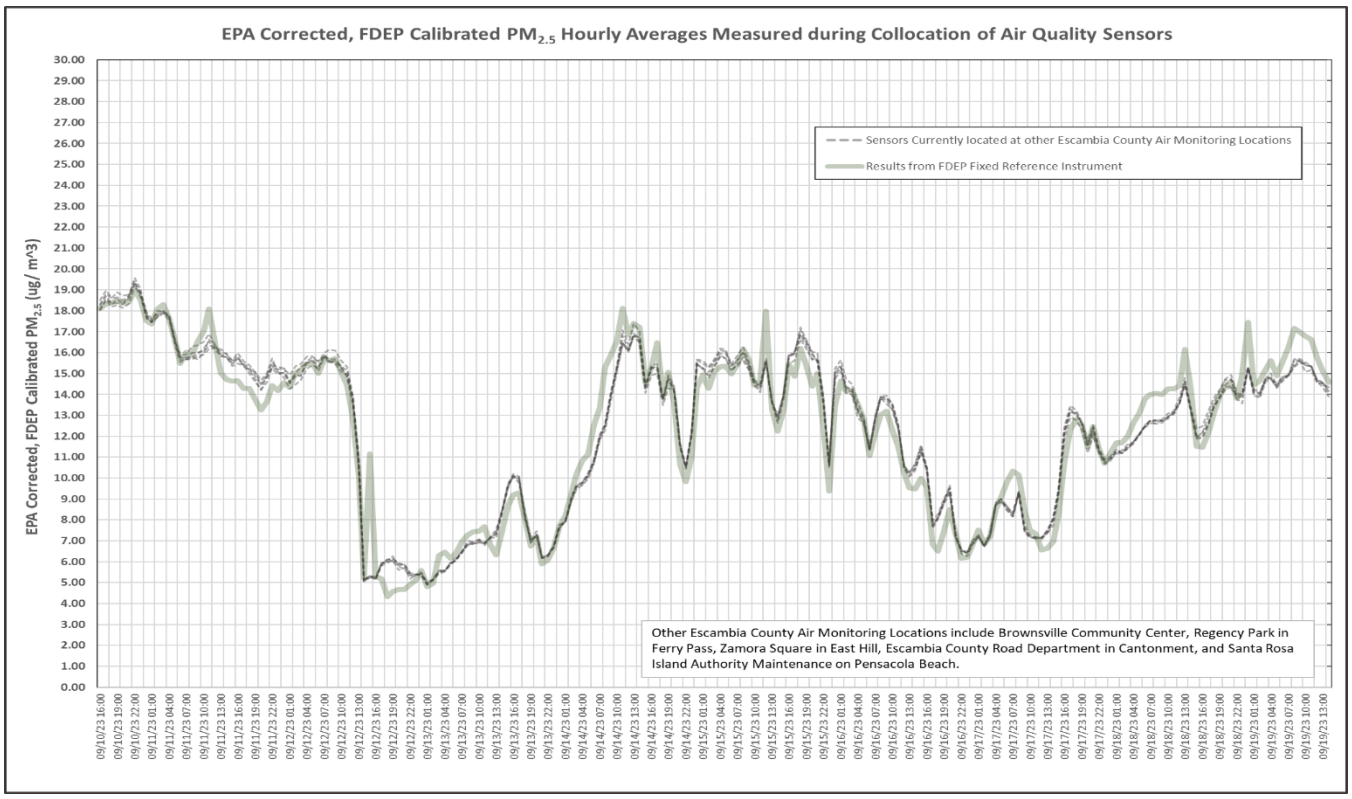

Figure 11.2: $PM_{2.5}$ Hourly Average Regression for Zamora Square (East Hill) Sensor And FDEP Fixed Reference Instrument

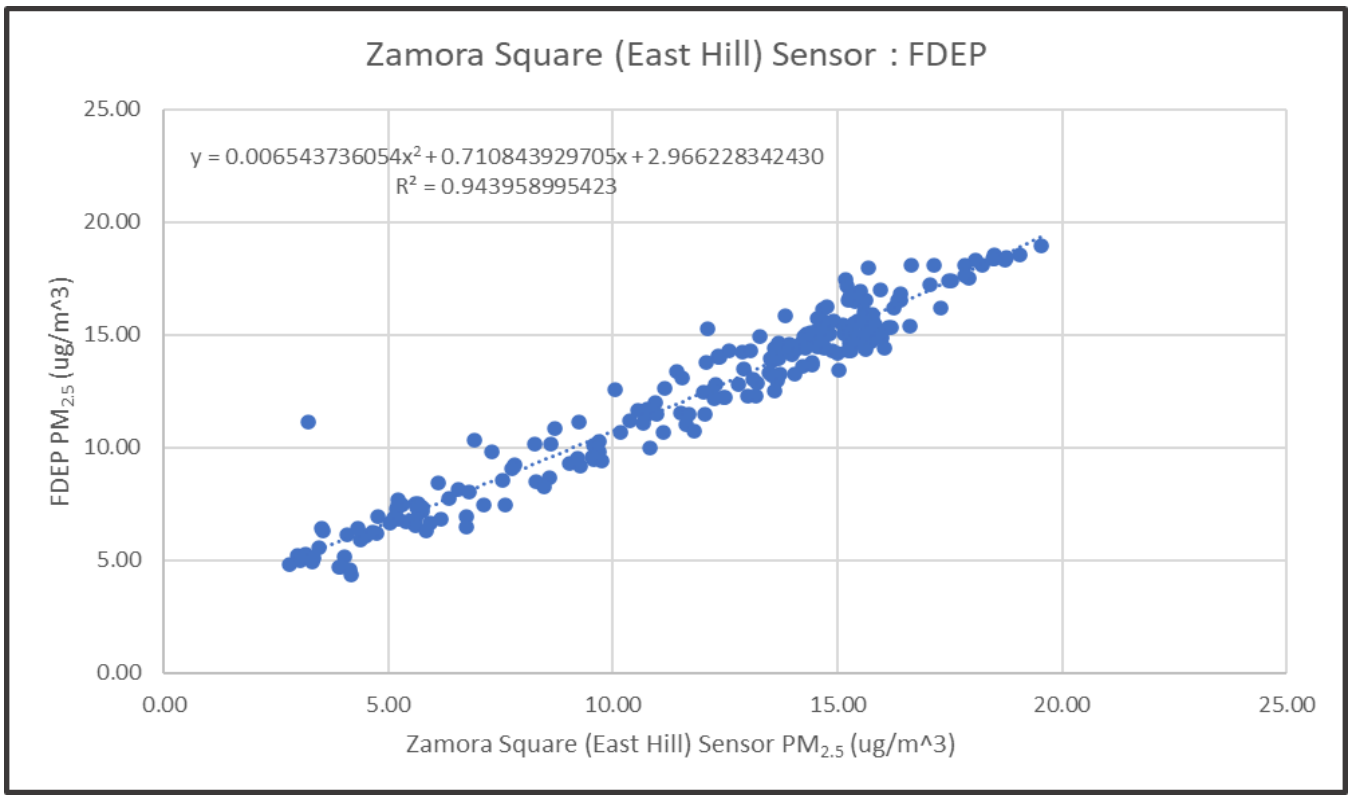

Table 5.1

Air Quality Index (AQI)

Daily Averages based on Pm_{10}

Calculated by Station for

October 2023

	Wedgewood Community Center (WCC)	Brownsville Community Center	Regency Park (Ferry Pass)	Zamora Square (East Hill)	Equestrian Center (Beulah)	County Road Department (Cantonment)	Southwest Escambia Sports Complex	Santa Rosa Island Authority Maintenance	Molino Fire Rescue (Station #18)	Perdido Key Fire Rescue (Station #19)	Walnut Hill Community Center	Lake Stone Campground (near Century)
Distance (miles) from WCC →	0.0	4.9	5.7	5.8	6.0	8.2	10.3	13.7	16.1	18.2	30.8	33.0
Direction from WCC →	N/A	S	ENE	SE	WNW	NNW	SW	SE	NNW	SW	NNW	N
↓ Sample Date ↓												
10/01/2023	9	13	8	8	9	10	9	9	11	9	10	10
10/02/2023	9	10	7	8	7	10	6	8	8	7	8	8
10/03/2023	49	50	42	47	47	47	48	50	45	46	42	38
10/04/2023	50	50	43	48	50	51	51	52	49	47	46	40
10/05/2023	20	19	17	18	21	22	21	19	31	20	28	19
10/06/2023	16	16	14	14	17	19	14	15	22	12	24	18
10/07/2023	9	9	8	14	8	8	8	8	8	7	7	6
10/08/2023	4	4	2	6	2	4	2	4	3	2	2	3
10/09/2023	10	10	4	5	4	8	4	6	7	2	4	3
10/10/2023	9	13	7	8	5	7	5	6	10	4	9	16
10/11/2023	10	10	8	9	9	12	8	8	13	6	7	9
10/12/2023	1	1	1	1	2	3	1	1	3	2	3	2
10/13/2023	14	13	10	11	12	14	10	9	13	8	11	9
10/14/2023	13	17	13	14	12	12	12	14	12	12	15	12
10/15/2023	4	5	4	5	4	5	5	5	5	5	5	4
10/16/2023	4	5	3	4	3	8	3	3	4	2	5	3
10/17/2023	25	10	18	9	8	27	7	8	29	6	29	5
10/18/2023	19	22	18	17	16	22	15	14	21	12	23	10
10/19/2023	15	14	9	10	13	17	11	7	14	9	15	10
10/20/2023	8	7	6	7	8	7	7	8	7	7	8	6
10/21/2023	14	15	10	11	14	11	12	8	13	8	11	11
10/22/2023	20	24	17	17	22	20	19	12	23	11	16	14
10/23/2023	22	24	18	19	18	23	20	17	21	17	17	18
10/24/2023	10	10	8	8	10	11	10	10	9	10	9	8
10/25/2023	9	5	5	5	5	8	7	10	7	9	6	7
10/26/2023	6	--	4	5	6	8	7	10	6	13	5	6
10/27/2023	8	10	6	6	8	10	7	8	9	11	7	5
10/28/2023	12	21	10	10	9	13	10	7	8	9	8	8
10/29/2023	10	13	7	7	10	10	11	6	9	8	9	8
10/30/2023	9	11	7	7	10	15	9	6	9	6	8	8
10/31/2023	6	6	5	5	6	7	6	5	7	5	7	6

Notes:

The Air Quality Index (AQI) is the U.S. Environmental Protection Agency's (EPA) standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. The U.S. EPA defines AQI according to the following categories.

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"Hazardous" or Maroon (>300) – Health warning of emergency conditions: everyone is more likely to be affected. Everyone should avoid all physical activity outdoors; people with heart or lung disease, older adults, children, and people of lower socioeconomic status should remain indoors and keep activity levels low.

"--" No or missing data.

Table 5.2

Air Quality Index (AQI)

Daily Averages based on Pm_{10}

Calculated by Station for

November 2023

Distance (miles) from WCC →	0.0	4.9	5.7	5.8	6.0	8.2	10.3	13.7	16.1	18.2	30.8	33.0
Direction from WCC →	N/A	S	ENE	SE	WNW	NNW	SW	SE	NNW	SW	NNW	N
↓ Sample Date ↓	Wedgewood Community Center (WCC)	Brownsville Community Center	Regency Park (Ferry Pass)	Zamora Square (East Hill)	Equestrian Center (Beulah)	County Road Department (Cantonment)	Southwest Escambia Sports Complex	Santa Rosa Island Authority Maintenance	Molino Fire Rescue (Station #18)	Perdido Key Fire Rescue (Station #19)	Walnut Hill Community Center	Lake Stone Campground (near Century)
11/01/2023	10	8	6	6	7	8	7	6	7	6	6	6
11/02/2023	10	13	8	9	8	11	9	8	9	7	8	7
11/03/2023	11	14	9	12	9	12	11	10	13	10	9	9
11/04/2023	11	13	9	12	7	10	9	9	11	9	8	12
11/05/2023	18	17	12	15	11	14	14	11	12	11	12	10
11/06/2023	21	24	17	21	15	19	17	18	16	15	16	14
11/07/2023	16	20	13	18	14	20	13	13	15	10	12	12
11/08/2023	12	15	11	12	11	18	10	10	10	8	12	10
11/09/2023	15	18	14	14	13	20	12	12	13	11	11	11
11/10/2023	15	16	13	13	14	18	12	12	17	14	15	12
11/11/2023	19	15	18	18	22	23	21	17	22	19	28	22
11/12/2023	25	--	22	23	26	26	26	24	26	22	26	23
11/13/2023	17	18	14	15	17	22	18	14	20	14	19	17
11/14/2023	14	14	12	13	13	17	25	14	15	11	16	15
11/15/2023	7	7	6	8	6	8	42	8	7	6	7	7
11/16/2023	7	6	7	7	6	8	27	7	7	8	7	6
11/17/2023	11	10	11	11	10	13	8	11	11	10	10	8
11/18/2023	20	18	14	17	13	16	12	15	14	12	14	11
11/19/2023	19	25	17	16	13	17	13	13	28	12	11	11
11/20/2023	18	24	15	16	16	18	13	14	22	16	14	14
11/21/2023	10	11	9	10	9	9	10	14	9	21	9	9
11/22/2023	10	10	9	8	8	10	8	7	8	8	9	7
11/23/2023	18	19	14	15	15	17	13	12	15	14	16	11
11/24/2023	17	18	14	14	14	18	15	12	15	14	15	12
11/25/2023	20	21	15	16	17	19	13	13	17	11	15	12
11/26/2023	9	7	8	7	8	10	7	7	9	6	10	12
11/27/2023	8	8	7	7	8	8	7	7	7	7	8	7
11/28/2023	10	21	8	11	12	10	9	5	6	8	6	5
11/29/2023	33	32	24	26	20	21	15	26	15	12	9	8
11/30/2023	34	34	27	29	27	33	24	17	36	24	27	48

Notes:

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"--" No or missing data.

Table 5.3

Air Quality Index (AQI)

Daily Averages based on Pm_{10}

Calculated by Station for

December 2023

	Wedgewood Community Center (WCC)	Brownsville Community Center	Regency Park (Ferry Pass)	Zamora Square (East Hill)	Equestrian Center (Beulah)	County Road Department (Cantonment)	Southwest Escambia Sports Complex	Santa Rosa Island Authority Maintenance	Molino Fire Rescue (Station #18)	Perdido Key Fire Rescue (Station #19)	Walnut Hill Community Center	Lake Stone Campground (near Century)
Distance (miles) from WCC →	0.0	4.9	5.7	5.8	6.0	8.2	10.3	13.7	16.1	18.2	30.8	33.0
Direction from WCC →	N/A	S	ENE	SE	WNW	NNW	SW	SE	NNW	SW	NNW	N
↓ Sample Date ↓												
12/01/2023	11	13	9	10	9	10	9	16	11	38	10	8
12/02/2023	9	15	8	9	7	6	9	20	5	27	5	5
12/03/2023	12	14	11	12	10	14	13	13	9	15	10	8
12/04/2023	13	11	10	12	10	12	9	9	11	8	11	8
12/05/2023	10	11	7	10	9	7	8	7	7	6	7	5
12/06/2023	13	--	10	14	10	13	8	8	10	7	9	8
12/07/2023	16	15	12	11	14	16	12	10	17	10	19	11
12/08/2023	11	20	9	10	11	11	9	11	14	13	14	11
12/09/2023	10	10	9	8	9	13	8	16	11	27	10	11
12/10/2023	5	5	4	5	4	6	4	7	5	8	4	6
12/11/2023	8	6	9	8	7	9	5	6	6	4	6	4
12/12/2023	11	12	13	16	8	10	16	7	10	14	5	6
12/13/2023	22	24	21	23	17	14	19	11	25	24	11	33
12/14/2023	8	9	7	7	8	10	7	7	18	7	11	12
12/15/2023	11	9	10	7	9	8	7	8	9	8	17	10
12/16/2023	8	10	7	7	8	--	7	7	10	6	8	6
12/17/2023	7	8	7	8	6	--	6	7	7	6	7	7
12/18/2023	8	10	8	7	6	9	6	7	8	5	7	5
12/19/2023	15	5	21	22	7	9	9	28	13	8	25	10
12/20/2023	21	29	16	12	25	24	14	8	25	11	22	29
12/21/2023	15	18	14	13	17	23	14	13	28	11	30	36
12/22/2023	14	22	17	13	13	18	11	15	23	11	16	11
12/23/2023	21	25	22	17	16	18	15	12	16	15	11	11
12/24/2023	8	--	8	8	8	8	9	20	10	28	7	8
12/25/2023	9	--	8	10	7	7	8	23	6	29	5	4
12/26/2023	18	--	16	17	12	17	12	15	19	11	13	11
12/27/2023	15	--	14	15	10	10	10	9	13	7	12	8
12/28/2023	9	9	8	9	9	9	8	8	8	8	9	7
12/29/2023	10	12	10	11	9	8	8	7	10	7	7	5
12/31/2023	35	50	50	33	26	49	22	16	31	18	23	17

Notes:

The Air Quality Index (AQI) is the U.S. Environmental Protection Agency's (EPA) standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. The U.S. EPA defines AQI according to the following categories.

"Good" or Green (0 - 50) – Air quality is satisfactory, and air pollution poses little or no risk.

"Moderate" or Yellow (51 – 100) – Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution. Unusually sensitive people should consider reducing prolonged or heavy exertion.

"Unhealthy for Sensitive Groups" or Orange (101 – 150) – Members of sensitive groups may experience health effects. The general public is less likely to be affected. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should reduce prolonged or heavy exertion.

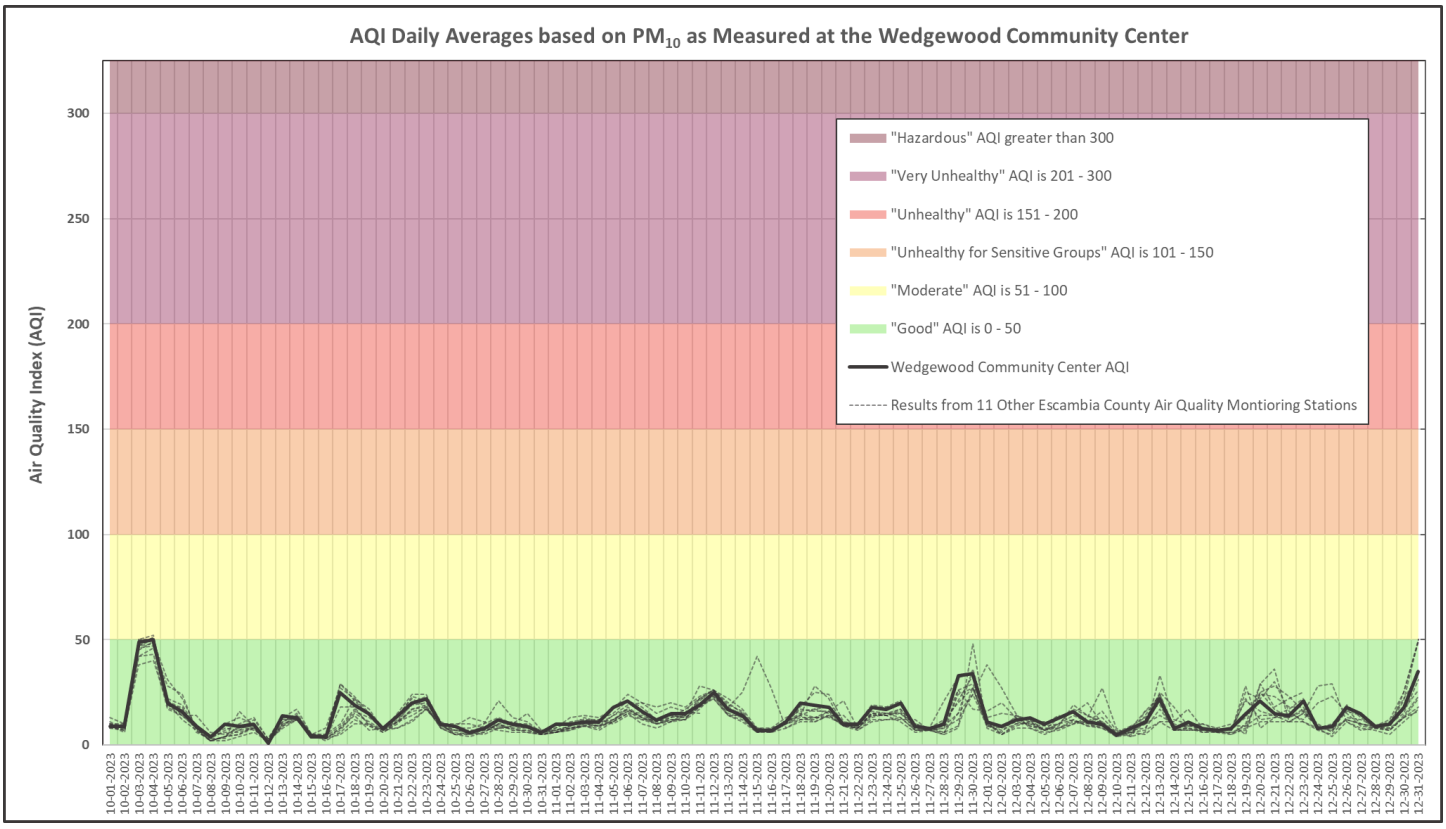
"Unhealthy" or Red (151 - 200) - Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects.

"Very Unhealthy" or Purple (201 – 300) – Health alert: The risk of health effects is increased for everyone. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.

"Hazardous" or Maroon (>300) – Health warning of emergency conditions: everyone is more likely to be affected. Everyone should avoid all physical activity outdoors; people with heart or lung disease, older adults, children, and people of lower socioeconomic status should remain indoors and keep activity levels low.

"--" No or missing data.

Figure 8.2: Air Quality Index (AQI) Daily Averages (October 1, 2023, through December 31,2023) based on PM_{10} Data Collected from the Escambia County Monitoring Network



Notes:
Research has also shown PM_{10} data collected using PurpleAir sensors to be less accurate (Ouimette et al. 2024).

The Air Quality Index (AQI) is the U.S. Environmental Protection Agency's (EPA) standardized index for reporting air quality. AQI can be based on one or more of the five major air pollutants regulated by the Clean Air Act. AQI is divided into six categories. Each category is identified by a different color and corresponds to a different level of health concern. The U.S. EPA defines AQI according to the following categories.

- "Good" or Green (0 - 50) – Air quality is satisfactory, and air pollution poses little or no risk.
- "Moderate" or Yellow (51 – 100) – Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution. Unusually sensitive people should consider reducing prolonged or heavy exertion.
- "Unhealthy for Sensitive Groups" or Orange (101 – 150 =) – Members of sensitive groups may experience health effects. The general public is less likely to be affected. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should reduce prolonged or heavy exertion.
- "Unhealthy" or Red (151 – 200) – Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should avoid prolonged or heavy exertion; everyone else should reduce prolonged or heavy exertion.
- "Very Unhealthy" or Purple (201 – 300) – Health alert: The risk of health effects is increased for everyone. People with heart or lung disease, older adults, children, and people of lower socioeconomic status should avoid all physical activity outdoors. Everyone else should avoid prolonged or heavy exertion.
- "Hazardous" or Maroon (>300) – Health warning of emergency conditions: everyone is more likely to be affected. Everyone should avoid all physical activity outdoors; people with heart or lung disease, older adults, children, and people of lower socioeconomic status should remain indoors and keep activity levels low.

Surface Water Quality Monitoring

Tables and Figures

Summarizing Monitoring Results

March 2019 – December 2023

Table 6: Complete List of Surface Water Monitoring Parameters

Volatile Organic Constituents		
Acetone	1,2-Dichlorobenzene	Methyl isobutyl ketone
Acrylonitrile	1,4-Dichlorobenzene	Methylene Chloride
Benzene *	trans-1,4-Dichloro-2-butene	Styrene
Bromochloromethane	1,1-Dichloroethane	1,1,1,2-Tetrachloroethane
Bromodichloromethane	1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
Bromoform	1,1-Dichloroethene	Tetrachloroethene
Bromomethane *	cis-1,2-Dichloroethene	**Toluene***
Carbon disulfide	trans-1,2-Dichloroethene	1,1,1-Trichloroethane
Carbon tetrachloride	1,2-Dichloropropane	1,1,2-Trichloroethane
Chlorobenzene	cis-1,3-Dichloropropene	Trichloroethene
Chloroethane	trans-1,3-Dichloropropene	Trichlorofluoromethane
Chloroform	**Ethylbenzene ***	1,2,3-Trichloropropane
Chloromethane*	Ethylene Dibromide	Vinyl acetate
Dibromochloromethane	2-Hexanone	Vinyl chloride
1,2-Dibromo-3-Chloropropane	Iodomethane	**Xylenes, Total ***
Dibromomethane	Methyl Ethyl Ketone	

Metals
Aluminum *
Antimony
Arsenic
Barium*
Beryllium *
Boron*
Cadmium
Chromium
Cobalt
Copper
Iron*
Lead
Mercury*
Nickel *
Selenium
Silver
Thallium
Vanadium
Zinc

Nutrients
Nitrogen, Total*
Ammonia, Unionized
Total Kjeldahl Nitrogen*
Nitrate/Nitrite (NOx) as N*
Nitrate (NO3) as N*
Nitrite (NO2) as N*
Phosphorus, Total*
Chlorophyll a *

Other Laboratory Parameters
Biochemical Oxygen Demand*
Chemical Oxygen Demand*
Total Hardness*
Total Organic Carbon*
Total Dissolved Solids*
Total Suspended Solids*
Escherichia coli*

Field Parameters‡
Conductivity
Dissolved Oxygen
Dissolved Oxygen Saturation
Oxidation Reduction Potential
pH
Temperature
Turbidity

***** - Surface water quality dataset includes detections of the corresponding parameters above the practical quantitation limit (PQL). Distribution and trends are shown for these parameters in Figures 13.1 – 13.27 and 14.1 – 14.27, respectively.

‡ - Distribution and trends for field parameters are shown in Figures 15.1 – 15.7 and 16.1 – 16.7, respectively.

Figure 12: Location of Surface Water Quality Monitoring Stations

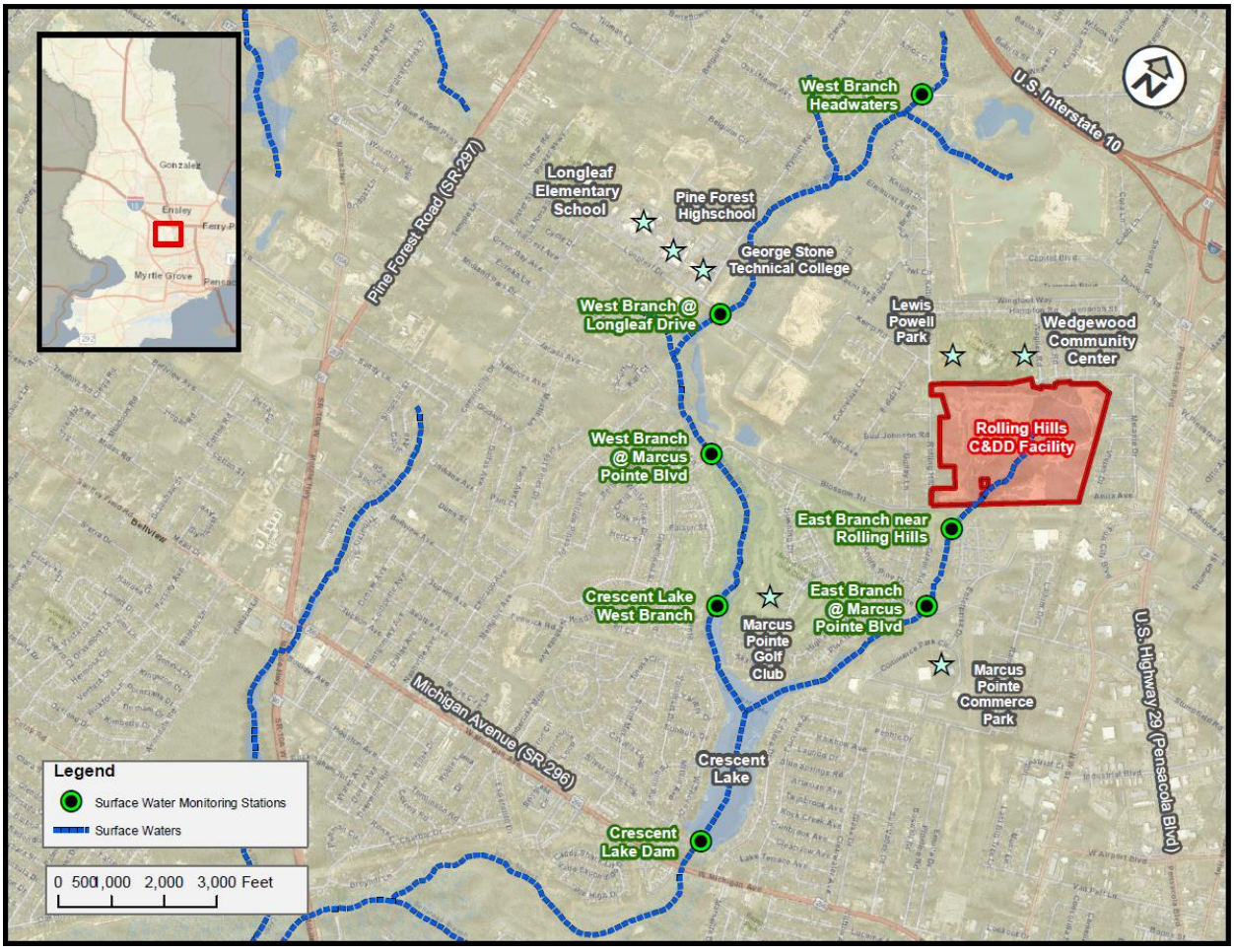


Table 7.1 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: March 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Toluene	ug/L	*	0.41 U (TB)	0.41 U	0.41 U	0.41 U	0.41 U	0.44 I	0.41 U	0.41 U
Metals										
Barium	mg/L	*	NS	0.018 I	0.013 I	0.018 I	0.022 I	0.030 I J	0.024 I	0.031 I
Boron	mg/L	*	NS	0.035 I	0.032 I	0.054 I	0.065 I	0.042 I J	0.220	0.405
Iron	mg/L	1.0	NS	0.510	0.426	0.396	0.475	0.282 J	0.467	0.882
Mercury	ng/L	12	0.20 U (FB)	1.10	1.10	1.70	1.90	4.60	3.70	0.97
Zinc	mg/L	$Zn \leq e^{(0.8473[lnH]+0.884)}/1000$	NS	0.007 I	0.007 U	0.007 U	0.007 U	0.007 U J	0.007 U	0.007 U
Nutrients										
Nitrogen, Total	mg/L	0.67	0.116 U (EB)	0.486	0.479	0.606	0.931	0.827	1.16	3.19
Total Kjeldahl Nitrogen	mg/L	*	0.116 U (EB)	0.267	0.199 I	0.276	0.240	0.345	0.351	1.46
Nitrate/Nitrite (NOx) as N	mg/L	*	0.032 U (EB)	0.219	0.280	0.330	0.691	0.482	0.807	1.73
Nitrate (NO3) as N	mg/L	*	0.038 U (EB)	0.178	0.280	0.330	0.691	0.482	0.764	1.58
Nitrite (NO2) as N	mg/L	*	0.039 I (EB)	0.041 I	0.038 U	0.038 U	0.038 U	0.038 U	0.043 I	0.146
Other Parameters										
Total Dissolved Solids	mg/L	*	15 U (EB)	15 U	27	37	57	51	79	159
Chemical Oxygen Demand	mg/L	*	NS	10.0	8.6 I	6.4 U	6.4 U	8.6 I	15.0	24.0
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	30.2	29.6	29.4	56.3	94.4
Total Organic Carbon	mg/L	*	NS	2.70	2.30	2.50	2.50	2.80	4.50	8.10

Notes:

mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.2 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: April 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇒	⇒	⇒	Downstream	⇐	Upstream
Volatile Organic Constituents										
Metals										
Barium	mg/L	*	0.007 U (EB)	0.021 I	0.014 I	0.017 I	0.020 I	0.026 I	0.026 I	0.029 I
Boron	mg/L	*	0.016 U (EB)	0.030 I	0.027 I	0.043 I	0.056 I	0.067 I	0.194	0.378
Iron	mg/L	1.0	0.026 U (EB)	0.727	0.609	0.599	0.577	0.701	0.585	0.986
Mercury	ng/L	12	0.20 U (FB)	1.80	1.40	3.00	2.40	5.00	3.70	1.10
Nutrients										
Nitrogen, Total	mg/L	0.67	0.235 (EB)	0.587	0.443	0.498	0.780	0.767	1.12	2.05
Total Kjeldahl Nitrogen	mg/L	*	0.235 (EB)	0.349	0.282	0.308	0.298	0.385	0.472	1.02
Nitrate/Nitrite (NOx) as N	mg/L	*	0.032 U (EB)	0.238	0.161	0.190	0.482	0.382	0.652	1.03
Nitrate (NO3) as N	mg/L	*	0.038 U (EB)	0.238	0.161	0.190	0.482	0.099	0.652	0.980
Nitrite (NO2) as N	mg/L	*	0.038 U (EB)	0.038 U	0.038 U	0.038 U	0.038 U	0.283	0.038 U	0.051 I
Phosphorus, Total	mg/L	0.06	0.005 U (EB)	0.008 I	0.006 I	0.006 I	0.005 U	0.010 I	0.007 I	0.009 I
Other Parameters										
Total Dissolved Solids	mg/L	*	15 U (EB)	76	63	63	60	65	83	148
Chemical Oxygen Demand	mg/L	*	NS	13.0	11.0	14.0	12.0	9.3 I	18.0	29.0
Total Hardness	mg/L	*	25.0 U (EB)	25.0 U	25.0 U	26.2	26.0	27.6	51.7	89.6
Total Organic Carbon	mg/L	*	NS	2.80	2.60	2.70	2.70	3.20	4.40	7.90

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.3 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: May 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Barium	mg/L	*	0.007 U (EB)	0.022 I	0.015 I	0.017 I	0.022 I	0.026 I	0.026 I	0.028 I
Boron	mg/L	*	0.016 U (EB)	0.032 I	0.026 I	0.040 I	0.057 I	0.063 I	0.175	0.326
Iron	mg/L	1.0	0.026 U (EB)	1.01	0.856	0.832	0.839	0.838	0.829	1.13
Mercury	ng/L	12	0.20 U (FB)	1.50	1.20	1.70	1.90	3.80	2.70	0.95
Zinc	mg/L	$Zn \leq e^{(0.8473[lnH]+0.884)}/1000$	0.007 U (EB)	0.007 U	0.008 I	0.007 U	0.007 U	0.008 I	0.007 U	0.007 I
Nutrients										
Nitrogen, Total	mg/L	0.67	0.116 U (EB)	0.521	0.436	0.485	0.698	0.595	2.40	1.50
Total Kjeldahl Nitrogen	mg/L	*	0.116 U (EB)	0.385	0.297	0.305	0.357	0.455	0.537	0.818
Nitrate/Nitrite (NOx) as N	mg/L	*	0.032 U (EB)	0.136	0.139	0.180	0.341	0.140	1.87	0.684
Nitrate (NO3) as N	mg/L	*	0.038 U (EB)	0.136	0.139	0.180	0.341	0.140	1.87	0.628
Nitrite (NO2) as N	mg/L	*	0.038 U (EB)	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.056 I
Other Parameters										
Total Dissolved Solids	mg/L	*	15 U (EB)	55	46	48	59	53	91	131
Chemical Oxygen Demand	mg/L	*	NS	13.0	12.0	13.0	15.0	15.0	15.0	26.0
Total Hardness	mg/L	*	25.0 U (EB)	25.0 U	25.0 U	25.0 U	28.6	27.0	52.7	85.6
Total Organic Carbon	mg/L	*	NS	3.60	3.00	2.90	3.40	3.40	4.60	7.80

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.4 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: June 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	0.088 U (EB)	0.088 U	0.295 I	0.167 I	0.088 U	0.088 U J	0.088 U	0.088 U
Barium	mg/L	*	0.007 U (EB)	0.023 I	0.017 I	0.018 I	0.020 I	0.023 I	0.024 I	0.029 I
Boron	mg/L	*	0.016 U (EB)	0.030 I	0.025 I	0.043 I	0.052 I	0.055 I	0.122	0.213
Iron	mg/L	1.0	0.050 I (EB)	1.16	1.51	1.11	1.10	0.894	1.04	1.63
Mercury	ng/L	12	0.20 U (FB)	2.00	2.30	2.80	3.30	3.90	2.80	1.30
Nutrients										
Nitrogen, Total	mg/L	0.67	0.116 U (EB)	0.742	0.616	0.560	0.647	0.659	0.975	1.75
Total Kjeldahl Nitrogen	mg/L	*	0.116 U (EB)	0.574	0.484	0.443	0.397	0.618	0.482	1.21
Nitrate/Nitrite (NOx) as N	mg/L	*	0.032 U (EB)	0.168	0.132	0.117	0.250	0.041 I	0.493	0.535
Nitrate (NO3) as N	mg/L	*	0.038 U (EB)	0.168	0.132	0.117	0.250	0.041 I	0.493	0.416
Nitrite (NO2) as N	mg/L	*	0.038 U (EB)	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.119
Phosphorus, Total	mg/L	0.06	0.005 U (EB)	0.005 U	0.021	0.008 I	0.005 U	0.024	0.010 I	0.014 I
Other Parameters										
Total Dissolved Solids	mg/L	*	15 U (EB)	62	55	62	51	60	74	121
Total Suspended Solids	mg/L	*	2.0 U (EB)	2.0 U	2.6 I	2.0 U	2.0 U	2.5 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.5	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	18.0	14.0	15.0	13.0	15.0	14.0	23.0
Total Hardness	mg/L	*	25.0 U (EB)	26.4	25.0 U	27.4	27.4	26.9	45.1	70.5
Total Organic Carbon	mg/L	*	NS	5.10	4.90	4.90	5.00	3.90	5.70	8.90

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.5 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: July 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⟹	⟹	⟹	Downstream	⟸	Upstream
Volatile Organic Constituents										
Benzene	ug/L	71.28[d]	0.38 U (TB)	0.38 U	0.53 I	0.42 I	0.78 I	0.38 U	0.38 U	0.38 U
Metals										
Aluminum	mg/L	*	0.088 U (EB)	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U J	0.102 I	0.088 U
Barium	mg/L	*	0.007 U (EB)	0.021 I	0.015 I	0.017 I	0.023 I	0.017 I	0.026 I	0.026 I
Boron	mg/L	*	0.016 U (EB)	0.031 I	0.028 I	0.048 I	0.065 I	0.056 I	0.152	0.283
Iron	mg/L	1.0	0.026 U (EB)	1.19	0.864	0.757	0.891	1.09	1.44	1.27
Mercury	ng/L	12	0.22 I (FB)	1.50	1.40	2.00	2.20	2.40	4.20	1.10
Zinc	mg/L	$Zn \leq e^{(0.8473[lnH]+0.884)}/1000$	0.007 U (EB)	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.009 I	0.007 U
Nutrients										
Nitrogen, Total	mg/L	0.67	0.116 U (EB)	0.505	0.358	0.452	0.635	0.439	0.661	1.51
Total Kjeldahl Nitrogen	mg/L	*	0.116 U (EB)	0.430	0.242	0.273	0.324	0.439	0.331	1.02
Nitrate/Nitrite (NOx) as N	mg/L	*	0.032 U (EB)	0.075	0.116	0.179	0.311	0.032 U	0.330	0.487
Nitrate (NO3) as N	mg/L	*	0.038 U (EB)	0.075	0.116	0.179	0.311	0.038 U	0.330	0.487
Phosphorus, Total	mg/L	0.06	0.005 (EB)	0.025	0.005 U	0.005 U	0.013 I	0.005 U	0.016 I	0.005 U
Other Parameters										
Total Dissolved Solids	mg/L	*	15 U (EB)	51	44	52	59	47	80	132
Total Suspended Solids	mg/L	*	2.0 U (EB)	2.0 U	2.0 U	2.0 I	2.8 I	2.9 I	5.1 I	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	11.0	12.0	10.0	6.4 U	10.0	14.0	19.0
Total Hardness	mg/L	*	25.0 U (EB)	25.0 U	25.0 U	26.3	30.9	25.0 U	46.5	73.9
Total Organic Carbon	mg/L	*	NS	3.60	2.90	2.90	3.20	3.70	4.90	7.00

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.6 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: August 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	0.088 U (EB)	0.132 I	0.200 I	0.275 I	0.258 I	0.088 U J	0.088 U	0.088 U
Barium	mg/L	*	0.007 U (EB)	0.024	0.016 I	0.018 I	0.019 I	0.007 U	0.019 I	0.022 I
Boron	mg/L	*	0.016 U (EB)	0.031 I	0.026 I	0.053 I	0.060 I	0.060 I	0.093	0.137
Iron	mg/L	1.0	0.026 U J (EB)	1.36 J	0.955 J	0.870 J	0.767 J	0.958 J	0.871 J	1.50 J
Mercury	ng/L	12	0.22 I (FB)	2.20	2.80	3.70	3.30	2.00	0.55	1.10
Nutrients										
Nitrogen, Total	mg/L	0.67	0.116 U (EB)	0.517	0.427	0.532	0.552	0.440	0.524	0.703
Total Kjeldahl Nitrogen	mg/L	*	0.116 U (EB)	0.475	0.352	0.422	0.375	0.440	0.303	0.492
Nitrate/Nitrite (NOx) as N	mg/L	*	0.032 U (EB)	0.042 I	0.075	0.110	0.177	0.032 U J	0.221	0.211
Nitrate (NO3) as N	mg/L	*	0.038 U (EB)	0.042 I	0.075	0.110	0.177	0.038 U	0.221	0.211
Phosphorus, Total	mg/L	0.06	0.005 U (EB)	0.017 I	0.020	0.021	0.025	0.017 I J	0.016 I	0.018 I
Other Parameters										
Total Dissolved Solids	mg/L	*	15 U (EB)	68	60	68	54	72	60	85
Total Suspended Solids	mg/L	*	2.0 U (EB)	2.3 I	2.0 U	4.0 I	3.2 I	3.2 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0	2.0 U	2.0 U	2.0 U	2.4	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	26.0	17.0	14.0	16.0	13.0	7.4 I	12.0
Total Hardness	mg/L	*	25.0 U (EB)	26.8 U	25.0	26.7	27.3	25.0 U	33.5	46.0
Total Organic Carbon	mg/L	*	NS	8.80	5.90	5.40	5.30	3.70	4.10	5.60

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.7 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: September 2019

Parameter	Units	Class III SW Standard	Sample QC	West Branch Headwaters ECSW-5	West Branch @ Longleaf Drive ECSW-4	West Branch @ Marcus Pointe Blvd ECSW-3	Crescent Lake West Branch ECSW-2	Crescent Lake Dam ECSW-1	East Branch @ Marcus Pointe Blvd ECSW-6	East Branch near Rolling Hills ECSW-7
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.243 I	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U	0.088 U
Barium	mg/L	*	NS	0.021 I	0.014 I	0.016 I	0.022 I	0.014 I	0.029 I	0.040 I
Boron	mg/L	*	NS	0.028	0.028	0.035	0.060	0.055	0.185	0.354 J
Iron	mg/L	1.0	NS	1.75	0.849	0.564	0.795	1.05	1.08	2.03
Mercury	ng/L	12	0.20 U (FB)	1.70	1.00	1.30	1.80	2.00	3.30	0.99
Zinc	mg/L	$Zn \leq e^{(0.8473[lnH]+0.884)}/1000$	NS	0.007 U	0.008 I	0.007 U	0.009 I	0.007 U	0.007 U	0.007 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.436	0.502	0.532	1.63	0.499	0.767	1.88
Total Kjeldahl Nitrogen	mg/L	*	NS	0.394	0.348	0.318	0.359	0.499	0.454	1.75
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.042 I	0.154	0.214	1.27	0.032 U	0.313	0.129
Nitrate (NO3) as N	mg/L	*	NS	0.042 I	0.154	0.214	1.27	0.038 U	0.313	0.129
Phosphorus, Total	mg/L	0.06	NS	0.022	0.011 I	0.007 I	0.007 I	0.024	0.009 I	0.018 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	54	62	46	71	60	111	160
Total Suspended Solids	mg/L	*	NS	5.4 I	2.0 U	2.0 U	2.0 U	4.3 I	4.1 I	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	2.0 U	8.7	2.0 U	2.2
Chemical Oxygen Demand	mg/L	*	NS	11.0	6.4 U	6.4 U	8.4 I	19.0	13.0	22.0
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	25.0 U	30.2	27.7	54.7	89.8
Total Organic Carbon	mg/L	*	NS	3.40	2.60	2.50	2.90	3.60	4.60	8.00

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.8 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: October 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Toluene	ug/L	*	0.41 U (TB)	0.52 I	0.48 I	0.45 I	0.41 U	0.41 U	0.41 U	0.49 I
Metals										
Aluminum	mg/L	*	NS	0.088 U	0.088 U	0.106 I	0.088 U	0.092 I	0.088 U	0.088 U
Barium	mg/L	*	NS	0.019 I	0.015 I	0.019 I	0.023 I	0.026 I	0.023 I	0.028 I
Boron	mg/L	*	NS	0.028 I J	0.028 I J	0.049 I J	0.058 I J	0.061 I J	0.176 J	0.301 J
Iron	mg/L	1.0	NS	0.736	0.515	0.501	0.600	1.39	0.759	1.27
Mercury	ng/L	12	0.20 I (FB)	1.60	1.50	2.10	2.50	3.20	2.90	0.99
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.425	0.378	0.451	0.653	0.840 J	0.794	1.71
Total Kjeldahl Nitrogen	mg/L	*	NS	0.368	0.214	0.286	0.185 I	0.640	0.263	1.25
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.057 I	0.164	0.165	0.468	0.200	0.531	0.455
Nitrate (NO3) as N	mg/L	*	NS	0.057 I	0.164	0.165	0.468	0.200	0.531	0.399
Nitrite (NO2) as N	mg/L	*	NS	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.056 I
Phosphorus, Total	mg/L	0.06	NS	0.008 I	0.006 I	0.005 U	0.005 U	0.008 I	0.011 I	0.007 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	54	54	58	61	59	66	142
Total Suspended Solids	mg/L	*	NS	2.1 I	2.0 U	2.5 I	2.0 U	9.6 I	2.0 U	2.3 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.3	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	19.0	11.0	11.0	6.4 I	10.0	9.8 I	19.0
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	31.2	29.3	26.9	47.3	74.5
Total Organic Carbon	mg/L	*	NS	6.90	5.00	4.80	3.80	3.00	5.60	9.20

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.9 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: November 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.088 U	0.379 I	0.102 I	0.088 U	0.101 I	0.088 U	0.088 U J
Barium	mg/L	*	NS	0.016 I	0.014 I	0.016 I	0.023 I	0.025 I	0.021 I	0.023 I
Boron	mg/L	*	NS	0.026 I J	0.024 I J	0.037 I J	0.056 I J	0.058 I J	0.152 J	0.260 J
Iron	mg/L	1.0	NS	0.701	0.878	0.435	0.476	0.515	0.614	0.704
Mercury	ng/L	12	NS	1.10	1.30	2.20	2.00	3.20	2.10	0.85
Zinc	mg/L	$Zn \leq e^{(0.8473[lnH]+0.884)}/1000$	NS	0.007 U	0.007 I	0.007 U	0.007 U	0.007 U	0.009 I	0.007 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.399	0.398	0.478	0.848	0.671	0.724	1.46
Total Kjeldahl Nitrogen	mg/L	*	NS	0.252	0.200	0.227	0.169 I	0.356	0.275	0.787
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.147	0.198	0.251	0.679	0.315	0.449	0.670
Nitrate (NO3) as N	mg/L	*	NS	0.147	0.198	0.251	0.679	0.315	0.449	0.624
Nitrite (NO2) as N	mg/L	*	NS	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.046 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	45	44	57	65	56	134	116
Total Suspended Solids	mg/L	*	NS	2.0 U	12.3	2.0 U	2.0 U	4.0 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	14.0	2.0 U	2.0 U	2.2
Chemical Oxygen Demand	mg/L	*	NS	11.0	16.0	10.0	6.4 U	9.8 I	18.0	22.0
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	25.9	28.9	25.0 U	46.5	71.8
Total Organic Carbon	mg/L	*	NS	3.70	3.70	4.40	5.60	2.80	5.00	7.00

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.10 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: December 2019

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇒	⇒	⇒	Downstream	⇐	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.094 I J	0.111 I J	0.113 I J	0.088 U J	0.088 U J	0.088 U J	0.088 U J
Barium	mg/L	*	NS	0.019	0.014	0.016	0.022	0.025 J	0.020	0.022
Boron	mg/L	*	NS	0.028 I J	0.023 I J	0.040 I J	0.058 I J	0.057 I J	0.156 J	0.249 J
Iron	mg/L	1.0	NS	0.891	0.575	0.580	0.634	0.374 J	0.719	0.804
Mercury	ng/L	12	NS	2.70	3.10	3.80	4.40	4.60	3.30	1.40
Zinc	mg/L	$Zn \leq e^{(0.8473[lnH]+0.884)}/1000$	NS	0.007 U	0.007 U	0.007 U	0.007 U	0.008 I J	0.007 U	0.007 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.594	0.501	0.562	0.750	0.836	0.801	1.54
Total Kjeldahl Nitrogen	mg/L	*	NS	0.479	0.315	0.389	0.299	0.444	0.359	0.854
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.115	0.186	0.173	0.451	0.392	0.442	0.683
Nitrate (NO3) as N	mg/L	*	NS	0.115	0.186	0.173	0.451	0.392	0.442	0.637
Nitrite (NO2) as N	mg/L	*	NS	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.046 I
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.006 I	0.007 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	74 V	63 V	93 V	94 V	78 J V	118 V	147 V
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.1 I	2.0 U	3.1 I	2.0 U	2.2 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.2	2.2	2.0 U	2.0 U	2.0 U	2.0 U	4.2
Chemical Oxygen Demand	mg/L	*	NS	19.0	14.0	12.0	6.4 I	6.4 U	8.1 I	15.0
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	28.3	28.5	25.0 U	45.9	70.1
Total Organic Carbon	mg/L	*	NS	6.40	4.70	4.20	3.80	2.40	4.80	6.80

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.11 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: January 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.088 U	0.106	0.093	0.088 U	0.088 U J	0.088 U	0.088 U
Barium	mg/L	*	NS	0.022 I	0.015 I	0.015 I	0.023 I	0.025 I	0.021 I	0.023 I
Boron	mg/L	*	NS	0.031 I	0.029 I	0.029 I	0.064 I	0.058 I	0.152	0.255
Iron	mg/L	1.0	NS	1.08	0.886	0.861	0.684	0.716	0.870	1.18
Mercury	ng/L	12	0.20 U (FB)	0.83 V	1.51 V	1.93 V	2.28 V	4.69	1.87 V	0.37 I V
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.639	0.776	0.767	1.02	0.846	0.952	1.76
Total Kjeldahl Nitrogen	mg/L	*	NS	0.431	0.561	0.472	0.426	0.517	0.472	1.26
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.208	0.215	0.295	0.598	0.329	0.480	0.498
Nitrate (NO3) as N	mg/L	*	NS	0.208	0.215	0.295	0.598	0.329	0.480	0.498
Phosphorus, Total	mg/L	0.06	NS	0.018 I J V	0.028 J V	0.008 I J V	0.007 I J V	0.032 J V	0.012 I J V	0.015 I J V
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	97	93	90	86	72	124	157
Chemical Oxygen Demand	mg/L	*	NS	14.6 I	19.7 I	15.2 I	12.5 U	12.5 U	14.8 I	17.2 I
Total Hardness	mg/L	*	NS	29.5	26.3	25.0 U	34.0	26.7	49.1	76.0
Total Organic Carbon	mg/L	*	NS	4.00	3.80	3.60	3.20	2.90	3.60	5.70

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.12 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: February 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.088 U	0.229 I	0.155 I	0.094 I	0.088 U J	0.088 U	0.088 U
Barium	mg/L	*	NS	0.021 I	0.017 I	0.018 I	0.023 I	0.024 I	0.024 I	0.027 I
Boron	mg/L	*	NS	0.030 I	0.028 I	0.036 I	0.062 I	0.057 I	0.147	0.257
Iron	mg/L	1.0	NS	0.505	0.826	0.755	0.560	0.498	0.688	0.927
Mercury	ng/L	12	0.20 U (FB)	0.27 I	0.73	0.84	1.38	3.40	1.22	0.20 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.638	0.675	0.732	0.858	0.840	0.795	1.49
Total Kjeldahl Nitrogen	mg/L	*	NS	0.394	0.306	0.348	0.271	0.398	0.318	0.887
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.244	0.369	0.384	0.587	0.442	0.477	0.602
Nitrate (NO3) as N	mg/L	*	NS	0.244	0.369	0.384	0.587	0.442	0.477	0.602
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.008 I V	0.005 U	0.048 V	0.005 U	0.005 U	0.010 I V
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	67	64	55	64	68	119	141
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 I	2.0 U	2.0 U	2.1 I	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	16.9 I	16.5 I	12.5 U	12.5 U	28.5	12.5 U	17.8 I
Total Hardness	mg/L	*	NS	31.2	25.8	27.0	31.9	25.9	48.8	79.5
Total Organic Carbon	mg/L	*	NS	4.00	3.60	3.40	2.90	2.70	3.60	6.20

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.13 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: March 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇨	⇨	⇨	Downstream	⇦	Upstream
Volatile Organic Constituents										
Metals										
Barium	mg/L	*	NS	0.020 I	0.018 I	0.018 I	0.023 I	0.024 I	0.024 I	0.029 I
Boron	mg/L	*	NS	0.031 I	0.032 I	0.039 I	0.064 I	0.060 I	0.120	0.351
Iron	mg/L	1.0	NS	1.08	0.811	0.839	0.814	0.421 J	0.786	1.12
Mercury	ng/L	12	0.20 U (FB)	1.18	1.15	1.76	2.25	3.69	2.49	0.56
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.508	0.530	0.526	0.668	0.751	0.581	0.895
Total Kjeldahl Nitrogen	mg/L	*	NS	0.373	0.283	0.314	0.227	0.354 J	0.268	0.620
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.135	0.247	0.212	0.441	0.397	0.313	0.275
Nitrate (NO3) as N	mg/L	*	NS	0.135	0.247	0.212	0.441	0.397	0.313	0.275
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.007 I	0.005 U	0.005 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	60	54	64	70	59	84	146
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	9.8	9.6	9.4	9.7	9.6	11.2	9.6
Chemical Oxygen Demand	mg/L	*	NS	12.5 U	23.2	16.3 I	16.9 I	27.3	23.9	17.9 I
Total Hardness	mg/L	*	NS	25.0 U	26.3	26.4	30.3	25.0 U	40.7	95.2
Total Organic Carbon	mg/L	*	NS	3.70	3.20	3.20	3.00	2.50	3.60	7.00

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.14 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: April 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Barium	mg/L	*	NS	0.019 I	0.016 I	0.019 I	0.026 I	0.028 I	0.028 I	0.028 I
Boron	mg/L	*	NS	0.029 I	0.028 I	0.036 I	0.065 I	0.064 I	0.129	0.286
Iron	mg/L	1.0	NS	1.81	1.15	0.979	0.844	0.582	0.745	1.37
Mercury	ng/L	12	0.25 U (FB)	1.88	1.28	2.79	2.70	3.65	3.45	0.81
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.726	0.381	0.563	0.770	0.548	0.842	0.752
Total Kjeldahl Nitrogen	mg/L	*	NS	0.726	0.285	0.368	0.329	0.392 J	0.382	0.673
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U J	0.096 J	0.195 J	0.441 J	0.156 J	0.460 J	0.079 J
Nitrate (NO3) as N	mg/L	*	NS	0.032 U	0.096	0.195	0.441	0.156	0.460	0.079
Phosphorus, Total	mg/L	0.06	NS	0.020	0.010 I	0.008 I	0.006 I	0.010 I	0.006 I	0.009 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	56	58	55	66	58	71	114
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 U	3.4 I	2.0 U	2.1 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	4.2	4.2	3.7	3.4	4.2	3.9	3.8
Chemical Oxygen Demand	mg/L	*	NS	14.5 I	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	21.3
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	26.9	30.7	27.6	37.1	74.5
Total Organic Carbon	mg/L	*	NS	5.60	3.80	3.30	3.30	2.70	3.20	6.20

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.15 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: May 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.099 I	0.121 I	0.088 U	0.088 U	0.088 U J	0.088 U	0.088 U
Barium	mg/L	*	NS	0.023 I	0.018 I	0.019 I	0.025 I	0.028 I	0.027 I	0.029 I
Boron	mg/L	*	NS	0.035 I	0.032 I	0.039 I	0.060 I	0.065 I	0.187	0.322
Iron	mg/L	1.0	NS	1.18	1.17	0.872	0.941	0.545 J	0.843	1.35
Mercury	ng/L	12	0.25 U (FB)	2.19	1.51	2.35	2.74	4.66	3.08	1.08
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.561	0.497	0.472	0.561	0.650	0.697	0.639
Total Kjeldahl Nitrogen	mg/L	*	NS	0.525	0.441	0.373	0.345	0.650	0.467	0.562
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.036 I	0.056 I	0.099	0.216	0.032 U	0.230	0.077
Nitrate (NO3) as N	mg/L	*	NS	0.036 I	0.056 I	0.099	0.216	0.032 U	0.230	0.077
Phosphorus, Total	mg/L	0.06	NS	0.013 I	0.027	0.010 I	0.008 I	0.022	0.021	0.017 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	68	78	77	78	62	118	167
Total Suspended Solids	mg/L	*	NS	2.9 I	2.0 I	2.0 U	2.0 U	4.7 I	2.0 U	2.8 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	3.6	3.6	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	24.9	20.0	13.5 I	12.5 U	14.9 I	12.5 U	18.3 I
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	25.8	27.4	26.6	48.3	77.2
Total Organic Carbon	mg/L	*	NS	8.80	5.60	4.90	4.30	4.90	4.70	8.00

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.16 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: June 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				Downstream ←		Upstream
Volatile Organic Constituents										
Metals										
Barium	mg/L	*	NS	0.026 I	0.020 I	0.022 I	0.026 I	0.027 I	0.025 I	0.027 I
Boron	mg/L	*	NS	0.032 I	0.032 I	0.040 I	0.072 I	0.059 I	0.116	0.210
Iron	mg/L	1.0	NS	3.25	1.89	1.65	0.772	0.602	1.28	2.14
Mercury	ng/L	12	0.20 U (FB)	1.96	0.91	2.82	1.85	NS	2.47	0.60
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.531	0.375	0.662	0.688	0.631	0.556	0.458
Total Kjeldahl Nitrogen	mg/L	*	NS	0.480	0.334	0.461	0.443	0.631	0.301	0.401
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.051 I	0.041 I	0.201	0.245	0.032 U	0.255	0.057 I
Nitrate (NO3) as N	mg/L	*	NS	0.051 I	0.041 I	0.201	0.245	0.032 U	0.255	0.057 I
Phosphorus, Total	mg/L	0.06	NS	0.012 I	0.008 I	0.005 I	0.007 I	0.018 I	0.010 I	0.011 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	65	61	70	76	58	58	92
Total Suspended Solids	mg/L	*	NS	5.4 I	2.3 I	2.0 U	2.0 U	4.9 I	2.0 U	2.9 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	4.2	2.0 U	2.0 U	2.0 U	2.0 U	4.3	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	28.6	31.7	19.7 I	44.7	23.0	14.0 I	25.8
Total Hardness	mg/L	*	NS	25.0 U	25.9	28.8	34.2	26.1	39.6	62.2
Total Organic Carbon	mg/L	*	NS	7.22	5.79	5.01	5.33	6.15	3.77 V	6.20

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.17 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: July 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Barium	mg/L	*	NS	0.019 I J	0.018 I J	0.019 I J	0.026 I J	0.025 I J	0.024 I J	0.028 I J
Boron	mg/L	*	NS	0.030 I	0.028 I	0.042 I	0.070 I	0.057 I	0.113	0.181
Iron	mg/L	1.0	NS	2.11	1.30	1.11	0.770	0.768	0.935	1.88
Mercury	ng/L	12	0.20 U (FB)	1.78	1.23	2.98	2.02	2.28	1.92	0.65
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.497	0.484	0.558	0.854	0.540	0.520	0.533
Total Kjeldahl Nitrogen	mg/L	*	NS	0.497	0.443	0.409	0.466	0.540	0.351	0.455
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U	0.041 I	0.149	0.388	0.032 U	0.169	0.078
Nitrate (NO3) as N	mg/L	*	NS	0.032 U	0.041 I	0.149	0.388	0.032 U	0.169	0.078
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	45	61	71	75	58	96	127
Total Suspended Solids	mg/L	*	NS	2.9 I	3.3 I	2.0 U	2.0 U	3.9 I	2.0 U	2.1 I
Chemical Oxygen Demand	mg/L	*	NS	17.4 I	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	20.5
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	29.6	30.6	25.0 U	40.4	59.0
Total Organic Carbon	mg/L	*	NS	6.70	4.2	4.40	3.80	3.60	3.90	6.00

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.18 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: August 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				Downstream ←		Upstream
Volatile Organic Constituents										
Acetone	ug/L	*	5.3 U (TB)	7.6 I	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U
Ethylbenzene	ug/L	*	0.30 U (TB)	0.30 U	0.30 U	0.38 I	0.30 U	0.30 U	0.30 U	0.30 U
Metals										
Aluminum	mg/L	*	NS	0.167 I J	0.785 J	0.599 J	0.311 I J	0.088 U J	0.088 U J	0.348 I J
Barium	mg/L	*	NS	0.017 I J	0.018 I J	0.018 I J	0.020 I J	0.024 I J	0.016 I J	0.017 I J
Boron	mg/L	*	NS	0.025 I J	0.027 I J	0.039 I J	0.041 I J	0.049 I J	0.067 I J	0.087 J
Iron	mg/L	1.0	NS	0.963	1.78	1.34	1.07	1.16 J	0.749 J	1.42 J
Mercury	ng/L	12	0.25 U (FB)	4.32	4.68	4.04	4.58	2.65	2.35	1.73
Zinc	mg/L	$Zn \le e^{(0.8473[lnH]+0.884)}/1000$	NS	0.007 U J	0.007 U J	0.012 I J	0.007 U J	0.019 I J	0.007 U J	0.007 U J
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.984	1.03	0.931	0.894	0.859	0.708	0.847
Total Kjeldahl Nitrogen	mg/L	*	NS	0.926	0.939	0.838	0.745	0.805 J	0.585	0.738
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.058 I	0.086	0.093	0.149	0.054 I	0.123	0.109
Nitrate (NO3) as N	mg/L	*	NS	0.058 I	0.086	0.093	0.149	0.054 I	0.123	0.109
Phosphorus, Total	mg/L	0.06	NS	0.015 I V	0.097	0.054 V	0.044 V	0.009 I V	0.005 U	0.009 I V
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	57	69	68	54	46	53	66
Total Suspended Solids	mg/L	*	NS	2.0 U	4.7 I	3.4 I	2.7 I	3.9 I	2.0 U	3.3 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	52.9	38.3	35.1 J	40.3	21.0	18.4 I	22.5
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	28.3	25.0 U	25.0 U	28.8	37.3
Total Organic Carbon	mg/L	*	NS	14.60	9.90	8.00	7.80	3.90	3.80	4.70

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.19 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: September 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Acetone	ug/L	*	5.3 U (TB)	5.3 U	5.7 I	10.5 I	5.3 U	5.3 U	5.3 U	5.3 U
Metals										
Aluminum	mg/L	*	NS	0.088 U J	0.142 J	0.115 J	0.088 U J	0.088 U J	0.088 U J	0.088 U J
Barium	mg/L	*	NS	0.018 I	0.018 I	0.019 I	0.022 I	0.022 I	0.027 I	0.033 I
Boron	mg/L	*	NS	0.027 I	0.028 I	0.039 I	0.053 I	0.047 I	0.139	0.219
Iron	mg/L	1.0	NS	0.841 J	1.89 J	1.57 J	1.40 J	0.971 J	2.05 J	3.53 J
Mercury	ng/L	12	0.509 (FB)	1.63	2.56	2.41	NS	2.94	2.55	0.994
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.608	0.885	0.687	0.820	0.820	1.16	2.12
Total Kjeldahl Nitrogen	mg/L	*	NS	0.414	0.541	0.422	0.388	0.761	0.870	2.01
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.194	0.344	0.265	0.432	0.059 I	0.291	0.115
Nitrate (NO3) as N	mg/L	*	NS	0.194	0.344	0.265	0.432	0.059 I	0.200	0.115
Nitrite (NO2) as N	mg/L	*	NS	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.091	0.038 U
Phosphorus, Total	mg/L	0.06	NS	0.005 I	0.070	0.047	0.031	0.047	0.011 I	0.028
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	53.0	60.0	65.0	72.0	68.0	104	144
Total Suspended Solids	mg/L	*	NS	2.00 U	4.60 I	2.50 I	2.00 U	6.30 I	2.00 U	2.00 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	2.0 U	3.7	2.0 U J	2.0 U J
Chemical Oxygen Demand	mg/L	*	NS	19.6 I	18.7 I	15.6 I	16.4 I	30.2 J	17.3 I	27.1
Total Hardness	mg/L	*	NS	25.0 U	26.4	32.0	32.7	34.0	65.7	94.4
Total Organic Carbon	mg/L	*	NS	5.4	5.9	5.7	5.1	5.7	5.9	8.4

Notes:

mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.20 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: October 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇒	⇒	⇒	Downstream	⇐	Upstream
Volatile Organic Constituents										
Acetone	ug/L	*	5.3 U (TB)	5.5 I	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U
Metals										
Aluminum	mg/L	*	NS	0.092 I Q	0.230 Q	0.200 Q	0.130 I Q	0.120 I Q	0.088 I Q	0.110 I Q
Barium	mg/L	*	NS	0.025 Q	0.018 Q	0.021 Q	0.025 Q	0.022 Q	0.028 Q	0.034 Q
Boron	mg/L	*	NS	0.033 I Q	0.033 I Q	0.044 I Q	0.057 I Q	0.061 I Q	0.150 Q	0.230 Q
Iron	mg/L	1.0	NS	0.840 Q	1.20 Q	1.10 Q	1.30 Q	1.40 Q	1.30 Q	2.00 Q
Mercury	ng/L	12	0.20 U (FB)	1.34	1.41	2.59	2.35	2.11	2.38	1.02
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	2.62	0.753	0.741	1.02	0.847	0.954	1.71
Total Kjeldahl Nitrogen	mg/L	*	NS	2.44	0.506	0.538	0.599	0.679	0.676	1.53
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.182	0.247	0.203	0.420	0.168	0.278	0.177
Nitrate (NO3) as N	mg/L	*	NS	0.182	0.247	0.203	0.420	0.168	0.278	0.177
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.100	0.007 I	0.017 I	0.009 I	0.005 U	0.009 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	60	70	79	74	64	106	134
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 I	2.8 I	2.0 U	2.4 I
Chemical Oxygen Demand	mg/L	*	NS	17.3 I	16.4 I	12.5 U	21.3	17.0 I	18.4 I	25.9
Total Hardness	mg/L	*	NS	29.7	29.0	34.9	32.7	33.0	66.4	97.6
Total Organic Carbon	mg/L	*	NS	4.10	4.30	4.20	3.60	3.50	4.60	6.70

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.21 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: November 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				← Downstream		Upstream
Volatile Organic Constituents										
Benzene	ug/L	71.28[d]	0.30 U (TB)	0.85 I	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Bromomethane	ug/L	*	8.10 U (TB)	8.10 U	12.20	8.10 U	8.10 U	8.10 U	8.10 U	8.10 U
Chloromethane	ug/L	470.8[d]	0.43 U J (TB)	0.43 U J	0.43 U J	0.43 U J	0.43 U J	0.47 I J	0.43 U J	0.43 U J
Metals										
Aluminum	mg/L	*	NS	0.083 I	0.058 I	0.070 I	0.071 I	0.110 I	0.051 U	0.051 U
Barium	mg/L	*	NS	0.022	0.018	0.019	0.027	0.027	0.026	0.031
Boron	mg/L	*	NS	0.033 I	0.034 I	0.039 I	0.063 I	0.061 I	0.150	0.220
Cadmium	mg/L	$Cd \le e^{(0.7409[lnH]-4.719)}/1000$	NS	0.001 U	0.001 I	0.001 I	0.001 U	0.001 U	0.001 U	0.001 U
Chromium	mg/L	$Cr \le e^{(0.819[lnH]+0.6848)}/1000$	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.006 I	0.005 U
Iron	mg/L	1.0	NS	0.720	0.850	0.720	0.910	1.00	0.950	1.40
Lead	mg/L	$Pb \le e^{(1.273[lnH]-4.705)}/1000$	NS	0.003 I V	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Mercury	ng/L	12	0.20 U (FB)	0.73	1.07	1.74	1.74	2.72	1.89	0.58
Silver	mg/L	0.00007[a]	NS	0.001 I V	0.001 U	0.001 I V	0.001 U	0.002 I V	0.001 U	0.001 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.512	0.622	0.607	0.929	1.50	0.785	1.38
Total Kjeldahl Nitrogen	mg/L	*	NS	0.369 J	0.337 J	0.348 J	0.447 J	1.16 J	0.459	1.09
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.143	0.285	0.259	0.482	0.340	0.326	0.291
Nitrate (NO3) as N	mg/L	*	NS	0.143	0.285	0.259	0.482	0.340 U	0.326	0.253
Nitrite (NO2) as N	mg/L	*	NS	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U J	0.038 U	0.038 I
Phosphorus, Total	mg/L	0.06	NS	0.010 I	0.011 I	0.034	0.017 I	0.016 I	0.005 U	0.012 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	62 V	66 V	63 V	80 V	60 V	108 V	141 V
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.5 I	2.9 I	2.0 U	2.0 U
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	26.2	31.5	27.2	55.6	81.0
Total Organic Carbon	mg/L	*	NS	4.10	3.60	3.40	2.70	2.80	4.10	6.40

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.22 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: December 2020

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Acetone	ug/L	*	5.3 U (TB)	5.3 U	5.3 U	5.3 U	5.3 U	5.4 I	5.3 U	5.3 U
1,4-Dichlorobenzene	ug/L	*	0.28 U (TB)	0.28 U	0.28 U	0.28 U	0.28 U	0.56 I	0.28 U	0.28 U
Ethylbenzene	ug/L	*	0.30 U (TB)	0.30 U	0.30 U	0.30 U	0.30 U	0.32 I	0.30 U	0.30 U
Metals										
Aluminum	mg/L	*	NS	0.069 I	0.100 I	0.170 I	0.099 I	0.110 I	0.051 U	0.051 U
Barium	mg/L	*	NS	0.016	0.014	0.015	0.022	0.024	0.021	0.024
Boron	mg/L	*	NS	0.028 I	0.027 I	0.033 I	0.058 I	0.056 I	0.120	0.200
Iron	mg/L	1.0	NS	0.250	0.530	0.500	0.460	0.620	0.600	0.970
Mercury	ng/L	12	0.20 U (FB)	0.66	1.02	3.77	2.09	4.10	2.26	0.36 I
Silver	mg/L	0.00007[a]	NS	0.001 I	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.439	0.576	0.522	1.07	0.813	0.779	1.19
Total Kjeldahl Nitrogen	mg/L	*	NS	0.219	0.226	0.183	0.340	0.441	0.270	0.643
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.220	0.350	0.339	0.732	0.372	0.509	0.551
Nitrate (NO3) as N	mg/L	*	NS	0.220	0.350	0.339	0.732	0.372	0.509	0.551
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.015 I	0.005 U	0.005 U
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	56	50	64	75	61	90	123
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 U	3.5 I	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	23.0	18.4 I	15.0 I	14.5 I	23.3 J	17.0 I	31.2
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	25.0 U	28.0	25.0 U	48.6	77.2
Total Organic Carbon	mg/L	*	NS	3.20	2.90	2.70	2.00	2.50	3.20	5.50

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.23 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: January 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.051 U	0.051 U	0.120 I	0.051 U	0.110 I	0.051 U	0.051 U
Barium	mg/L	*	NS	0.018	0.015	0.016	0.027	0.031	0.020	0.023
Boron	mg/L	*	NS	0.150	0.031 I	0.036 I	0.042 I	0.067 I	0.230	0.230
Iron	mg/L	1.0	NS	0.590	0.230	0.570	0.430	0.420	0.900	0.910
Mercury	ng/L	12	0.20 U (FB)	1.00 U J	0.74	1.87	3.31	7.69	1.39	0.20 U
Selenium	mg/L	0.005	NS	0.008 U	0.008 U	0.008 I	0.013 I	0.008 U	0.008 U	0.009 I
Silver	mg/L	0.00007[a]	NS	0.002 I	0.001 I	0.001 U	0.001 U	0.002 I	0.001 I	0.001 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.795	0.883	0.817	2.04	1.47	1.38	1.93
Total Kjeldahl Nitrogen	mg/L	*	NS	0.436 J	0.428 J	0.369 J	0.951 J	0.372 J	0.715 J	1.18 J
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.359	0.455	0.448	1.09	1.09	0.661	0.752
Nitrate (NO3) as N	mg/L	*	NS	0.359	0.455	0.448	1.09	1.09	0.661	0.752
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	44	58	57	54	60 J	80	117
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	3.2 I	2.0 U	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	12.5 U	41.7	12.5 U	12.5 U	17.0 I	12.8 I	18.4 I
Total Hardness	mg/L	*	NS	51.5	25.0 U	25.0 U	26.2	30.4	70.1	70.1
Total Organic Carbon	mg/L	*	NS	2.80	2.70	2.40	1.70	1.40	3.50	5.90

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.24 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: February 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.053 I	0.230	0.130 I	0.170 I	0.170 I	0.051 U	0.088 I
Arsenic	mg/L	0.05	NS	0.005 I	0.003 U	0.005 I	0.003 U	0.003 I	0.003 U	0.004 I
Barium	mg/L	*	NS	0.020	0.017	0.017	0.029	0.031	0.023	0.026
Boron	mg/L	*	NS	0.036 I	0.034 I	0.039 I	0.060 I	0.062 I	0.160	0.240
Iron	mg/L	1.0	NS	0.500	0.800	0.620	0.500	0.650	0.820	1.40
Lead	mg/L	$Pb \le e^{(1.273[lnH]-4.705)}/1000$	NS	0.003 I	0.002 U	0.002 U	0.002 U	0.002 U	0.003 I	0.002 U
Mercury	ng/L	12	0.20 U (FB)	0.69	1.07	1.83	2.58	7.44	1.12	0.38 I
Vanadium	mg/L	*	NS	0.007 U	0.007 U	0.008 I	0.007 U	0.007 U	0.007 U	0.007 U
Zinc	mg/L	$Zn \le e^{(0.8473[lnH]+0.884)}/1000$	NS	0.008 U	0.008 U	0.008 U	0.008 U	0.008 I	0.008 U	0.008 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.681	0.743	0.679	1.32	1.15	0.879	1.59
Total Kjeldahl Nitrogen	mg/L	*	NS	0.381	0.297	0.262	0.304	0.477 J	0.389	0.960
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.300	0.446	0.417	1.02	0.673	0.490	0.628
Nitrate (NO3) as N	mg/L	*	NS	0.300	0.446	0.417	1.02	0.673	0.490	0.628
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.005 U	0.005 I	0.005 U	0.009 I	0.005 U	0.005 U
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	65	56	61	64	49 J	88	134
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 U	4.2 I	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	22.1	21.0	19.9 I	22.1	18.7 I	23.8	30.3
Total Hardness	mg/L	*	NS	35.7	27.7	27.9	31.6	29.3	57.7	83.0
Total Organic Carbon	mg/L	*	NS	3.50	3.30	3.00	2.20	2.20	3.90	6.20

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.25 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: March 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				← Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.074 I	0.180 I	0.130 I	0.076 I	0.150 I	0.051 U	0.051 U
Arsenic	mg/L	0.05	NS	0.003 U	0.003 U	0.003 U	0.003 I	0.004 I	0.004 I	0.010 I
Barium	mg/L	*	NS	0.017	0.016	0.017	0.029	0.030	0.025	0.027
Boron	mg/L	*	NS	0.036 I	0.035 I	0.039 I	0.066 I	0.062 I	0.170	0.270
Chromium	mg/L	$Cr \le e^{(0.819[lnH]+0.6848)}/1000$	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.007 I	0.005 U
Iron	mg/L	1.0	NS	0.370	0.940	0.830	0.570	0.640	0.710	1.40
Lead	mg/L	$Pb \le e^{(1.273[lnH]-4.705)}/1000$	NS	0.002 U	0.002 U	0.004 I	0.002 U	0.003 I	0.002 U	0.002 U
Mercury	ng/L	12	0.20 U (FB)	1.5	1.8	4.7	4.5	7.3	2.1	0.82
Vanadium	mg/L	*	NS	0.009 I	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U	0.007 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.485	0.533	0.472	1.27	1.04	0.588	1.17
Total Kjeldahl Nitrogen	mg/L	*	NS	0.354	0.286	0.233	0.199	0.453	0.308	0.733
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.131	0.247	0.239	1.07	0.590	0.280	0.432
Nitrate (NO3) as N	mg/L	*	NS	0.131	0.247	0.239	1.07	0.590	0.280	0.390
Nitrite (NO2) as N	mg/L	*	NS	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.042 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	47	58	52	69	71 J	99	143
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 U	3.1 I	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	13.0	6.4 U	7.3 I	6.4 U	13.0	13.0	19.0
Total Hardness	mg/L	*	NS	25.0 U	26.9	26.0	30.6	27.2	60.6	92.2
Total Organic Carbon	mg/L	*	NS	4.3	3.8	3.3	2.4	2.6	4.2	8.0

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.26 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: April 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.080 I	0.168	0.103	0.104	0.197 J	0.036 I	0.111
Barium	mg/L	*	NS	0.019	0.017	0.018	0.023	0.023	0.023	0.027
Boron	mg/L	*	NS	0.026	0.025	0.034	0.049	0.046	0.112	0.157
Iron	mg/L	1.0	NS	0.435	1.40	0.944	0.904	0.772	0.859	1.68
Mercury	ng/L	12	0.20 U (FB)	1.8	2.9	4.1	4.8	8.9	2.5	1.6
Nickel	mg/L	$Ni \leq e^{(0.846[lnH]+0.0584)}/1000$	NS	0.027	0.002 I	0.001 U	0.022	0.001 U	0.001 U	0.001 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.569	0.730	0.564	0.781	0.772	0.862	1.06
Total Kjeldahl Nitrogen	mg/L	*	NS	0.305	0.496	0.345	0.352	0.487 J	0.510	0.726
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.264	0.234	0.219	0.429	0.285	0.352	0.329
Nitrate (NO3) as N	mg/L	*	NS	0.264	0.234	0.219	0.429	0.285	0.352	0.329
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.136	0.022 I	0.015 I	0.007 I	0.005 U	0.009 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	56	45	61	67	49 J	106	130
Total Suspended Solids	mg/L	*	NS	2.0 U	3.2 I	2.0 U	2.0 U	3.9 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	18.0	28.0	18.0	63.0	20.0	18.0	24.0
Total Hardness	mg/L	*	NS	25.0 U	28.4	26.9	29.1	25.0 U	54.2	78.5
Total Organic Carbon	mg/L	*	NS	5.4	9.7	6.4	7.0	4.4	6.9	9.1

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.27 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: May 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.039 I	0.155	0.073 I	0.077 I	0.090 J	0.025 U	0.025 U
Barium	mg/L	*	NS	0.022	0.017	0.018	0.021	0.022	0.025	0.029
Boron	mg/L	*	NS	0.026	0.024	0.032	0.045	0.041	0.124	0.180
Iron	mg/L	1.0	NS	0.562	1.30	0.954	0.926	0.914 J	0.781	1.33
Mercury	ng/L	12	0.20 U (FB)	0.85	1.9	2.9	2.2	5.3	1.4	0.65
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.592	0.745	0.618	0.807	0.704	0.800	1.05
Total Kjeldahl Nitrogen	mg/L	*	NS	0.310 J V	0.426 J V	0.375 J V	0.393 J V	0.438 J V	0.454 J V	0.657 J V
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.282	0.319	0.243	0.414	0.266	0.346	0.389
Nitrate (NO3) as N	mg/L	*	NS	0.282	0.319	0.243	0.414	0.266	0.346	0.330
Nitrite (NO2) as N	mg/L	*	NS	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.059 I
Phosphorus, Total	mg/L	0.06	NS	0.005 U V	0.084 V	0.024 V	0.026 V	0.005 I J V	0.005 U V	0.005 U V
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	66	64	64	66	53	114	148
Total Suspended Solids	mg/L	*	NS	2.0 U	3.2 I	2.0 U	2.2 I	3.7 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2.0 U	2.0 U	2.0 U	2.1	2.4	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	6.4 U	16.0	14.0	13.0	13.0	12.0	16.0
Total Hardness	mg/L	*	NS	30.9	26.3	28.3	29.2	25.0 U	63.6	88.6
Total Organic Carbon	mg/L	*	NS	4.2	6.4	5.2	4.9	6.1	5.5	7.4

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.28 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: June 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				← Downstream		Upstream
Volatile Organic Constituents										
Methylene Chloride	ug/L	1580[d]	3.0 U (TB)	3.0 U	3.0 U	3.3 I	3.9 I	4.0 I	3.0 U	3.0 U
Toluene	ug/L	*	0.41 U (TB)	0.41 U	0.85 I	0.83 I	0.77 I	0.47 I	0.41 U	0.41 U
Metals										
Aluminum	mg/L	*	NS	0.247	0.667	0.492	0.637	1.45 J	1.33	2.27
Arsenic	mg/L	0.05	NS	0.004 U	0.004 U	0.004 U	0.004 U	0.004 I	0.004 I	0.006 I
Barium	mg/L	*	NS	0.018	0.011	0.012	0.013	0.014	0.014	0.017
Boron	mg/L	*	NS	0.016 U J	0.016 U J	0.019 I J	0.019 I J	0.021 J	0.042 J	0.050 J
Iron	mg/L	1.0	NS	0.885	0.851	0.821	0.868	1.25 J	1.71	2.64
Mercury	ng/L	12	0.20 U (FB)	3.2	4.0	4.8	4.9	4.4	3.8	5.0
Vanadium	mg/L	*	NS	0.001 U	0.002 I	0.002 I	0.002 U	0.003 I	0.003 I	0.004 I
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.871	0.906	0.840	0.782	0.497	0.857	1.10
Total Kjeldahl Nitrogen	mg/L	*	NS	0.781	0.859	0.800	0.716	0.431 J	0.687	0.981
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.090	0.047 I	0.040 I	0.066	0.066	0.170	0.123
Nitrate (NO3) as N	mg/L	*	NS	0.090	0.047 I	0.040 I	0.066	0.066	0.170	0.123
Phosphorus, Total	mg/L	0.06	NS	0.013 I	0.059	0.035	0.036	0.023	0.025	0.054
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	68	63	62	60	60	81	101
Total Suspended Solids	mg/L	*	NS	2.0 I	4.8 I	4.8 I	4.0 I	11.4 J	3.1 I	16.6
Chemical Oxygen Demand	mg/L	*	NS	21.0	21.0	23.0	18.0	8.7 I	16.0	20.0
Total Hardness	mg/L	*	NS	33.3	25.0 U	25.0 U	25.0 U	25.0 U	32.0	39.1
Total Organic Carbon	mg/L	*	NS	7.2	7.6	7.7	7.3	3.3	6.2	7.4

Notes:

mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter

Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).

NS - Not sampled

a - The sample specific detection limit does not support the regulatory requirement.

b - Criteria based on monthly average.

d - Criteria based on annual average.

Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code (FAC) for Class III predominately fresh waters.

* - No Standard established in Chapter 62-302.530 Florida Administrative Code (FAC).

A - Value reported is the arithmetic mean (average) of two or more determinations.

B - Based on colony counts outside the method specified range.

C - See case narrative (comments).

D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").

H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.

I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty

J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.

K - Off-scale low. Actual value is less than the value given.

L - Off-scale high. Actual value is known to be greater than the value given.

M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.

N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).

O - Sample taken but analysis lost, invalidated, or not performed.

Q - Sample held beyond method-specified holding time.

U - Compound was analyzed for but not detected (greyed out text).

V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.

Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.

Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).

? - Data are rejected and should not be used.

Table 7.29 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: July 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.059	0.296	0.265	0.136	0.147 J	0.056	0.072
Arsenic	mg/L	0.05	NS	0.004 U	0.004 U	0.004 U	0.004 U	0.004 I	0.004 I	0.004 I
Barium	mg/L	*	NS	0.026	0.014	0.015	0.018	0.019	0.022	0.026
Boron	mg/L	1.1¥*	NS	0.024 U J	0.018 U J	0.024 I J	0.038 I J	0.040 J	0.104 J	0.147 J
Iron	mg/L	1.0	NS	1.3	1.13	1.08	0.927	0.931	0.924	2.13
Mercury	ng/L	12	0.2 U (FB)	1.6	2.4	2.6	3.1	4	1.7	0.91
Vanadium	mg/L	*	NS	0.001 U J	0.002 U J	0.001 U J	0.001 U J	0.001 I	0.001 U J	0.001 U J
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.552	0.613	0.469	0.589	0.437	0.594	1.01
Total Kjeldahl Nitrogen	mg/L	*	NS	0.406	0.414	0.283	0.471	0.351	0.3	0.579
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.146	0.199	0.186	0.118	0.086	0.294	0.43
Nitrate (NO3) as N	mg/L	*	NS	0.146	0.199	0.186	0.118	0.086 U	0.294	0.378
Nitrite (NO2) as N	mg/L	*	NS	0.035 U	0.035 U	0.035 U Q	0.035 U	0.035 U J	0.035 U	0.052 I
Phosphorus, Total	mg/L	0.06	NS	0.010 I	0.047	0.02	0.027	0.071 J	0.008 I	0.02
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	86	61	62	69	70	100	128
Total Suspended Solids	mg/L	*	NS	2.0 U	3.5 I	2.6 I	3.1 I	3.2 I	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	19	17	17	16	16	16	20
Total Hardness	mg/L	*	NS	46.1	25.0 U	26.6	29.5	30.2	56.5	73.8
Total Organic Carbon	mg/L	*	NS	6.8	5.3	5.5	5.7	5.2	6.1	8.4

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.30 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: August 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.028	0.343	0.116	0.034	0.036 I	0.025	0.025
Arsenic	mg/L	0.05	NS	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 I	0.004 I
Barium	mg/L	*	NS	0.019	0.016	0.018	0.021	0.019	0.024	0.03
Boron	mg/L	1.1¥*	NS	0.026	0.023	0.036	0.048	0.048	0.147	0.213
Iron	mg/L	1.0	NS	0.737	1.23	0.757	0.751	1.21	0.686	1.69
Mercury	ng/L	12	0.2 U (FB)	1.4	3.1	1.8	1.9	3.4	1.7	0.76
Nickel	mg/L	$Ni \le e^{(0.846[lnH]+0.0584)}/1000$	NS	0.001 U J	0.001 U J	0.001 U J	0.001 U J	0.002 I J	0.001 U J	0.001 U J
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.421	0.582	0.504	1.14	0.421	0.53	1.19
Total Kjeldahl Nitrogen	mg/L	*	NS	0.195 I	0.349	0.241	0.614	0.322	0.223	0.885
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.226	0.233	0.263	0.529	0.099	0.307	0.3
Nitrate (NO3) as N	mg/L	*	NS	0.226	0.233	0.263	0.529	0.099	0.307	0.3
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.017 I	0.005 I	0.005 U	0.005 U J	0.005 U	0.005 U
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	65	63	65	76	66	68	82
Total Suspended Solids	mg/L	*	NS	2.0 U	9.9 I	2.6 I	2.0 U	4.5 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2 U	2 U	2 U	2 U	2.3	2 U	2 U
Chemical Oxygen Demand	mg/L	*	NS	15	20	13	14	25	19	20
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	30.5	28.6	27.9	62.2	82.2
Total Organic Carbon	mg/L	*	NS	4.3	3.8	3.4	3.2	4.3	5.3	7.6

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.31 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: September 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.038 I	0.268	0.261	0.103	0.104 J	0.038 I	0.105
Barium	mg/L	*	NS	0.022	0.013	0.016	0.019	0.015 J	0.022	0.026
Boron	mg/L	1.1¥*	NS	0.027	0.021	0.034	0.044	0.033	0.11	0.148
Iron	mg/L	1.0	NS	1.04	0.964	1	0.902	0.840 J	1.24	2.66
Mercury	ng/L	12	0.2 U (FB)	1.4	2.2	2.2	2.3	3.4	1.8	1.6
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.727	0.76	0.761	0.764	0.792	1.03	1.84
Total Kjeldahl Nitrogen	mg/L	*	NS	0.527	0.572	0.601	0.461	0.579 J	0.534	1.5
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.2	0.188	0.16	0.303	0.213	0.497	0.343
Nitrate (NO3) as N	mg/L	*	NS	0.2	0.188	0.16	0.303	0.213	0.454	0.246
Nitrite (NO2) as N	mg/L	*	NS	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U J	0.043 I	0.097
Phosphorus, Total	mg/L	0.06	NS	0.008 I	0.095	0.063	0.038	0.027	0.041	0.085
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	75	68	65	79	60	115	138 J
Total Suspended Solids	mg/L	*	NS	2.0 U	6.0 I	5.4 I	2.0 U	2.1 I	2.0 U	2.7 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2 U	2 U	4.2	2 U	2 U	2 U	2 U
Chemical Oxygen Demand	mg/L	*	NS	18	22	23	18	16	23	26
Total Hardness	mg/L	*	NS	36.2	25.0 U	31.6	32.8	25.3	66.6	85.2
Total Organic Carbon	mg/L	*	NS	6.4	6.5	6	5.8	5.1	9.1	11

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.32 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: November 2021 (first week)

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Chloromethane	ug/L	470.8[d]	0.32 U (TB)	0.34 I	0.56 I	0.56 I	0.38 I	0.37 I	0.61 I	0.32 U
Toluene	ug/L	480‡*	0.41 U (TB)	0.41 U	0.41 U	0.41 U	0.87 I	0.41 U	0.41 U	0.41 U
Metals										
Aluminum	mg/L	*	NS	0.073 I	0.074 I	0.089 I	0.041 I	0.045 I	0.025 U	0.026 I
Barium	mg/L	*	NS	0.017	0.013	0.018	0.02	0.023	0.022	0.027
Boron	mg/L	1.1¥*	NS	0.025 J	0.022 J	0.037 J	0.048 J	0.051 J	0.135 J	0.197 I J
Iron	mg/L	1.0	NS	0.408	0.463	0.525	0.496	0.495	0.748	1.65
Mercury	ng/L	12	0.2 U (FB)	1.5	1.9	2	2.2	5.3	2.5	0.86
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.521	0.566	0.656	0.86	0.751	1.17	2.56
Total Kjeldahl Nitrogen	mg/L	*	NS	0.329	0.284	0.37	0.274	0.349	0.495	1.98
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.192	0.282	0.286	0.586	0.402	0.672	0.587
Nitrate (NO3) as N	mg/L	*	NS	0.192	0.282	0.286	0.586	0.402	0.672	0.523
Nitrite (NO2) as N	mg/L	*	NS	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.064
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	116	37	58	64	53	109	134
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2 U	2 U	2 U	2 U	2 U	2 U	4
Chemical Oxygen Demand	mg/L	*	NS	13	10	13	12	16	16	17
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	30.6	33.4	29.6	64.7	88.6
Total Organic Carbon	mg/L	*	NS	3.6	2.9	3	2.8	3.6	5.1	7.2

Notes:

mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.33 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: November 2021 (mid-month)

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⟸	⟸	⟸	Downstream	⟸	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.033 I	0.058 I	0.101	0.030 I	0.057 I	0.025 U	0.025 U
Barium	mg/L	*	NS	0.017	0.013	0.017	0.023	0.024	0.023	0.027
Boron	mg/L	1.1¥*	NS	0.027	0.023	0.041	0.055	0.057	0.162	0.234
Iron	mg/L	1.0	NS	0.252	0.376	0.451	0.399	0.404	0.601	1.18
Mercury	ng/L	12	0.2 U (FB)	1.1	1.9	1.8	2.4	5	2.6	0.64
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.481	0.427	0.611	0.971	0.884	1.09	1.76
Total Kjeldahl Nitrogen	mg/L	*	NS	0.182 I	0.132 I	0.26	0.182 I	0.271	0.248	0.782
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.299	0.295	0.351	0.789	0.613 J	0.84	0.982
Nitrate (NO3) as N	mg/L	*	NS	0.299	0.295	0.351	0.789	0.613	0.84	0.982
Phosphorus, Total	mg/L	0.06	NS	0.019 I	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	59	56	76	76	62	122	159
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2 U	2 U	4.3	2 U	2 U	2 U	2 U
Chemical Oxygen Demand	mg/L	*	NS	8.3 I	8.3 I	7.6 I	6.4 U	8.7 I	13	39
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	34.0	35.2	29.3	65.6	93.5
Total Organic Carbon	mg/L	*	NS	2.7	2.3	2.6	2.5	2.8	4.6	6.9

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.34 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: December 2021

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.053 I	0.069 I	0.077 I	0.037 I	0.076 I J	0.025 U	0.025 U
Barium	mg/L	*	NS	0.018	0.013	0.018	0.023	0.026	0.022	0.026
Boron	mg/L	1.1¥*	NS	0.027	0.024	0.041	0.056	0.06	0.153	0.223
Iron	mg/L	1.0	NS	0.476	0.477	0.519	0.513	0.429	0.465	1.01
Mercury	ng/L	12	0.2 U (FB)	1.4	1.7	1.7	2	7.7	2.3	0.46 I
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.388	0.457	0.583	0.885	0.939	0.981	1.87
Total Kjeldahl Nitrogen	mg/L	*	NS	0.239	0.233	0.321	0.286	0.291	0.378	0.779
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.149	0.224	0.262	0.599	0.648	0.603	1.09
Nitrate (NO3) as N	mg/L	*	NS	0.149	0.224	0.262	0.599	0.648	0.603	1.05
Nitrite (NO2) as N	mg/L	*	NS	0.035 U J	0.035 U J	0.035 U J	0.035 U J	0.035 U J	0.035 U J	0.039 I J
Phosphorus, Total	mg/L	0.06	NS	0.012 I J	0.010 I J	0.011 I J	0.009 I J	0.015 I J	0.008 I J	0.020 J
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	57	56	52	80	60	116	147
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 U	3.5 I	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	10	8.3 I	6.4 U	6.4 U	6.4 U	16	22
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	31.4	33.3	29.9	63.1	88.6
Total Organic Carbon	mg/L	*	NS	3.5	2.6	2.8	2.7	2.2	5.1	7

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.35 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: January 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.037 I	0.056 I	0.046 I	0.034 I	0.032 I	0.025 U	0.025
Barium	mg/L	*	NS	0.013	0.012	0.015	0.021	0.024	0.02	0.023
Boron	mg/L	1.1¥*	NS	0.026	0.023	0.036	0.056	0.061	0.14	0.214
Iron	mg/L	1.0	NS	0.235 J V	0.403 J V	0.346 J V	0.324 J V	0.271 J V	0.396 J V	0.793 J V
Mercury	ng/L	12	0.26 I (FB)	1.5	1.3	1.6	1.7	4.7	1.6	0.28 I
Nickel	mg/L	$Ni \leq e^{(0.846[lnH]+0.0584)}/1000$	NS	0.003 I J V	0.001 U J	0.001 U J	0.001 U	0.001 U	0.001 U J	0.001 U J
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.38	0.514	0.592	1.06	0.855	1.19	1.93
Total Kjeldahl Nitrogen	mg/L	*	NS	0.202	0.252	0.268	0.277	0.162 I	0.303	0.849
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.178	0.262	0.324	0.784	0.693	0.885	1.08
Nitrate (NO3) as N	mg/L	*	NS	0.178	0.262	0.324	0.784	0.693	0.885	1.08
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.055
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	118	42	51	62	69	156	153
Chemical Oxygen Demand	mg/L	*	NS	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	6.4 U	13
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	30.1	32.2	28.5	58.8	89.0
Total Organic Carbon	mg/L	*	NS	2.9	2.1	2.3	2	2	3.8	6

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.36 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: February 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇒	⇒	⇒	Downstream	⇐	Upstream
Volatile Organic Constituents										
Acetone	ug/L	*	10 U J (TB)	12 I	10 I	10 U J	10 U J	10 U J	10 U J	10 U J
Chloromethane	ug/L	470.8[d]	0.32 U (TB)	0.63 I	1.1	1.3	0.61 I	1	0.32 U	0.61 I
Metals										
Aluminum	mg/L	*	NS	0.061 I	0.089 I	0.089 I	0.053 I	0.070 I J	0.079 I	0.033 I
Barium	mg/L	*	NS	0.017	0.014	0.018	0.023	0.023	0.022	0.025
Beryllium	mg/L	0.00013[ad]	NS	0.001 U	0.001 U	0.001 U	0.002 I	0.001 U	0.001 U	0.001 U
Boron	mg/L	1.1¥*	NS	0.03	0.026	0.041	0.06	0.056	0.141	0.21
Cobalt	mg/L	*	NS	0.001 U	0.001 U	0.001 U	0.002 I	0.001 U	0.001 U	0.001 U
Iron	mg/L	1.0	NS	0.272	0.528	0.369	0.358	0.297	0.492	1.01
Mercury	ng/L	12	0.2 U (FB)	1.5	1.7	1.7	1.9	5.8	2	0.51
Nickel	mg/L	$Ni \le e^{(0.846[lnH]+0.0584)}/1000$	NS	0.211 J	0.003 I J V	0.091 J	0.002 I J V	0.001 U J	0.001 U J	0.003 I J V
Thallium	mg/L	0.0063[a]	NS	0.002 U	0.002 U	0.002 U	0.003 I	0.002 U	0.002 U	0.002 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.475	0.605	0.42	0.895	0.873	1.12	1.46
Total Kjeldahl Nitrogen	mg/L	*	NS	0.282	0.423	0.148	0.263	0.257 J	0.385	0.505
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.193	0.182	0.272	0.632	0.616	0.734	0.955
Nitrate (NO3) as N	mg/L	*	NS	0.193	0.182	0.272	0.632	0.616	0.734	0.955
Phosphorus, Total	mg/L	0.06	NS	0.005 I	0.019 I	0.006 I	0.005 I	0.005 I J	0.005 U	0.011 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	39	57	58	54	53	36	35 J
Chemical Oxygen Demand	mg/L	*	NS	8.5 I	6.4 I	6.4 U	6.4 U	6.4 U	6.4 U	11
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	32.9	34.4	28.6	58.4	85.2
Total Organic Carbon	mg/L	*	NS	4.3	2.9	2.7	2.6	2.3	3.9	6

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.37 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: March 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				Downstream ←		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.084 I	0.19	0.077 I	0.053 I	0.078 I J	0.025 U	0.033 I
Barium	mg/L	*	NS	0.017	0.015	0.016	0.021	0.023	0.023	0.027
Boron	mg/L	1.1¥*	NS	0.029	0.027	0.033	0.055	0.059	0.143	0.228
Iron	mg/L	1.0	NS	0.457	0.854	0.691	0.583	0.387	0.537	0.99
Mercury	ng/L	12	0.2 U (FB)	1.1	1.7	1.7	2.2	4.7	2.1	0.64
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.516	0.42	0.475	0.67	0.739	0.573	0.903
Total Kjeldahl Nitrogen	mg/L	*	NS	0.421	0.284	0.292	0.217	0.335	0.26	0.469
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.095	0.136	0.183	0.453	0.404	0.313	0.434
Nitrate (NO3) as N	mg/L	*	NS	0.095	0.136	0.183	0.453	0.404	0.313	0.434
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	52	61	59	69	68	96	136
Total Hardness	mg/L	*	NS	25.0 U	26.0	27.9	32.3	30.9	61.9	93.6
Total Organic Carbon	mg/L	*	NS	4.5	3.6	3.1	3.2	2.6	3.7	5.5

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.38 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: April 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.065 I	0.11	0.093 I	0.067 I	0.068 I	0.025 U	0.030 I
Barium	mg/L	*	NS	0.018	0.014	0.016	0.022	0.021	0.02	0.023
Boron	mg/L	1.1¥*	NS	0.026	0.025	0.031	0.047	0.052	0.109	0.161
Iron	mg/L	1.0	NS	1.24	1.24	0.9	1.27	0.523	0.547	1.26
Mercury	ng/L	12	0.2 U (FB)	2.2	2.3	2.2	3.1	4.4	2	0.93
Nickel	mg/L	$Ni \leq e^{(0.846[lnH]+0.0584)}/1000$	NS	0.001 U J	0.002 I J V	0.001 U J	0.001 U J	0.001 U J	0.001 U J	0.001 U J
Thallium	mg/L	0.0063[a]	NS	0.002 U J	0.002 U J	0.002 U J	0.003 I J V	0.002 U J	0.002 U J	0.002 U J
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.396	0.37	0.627	0.828	0.459	0.469	0.672
Total Kjeldahl Nitrogen	mg/L	*	NS	0.356	0.242	0.484	0.477	0.231	0.195 I	0.463
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.040 I	0.128	0.143	0.351	0.228	0.274	0.209
Nitrate (NO3) as N	mg/L	*	NS	0.040 I	0.128	0.143	0.351	0.228	0.274	0.209
Phosphorus, Total	mg/L	0.06	NS	0.008 I	0.014 I	0.007 I	0.007 I	0.005 I	0.005 I	0.012 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	56	52	47	52	49	83	114
Total Suspended Solids	mg/L	*	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.2 I	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	23	13	10	11	9.7 I	12	16
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	25.5	27.7	25.8	48.2	68.1
Total Organic Carbon	mg/L	*	NS	6.2	4	3.8	4.1	2.9	4	5.5

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.39 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: May 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.052 I	0.076 I	0.086 I	0.025 U	0.025 U	0.025 U	0.070 I
Barium	mg/L	*	NS	0.018	0.015	0.018	0.022	0.026	0.023	0.024
Boron	mg/L	1.1¥*	NS	0.026	0.026	0.035	0.057	0.056	0.11	0.16
Iron	mg/L	1.0	NS	1.01	1.2	1.04	0.787	0.802	0.631	1.65
Mercury	ng/L	12	0.2 U (FB)	1.9	1.5	2	1.9	2	2.1	0.91
Silver	mg/L	0.00007[a]	NS	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 I
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.368	0.397	0.405	0.423	0.193 I	0.392	0.386
Total Kjeldahl Nitrogen	mg/L	*	NS	0.328	0.222	0.207	0.199 I	0.193 I	0.217	0.302
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.040 I	0.175	0.198	0.224	0.032 U	0.175	0.084
Nitrate (NO3) as N	mg/L	*	NS	0.040 I	0.175	0.198	0.224	0.032 U	0.175	0.084
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.009 I	0.006 I	0.005 I	0.005 U	0.005 U	0.008 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	51	63	65	68	61	101	119
Total Suspended Solids	mg/L	*	NS	2.0 I	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	3.4 I
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	3 J	2 U J	2 U J	2 U J	2 U J	2 U J	2 U J
Chemical Oxygen Demand	mg/L	*	NS	23	6.4 U	10	15	11	9.7 I	19
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	26.1	30.1	27.6	49.7	68.0
Total Organic Carbon	mg/L	*	NS	7.6	4.1	3.7	3.9	3.3	3.8	6.1

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.40 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: June 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇨	⇨	⇨	Downstream	⇦	Upstream
Volatile Organic Constituents										
Benzene	ug/L	71.28[d]	0.13 U (TB)	0.26 I	0.24 I	0.23 I	0.25 I	0.48 I	0.36 I	0.23 I
Metals										
Aluminum	mg/L	*	NS	0.081 I	0.148	0.099 I	0.064 I	0.031 U J	0.034 I	0.061 I
Barium	mg/L	*	NS	0.024	0.017	0.02	0.025	0.028	0.027	0.034
Beryllium	mg/L	0.00013[ad]	NS	0.001 U	0.001 U	0.001 U	0.002	0.001 U	0.001 U	0.001 U
Boron	mg/L	1.1¥*	NS	0.028	0.027	0.044	0.063	0.054	0.137	0.202
Cobalt	mg/L	*	NS	0.001 U	0.001 U	0.001 U	0.002 I	0.001 U	0.001 U	0.001 U
Iron	mg/L	1.0	NS	2.5	1.17	0.962	1.06	1.41	0.794	1.76
Mercury	ng/L	12	0.2 U (FB)	2.3	1.8	1.6	2.6	2.8	1.9	0.66
Nickel	mg/L	$Ni \le e^{(0.846[lnH]+0.0584)}/1000$	NS	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U J	0.002 U	0.003 I
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.466	0.703	0.523	0.609	0.313	0.492	0.625
Total Kjeldahl Nitrogen	mg/L	*	NS	0.466	0.434	0.325	0.313	0.313	0.306	0.433
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U	0.269	0.198	0.296	0.032 U	0.186	0.192
Nitrate (NO3) as N	mg/L	*	NS	0.032 U	0.269	0.198	0.296	0.032 U	0.186	0.192
Phosphorus, Total	mg/L	0.06	NS	0.014 I	0.013 I	0.007 I	0.005 I	0.009 I	0.012 I	0.015 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	62	58	69	69	64	98	135
Total Suspended Solids	mg/L	*	NS	5.8 I	4.3 I	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	25	16	14	16	12	14	18
Total Hardness	mg/L	*	NS	27.1	25.0 U	29.5	31.2	29.4	60.8	87.7
Total Organic Carbon	mg/L	*	NS	6.8	4.7	4.1	4	3.3	4.5	6.4

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.41 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: July 2022

Parameter	Units	Class III SW Standard	Sample QC	West Branch Headwaters ECSW-5	West Branch @ Longleaf Drive ECSW-4	West Branch @ Marcus Pointe Blvd ECSW-3	Crescent Lake West Branch ECSW-2	Crescent Lake Dam ECSW-1	East Branch @ Marcus Pointe Blvd ECSW-6	East Branch near Rolling Hills ECSW-7
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.212	0.466	0.541	0.402	0.031 U J	0.031 U	0.031 U
Barium	mg/L	*	NS	0.021	0.016	0.019	0.021	0.025	0.023	0.028
Boron	mg/L	1.1¥*	NS	0.024	0.027	0.041	0.047	0.052	0.1	0.138
Iron	mg/L	1.0	NS	2.34	1.11	1.01	0.911	0.973 J	0.817	1.46
Mercury	ng/L	12	0.2 U (FB)	3.4	3.1	3.1	3.6	3.3	1.8	0.8
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.552	0.579	0.501	0.509	0.33	0.463	0.565
Total Kjeldahl Nitrogen	mg/L	*	NS	0.516	0.478	0.391	0.334	0.273	0.246	0.399
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.036 I	0.101	0.11	0.175	0.057 I	0.217	0.166
Nitrate (NO3) as N	mg/L	*	NS	0.036 I	0.101	0.11	0.175	0.057 I	0.217	0.166
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.012 I	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	63	60	59	65	41	72	90
Total Suspended Solids	mg/L	*	NS	3.8 I	5.0 I	4.7 I	2.0 U	2.0 U	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	27	15	13	17	6.6 I	7 I	11
Total Hardness	mg/L	*	NS	31.1	25.3	29.4	28.1	26.7	49.0	65.6
Total Organic Carbon	mg/L	*	NS	12	7.2	6.4	6.8	3.3	4.8	6.3

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.42 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: August 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.087 I	0.154	0.124	0.054 I J	0.063 I	0.031 U	0.039 I
Barium	mg/L	*	NS	0.022	0.017	0.02	0.023	0.022	0.028	0.033
Boron	mg/L	1.1¥*	NS	0.03	0.028	0.043	0.05	0.047	0.113	0.164
Iron	mg/L	1.0	NS	1.79	0.936	0.817	1.22	1.11	1.04	1.93
Mercury	ng/L	12	0.2 U (FB)	2.6	2.9	2.1	3.1	3.8	2.6	1.5
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.591 J	0.512 J	0.489 J	0.587 J	0.472 J	0.423 J	0.687 J
Total Kjeldahl Nitrogen	mg/L	*	NS	0.591	0.399	0.366	0.587	0.402	0.337	0.605
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U J	0.113 J	0.123 J	0.070 J	0.032 U J	0.086 J	0.082 J
Nitrate (NO3) as N	mg/L	*	NS	0.032 U	0.113	0.123	0.032 U	0.07	0.086	0.082
Phosphorus, Total	mg/L	0.06	NS	0.006 I	0.018 I	0.011 I	0.014 I J	0.010 I	0.006 I	0.010 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	58	59	52	66	51	92	119
Total Suspended Solids	mg/L	*	NS	2.6 I	2.3 I	2.0 U	2.0 I	2.0 U	2.0 U	2.0 U
Chemical Oxygen Demand	mg/L	*	NS	22	18	17	18	16	15	19
Total Hardness	mg/L	*	NS	25.8	25.0 U	29.3	28.3	25.2	54.2	77.0
Total Organic Carbon	mg/L	*	NS	6.7	4.8	4.7	4.9	5.2	4.5	7

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.43 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: September 2022

Parameter	Units	Class III SW Standard	Sample QC	West Branch Headwaters ECSW-5	West Branch @ Longleaf Drive ECSW-4	West Branch @ Marcus Pointe Blvd ECSW-3	Crescent Lake West Branch ECSW-2	Crescent Lake Dam ECSW-1	East Branch @ Marcus Pointe Blvd ECSW-6	East Branch near Rolling Hills ECSW-7
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Chloromethane	ug/L	470.8[d]	0.32 U Q (TB)	0.32 U Q	0.41 I Q	0.44 I Q	0.52 I Q	0.38 I Q	0.37 I Q	0.37 I Q
Toluene	ug/L	480‡*	0.41 U Q (TB)	0.41 U Q	1.1 Q	0.41 U Q	0.41 U Q	0.41 U Q	0.41 U Q	0.41 U Q
Metals										
Aluminum	mg/L	*	NS	0.046 I	0.15	0.142	0.064 I	0.039 I	0.031 U	0.037 I
Barium	mg/L	*	NS	0.019	0.015	0.017	0.023	0.021	0.026	0.031
Boron	mg/L	1.1¥*	NS	0.029	0.027	0.039	0.059	0.053	0.115	0.177
Iron	mg/L	1.0	NS	0.876	0.789	0.698	0.781	0.984	0.809	1.32
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.240 J	0.395 J	0.262 J	0.324 J	0.337 J	0.381 J	0.632 J
Total Kjeldahl Nitrogen	mg/L	*	NS	0.24	0.315	0.189 I	0.221	0.337 J	0.299	0.558
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U J	0.080 J	0.073 J	0.103 J	0.032 U J	0.082 J	0.074 J
Nitrate (NO3) as N	mg/L	*	NS	0.032 U	0.08	0.073	0.103	0.032 U	0.082	0.074
Phosphorus, Total	mg/L	0.06	NS	0.015 I	0.026	0.012 I	0.012 I	0.018 I	0.007 I	0.012 I
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	48 J	66 J	55 J	46 J	80 J	91 J	117 J
Total Suspended Solids	mg/L	*	NS	2.0 U	5.1 I	2.0 I	2.0 U	2.5 I	2.0 U	2.0 U
Biochemical Oxygen Demand	mg/L	See Rule 62-302.530, F.A.C.	NS	2 U	2 U	8.3	6.4	2 U	2 U	2 U
Chemical Oxygen Demand	mg/L	*	NS	7.8 I Q	6.4 U Q	6.4 I Q	6.4 U Q	7.1 I Q	7.1 I Q	11 Q
Total Hardness	mg/L	*	NS	25.0 U	25.0 U	25.0 U	30.4	27.4	56.6	82.6
Total Organic Carbon	mg/L	*	NS	4 Q	3.3 Q	2.7 Q	2.8 Q	3.9 Q	3.7 Q	5.3 Q

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 7.44 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: October 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				Downstream ←		Upstream
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.250 J	0.298 J	0.289 J	0.231 J	0.249 J	0.204 J	0.313 J
Total Kjeldahl Nitrogen	mg/L	*	NS	0.250	0.249	0.186 I	0.231	0.249	0.204	0.313 J2
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U J	0.049 I J	0.103 J	0.096 J	0.032 U J	0.032 U J	0.032 U J
Phosphorus, Total	mg/L	0.06	NS	0.009 I	0.015 I	0.011 I	0.009 I	0.012 I	0.007 I	0.009 I J
Chlorophyll a	µg/L	see regulation	NS	1.05	1.56	0.36	1.03	6.25	0.71	1.09
Other Parameters										
Total Suspended Solids	mg/L	*	NS	2.0 U	2.2 I	2.0 U	2.0 U	2.0 U	2.3 I	2.0 U

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
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L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 4.45 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: December 2022

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.12	0.32	0.44	0.68	0.59	0.23	1.30 Q
Total Kjeldahl Nitrogen	mg/L	*	NS	0.31 I	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.29 I
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.12	0.32	0.44	0.68	0.59	0.23	1.3 Q
Phosphorus, Total	mg/L	0.06	NS	0.084 I V	0.049 U	0.32 V	0.13 V	0.049 U	0.12 V	0.06 I V
Chlorophyll a	µg/L	see regulation	NS	1.33	0.52	0.33	0.44	1.49	0.31	1.60 J
Other Parameters										
Total Suspended Solids	mg/L	*	NS	2.6 I	2.4 I	2.0 U	2.0 U	2.0 U	2.0 U	2.8 I

Notes:

mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 4.46 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: February 2023

Parameter	Units	Class III SW Standard	Sample QC	West Branch Headwaters ECSW-5	West Branch @ Longleaf Drive ECSW-4	West Branch @ Marcus Pointe Blvd ECSW-3	Crescent Lake West Branch ECSW-2	Crescent Lake Dam ECSW-1	East Branch @ Marcus Pointe Blvd ECSW-6	East Branch near Rolling Hills ECSW-7
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Benzene	ug/L	71.28[d]	0.13 U (TB)	0.13 U	0.13 U	0.28 I	170	0.13 U	0.13 U	0.63 I
1,2-Dichloroethane	ug/L	*	0.19 U (TB)	0.25 I	0.36 I	0.27 I	0.19 U	0.24 I	0.23 I	0.19 U
Ethylbenzene	ug/L	*	0.50 U (TB)	0.50 U	0.50 U	0.50 U	11	0.50 U	0.50 U	0.50 U
Toluene	ug/L	480‡*	0.41 U (TB)	0.41 U	0.41 U	0.41 U	49	0.41 U	0.41 U	0.41 U
Xylenes, Total	ug/L	*	1.6 U (TB)	1.6 U	1.6 U	1.6 U	42	1.6 U	1.6 U	1.6 U
Metals										
Aluminum	mg/L	*	NS	0.058 I	0.071 I	0.072 I	0.037 I	0.047 I	0.031 U	0.031 U
Barium	mg/L	*	NS	0.017	0.013	0.018	0.022	0.023	0.021	0.024
Boron	mg/L	1.1¥*	NS	0.028	0.025	0.042	0.051	0.051	0.117	0.184
Iron	mg/L	1.0	NS	0.563	0.640	0.450	0.454	0.323	0.559	1.01
Mercury	ng/L	12	0.20 U (FB)	0.81	0.88	1.4	1.4	2.5	0.89	0.38 I
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.406	0.340	0.310	0.488	0.308	0.339	0.628
Total Kjeldahl Nitrogen	mg/L	*	NS	0.406	0.276	0.235	0.287	0.214	0.232	0.431
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U J	0.064 J	0.075 J	0.201 J	0.094 J	0.107 J	0.197 J
Nitrate (NO3) as N	mg/L	*	NS	0.032 U J	0.064 J	0.075 J	0.201 J	0.094 J	0.107 J	0.197 J
Phosphorus, Total	mg/L	0.06	NS	0.009 I	0.007 I	0.011 I	0.005 U	0.005 I	0.005 U	0.006 I
Chlorophyll a	µg/L	see regulation	NS	0.51	0.60	0.27	0.48	1.76	0.28	0.55
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	55	15 U J	15 U J	15 U J	63	104	111 J
Chemical Oxygen Demand	mg/L	*	NS	9.6 I	9.6 I	6.6 I	6.4 U	6.4 U	6.4 U	14
Total Hardness	mg/L	*	NS	27.1	25.0 U	33.9	28.8	26.4	57.3	86.1
Total Organic Carbon	mg/L	*	NS	3.7	3.0	3.0	2.7	2.6	3.5	5.0

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 4.47 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: April 2023

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream →				Downstream ←		Upstream
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.423	0.613	2.98	3.30	0.886	0.561	0.679
Total Kjeldahl Nitrogen	mg/L	*	NS	0.423	0.372	2.76	2.61	0.604	0.411	0.591 J
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U	0.241	0.214	0.690	0.282	0.150	0.088
Phosphorus, Total	mg/L	0.06	NS	0.006 I	0.005 I	0.005 U	0.005 U	0.006 I	0.012 I	0.013 I
Chlorophyll a	µg/L	see regulation	NS	2.27	1.00	0.43	0.65	3.38	0.60	2.57
Other Parameters										
Total Suspended Solids	mg/L	*	NS	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.90 I

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
‡ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 4.48 - Surface Water Quality Laboratory Summary of Detections by Station and Date Sampled Sample Date: June 2023

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	→	→	→	Downstream	←	Upstream
Nutrients										
Nitrogen, Total	NS	0.67	NS	NS	0.497	0.554	0.924	0.504	NS	0.932
Total Kjeldahl Nitrogen	NS	*	NS	NS	0.445	0.423	0.629	0.397	NS	0.802
Nitrate/Nitrite (NOx) as N	NS	*	NS	NS	0.052 I	0.131	0.295	0.107	NS	0.130
Phosphorus, Total	NS	0.06	NS	NS	0.005 U	0.024	0.029	0.005 U	NS	0.006 I
Chlorophyll a	ug/L	see regulation	NS	NS	2.51	1.13	0.87	4.45	NS	1.07
Other Parameters										
Total Suspended Solids	NS	*	NS	NS	6.20 I	4.80 I	2.00 U	2.00 U	NS	2.80 I

Notes:

mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 4.49 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: August 2023

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream				Downstream		Upstream
Volatile Organic Constituents										
Metals										
Aluminum	mg/L	*	NS	0.099 I	NS	0.143	0.072 I	0.039 I	NS	0.035 I
Antimony	mg/L	4.3	NS	0.004 U	NS	0.004 U	0.004 U	0.004 I	NS	0.004 U
Arsenic	mg/L	0.05	NS	0.004 U	NS	0.004 U	0.004 I	0.005 I	NS	0.004 U
Barium	mg/L	*	NS	0.018	NS	0.02	0.028	0.022	NS	0.044
Beryllium	mg/L	0.00013[ad]	NS	0.001 U	NS	0.002	0.003	0.003	NS	0.001 U
Boron	mg/L	1.1¥*	NS	0.029	NS	0.035	0.065	0.06	NS	0.212
Cadmium	mg/L	$Cd \le e^{(0.7409[lnH]-4.719)}/1000$	NS	0.002 U	NS	0.002 I	0.003 I	0.004 I	NS	0.002 U
Chromium	mg/L	$Cr \le e^{(0.819[lnH]+0.6848)}/1000$	NS	0.003 U	NS	0.003 U	0.003 I	0.003 I	NS	0.003 U
Cobalt	mg/L	*	NS	0.001 U	NS	0.002 I	0.003 I	0.003 I	NS	0.001 U
Iron	mg/L	1.0	NS	1.23	NS	0.891	0.777	1.27 J	NS	4.77
Lead	mg/L	$Pb \le e^{(1.273[lnH]-4.705)}/1000$	NS	0.003 U	NS	0.003 U	0.003 U	0.005 I	NS	0.003 U
Mercury	ng/L	12	0.20 U (FB)	1.2	NS	1.8	1.2	1.6	NS	1.1
Nickel	mg/L	$Ni \le e^{(0.846[lnH]+0.0584)}/1000$	NS	0.002 U J	NS	0.015 J	0.003 IJ	0.184 J	NS	0.002 U J
Silver	mg/L	0.00007[a]	NS	0.001 U	NS	0.001 U	0.001 I	0.001 I	NS	0.001 U
Thallium	mg/L	0.0063[a]	NS	0.002 U	NS	0.002 U	0.003 I	0.004 I	NS	0.002 U
Vanadium	mg/L	*	NS	0.003 U	NS	0.003 U	0.003 I	0.003 I	NS	0.003 U
Zinc	mg/L	$Zn \le e^{(0.8473[lnH]+0.884)}/1000$	NS	0.018 I	NS	0.010 U	0.010 U	0.010 U	NS	0.010 U
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.436	NS	0.401	0.724	0.544	NS	0.719
Total Kjeldahl Nitrogen	mg/L	*	NS	0.436	NS	0.245	0.419	0.487	NS	0.719
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.032 U	NS	0.156	0.305	0.057 I	NS	0.032 U
Nitrate (NO3) as N	mg/L	*	NS	0.032 U	NS	0.156	0.305	0.057 I	NS	0.032 U
Phosphorus, Total	mg/L	0.06	NS	0.012 I	NS	0.009 I	0.021	0.016 I	NS	0.031
Chlorophyll a	ug/L	see regulation	NS	NS	NS	0.42 J	7.24 J	8.30 J	NS	4.89
Other Parameters										
Total Dissolved Solids	mg/L	*	NS	42	NS	77	78	52	NS	108 J
Total Suspended Solids	mg/L	*	NS	3.10 I	NS	2.00 U	2.40 I	4.10 I	NS	8.20 I
Chemical Oxygen Demand	mg/L	*	NS	22	NS	20	22	21	NS	27
Total Hardness	mg/L	*	NS	25.0 U	NS	25.1	30.4	28.5	NS	95.9
Total Organic Carbon	mg/L	*	NS	4.5	NS	3.6	3.2	4.3	NS	7.4

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
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M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 4.50 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: October 2023

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇒	⇒	⇒	Downstream	⇐	Upstream
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.408	1.62	0.450	0.906	0.501	0.492	0.350
Total Kjeldahl Nitrogen	mg/L	*	NS	0.151 I	0.158 I	0.181 I	0.243	0.359	0.173 I	0.284
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.257	1.46	0.269	0.663	0.142	0.319	0.066
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.006 I	0.013 I	0.190	0.027	0.005 U	0.008 I
Chlorophyll a	µg/L	see regulation	NS	0.80	1.59	0.39	0.94	13.3	0.47	1.38
Other Parameters										
Total Suspended Solids	mg/L	*	NS	2.00 U	2.00 U	2.00 U	2.00 U	4.60 I	2.00 U	2.70 I

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
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L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 4.51 - Surface Water Quality Laboratory
Summary of Detections by Station and Date Sampled
Sample Date: December 2023

Parameter	Units	Class III SW Standard	Sample QC	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
				Upstream	⇒	⇒	⇒	Downstream	⇐	Upstream
Nutrients										
Nitrogen, Total	mg/L	0.67	NS	0.576	0.579	0.658	0.912	0.785	0.523	0.609
Total Kjeldahl Nitrogen	mg/L	*	NS	0.445	0.259	0.325	0.239	0.500	0.270	0.387
Nitrate/Nitrite (NOx) as N	mg/L	*	NS	0.131	0.320	0.333	0.673	0.285	0.253	0.222
Phosphorus, Total	mg/L	0.06	NS	0.005 U	0.008 I	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Chlorophyll a	µg/L	see regulation	NS	0.53	1.23	0.30	0.69	6.31	0.24	0.46
Other Parameters										
Total Suspended Solids	mg/L	*	NS	2.00 U	2.00 U	2.00 U	2.00 U	2.40 I	2.00 U	2.00 U

Notes:
mg/L, ug/L, ng/L = milligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
Class III SW Standards = Standards established in Chapter 62-302.530 Florida Administrative Code for Class III predominately fresh waters. Other standards may apply.
* - No Standard established in Chapter 62-302.530 Florida Administrative Code.
ǂ - Criteria based on Chapter 62-777 Florida Administrative Code (Contaminated Cleanup target Levels)
¥ - Criteria for boron based on surface water clean up target level developed for the Florida Department of Environmental Protection by the University of Florida (2003)
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Figure 13.1: Benzene – Distribution of Surface Water Results by Station

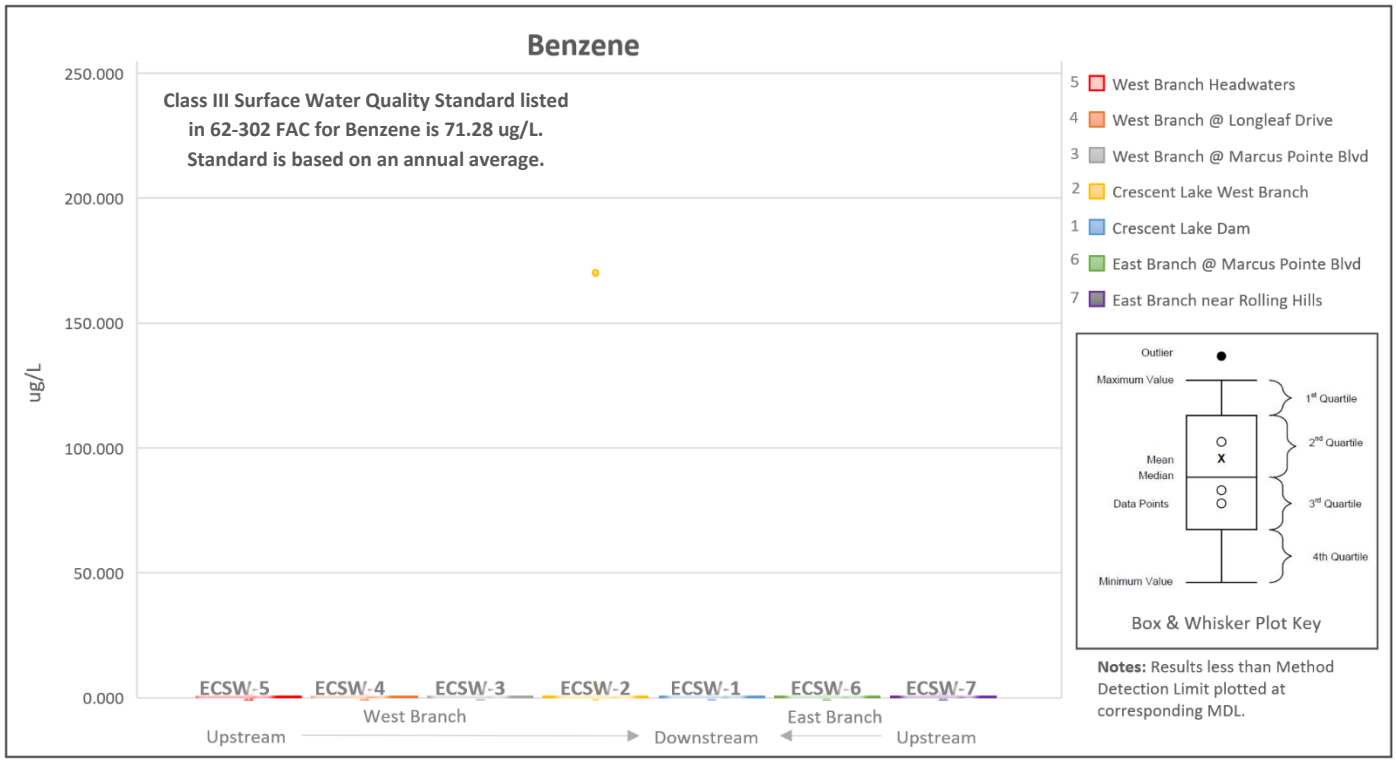


Figure 14.1: Benzene – Surface Water Trends by Monitoring Station & Date

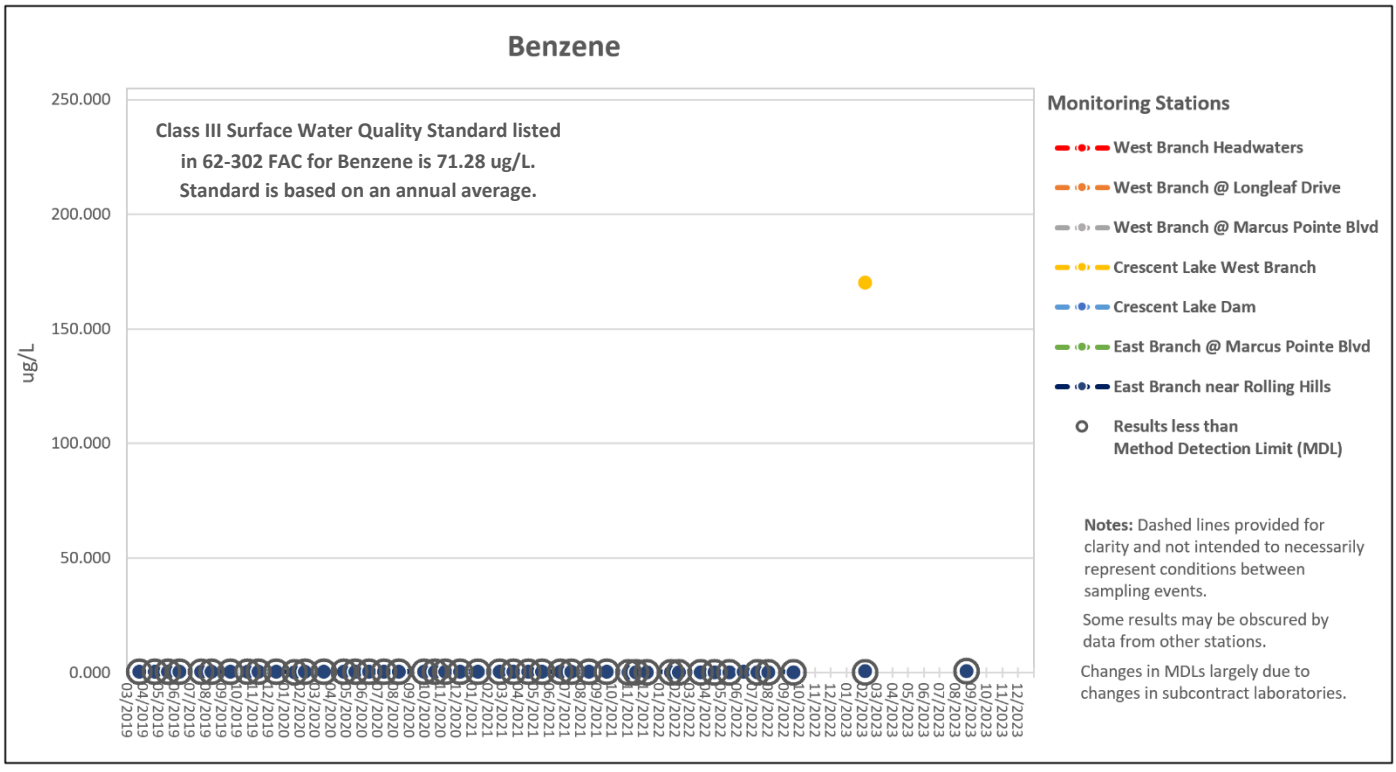


Figure 13.2: Bromomethane – Distribution of Surface Water Results by Station

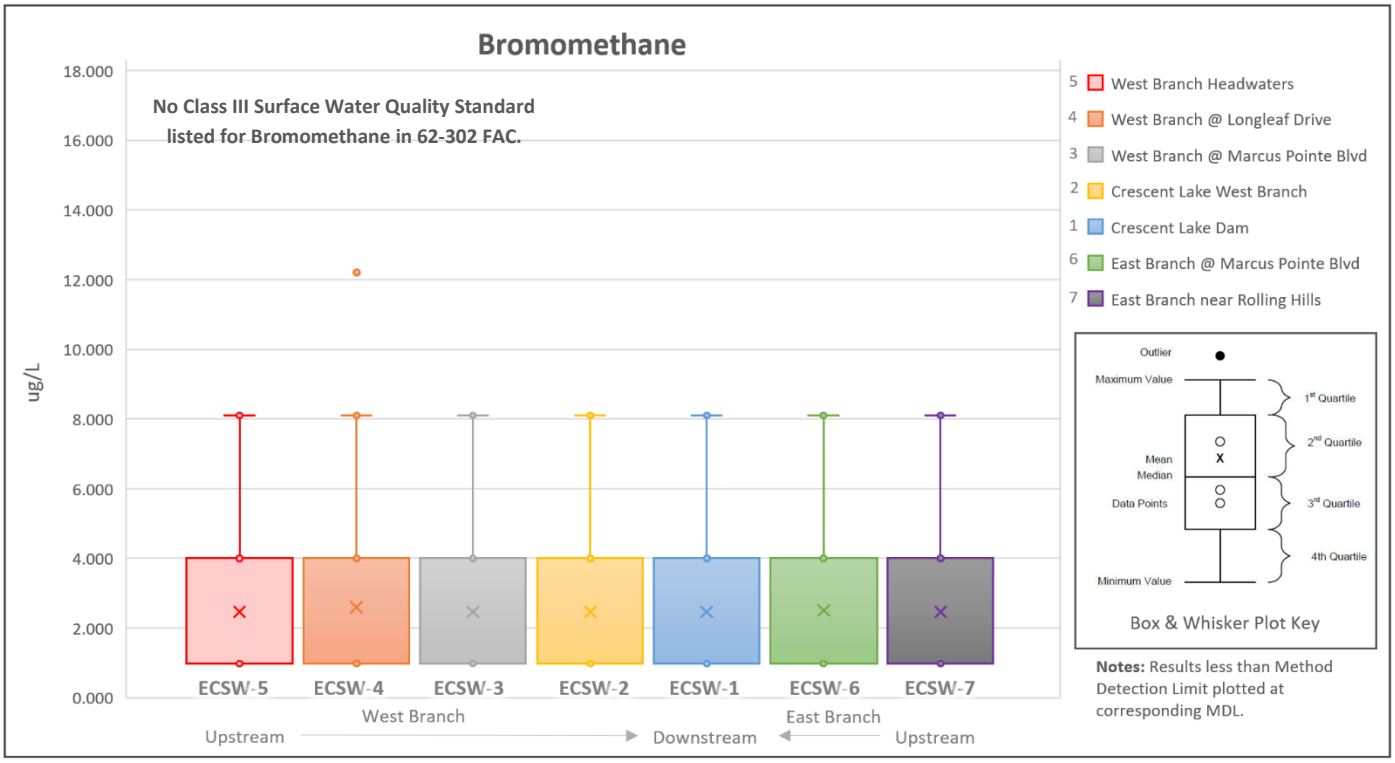


Figure 14.2: Bromomethane – Surface Water Trends by Monitoring Station & Date

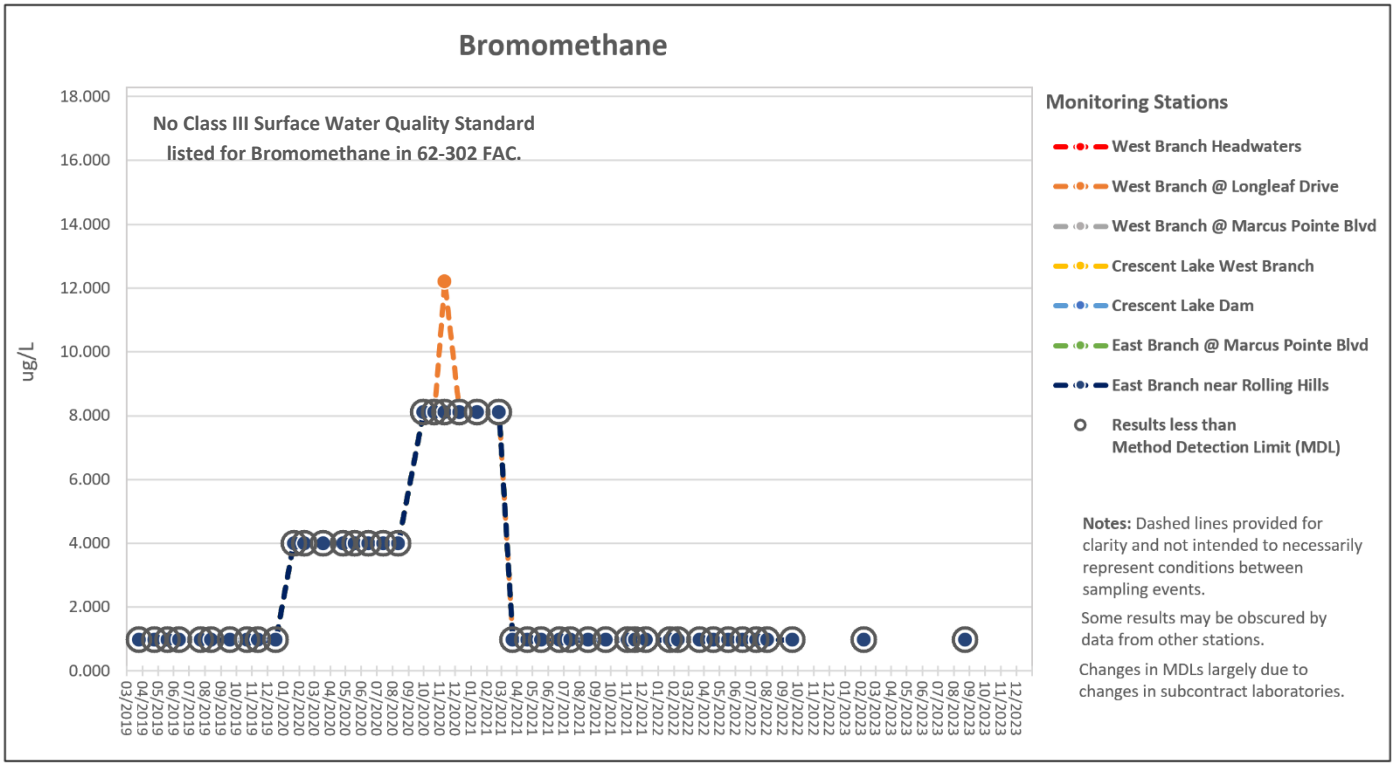


Figure 13.3: Chloromethane – Distribution of Surface Water Results by Station

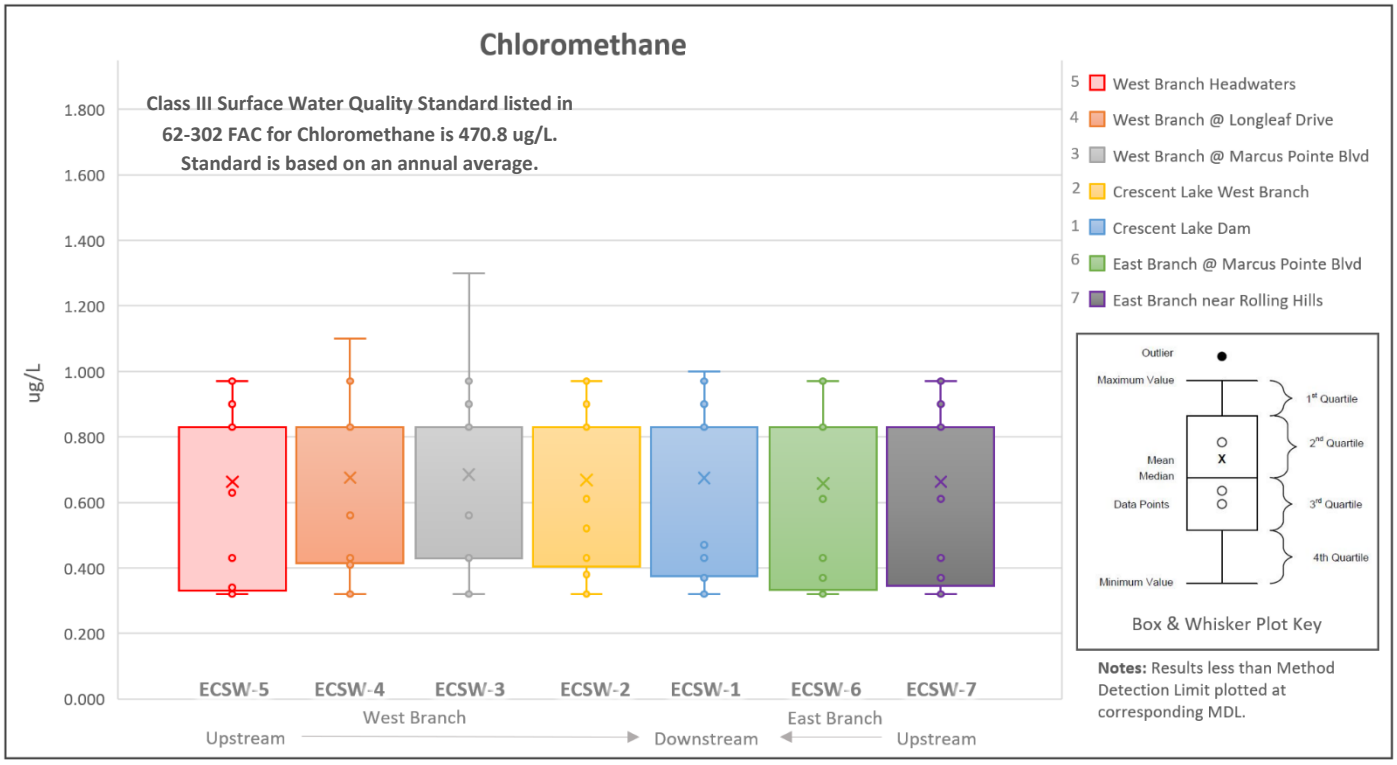


Figure 14.3: Chloromethane – Surface Water Trends by Monitoring Station & Date

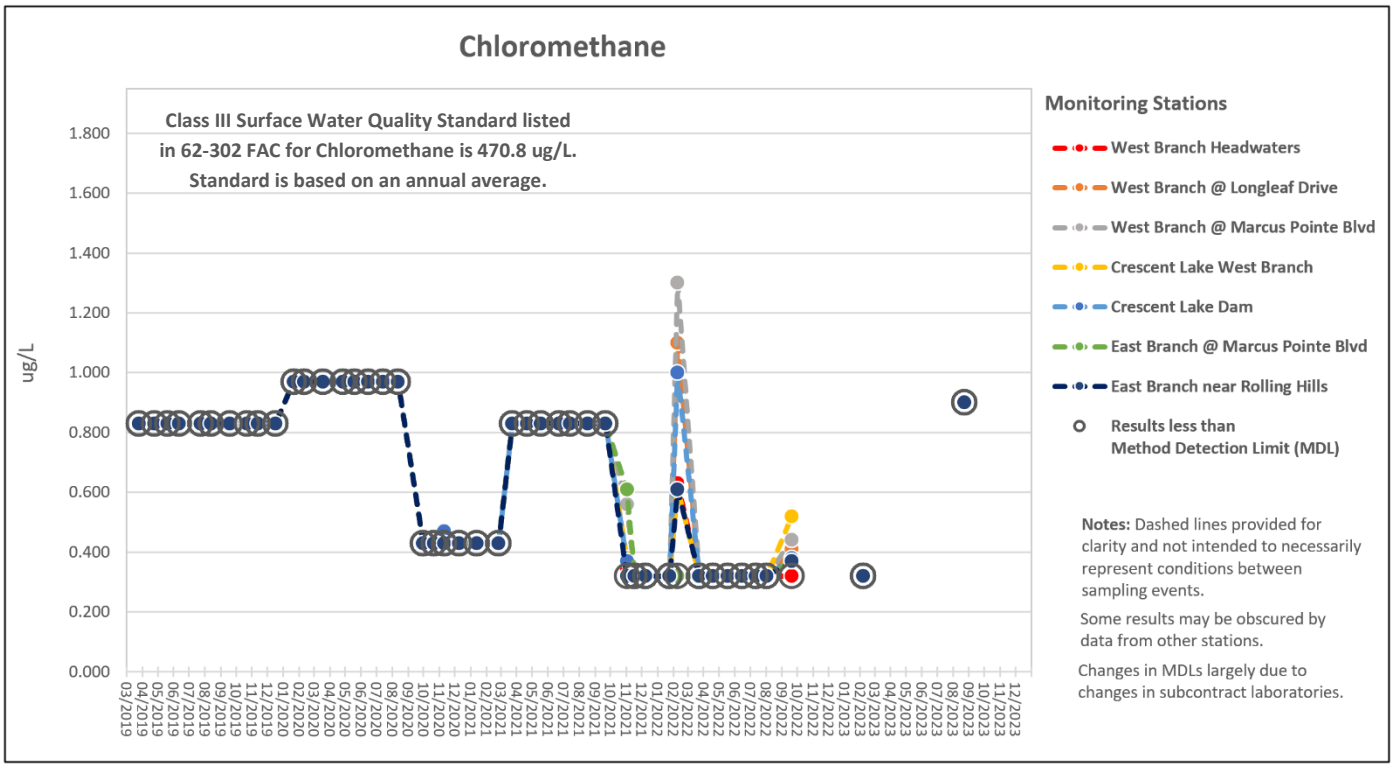


Figure 13.4: Ethylbenzene – Distribution of Surface Water Results by Station

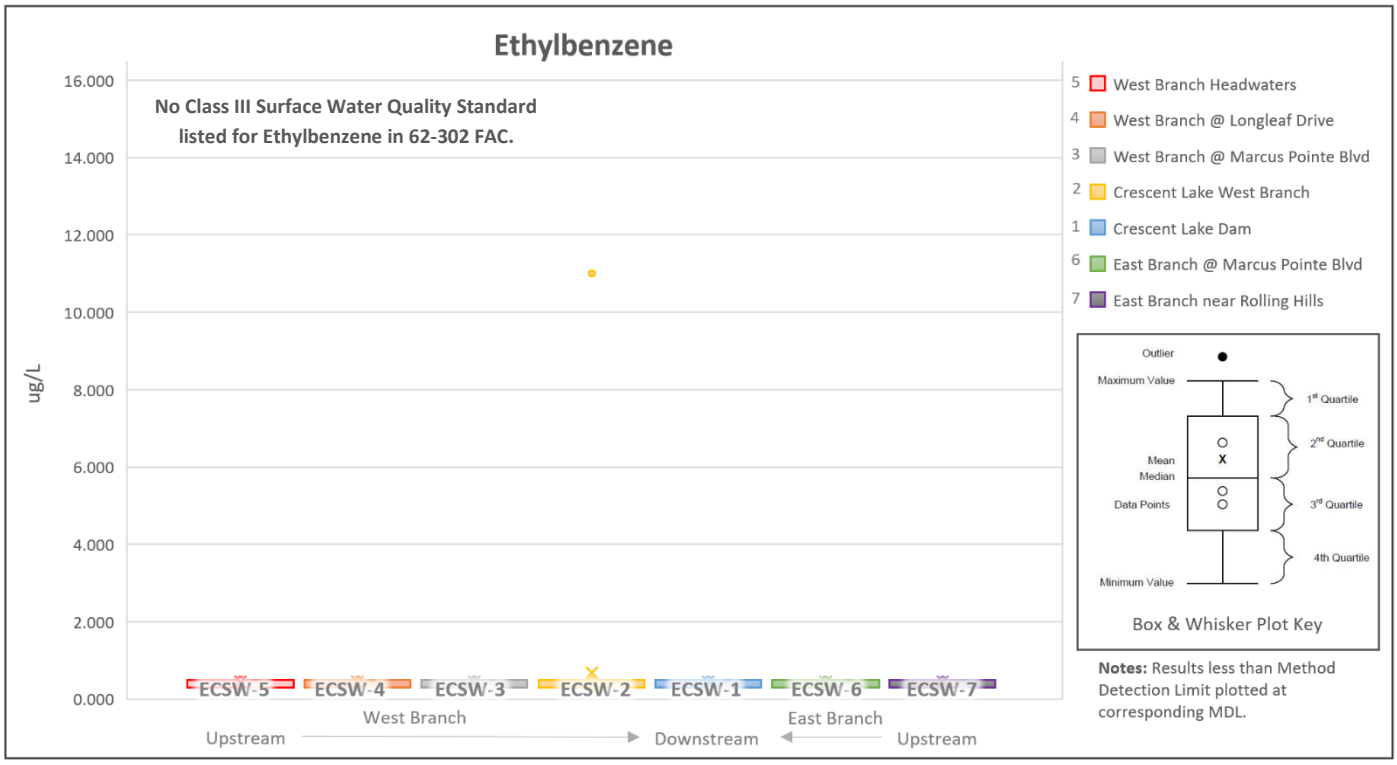


Figure 14.4: Ethylbenzene – Surface Water Trends by Monitoring Station & Date

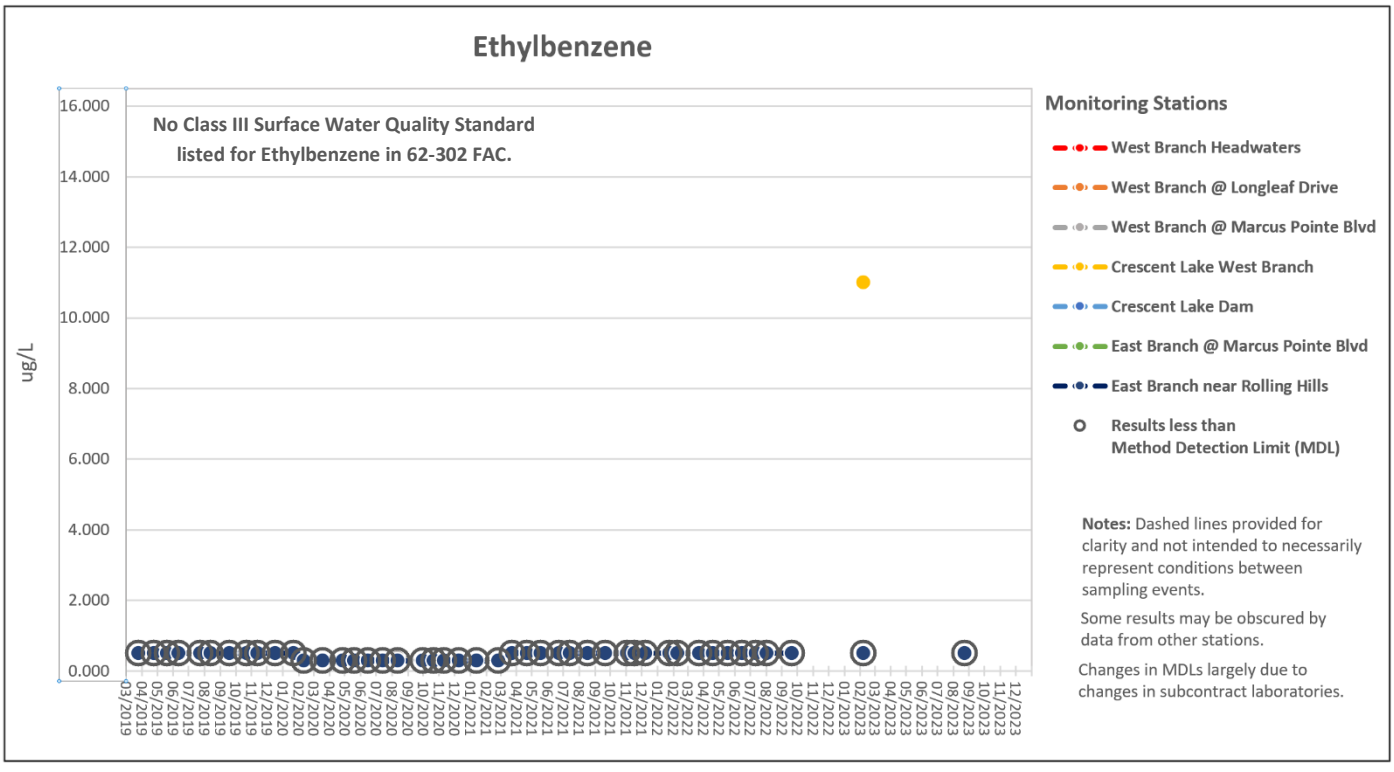


Figure 13.5: Toluene – Distribution of Surface Water Results by Station

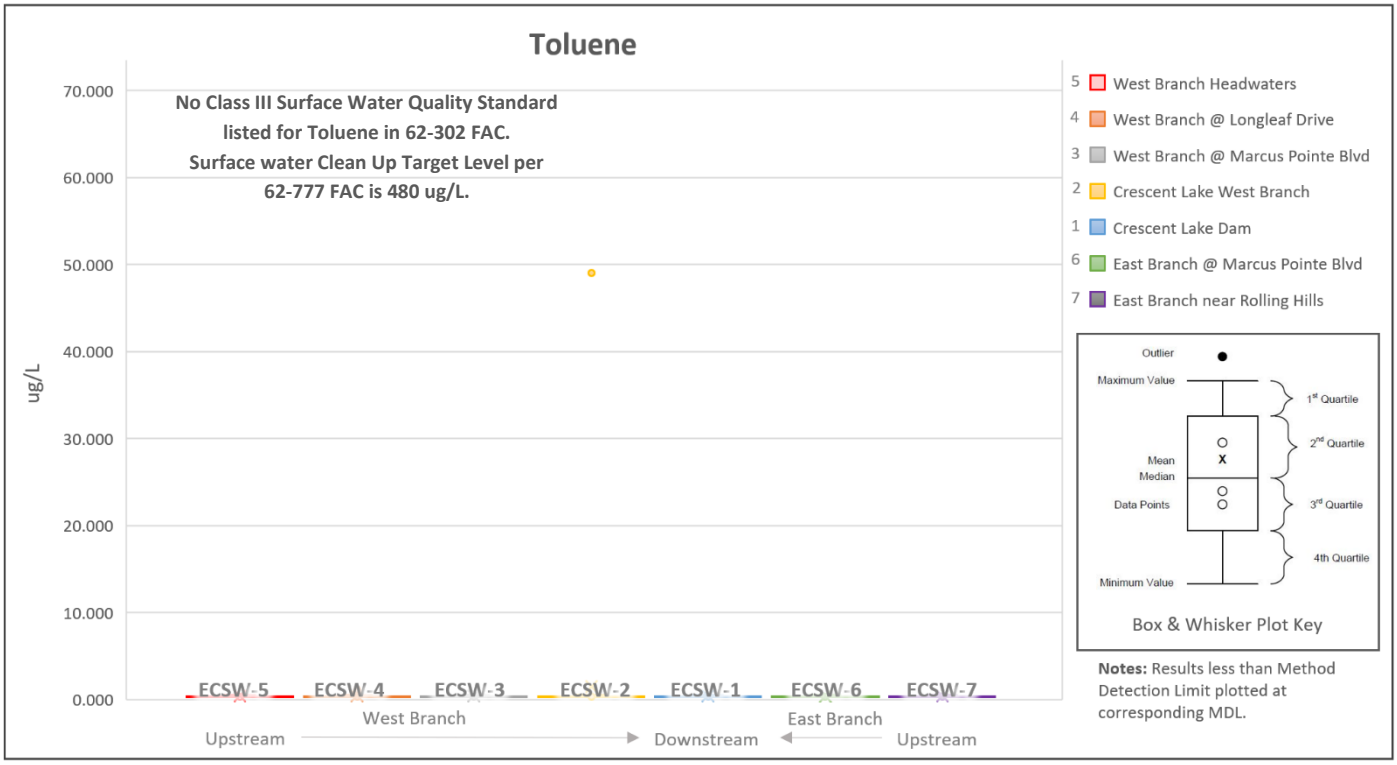


Figure 14.5: Toluene – Surface Water Trends by Monitoring Station & Date

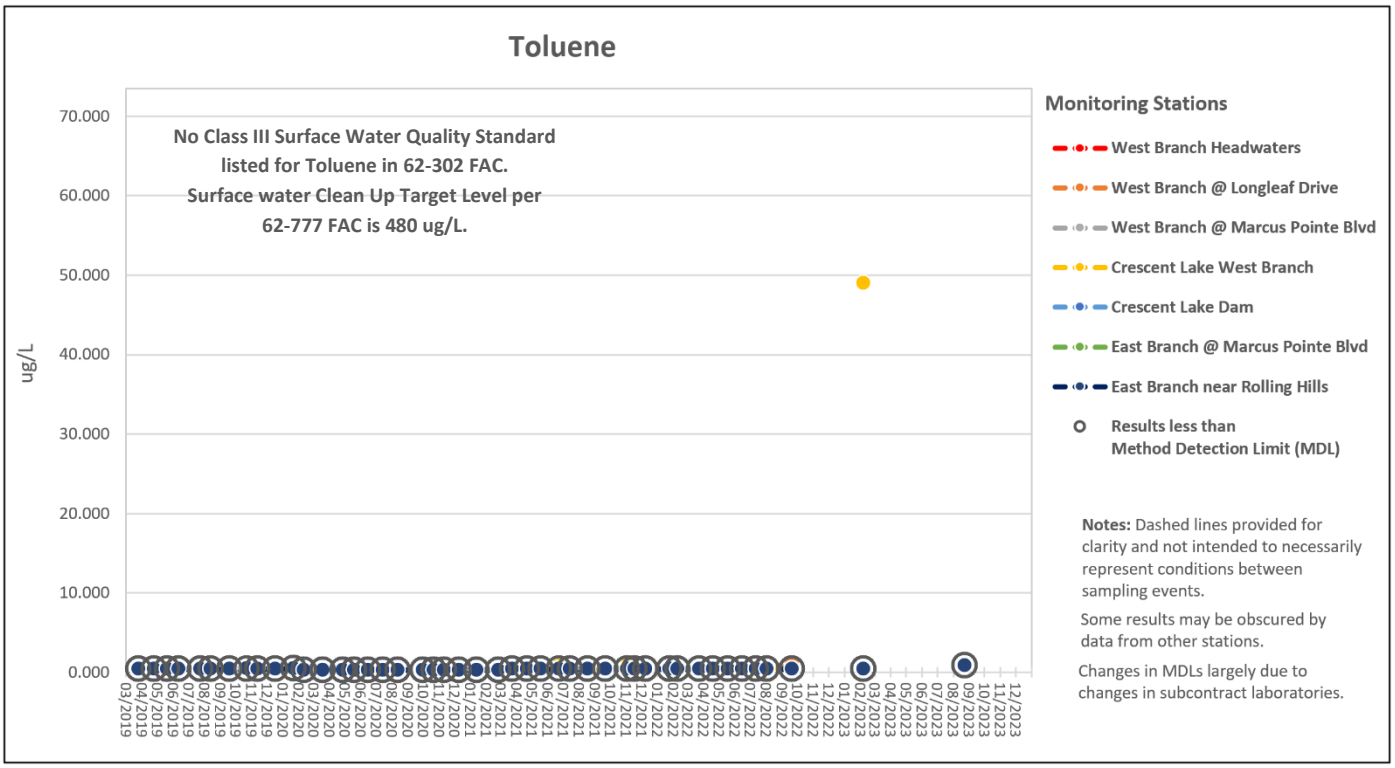


Figure 13.6: Xylenes, Total – Distribution of Surface Water Results by Station

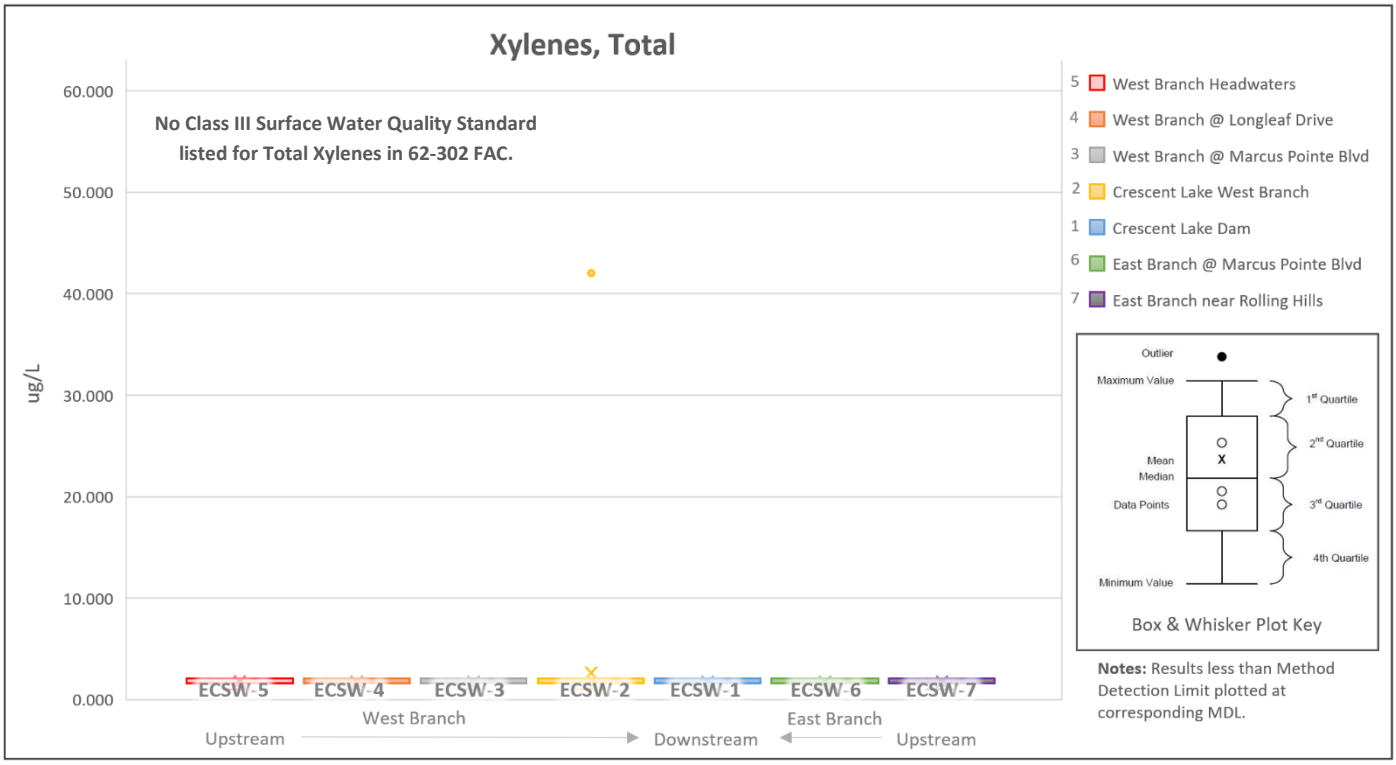


Figure 14.6: Xylenes, Total – Surface Water Trends by Monitoring Station & Date

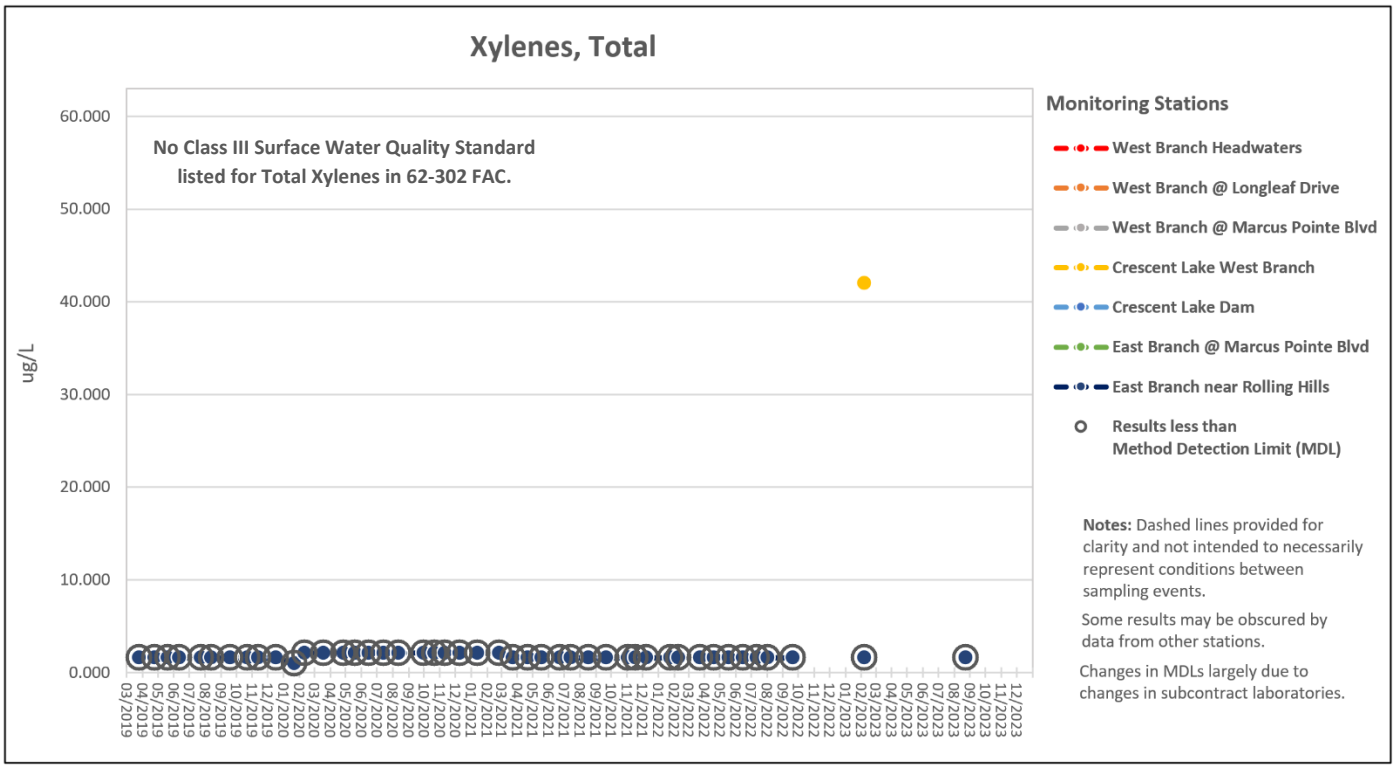


Figure 13.7: Aluminum – Distribution of Surface Water Results by Station

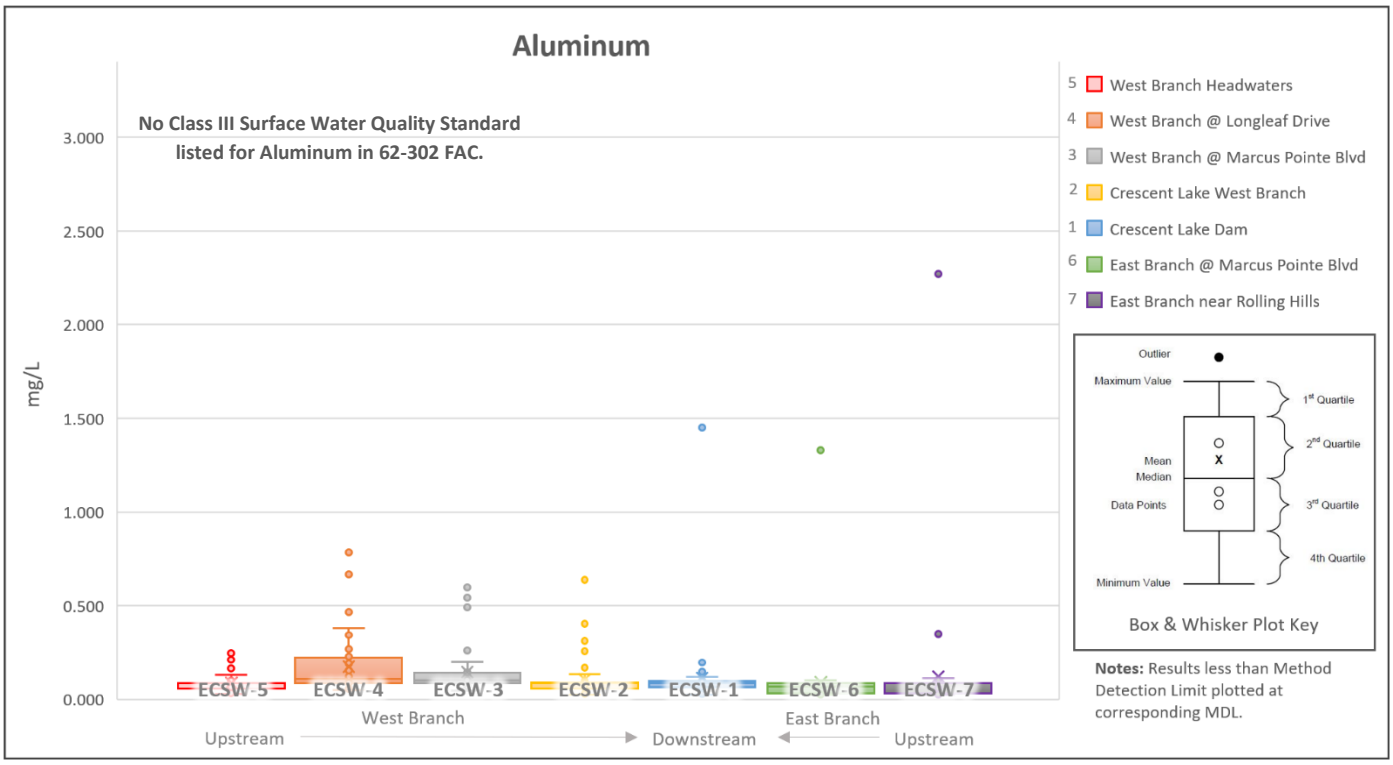


Figure 14.7: Aluminum – Surface Water Trends by Monitoring Station & Date

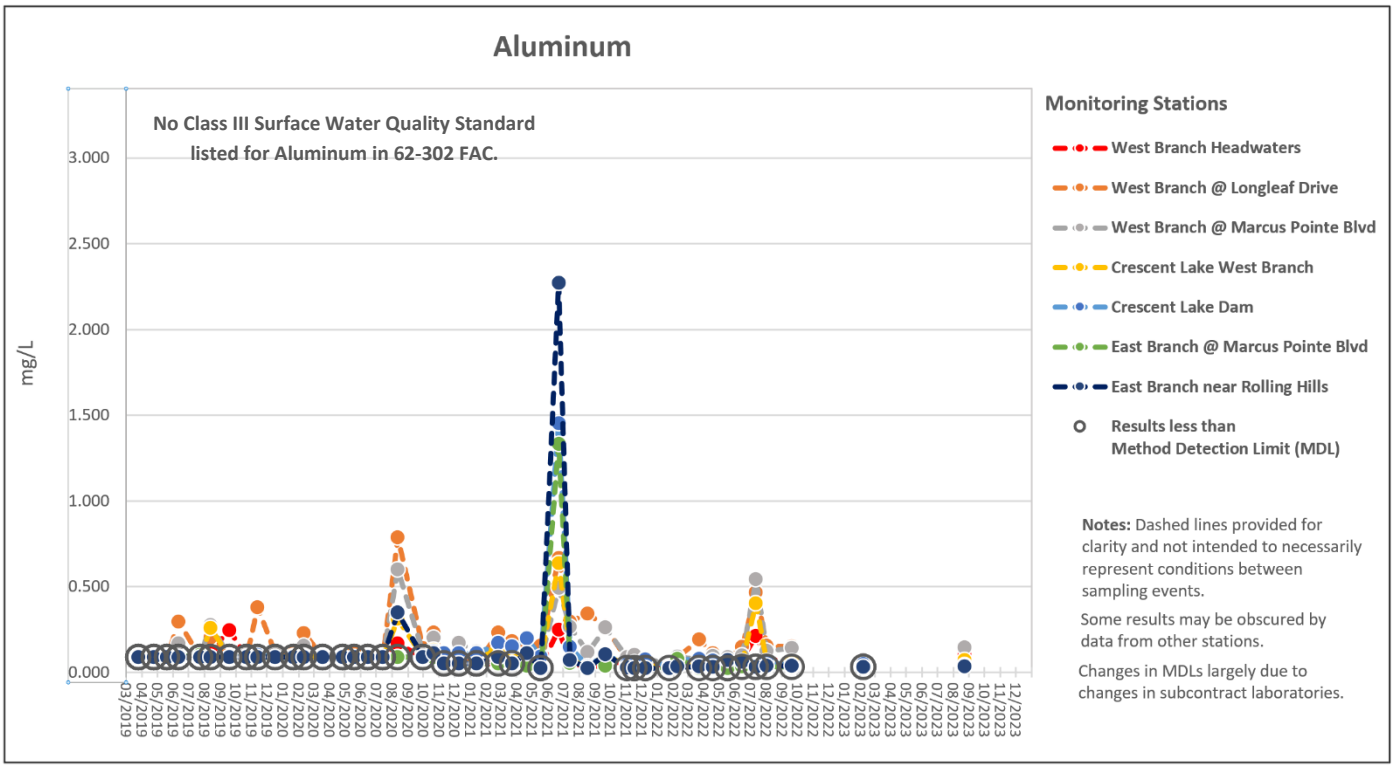


Figure 13.8: Barium – Distribution of Surface Water Results by Station

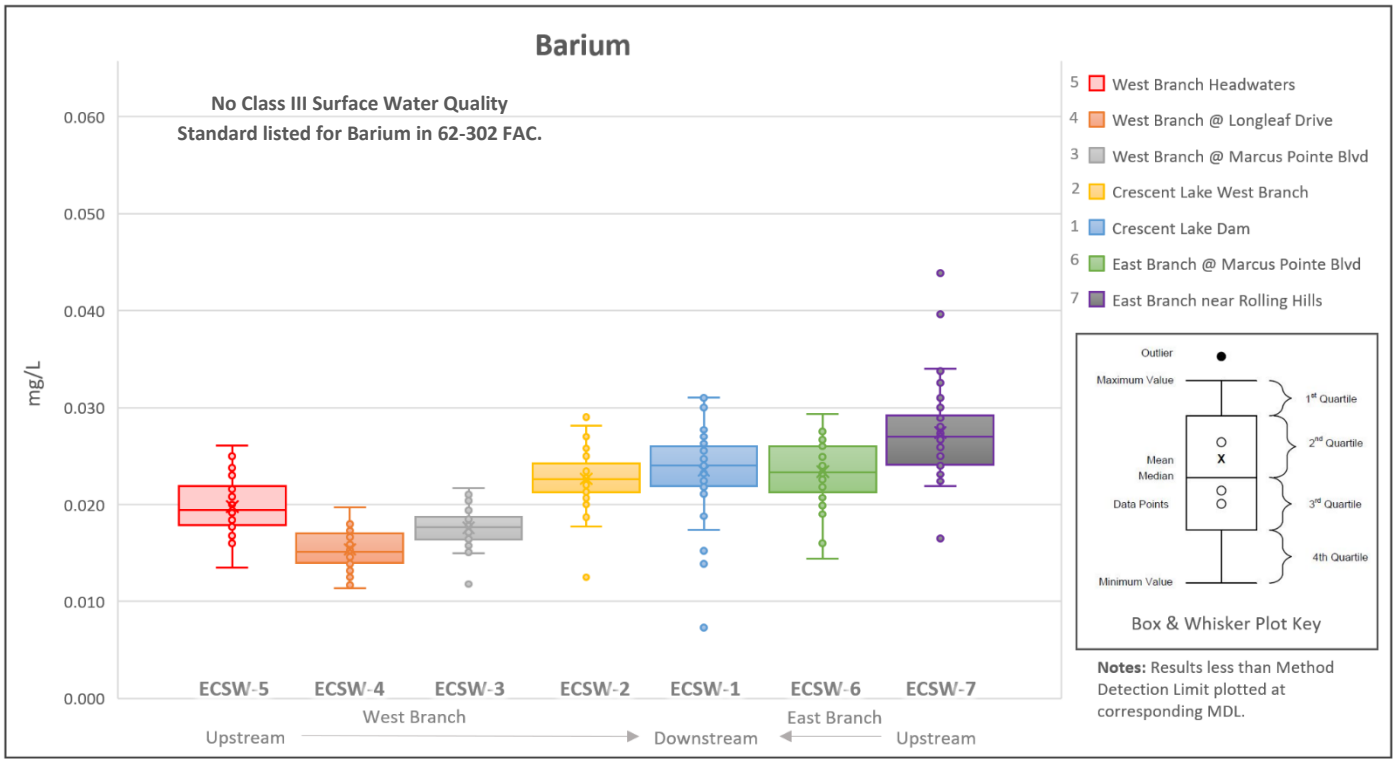


Figure 14.8: Barium – Surface Water Trends by Monitoring Station & Date

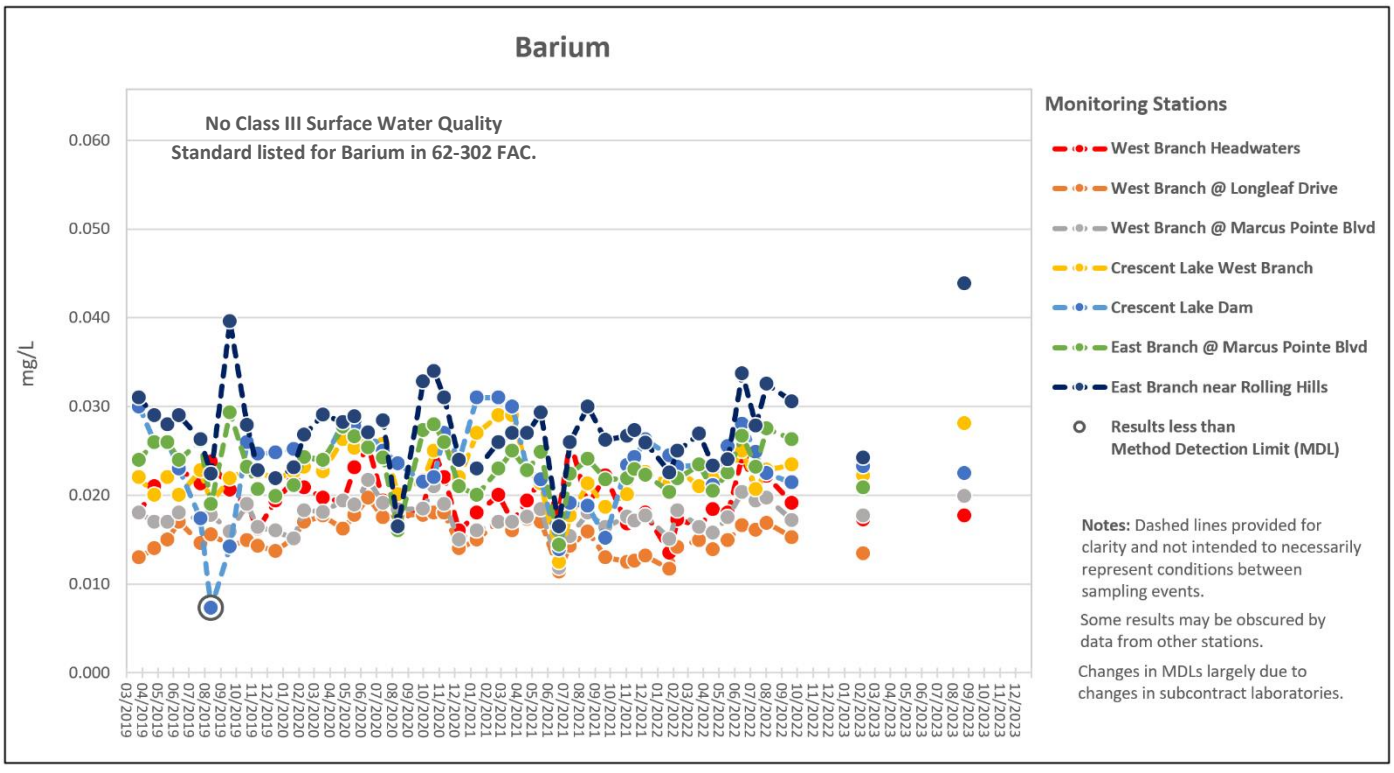


Figure 13.9: Beryllium – Distribution of Surface Water Results by Station

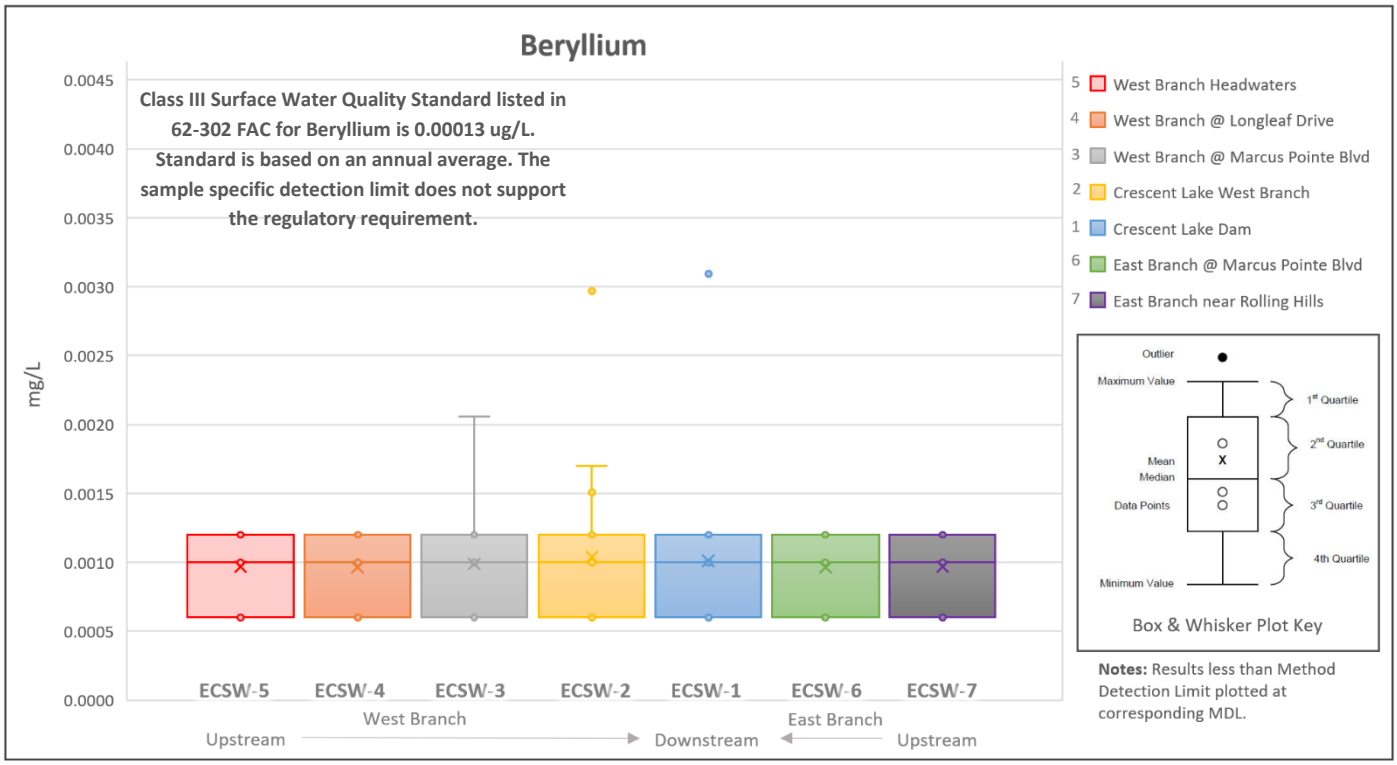


Figure 14.9: Beryllium – Surface Water Trends by Monitoring Station & Date

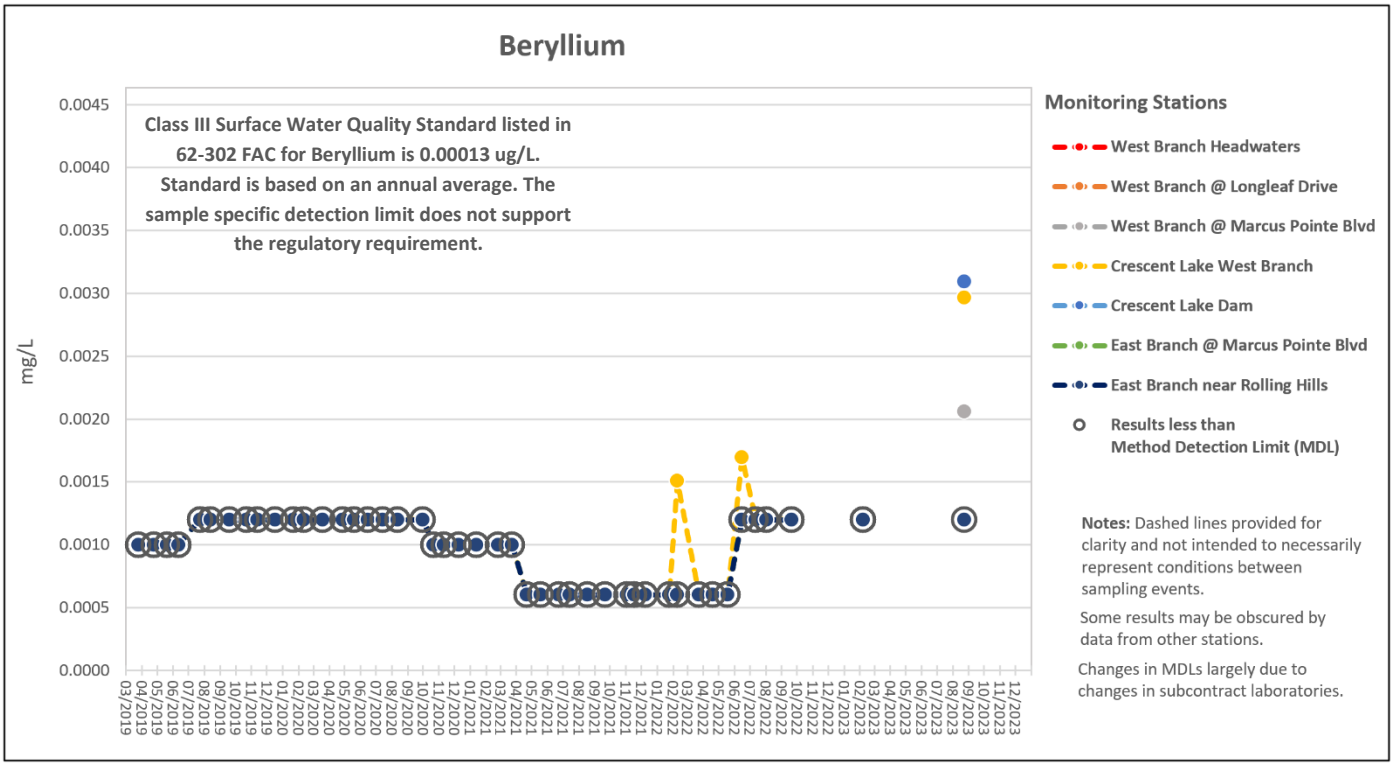


Figure 13.10: Boron – Distribution of Surface Water Results by Station

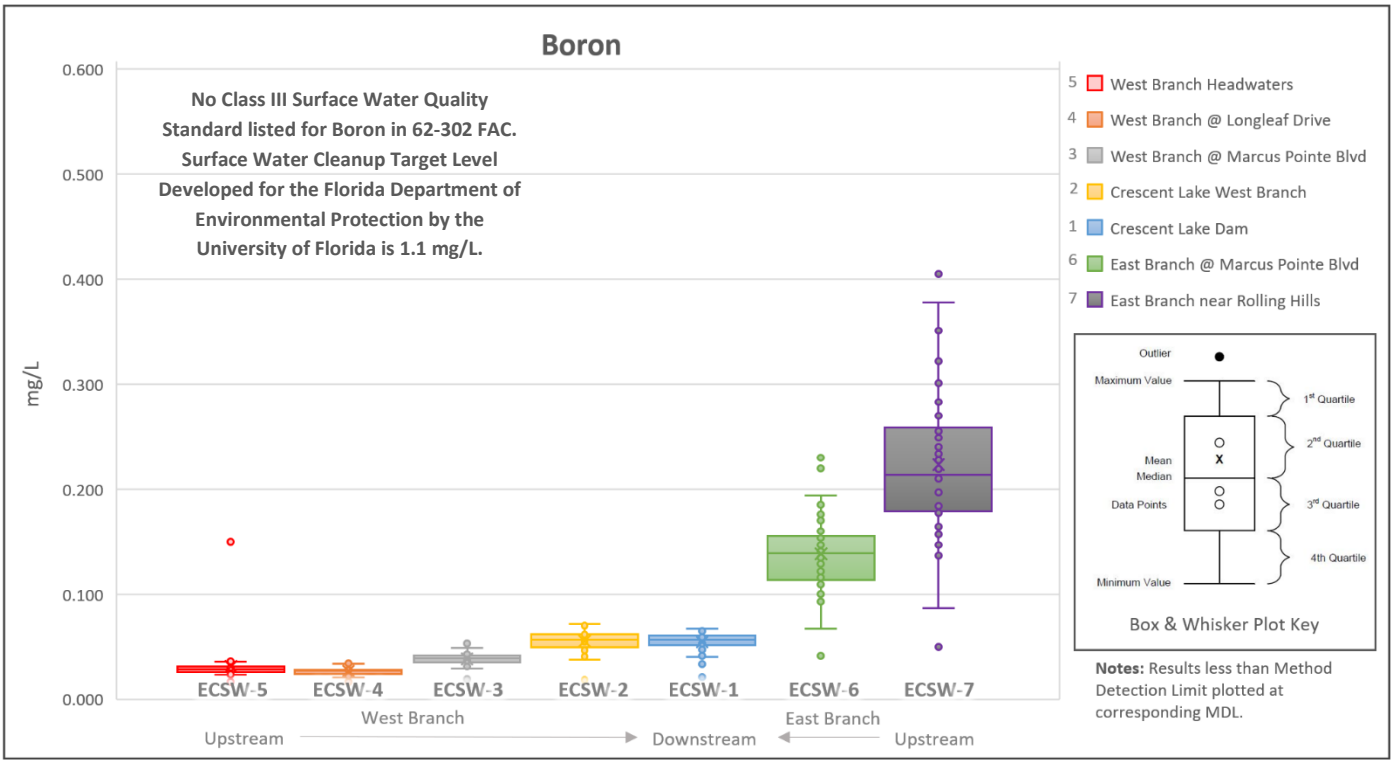


Figure 14.10: Boron – Surface Water Trends by Monitoring Station & Date

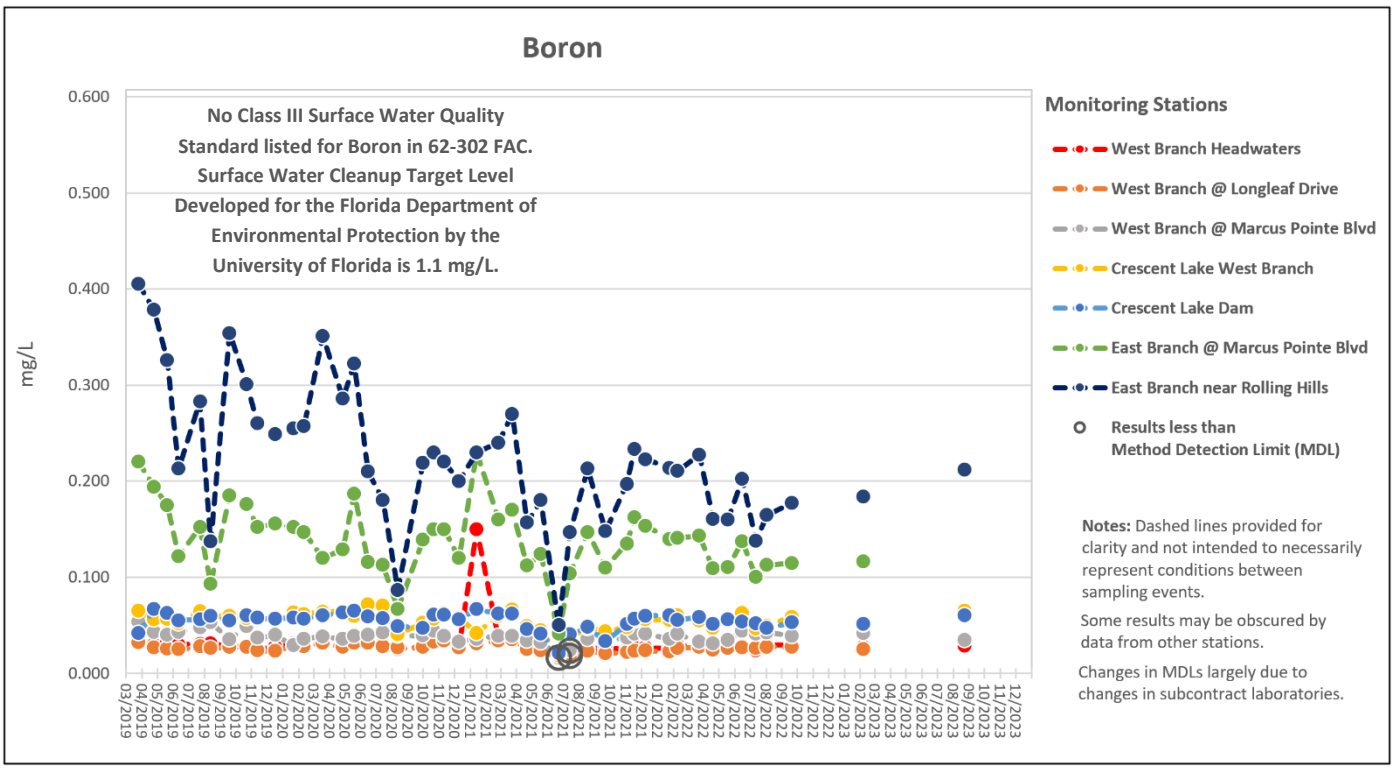


Figure 13.11: Iron – Distribution of Surface Water Results by Station

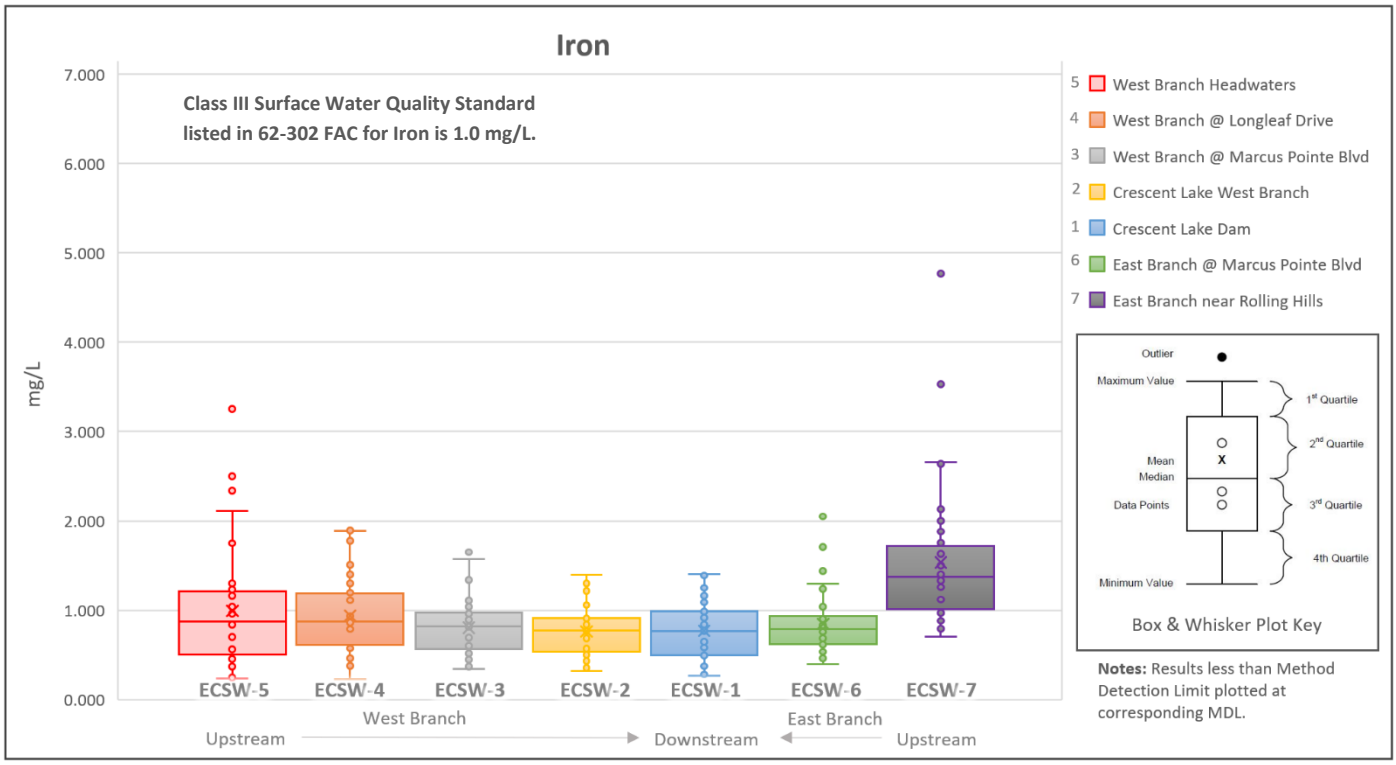


Figure 14.11: Iron – Surface Water Trends by Monitoring Station & Date

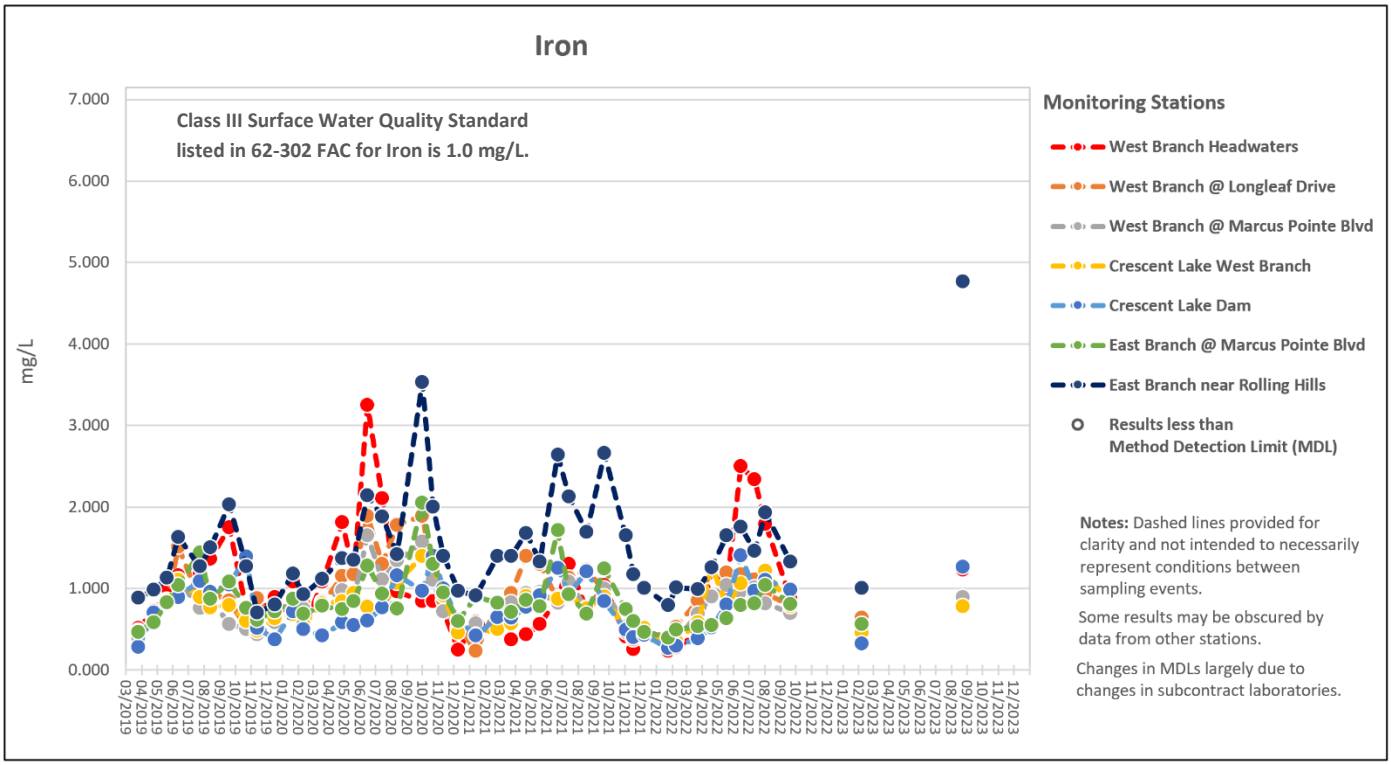


Figure 13.12: Mercury – Distribution of Surface Water Results by Station

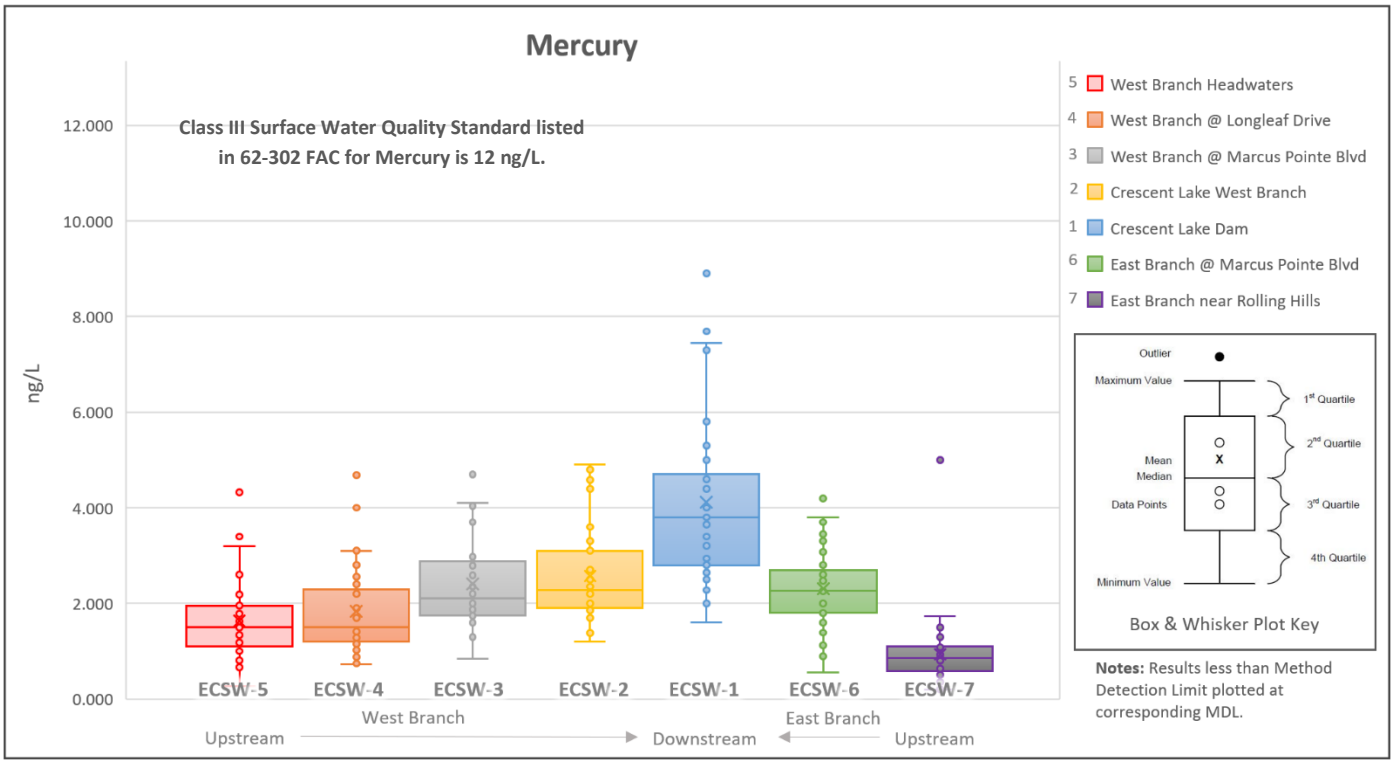


Figure 14.12: Mercury – Surface Water Trends by Monitoring Station & Date

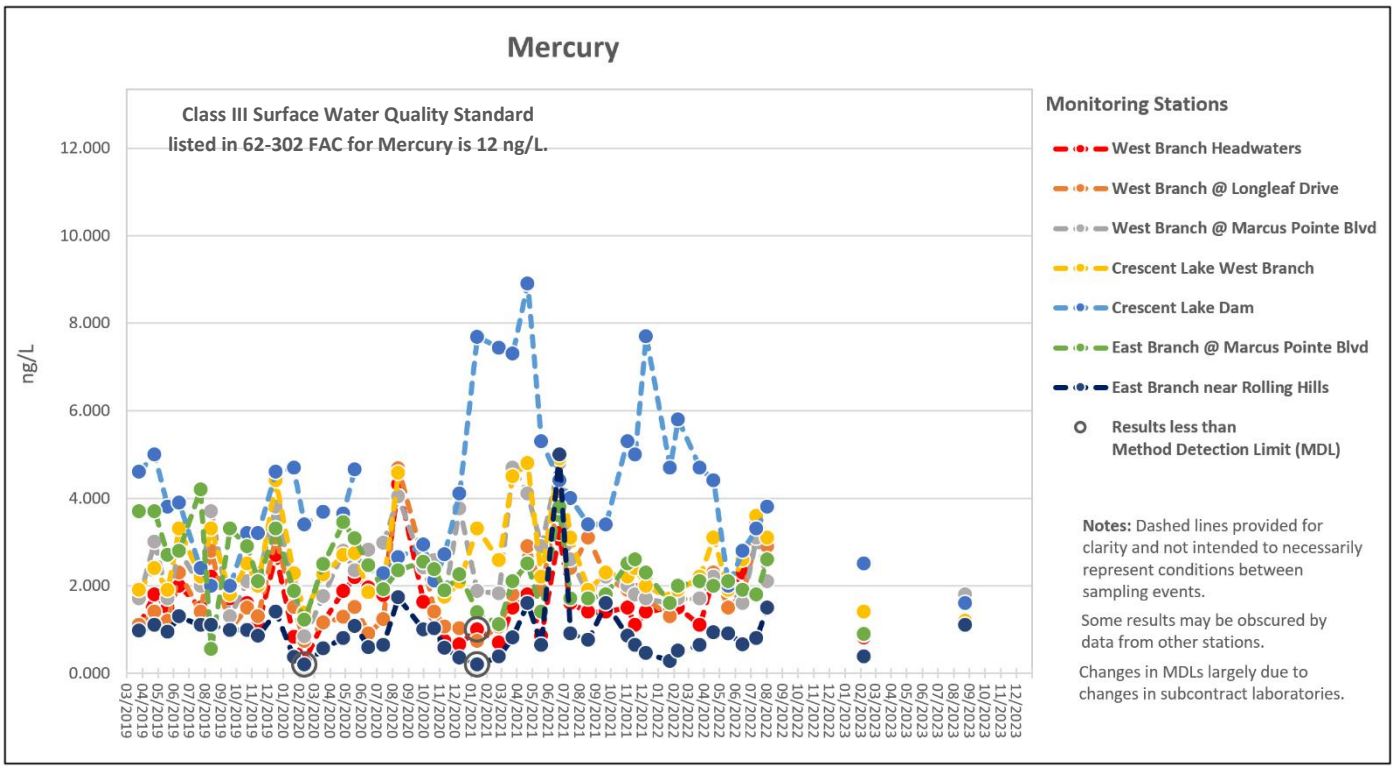


Figure 13.13 Nickel – Distribution of Surface Water Results by Station

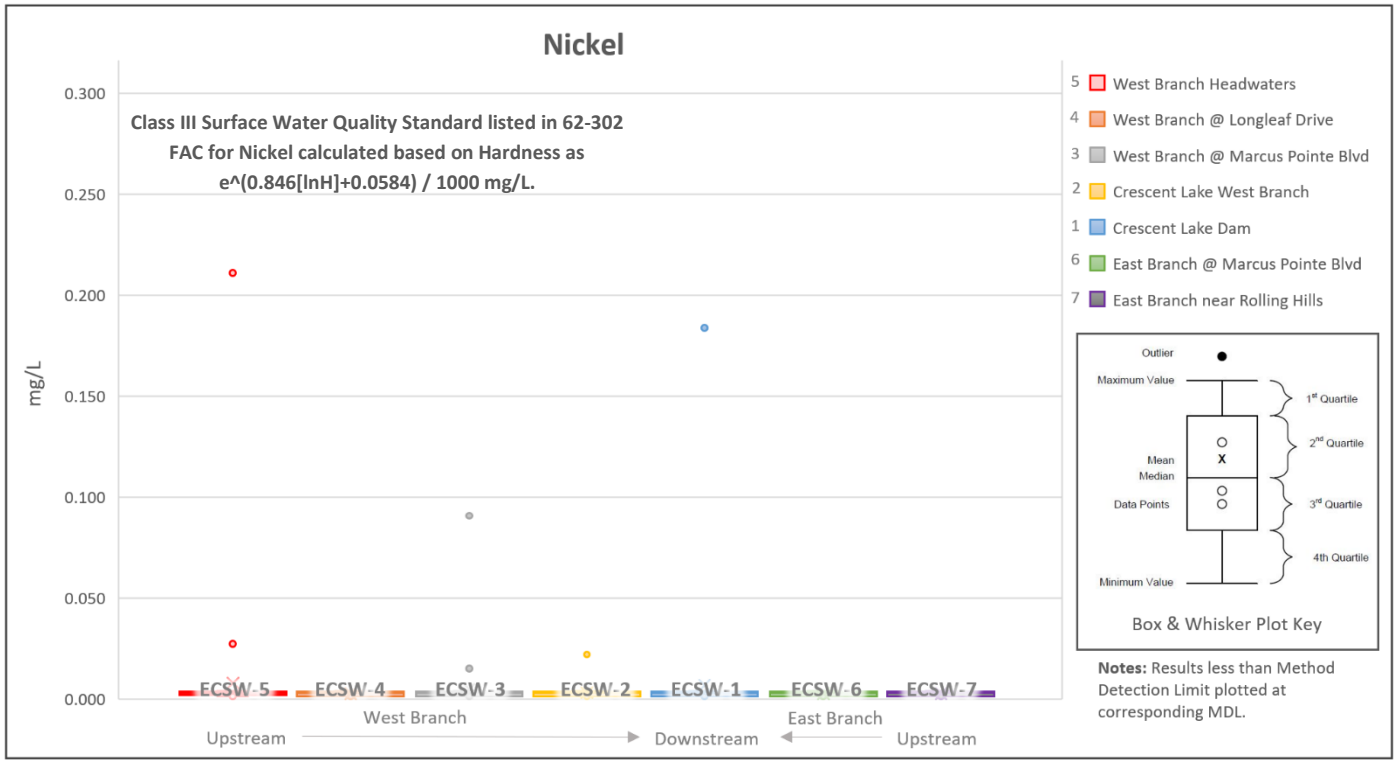


Figure 14.13: Nickel – Surface Water Trends by Monitoring Station & Date

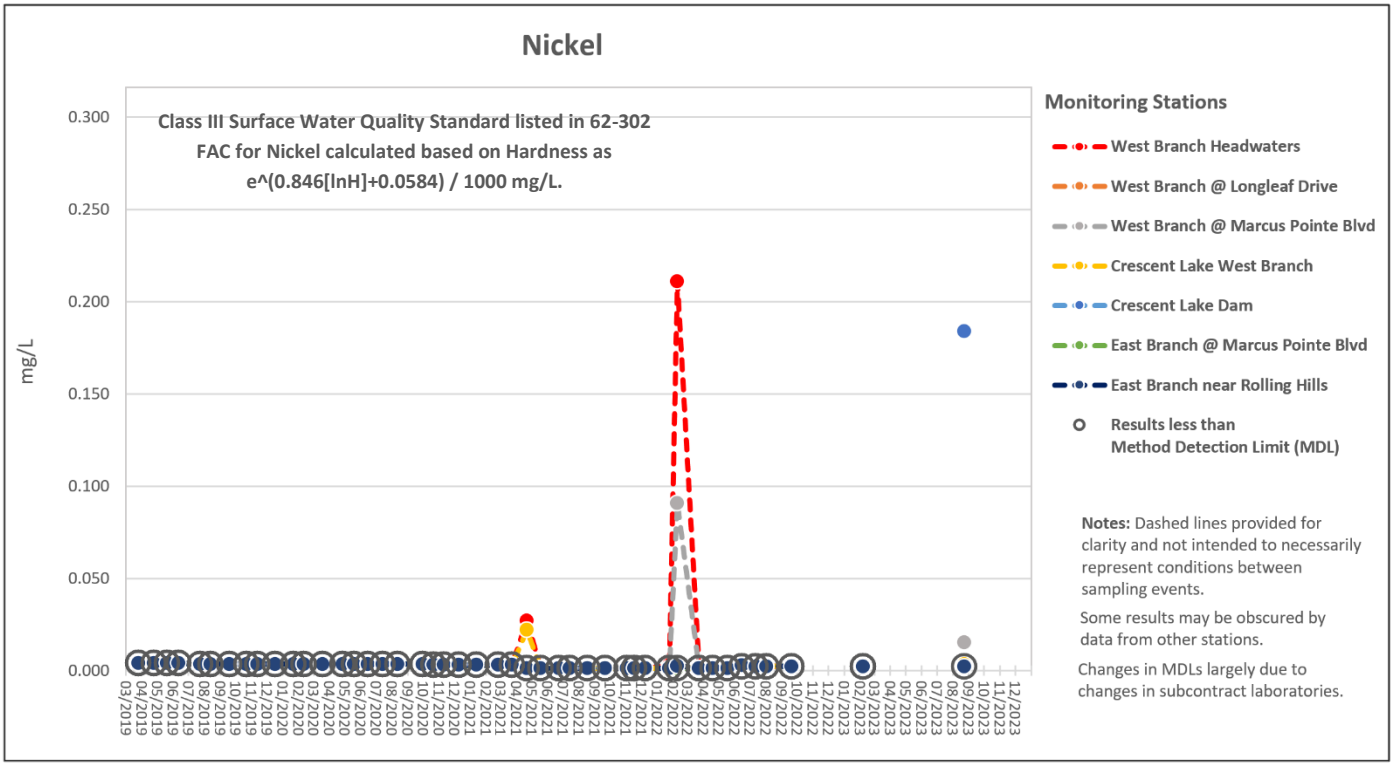


Figure 13.14: Nitrogen, Total – Distribution of Surface Water Results by Station

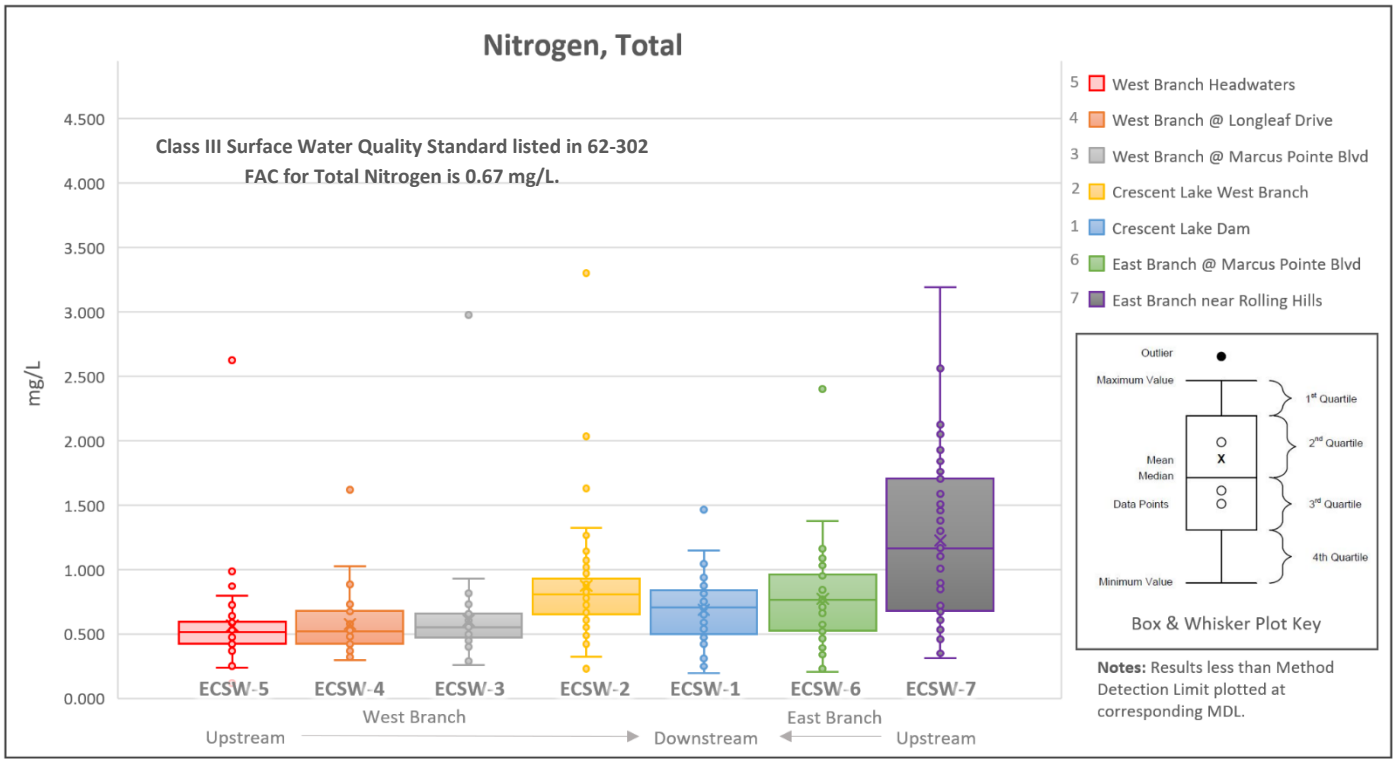


Figure 14.14: Nitrogen, Total – Surface Water Trends by Monitoring Station & Date

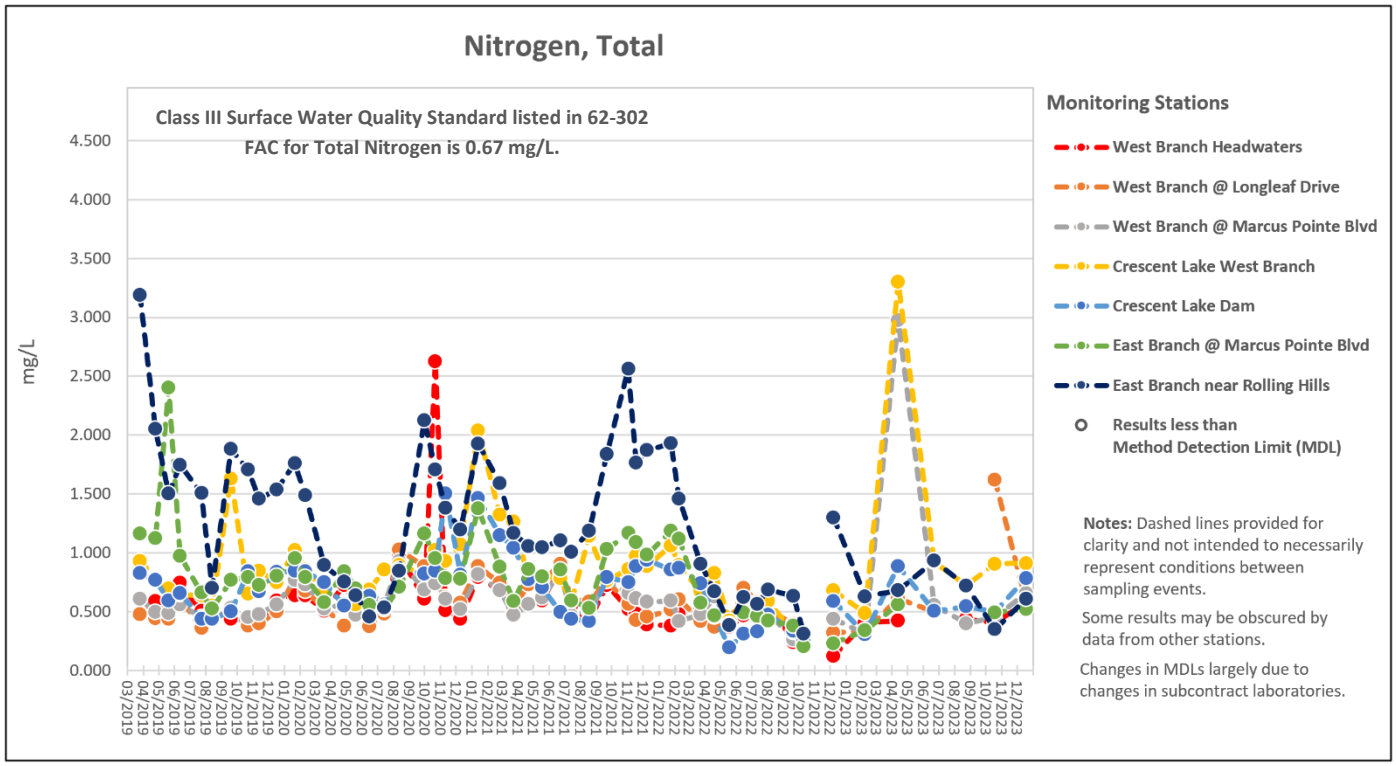


Figure 13.15: Total Kjeldahl Nitrogen – Distribution of Surface Water Results by Station

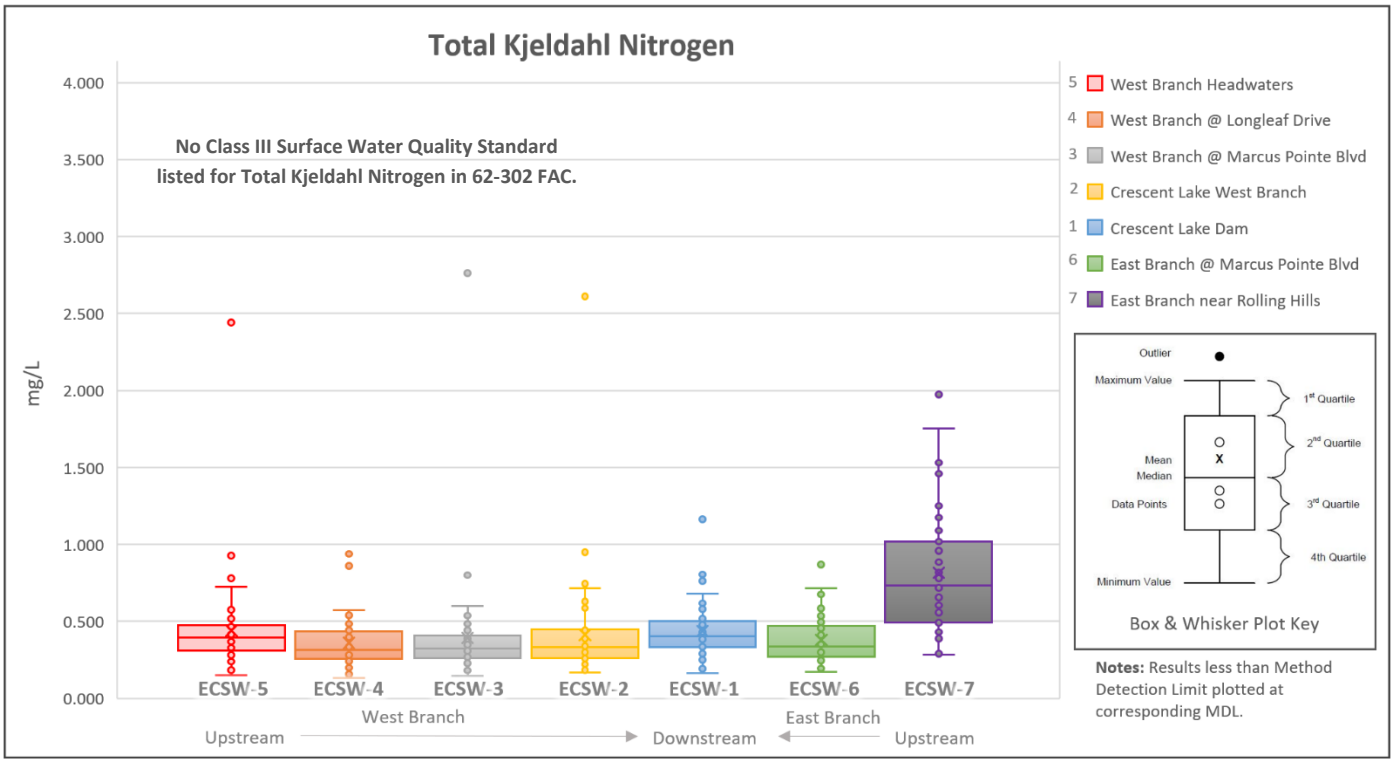


Figure 14.15: Total Kjeldahl Nitrogen – Surface Water Trends by Monitoring Station & Date

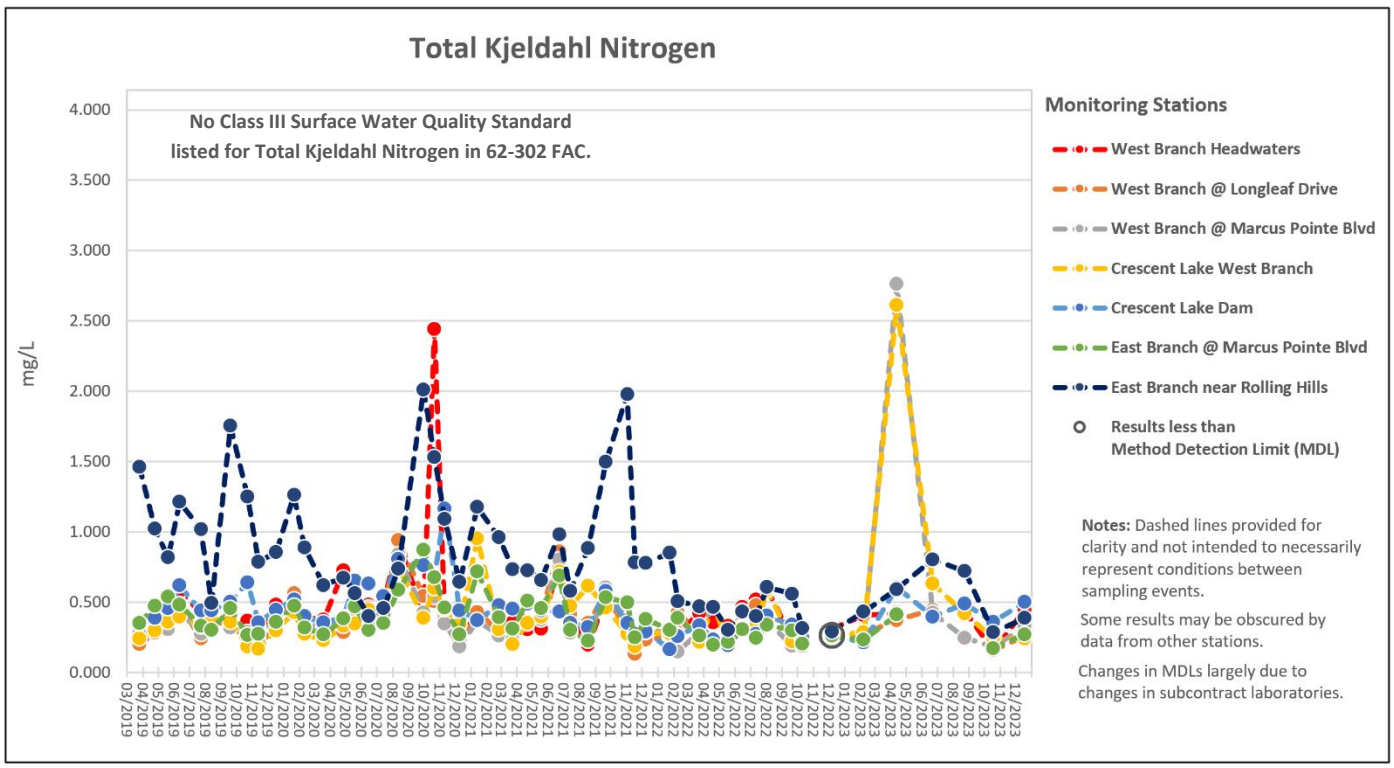


Figure 13.16: Nitrate/Nitrite (NOx) – Distribution of Surface Water Results by Station

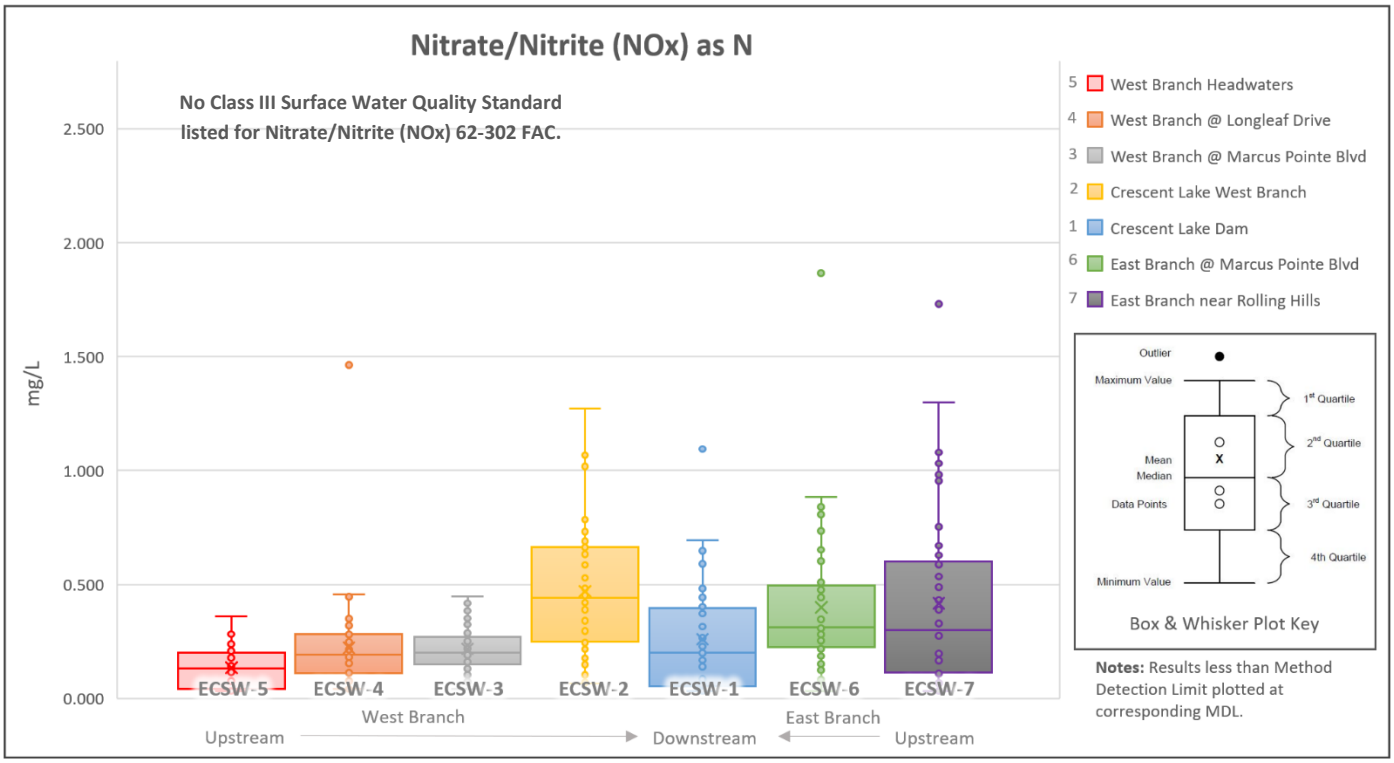


Figure 13.16: Nitrate/Nitrite (NOx) – Surface Water Trends by Monitoring Station & Date

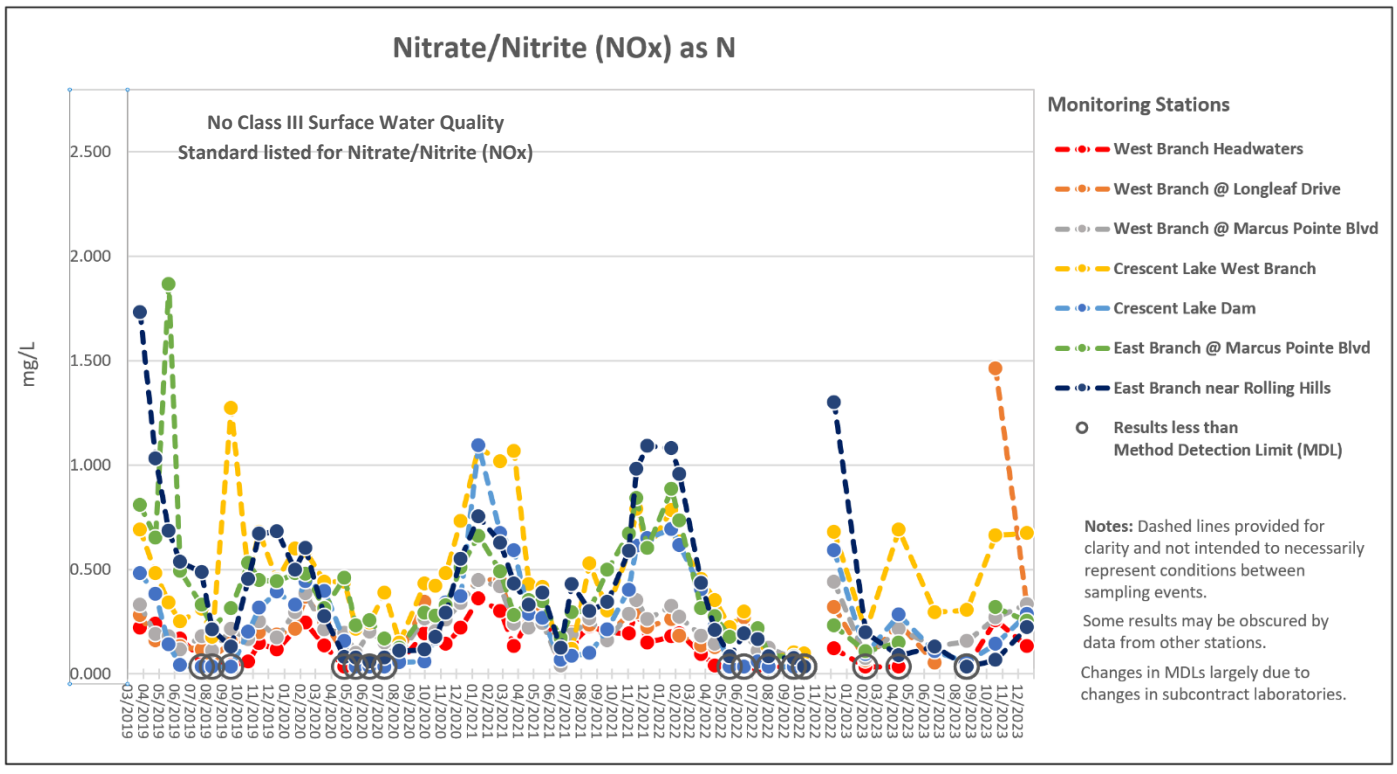


Figure 13.17: Nitrate (NO_3) – Distribution of Surface Water Results by Station

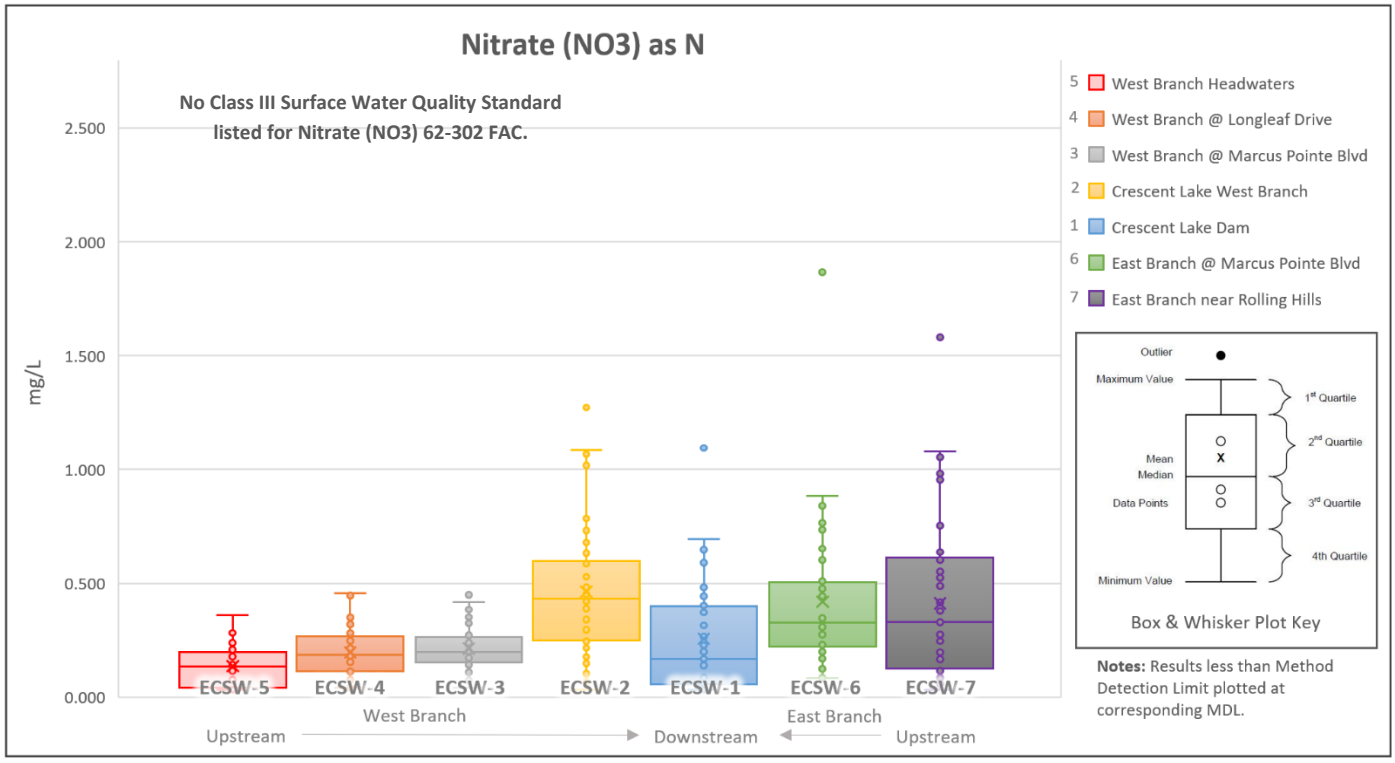


Figure 14.17: Nitrate (NO_3) – Surface Water Trends by Monitoring Station & Date

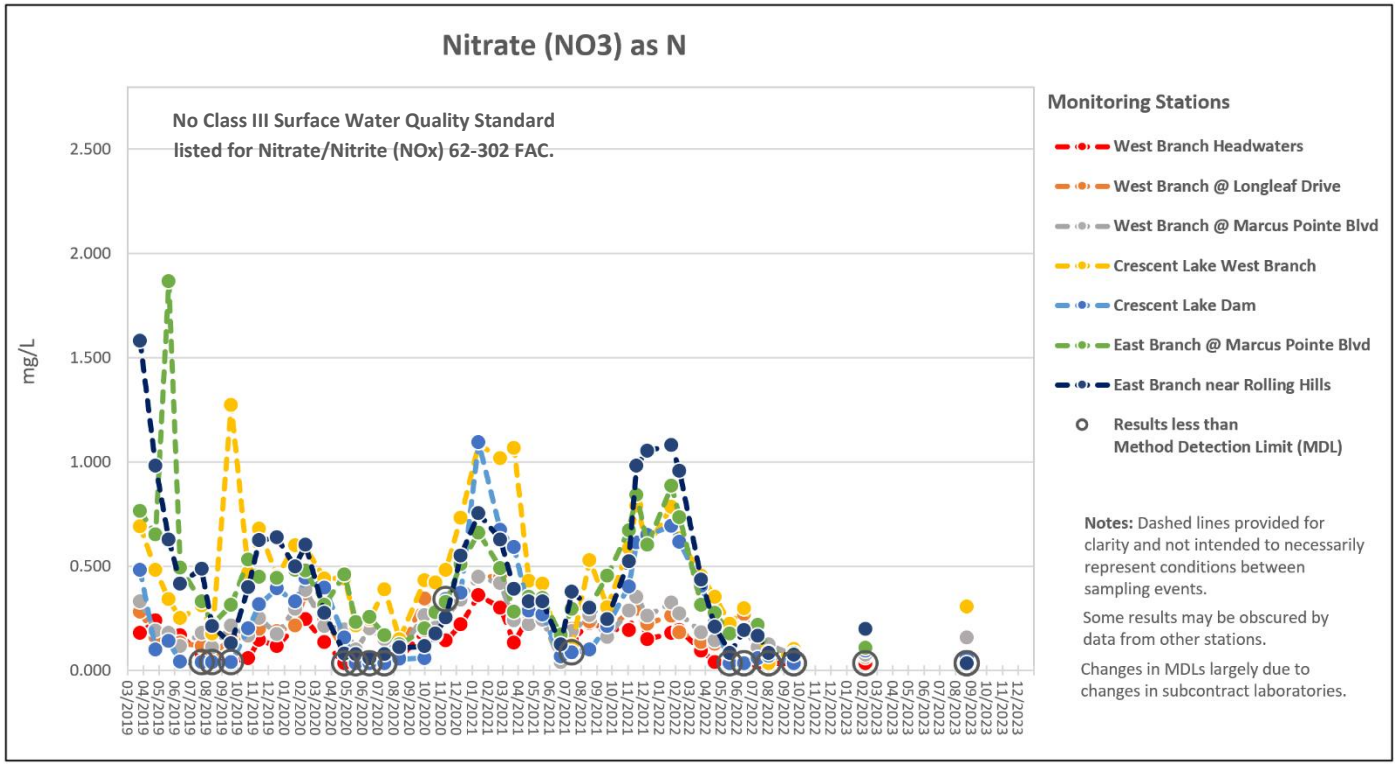


Figure 13.18: Nitrite (NO_2) – Distribution of Surface Water Results by Station

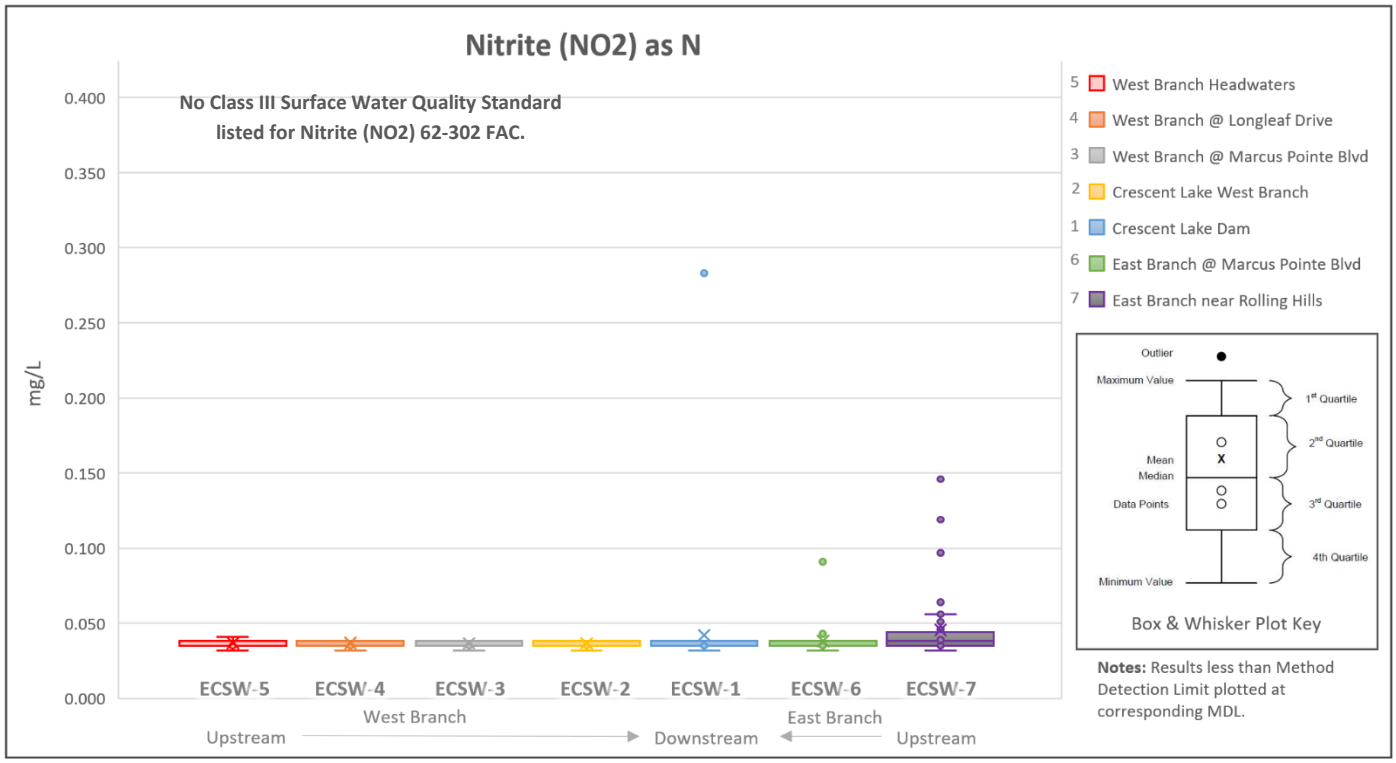


Figure 14.18: Nitrite (NO_2) – Surface Water Trends by Monitoring Station & Date

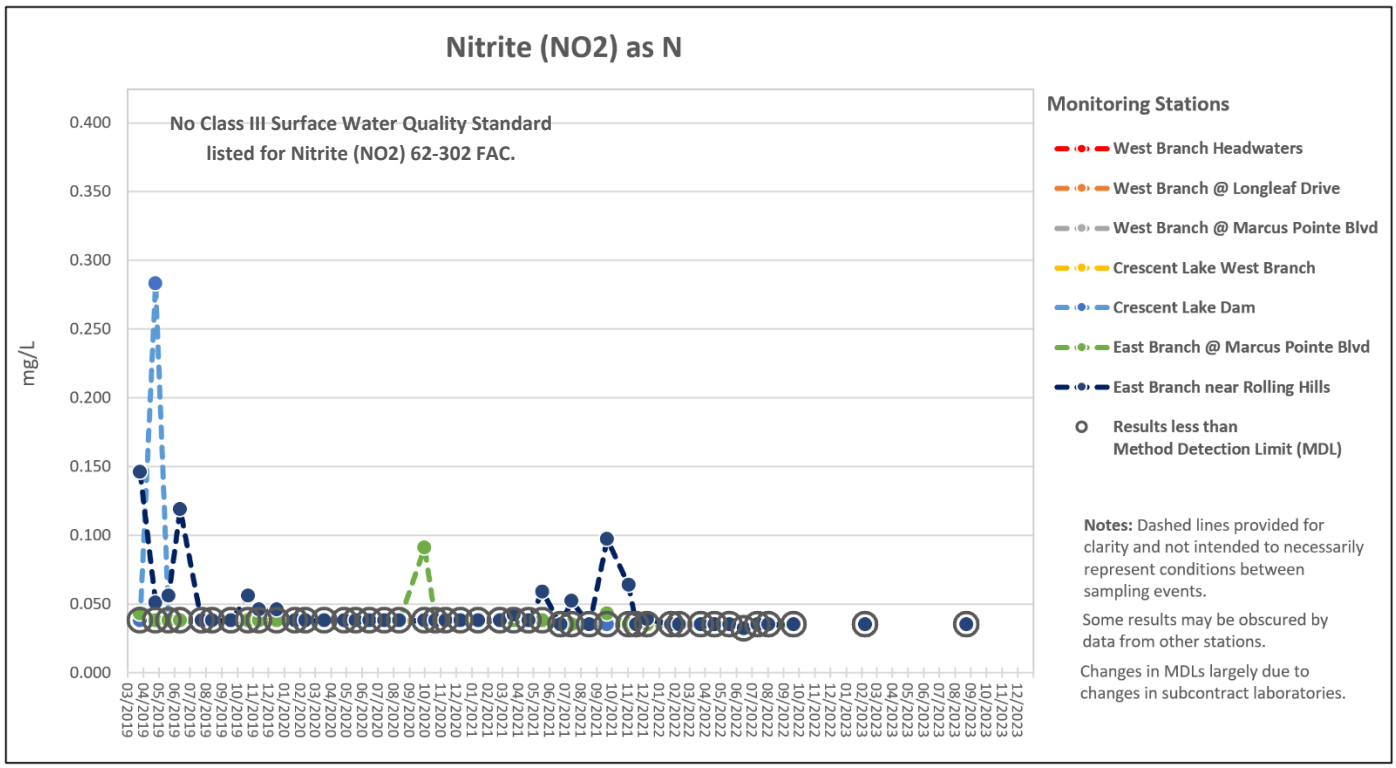


Figure 13.19: Phosphorus, Total – Distribution of Surface Water Results by Station

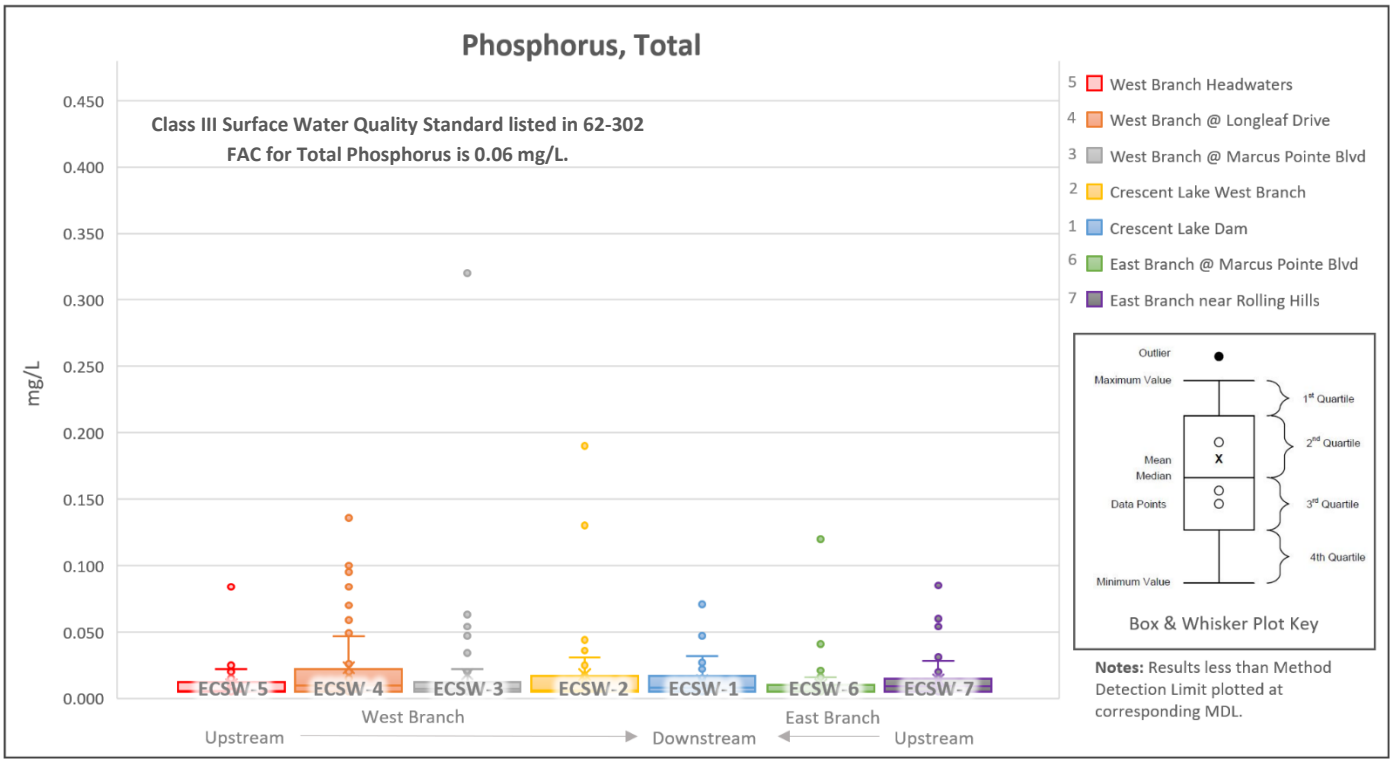


Figure 14.19: Phosphorus, Total – Surface Water Trends by Monitoring Station & Date

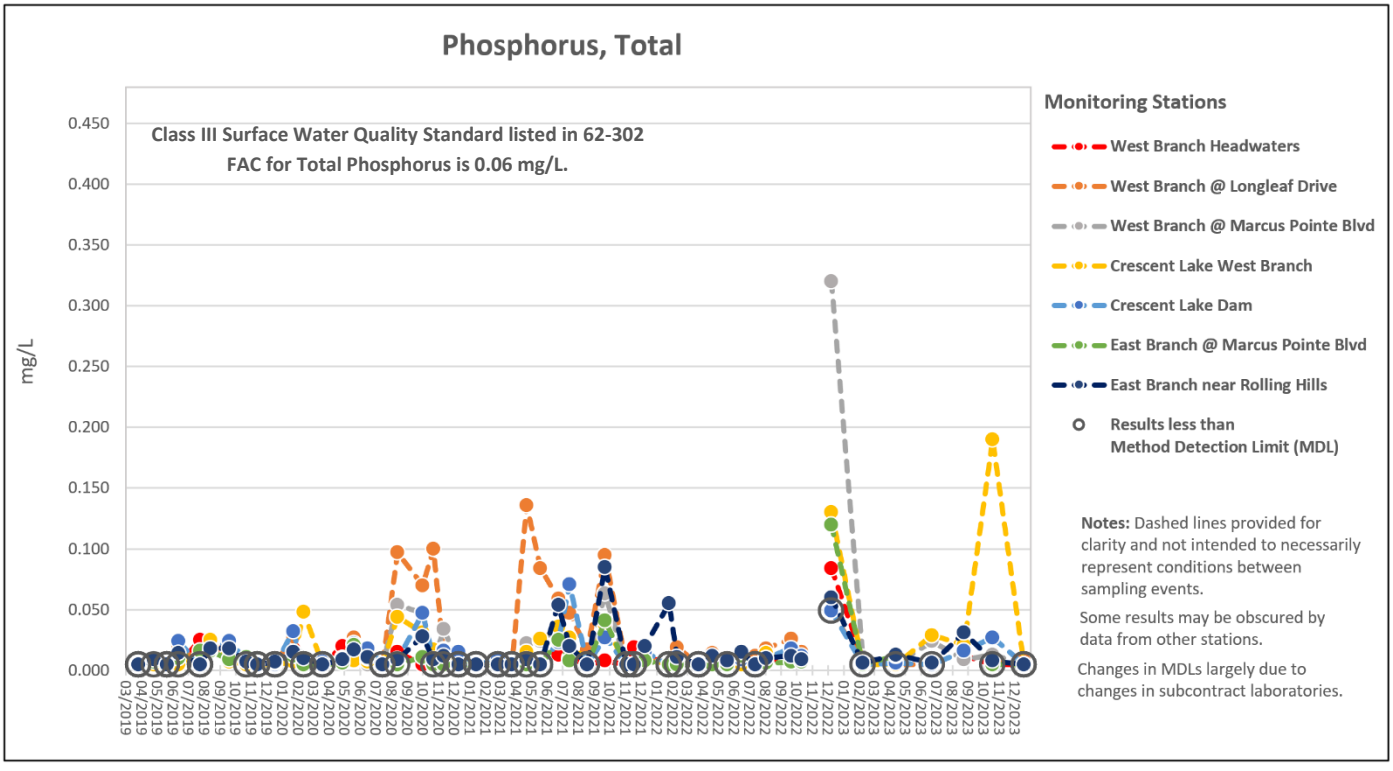


Figure 13.20: Chlorophyll a – Distribution of Surface Water Results by Station

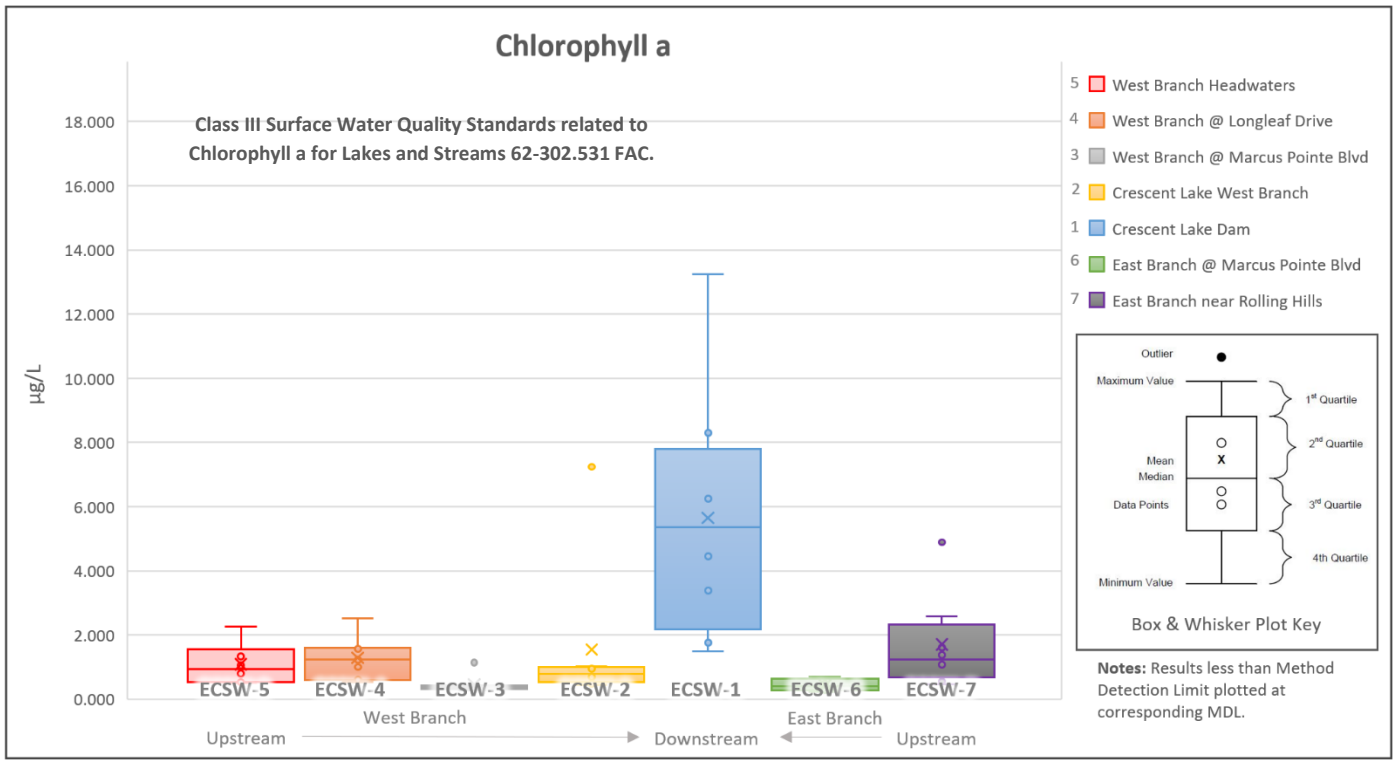


Figure 14.20: Chlorophyll a – Surface Water Trends by monitoring Station & Date

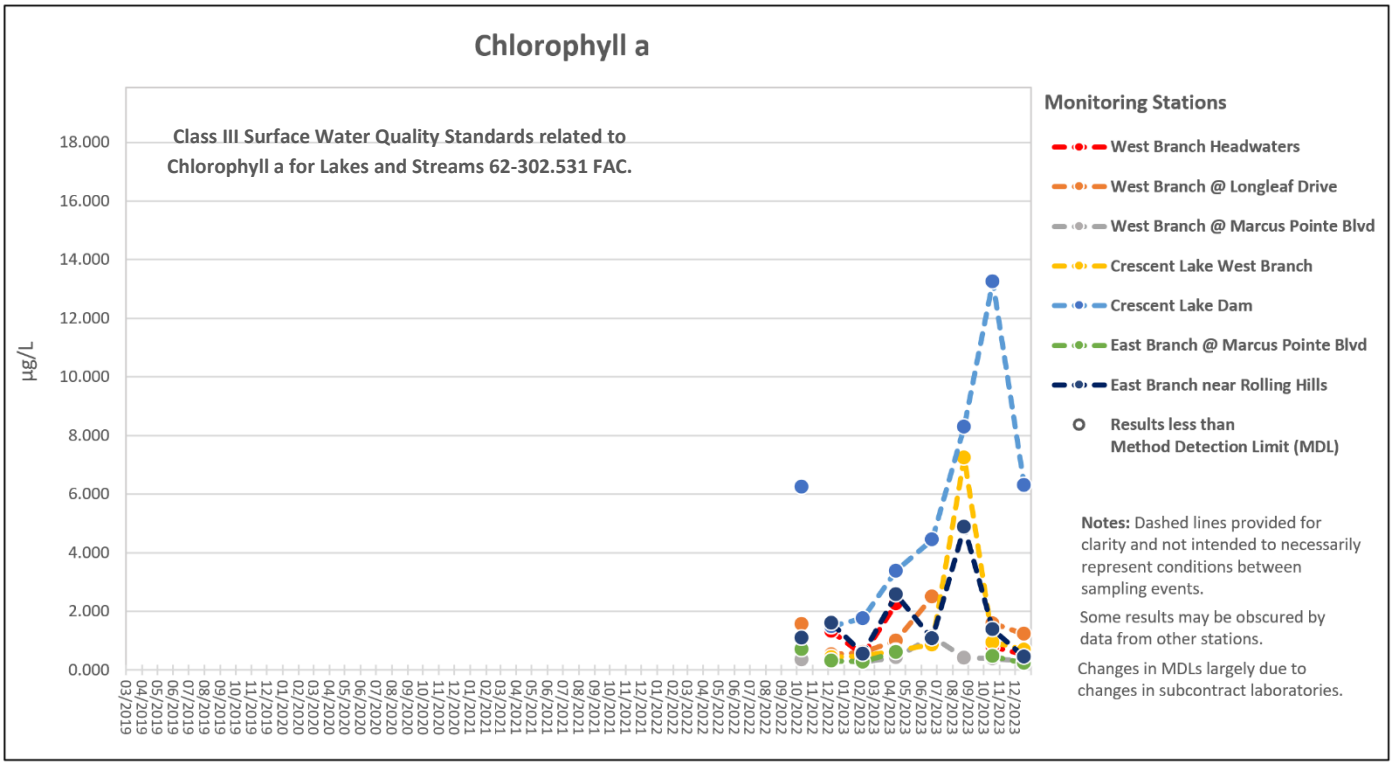


Figure 13.21: Total Dissolved Solids – Distribution of Surface Water Results by Station

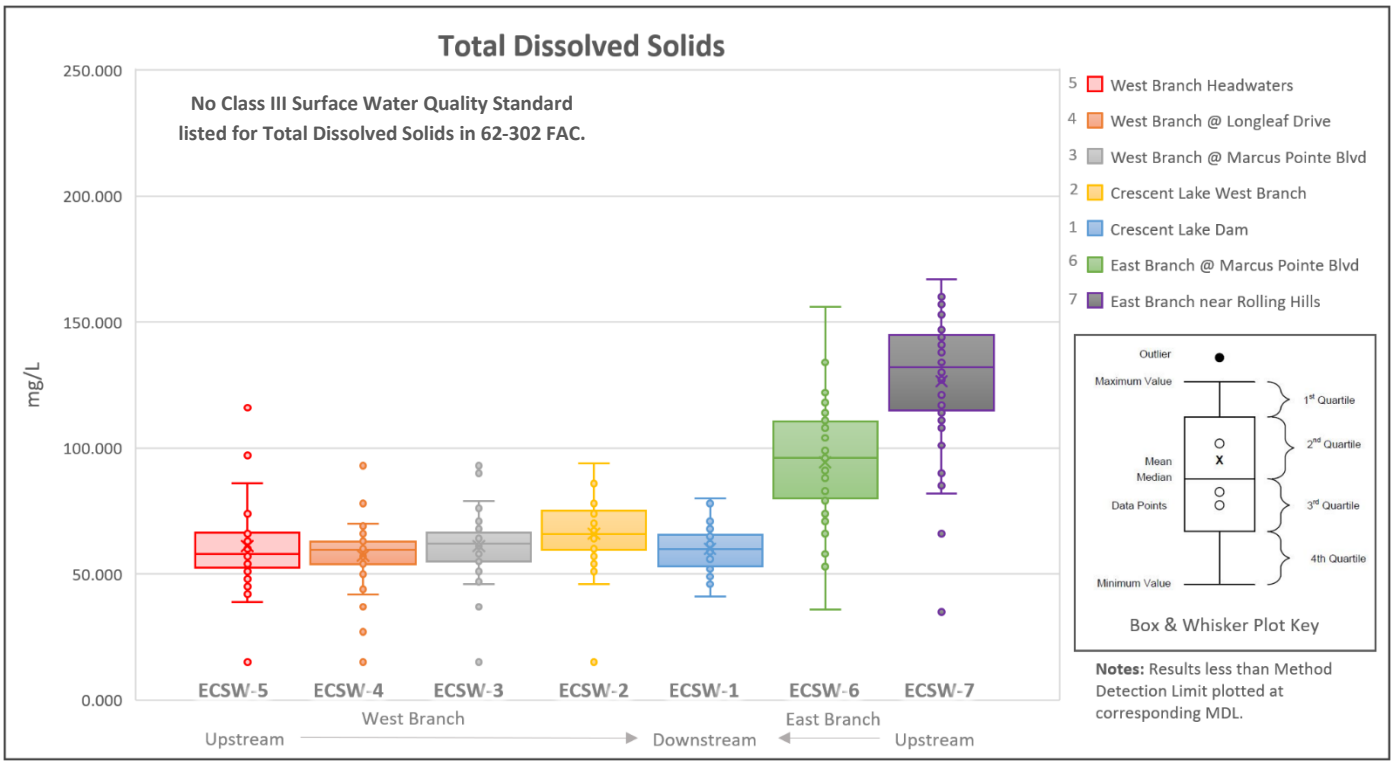


Figure 14.21: Total Dissolved Solids – Surface Water Trends by Monitoring Station & Date

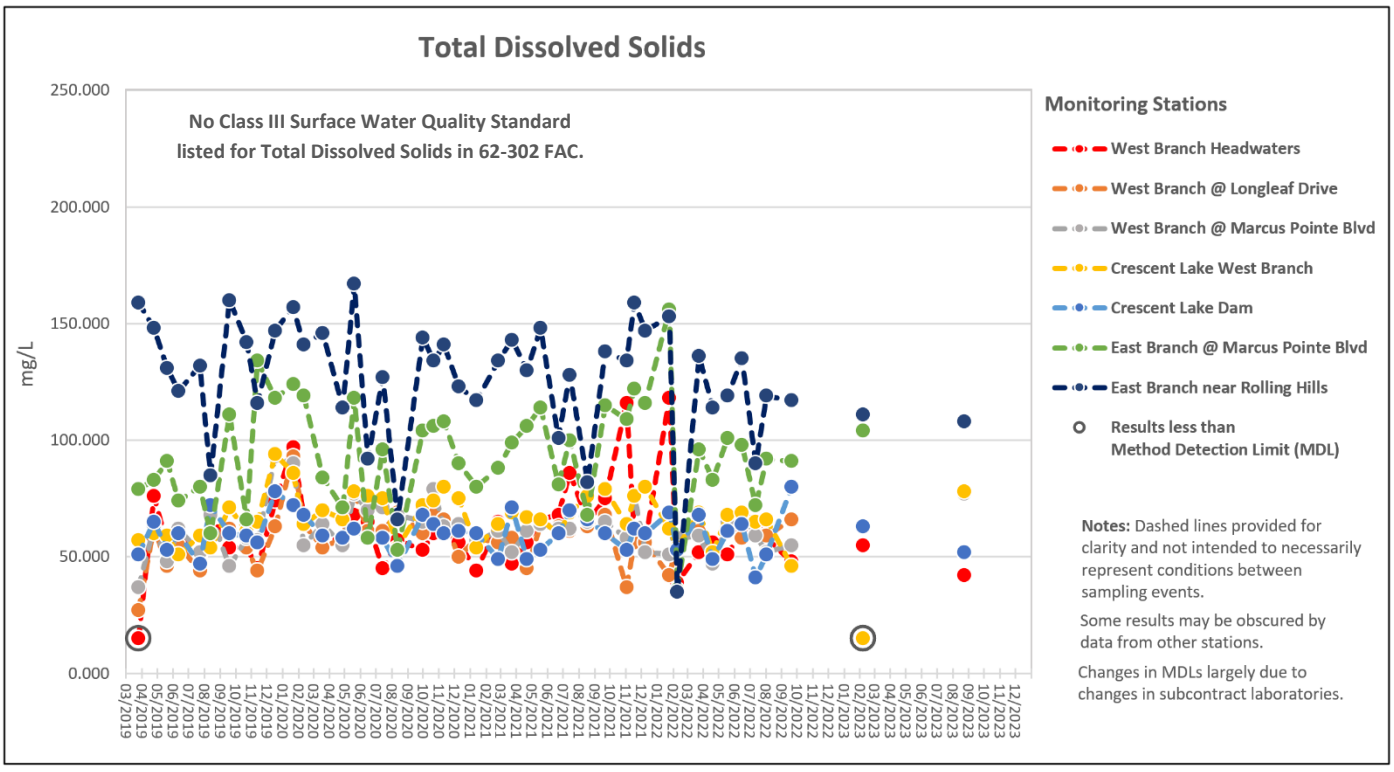


Figure 13.22: Total Suspended Solids – Distribution of Surface Water Results by Station

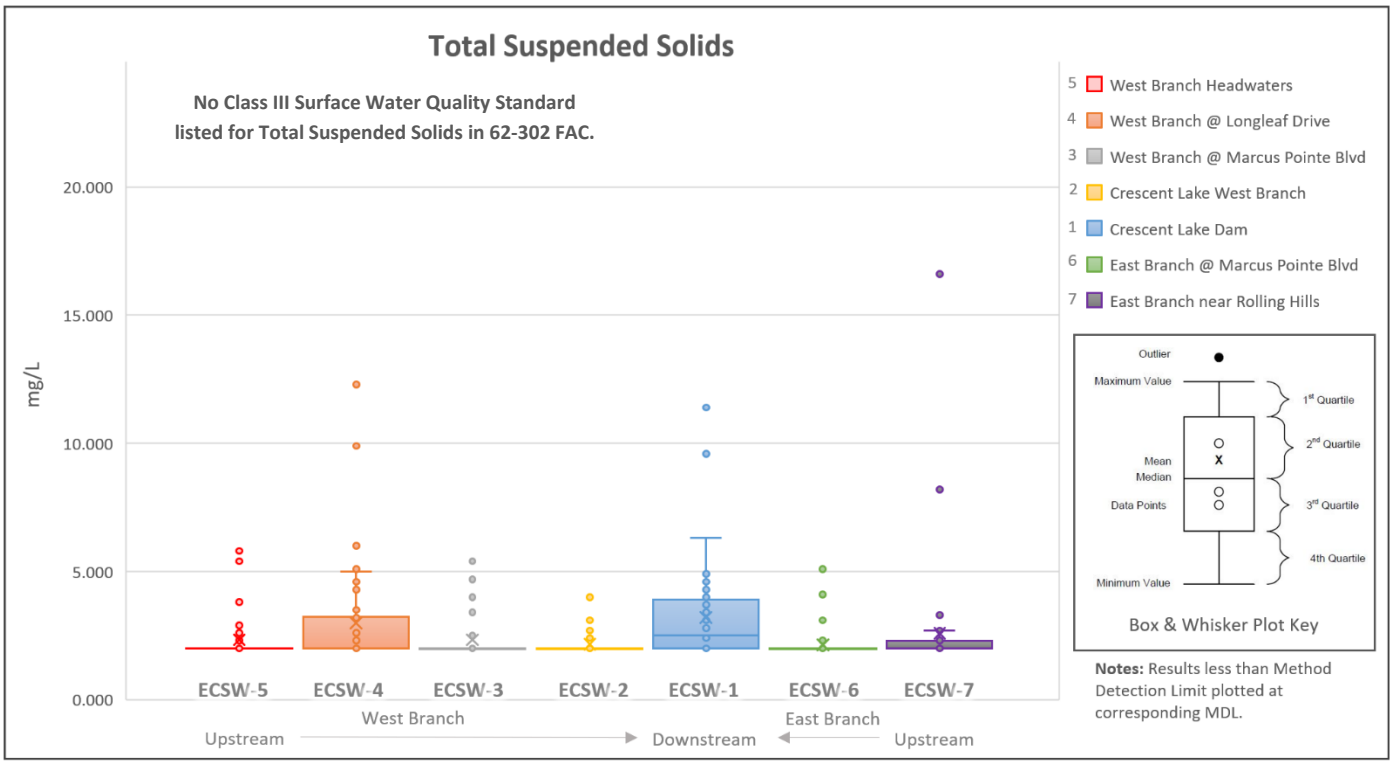


Figure 14.22: Total Suspended Solids – Surface Water Trends by Monitoring Station & Date

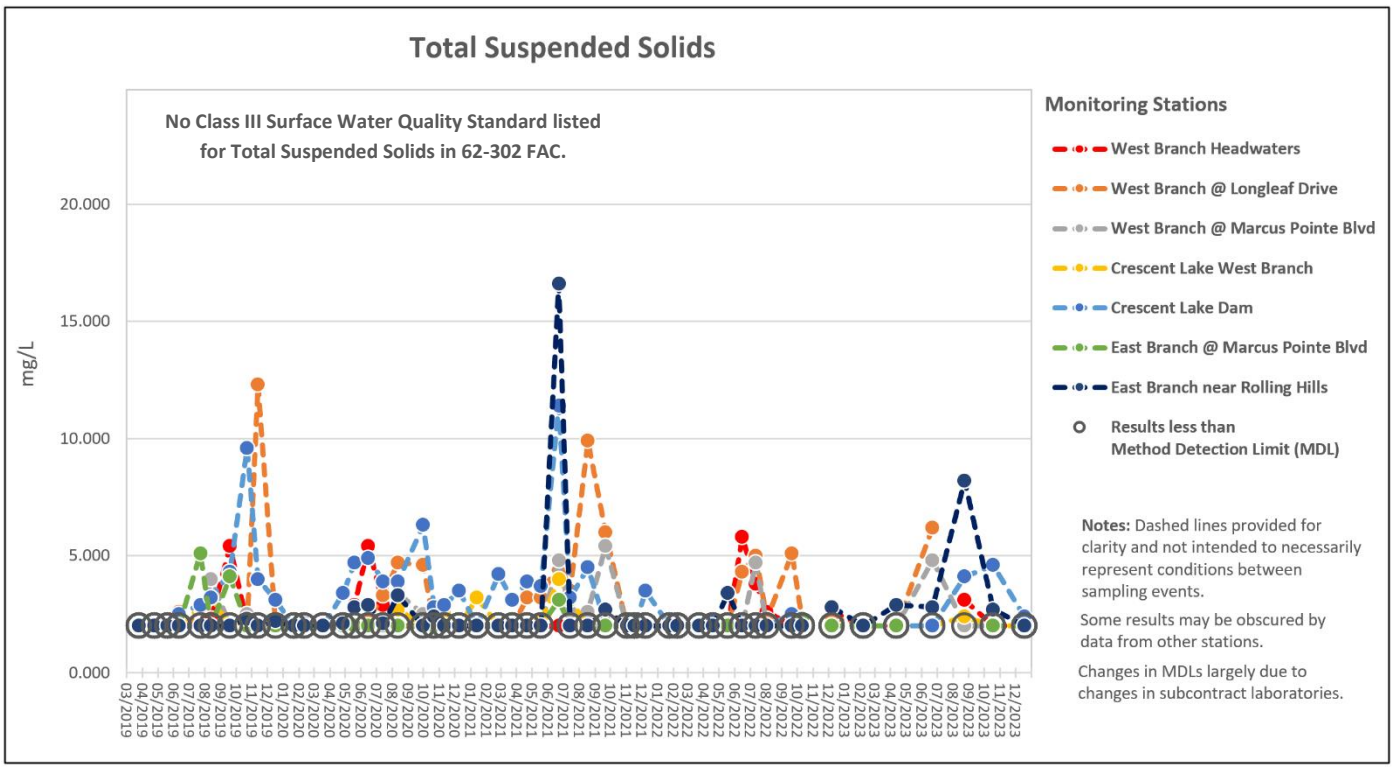


Figure 13.23: Biochemical Oxygen Demand – Distribution of Surface Water Results by Station

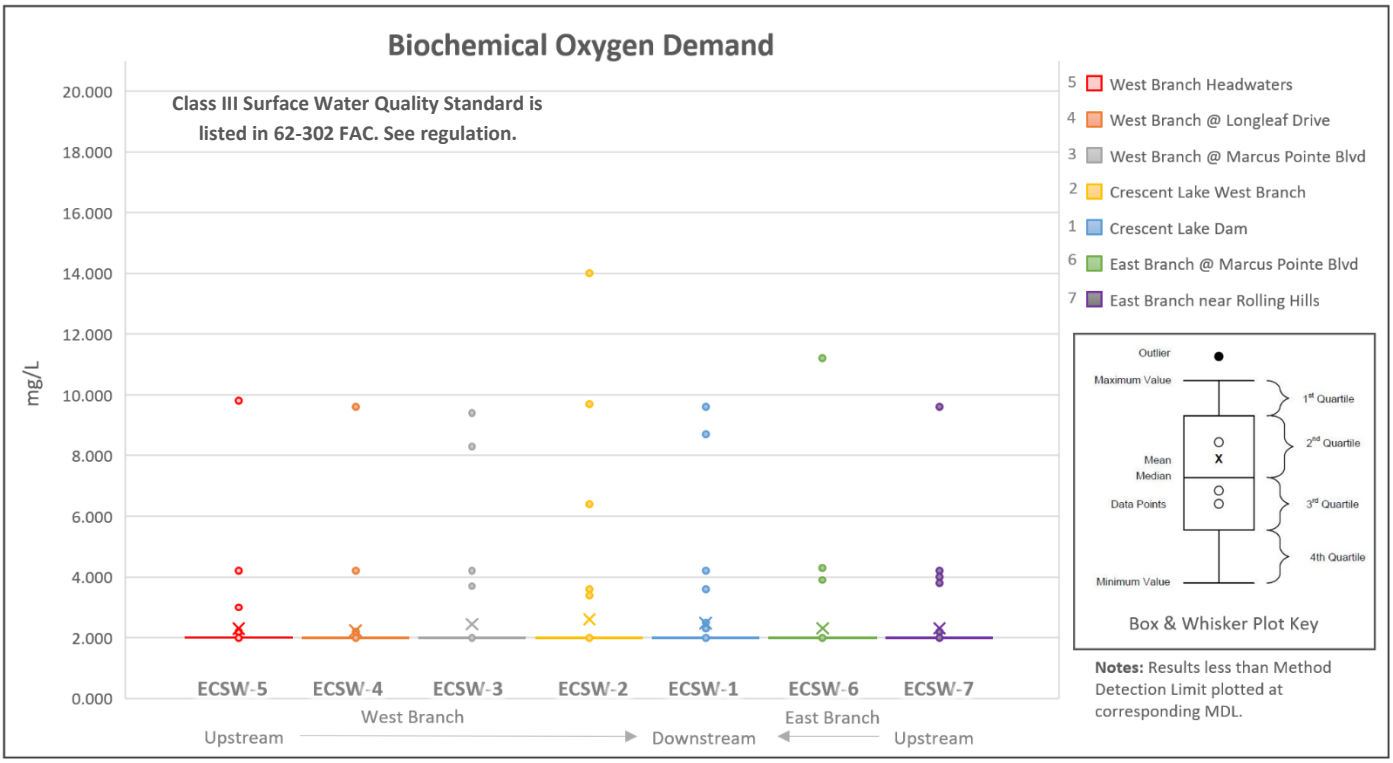


Figure 14.23: Biochemical Oxygen Demand – Surface Water Trends by Monitoring Station & Date

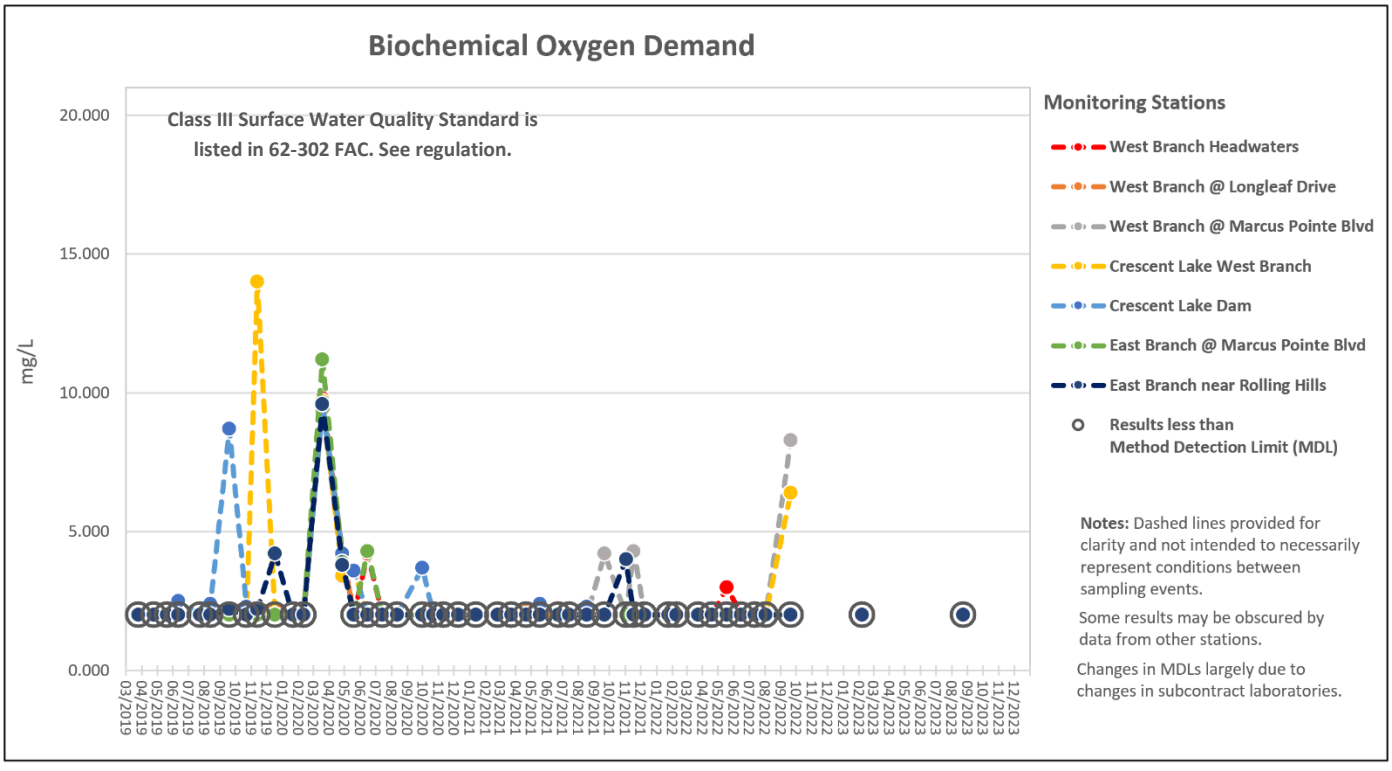


Figure 13.24: Chemical Oxygen Demand – Distribution of Surface Water Results by Station

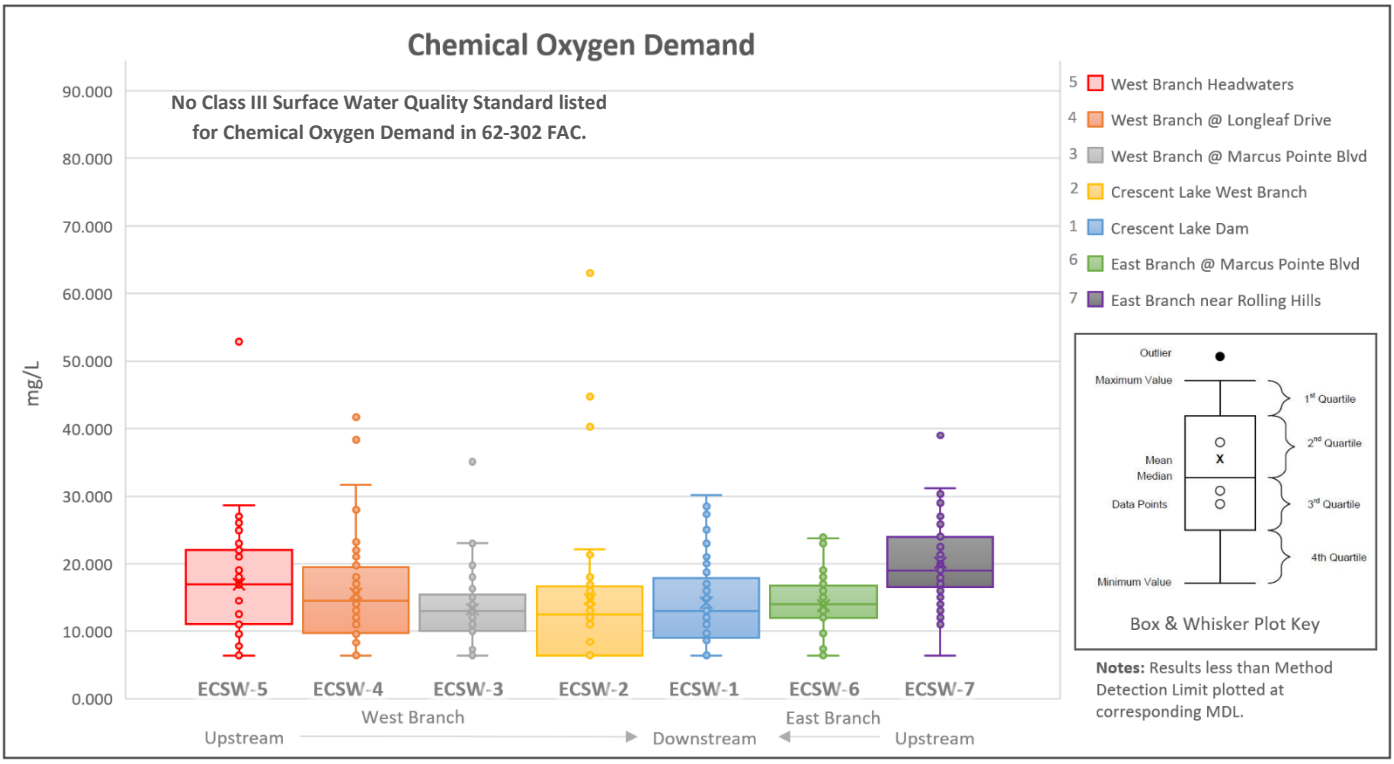


Figure 14.24: Chemical Oxygen Demand – Surface Water Trends by monitoring Station & Date

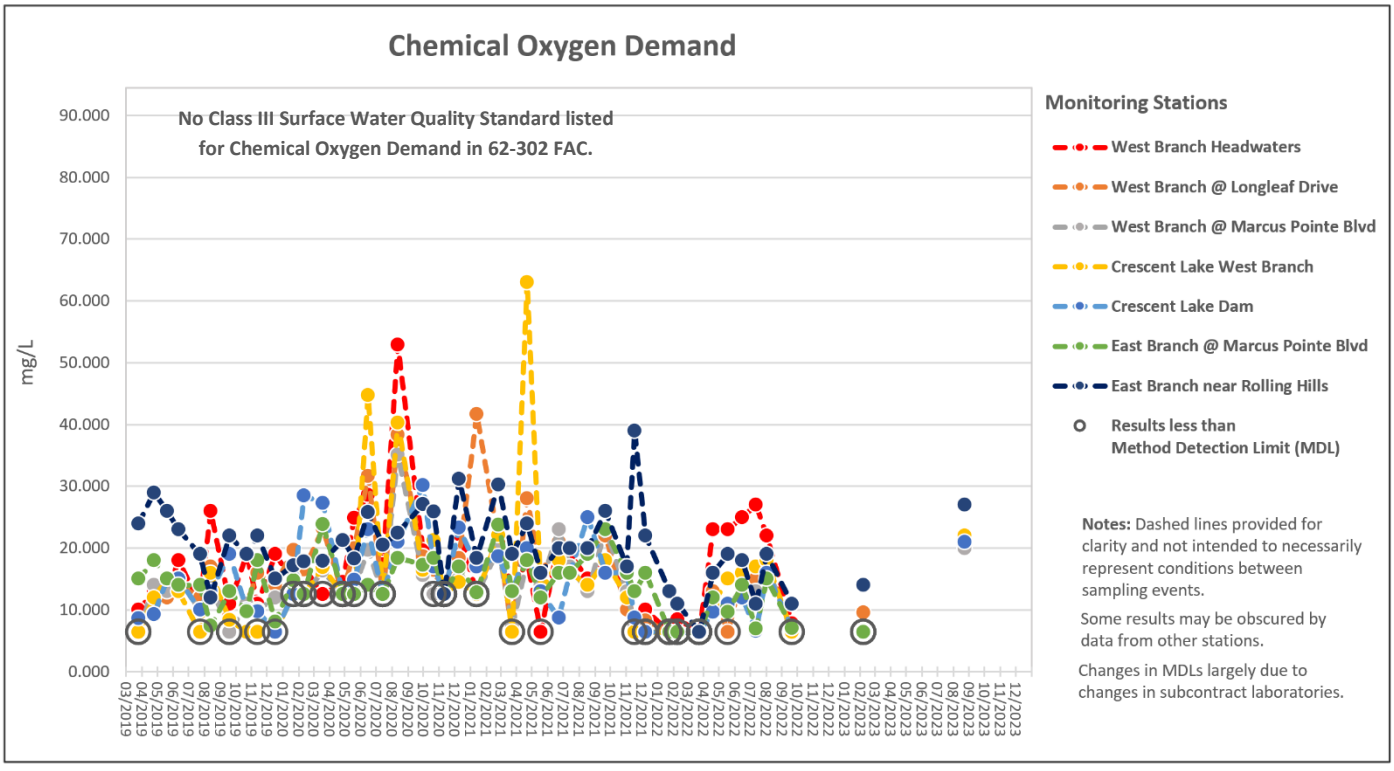


Figure 13.25: Total Hardness – Distribution of Surface Water Results by Station

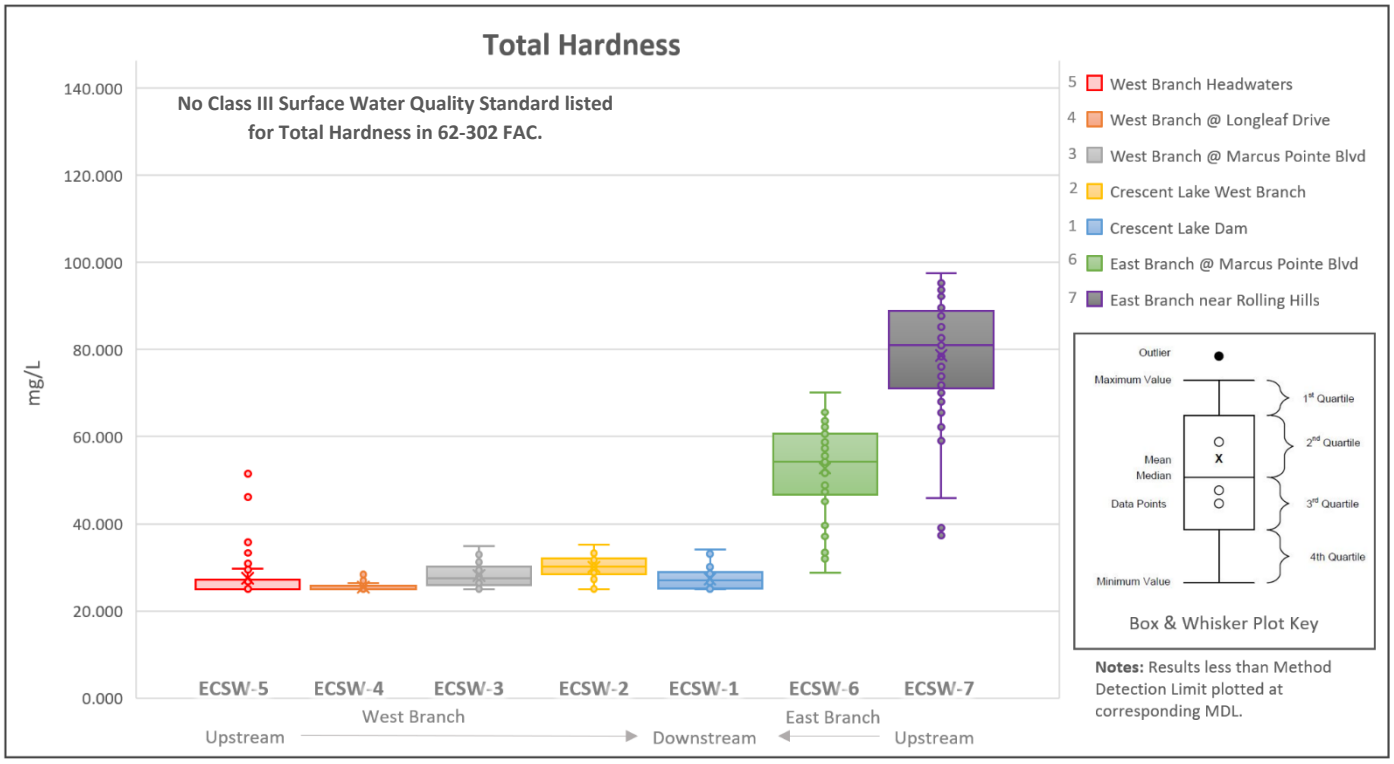


Figure 14.25: Total Hardness – Surface Water Trends by monitoring Station & Date

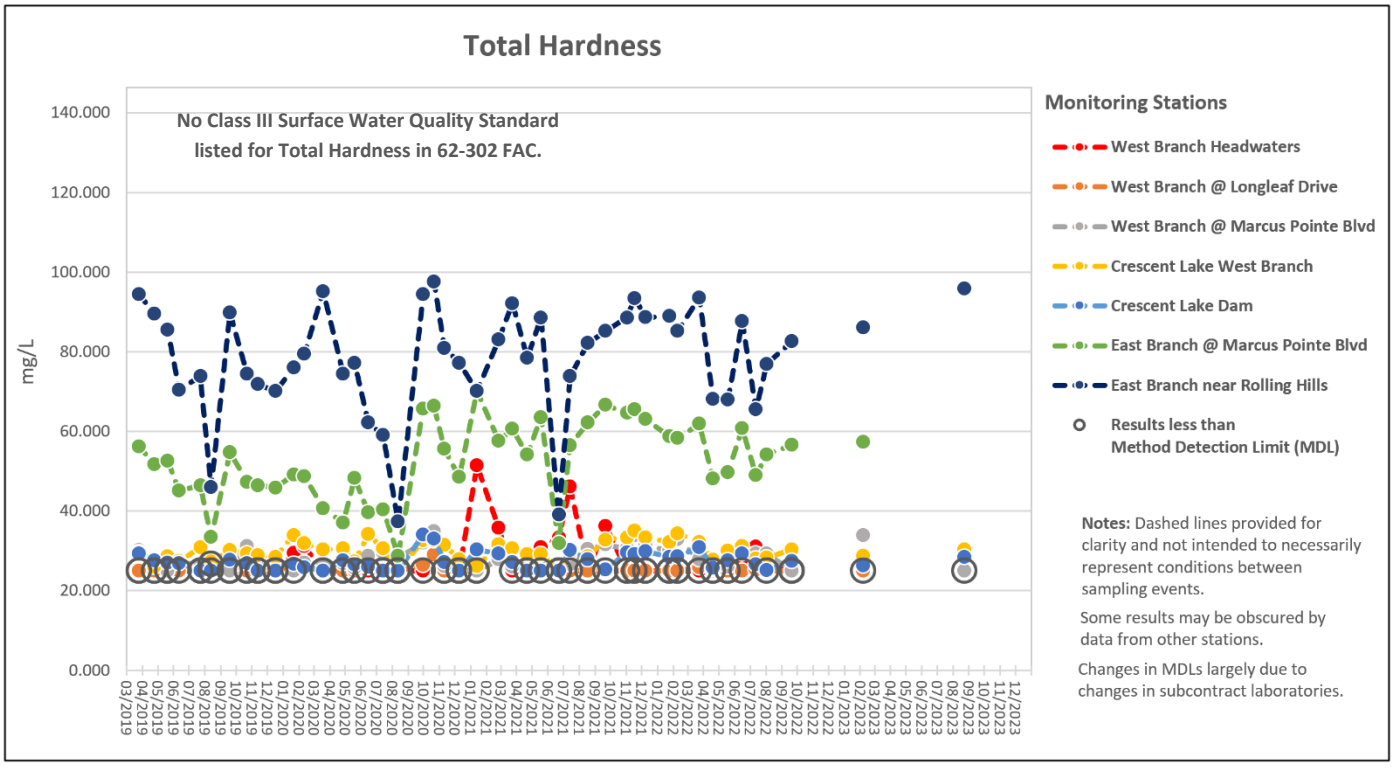


Figure 13.26: Total Organic Carbon – Distribution of Surface Water Results by Station

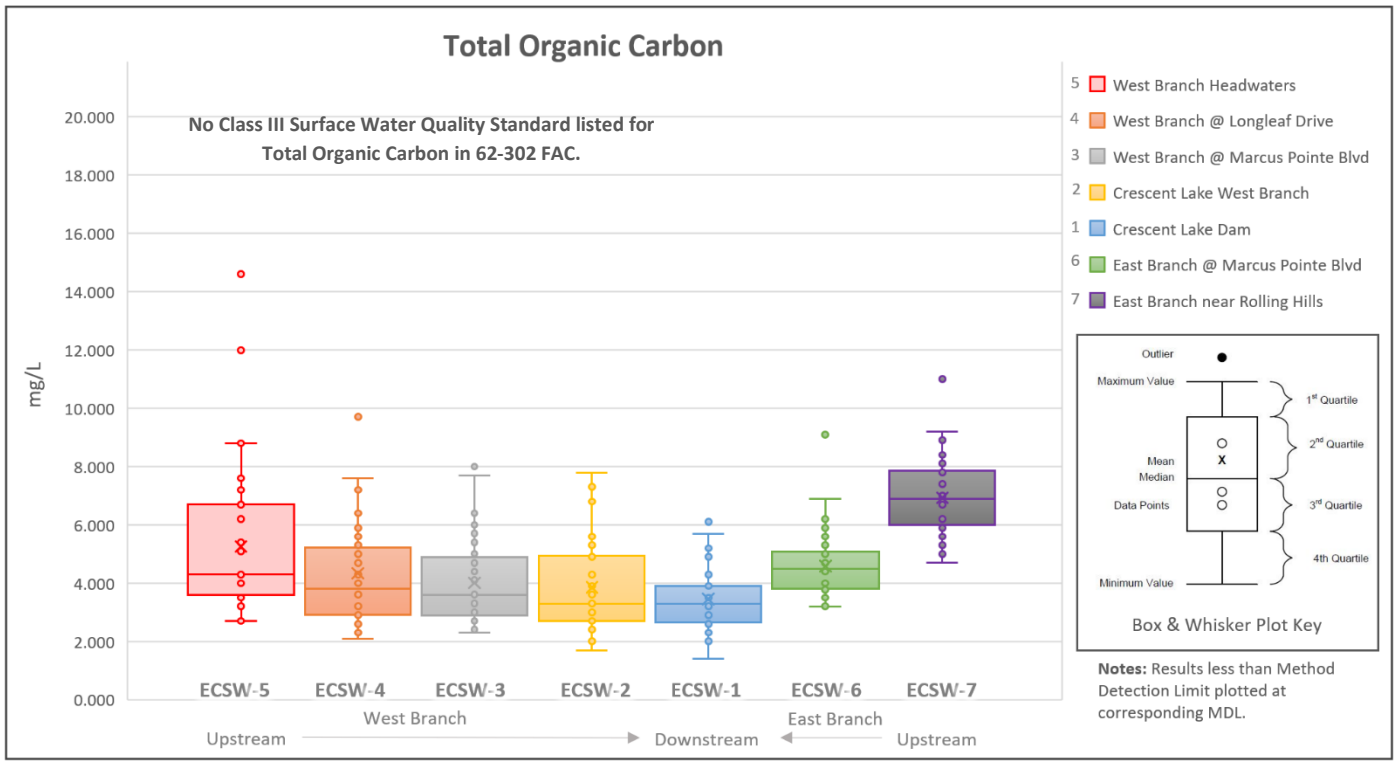


Figure 14.26: Total Organic Carbon – Surface Water Trends by monitoring Station & Date

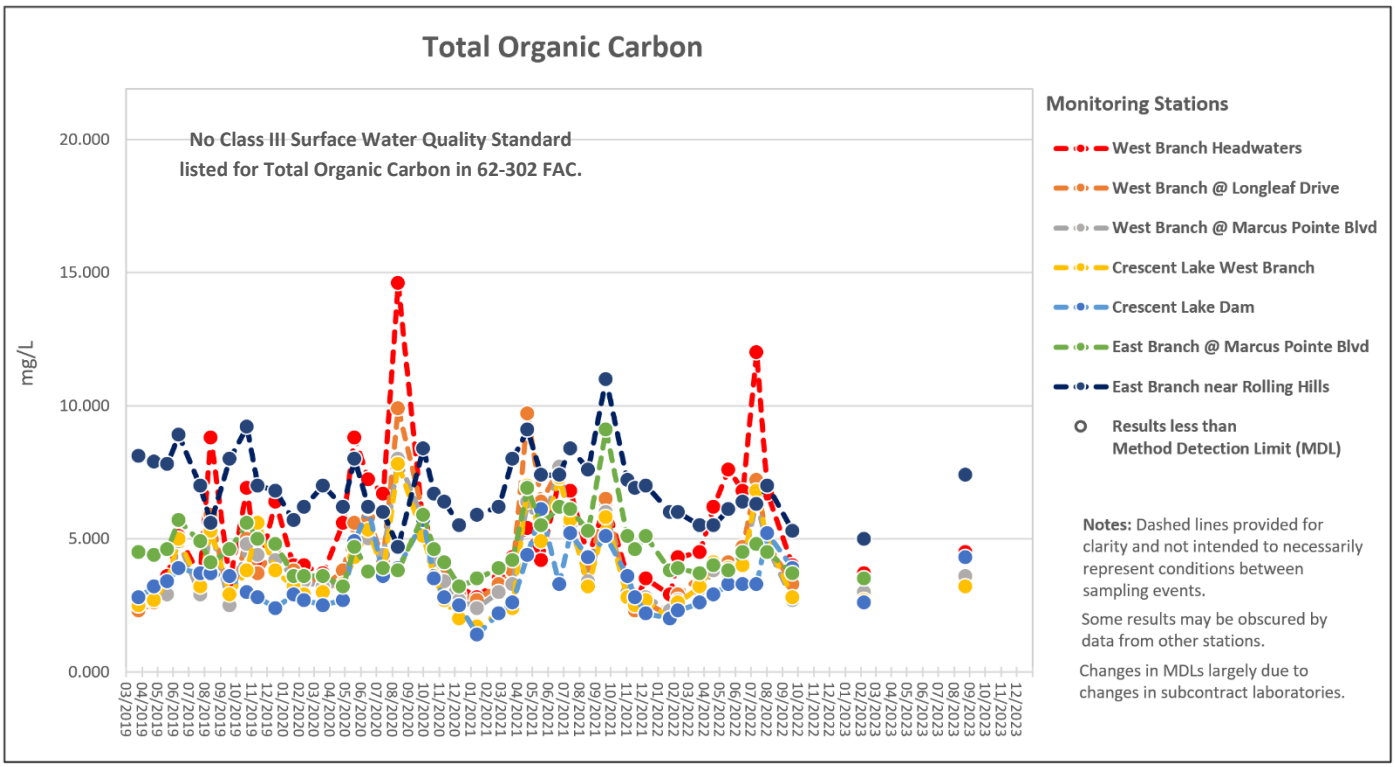


Table 7.52 - Fecal Indicator Bacteria (*Escherichia coli*)

Summary of Detections by Station and Date Sampled
Sample Dates: May 2020 - December 2023

Date	Units	Class III SW Standard	ECSW-5 West Branch Headwaters	ECSW-4 West Branch @ Longleaf Drive	ECSW-3 West Branch @ Marcus Pointe Blvd	ECSW-2 Crescent Lake West Branch	ECSW-1 Crescent Lake Dam	ECSW-6 East Branch @ Marcus Pointe Blvd	ECSW-7 East Branch near Rolling Hills
			Upstream →				Downstream ←		Upstream
5/19/2020	MPN / 100 mL	410[a]	471	121	243	109	471	187	110
6/15/2020			98	131	120	31	75	238	85
7/14/2020			31	30	161	63	63	305	158
8/12/2020			4,106	738	959	1,918	368	521	465
9/30/2020			63	84	63	63	110	52	313
10/21/2020			52	211	84	119	110	41	86
11/10/2020			10 U	121	63	10	10	279	41
12/19/2020			10	10	52	31	20	331	30
1/13/2021			10	31	30	31	197	161	31
2/24/2021			41	20	74	63	110	197	41
3/23/2021			10	173	20	52	41	31	41
4/21/2021			41	97	30	10	31	10	20
5/18/2021			73	146	10	61	20	743	30
6/22/2021			833	323	420	504	231	1017	987
7/14/2021			41	122	41	20	10 U	388	75
8/17/2021			75	1191	63	41	31	135	20
9/21/2021			63	169	41	41	135	63	86
11/2/2021			41	86	41	110	20	52	40
11/17/2021			20	109	75	20	10	175	20
12/8/2021			20	148	75	30	144	63	41
1/24/2022			10 U	52	20	63	10	83	20
2/9/2022			10 U	160	30	20	10	52	10
3/22/2022			52	238	52	30	10 U	75	41
4/19/2022			31	41	63	20	20	160	195
5/18/2022			30	231	20	20	10 U	211	109
6/15/2022			74	110	52	228	41	241	148
7/12/2022			455	336	135	120	10 U	175	228
8/2/2022			63	20	20	41	10 U	148	84
9/20/2022			20	41	52	132	32 Q	41	121
10/10/2022			63	171	75	20	10 U	97	10 U
11/16/2022			52	84	20	20	41	31	72
12/7/2022			10 U	160	63	41	31	203	141
1/11/2023			30	161	31	52	10 U	85	31
2/7/2023			10 U	31	10 U	20	10	135	10
3/22/2023			10 U	72	31	52	10 U	134	30
4/12/2023			120	20	41	20	10 U	213	41
5/17/2023			1,396	583	341	586	10	171	213
6/22/2023			NS	122	96	122	52	NS	134
7/18/2023			108	NS	96	62	20	NS	110
8/23/2023			52	NS	185	10 U	10 U	NS	266
9/11/2023			75	20	107	10	75	NS	120
10/18/2023			10 U	63	10	10 U	31	218	160
11/7/2023			20	52	20	10	10	292	109
12/18/2023			10 U	52	52	20	41	175	86

Notes:
MPN / 100 mL - Most probable number of viable bacteria per 100 milliliters of sample
NS - Not sampled
a - MPN or MF counts shall not exceed a monthly geometric mean of 126 nor exceed the Ten Percent Threshold Value (TPTV) of 410 in 10% or more of the samples during any 30-day period. Monthly geometric means shall be based on a minimum of 10 samples taken over a 30-day period.
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported valu failed to meet established QC criteria, sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Figure 13.27: *Escherichia coli* – Distribution of Surface Water Results by Station

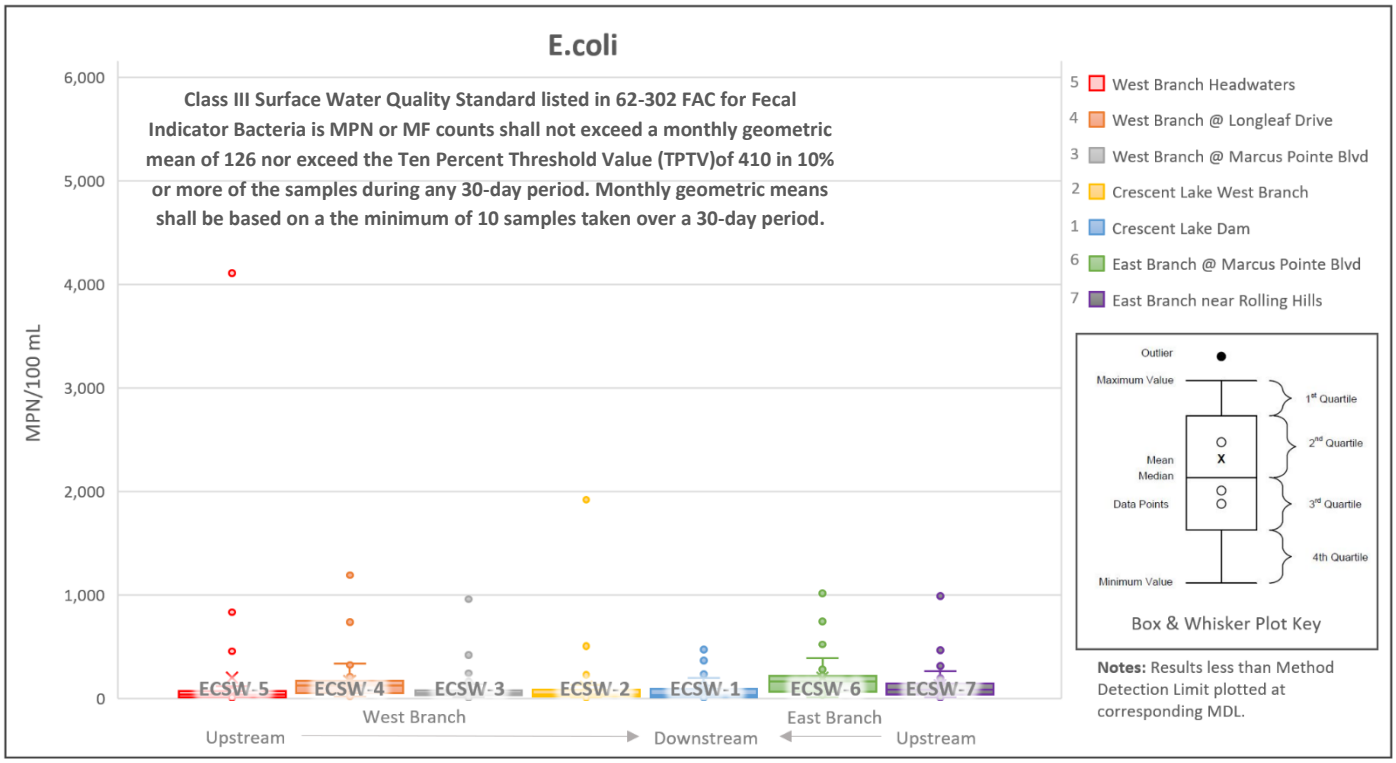
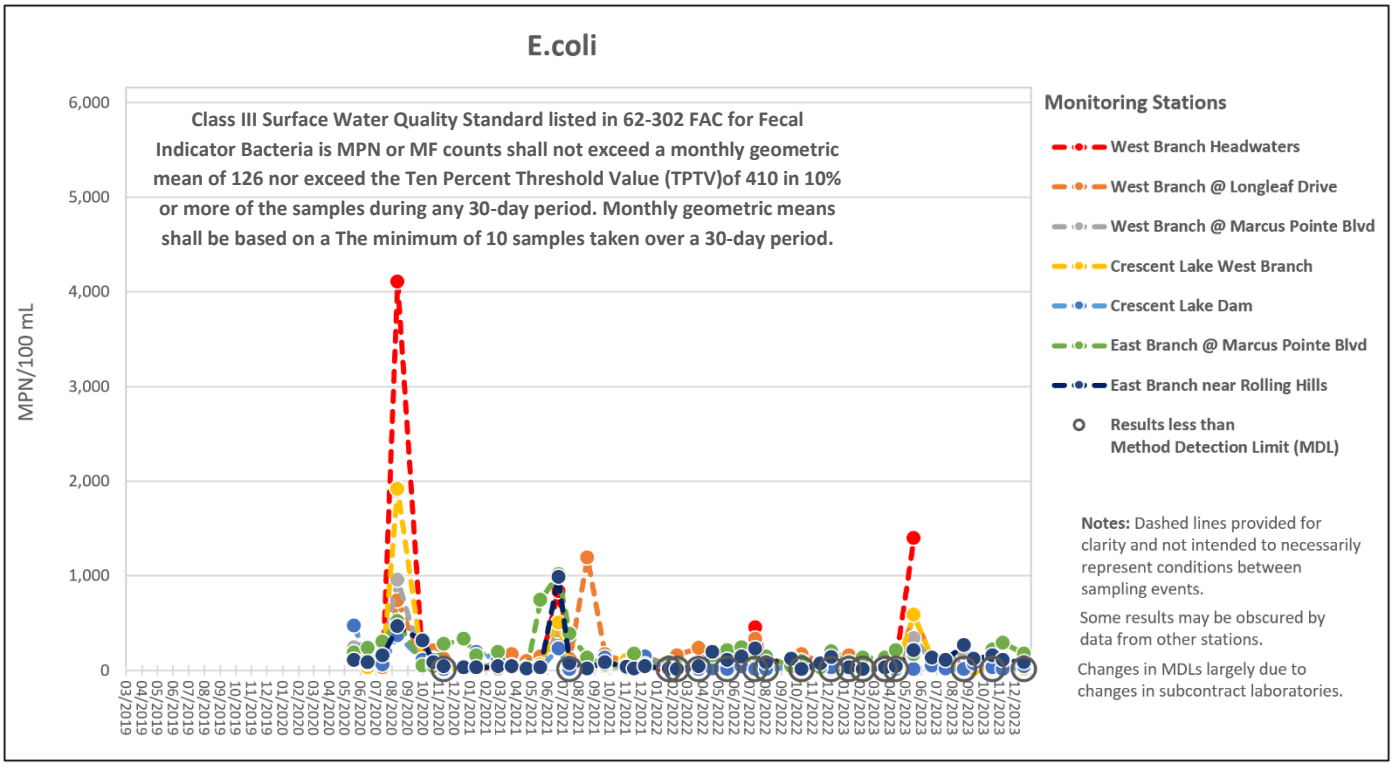


Figure 14.27: *Escherichia coli* – Surface Water Trends by monitoring Station & Date



Tables 8.1 - 8.5: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: March 2019 - July 2019

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (m/V)	Turbidity (NTU)
Table 8.1	3/25/2019	ECSW-5	Upstream	West Branch Headwaters	23.91	7.35	77.6	6.77	80.5	384.1	3.58
		ECSW-4	⇩	West Branch @ Longleaf Drive	21.83	7.35	76.5	8.18	93.2	382.9	3.53
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	19.49	7.48	96.5	8.31	90.3	389.2	4.22
		ECSW-2	⇩	Crescent Lake West Branch	19.63	7.63	105.8	9.88	107.5	304.7	3.18
		ECSW-1	Downstream	Crescent Lake Dam	20.24	7.97	93.1	10.65	117.1	375.3	3.35
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	19.89	7.15	179.9	6.53	71.5	380.8	3.94
		ECSW-7	Upstream	East Branch near Rolling Hills	20.49	7.24	267.1	6.98	77.5	504.0	6.20
Table 8.2	4/24/2019	ECSW-5	Upstream	West Branch Headwaters	21.59	7.13	78.8	4.51	51.2	386.4	4.52
		ECSW-4	⇩	West Branch @ Longleaf Drive	21.76	7.63	73.7	7.34	83.5	369.7	3.22
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	21.12	7.73	86.8	7.71	86.6	372.7	3.66
		ECSW-2	⇩	Crescent Lake West Branch	21.79	7.80	90.9	7.93	90.1	408.1	3.08
		ECSW-1	Downstream	Crescent Lake Dam	23.08	8.19	95.3	9.65	112.3	381.1	2.98
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	20.69	6.89	159.9	4.45	49.6	335.0	3.39
		ECSW-7	Upstream	East Branch near Rolling Hills	21.35	7.08	255.1	5.62	63.5	312.6	4.87
Table 8.3	5/20/2019	ECSW-5	Upstream	West Branch Headwaters	32.24	6.96	80.1	4.05	55.8	411.3	5.56
		ECSW-4	⇩	West Branch @ Longleaf Drive	30.28	7.45	76.4	6.48	86.2	384.6	4.66
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	26.88	7.42	83.7	6.65	83.2	379.5	4.93
		ECSW-2	⇩	Crescent Lake West Branch	28.53	7.65	99.4	9.70	124.8	389.9	4.61
		ECSW-1	Downstream	Crescent Lake Dam	27.93	8.13	93.7	9.26	117.8	354.1	4.80
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	25.41	6.96	166.6	3.57	43.5	257.4	5.55
		ECSW-7	Upstream	East Branch near Rolling Hills	28.30	7.17	253.3	6.91	88.8	419.5	6.48
Table 8.4	6/11/2019	ECSW-5	Upstream	West Branch Headwaters	30.90	6.60	86.2	3.47	46.8	490.2	4.59
		ECSW-4	⇩	West Branch @ Longleaf Drive	29.94	7.15	76.0	5.97	79.0	392.4	7.10
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.24	7.26	90.2	6.18	77.9	379.2	5.28
		ECSW-2	⇩	Crescent Lake West Branch	28.02	7.58	93.7	7.62	97.3	395.2	3.65
		ECSW-1	Downstream	Crescent Lake Dam	28.63	8.10	87.1	8.29	106.7	383.4	3.75
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	27.21	6.77	147.1	3.64	46.0	450.0	3.01
		ECSW-7	Upstream	East Branch near Rolling Hills	28.72	6.86	210.5	2.84	36.9	428.3	6.08
Table 8.5	7/23/2019	ECSW-5	Upstream	West Branch Headwaters	30.65	6.42	77.2	2.82	37.9	421.2	3.52
		ECSW-4	⇩	West Branch @ Longleaf Drive	30.45	6.77	77.9	6.12	81.9	385.3	2.51
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	28.32	6.83	52.8	6.22	80.2	418.0	5.02
		ECSW-2	⇩	Crescent Lake West Branch	28.11	6.69	99.4	4.77	61.2	390.8	2.77
		ECSW-1	Downstream	Crescent Lake Dam	31.18	6.95	92.6	8.77	118.4	367.3	3.60
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	25.84	6.48	145.5	3.82	47.0	264.2	8.30
		ECSW-7	Upstream	East Branch near Rolling Hills	27.50	6.76	234.4	3.20	40.7	326.1	6.81

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.6 - 8.10: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: August 2019 - December 2019

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (m/V)	Turbidity (NTU)
Table 8.6	8/13/2019	ECSW-5	Upstream	West Branch Headwaters	29.10	6.45	72.7	2.33	30.4	432.6	2.28
		ECSW-4	⇩	West Branch @ Longleaf Drive	29.10	6.81	76.5	5.42	70.8	443.3	5.46
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	28.20	6.84	89.6	5.63	72.3	458.2	7.42
		ECSW-2	⇩	Crescent Lake West Branch	28.07	6.99	88.2	5.38	69.0	477.8	7.37
		ECSW-1	Downstream	Crescent Lake Dam	30.28	6.96	89.1	7.34	97.6	483.0	2.98
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	26.63	6.61	103.1	9.35	54.4	342.9	2.43
		ECSW-7	Upstream	East Branch near Rolling Hills	27.23	6.63	125.4	2.55	32.3	398.7	5.92
Table 8.7	9/18/2019	ECSW-5	Upstream	West Branch Headwaters	29.28	6.23	69.8	1.26	16.6	492.0	9.27
		ECSW-4	⇩	West Branch @ Longleaf Drive	30.29	7.33	80.5	5.86	78.0	330.0	2.16
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	28.25	7.26	84.5	6.05	77.6	488.2	1.84
		ECSW-2	⇩	Crescent Lake West Branch	28.76	7.18	102.4	6.52	84.4	388.1	1.95
		ECSW-1	Downstream	Crescent Lake Dam	29.96	7.49	94.8	9.35	123.5	346.3	3.21
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	27.28	6.80	175.3	2.83	35.8	293.6	3.85
		ECSW-7	Upstream	East Branch near Rolling Hills	28.67	6.96	280.2	2.54	32.8	320.8	12.67
Table 8.8	10/22/2019	ECSW-5	Upstream	West Branch Headwaters	24.64	6.33	75.3	4.21	50.6	190.8	3.30
		ECSW-4	⇩	West Branch @ Longleaf Drive	23.80	6.64	83.3	6.69	79.0	219.6	3.44
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	22.34	6.81	104.6	6.55	75.2	197.7	4.54
		ECSW-2	⇩	Crescent Lake West Branch	22.50	6.57	104.1	5.35	61.6	233.7	2.85
		ECSW-1	Downstream	Crescent Lake Dam	22.63	7.17	98.4	7.59	87.5	286.7	4.42
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	22.28	6.64	150.2	4.38	50.3	124.0	3.74
		ECSW-7	Upstream	East Branch near Rolling Hills	23.06	7.05	233.9	3.93	45.9	184.9	8.63
Table 8.9	11/12/2019	ECSW-5	Upstream	West Branch Headwaters	15.11	6.68	69.5	7.95	78.6	137.9	11.80
		ECSW-4	⇩	West Branch @ Longleaf Drive	15.19	6.88	78.3	8.22	81.4	162.8	15.80
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	15.34	6.89	89.8	8.30	82.4	136.2	11.70
		ECSW-2	⇩	Crescent Lake West Branch	16.46	7.09	101.9	8.64	87.8	177.6	9.84
		ECSW-1	Downstream	Crescent Lake Dam	17.32	7.42	92.5	9.03	93.4	221.7	12.25
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	14.12	6.70	155.0	6.22	60.1	86.2	10.80
		ECSW-7	Upstream	East Branch near Rolling Hills	14.07	7.10	223.4	5.89	56.9	132.1	14.00
Table 8.10	12/17/2019	ECSW-5	Upstream	West Branch Headwaters	16.47	6.42	81.0	6.22	63.6	177.3	4.15
		ECSW-4	⇩	West Branch @ Longleaf Drive	17.35	6.76	77.9	7.39	76.9	250.7	4.33
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	17.66	6.80	96.0	7.34	77.0	206.2	4.21
		ECSW-2	⇩	Crescent Lake West Branch	18.33	6.88	102.3	6.33	67.2	265.7	2.67
		ECSW-1	Downstream	Crescent Lake Dam	17.47	7.26	91.1	8.96	93.6	363.3	2.06
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	16.29	6.64	152.6	5.72	58.3	136.1	3.07
		ECSW-7	Upstream	East Branch near Rolling Hills	16.24	7.05	215.9	5.71	58.0	204.3	5.98

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.11 - 8.15: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: January 2020 - May 2020

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (m/V)	Turbidity (NTU)
Table 8.11	1/21/2020	ECSW-5	Upstream	West Branch Headwaters	12.47	7.00	91.9	9.06	83.9	138.4	2.93
		ECSW-4	⇩	West Branch @ Longleaf Drive	10.21	7.10	87.7	10.18	98.4	187.2	4.97
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	9.08	7.22	83.2	10.01	85.5	162.9	3.89
		ECSW-2	⇩	Crescent Lake West Branch	10.63	7.17	107.7	9.08	80.3	198.6	2.83
		ECSW-1	Downstream	Crescent Lake Dam	12.48	7.24	89.2	9.54	87.9	221.4	3.40
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	10.25	6.99	146.6	7.58	66.6	132.4	4.95
		ECSW-7	Upstream	East Branch near Rolling Hills	9.50	7.08	210.5	7.29	63.0	117.1	9.27
Table 8.12	2/11/2020	ECSW-5	Upstream	West Branch Headwaters	21.30	6.80	87.5	5.02	56.2	343.1	2.82
		ECSW-4	⇩	West Branch @ Longleaf Drive	20.22	6.97	86.9	7.14	78.7	318.0	7.11
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	19.49	7.00	89.3	7.47	81.0	254.5	5.39
		ECSW-2	⇩	Crescent Lake West Branch	19.89	7.11	100.9	7.24	79.1	404.3	3.63
		ECSW-1	Downstream	Crescent Lake Dam	18.07	7.35	89.9	8.96	94.3	417.5	3.91
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	20.74	6.91	146.2	4.99	55.6	161.9	3.16
		ECSW-7	Upstream	East Branch near Rolling Hills	20.92	7.02	219.3	4.98	55.6	249.4	4.89
Table 8.13	3/18/2020	ECSW-5	Upstream	West Branch Headwaters	23.32	6.78	80.9	4.36	50.8	303.6	3.26
		ECSW-4	⇩	West Branch @ Longleaf Drive	23.09	7.09	87.9	6.12	70.8	372.9	3.62
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	21.85	7.11	89.1	6.73	76.0	299.7	3.39
		ECSW-2	⇩	Crescent Lake West Branch	22.79	7.14	105.1	7.60	87.6	309.4	2.06
		ECSW-1	Downstream	Crescent Lake Dam	23.54	7.04	97.1	9.02	105.2	282.7	3.95
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	22.57	6.68	150.2	4.79	55.0	164.5	3.31
		ECSW-7	Upstream	East Branch near Rolling Hills	22.09	7.02	255.1	4.57	52.1	272.2	7.29
Table 8.14	4/27/2020	ECSW-5	Upstream	West Branch Headwaters	22.79	6.41	71.1	1.87	21.6	596.1	1.84
		ECSW-4	⇩	West Branch @ Longleaf Drive	24.91	6.84	79.2	5.65	67.9	549.0	2.23
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	20.31	6.84	90.2	6.64	72.8	525.0	2.01
		ECSW-2	⇩	Crescent Lake West Branch	22.61	6.86	103.1	8.80	101.0	494.9	1.16
		ECSW-1	Downstream	Crescent Lake Dam	23.91	7.37	95.6	8.36	98.1	407.6	2.89
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	21.65	6.58	119.3	3.57	40.4	512.0	1.85
		ECSW-7	Upstream	East Branch near Rolling Hills	21.94	7.21	207.1	6.76	76.8	493.5	5.65
Table 8.15	5/19/2020	ECSW-5	Upstream	West Branch Headwaters	23.11	6.18	74.8	1.04	12.3	576.0	2.18
		ECSW-4	⇩	West Branch @ Longleaf Drive	26.00	6.68	91.1	5.29	65.5	608.6	NS
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	23.05	6.80	87.0	6.13	71.9	428.4	2.70
		ECSW-2	⇩	Crescent Lake West Branch	24.58	6.69	93.3	6.14	74.1	545.9	1.95
		ECSW-1	Downstream	Crescent Lake Dam	26.00	7.50	91.9	8.99	111.1	374.9	4.01
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	23.46	6.66	135.0	3.03	35.8	556.8	2.08
		ECSW-7	Upstream	East Branch near Rolling Hills	25.22	7.18	219.0	6.52	79.8	499.8	5.19

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.16 - 8.20: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: June 2020 - October 2020

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (mV)	Turbidity (NTU)
Table 8.16	6/15/2020	ECSW-5	Upstream	West Branch Headwaters	30.07	6.16	87.5	0.72	9.5	115.3	4.46
		ECSW-4	⇩	West Branch @ Longleaf Drive	30.37	6.67	93.7	4.45	59.0	352.2	3.36
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	23.05	6.80	87.0	6.13	71.9	428.4	3.61
		ECSW-2	⇩	Crescent Lake West Branch	28.72	6.81	118.0	7.54	97.2	405.7	1.46
		ECSW-1	Downstream	Crescent Lake Dam	29.89	7.41	91.4	8.24	108.0	380.6	3.98
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	26.04	6.48	113.0	2.41	29.7	250.6	3.88
		ECSW-7	Upstream	East Branch near Rolling Hills	27.33	6.93	171.0	6.69	84.2	347.8	8.99
Table 8.17	7/14/2020	ECSW-5	Upstream	West Branch Headwaters	32.11	5.98	59.0	0.59	8.0	139.0	2.72
		ECSW-4	⇩	West Branch @ Longleaf Drive	32.39	6.32	78.3	3.53	48.1	66.2	3.57
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	29.10	6.38	90.7	4.99	64.8	162.0	2.62
		ECSW-2	⇩	Crescent Lake West Branch	29.09	6.25	102.2	7.29	93.4	170.0	1.26
		ECSW-1	Downstream	Crescent Lake Dam	33.44	7.27	85.2	8.26	115.6	167.7	2.86
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	28.65	6.30	34.4	2.94	37.0	62.2	2.14
		ECSW-7	Upstream	East Branch near Rolling Hills	29.48	6.70	111.8	4.10	53.1	195.7	5.84
Table 8.18	8/12/2020	ECSW-5	Upstream	West Branch Headwaters	28.42	6.04 J	65.0	0.68	8.7	259.5	2.75
		ECSW-4	⇩	West Branch @ Longleaf Drive	29.54	6.47 J	84.5	5.21	68.3	284.4	17.90
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.01	6.58 J	96.3	5.67	71.0	255.1	13.70
		ECSW-2	⇩	Crescent Lake West Branch	27.12	6.68 J	80.6	7.31	91.7	300.6	9.09
		ECSW-1	Downstream	Crescent Lake Dam	30.73	6.77 J	82.3	6.78	90.5	300.7	3.50
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	26.36	6.41 J	85.7	4.69	58.1	214.7	3.68
		ECSW-7	Upstream	East Branch near Rolling Hills	27.31	6.72 J	102.7	4.17	52.6	225.4	12.00
Table 8.19	9/30/2020	ECSW-5	Upstream	West Branch Headwaters	25.4	5.87	73.3	3.54	43.4	222.07 J	1.62
		ECSW-4	⇩	West Branch @ Longleaf Drive	23.6	6.24	89.7	5.63	66.1	180.54 J	6.35
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	21.5	6.38	103	6.39	72.0	156.37 J	3.98
		ECSW-2	⇩	Crescent Lake West Branch	21.8	6.37	99.6	7.70	53.0	261.93 J	2.22
		ECSW-1	Downstream	Crescent Lake Dam	25.3	7.43	109	9.85	119	246.19 J	3.31
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	22.1	6.54	184	4.12	47.1	71.86 J	16.8
		ECSW-7	Upstream	East Branch near Rolling Hills	24.3	6.84	267	4.09	48.8	183.11 J	37.1
Table 8.20	10/21/2020	ECSW-5	Upstream	West Branch Headwaters	22.52	6.14	86.9	1.86	21.5	231.9	2.07
		ECSW-4	⇩	West Branch @ Longleaf Drive	24.93	6.59	87.2	6.42	77.4	190.9	3.84
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	22.91	6.66	103.2	6.36	73.7	121.3	3.09
		ECSW-2	⇩	Crescent Lake West Branch	23.26	6.36	99.3	3.58	41.7	264.3	2.80
		ECSW-1	Downstream	Crescent Lake Dam	24.59	6.89	93.1	7.19	85.8	228.2	3.86
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	23.92	6.64	152.6	4.13	48.8	81.2	3.67
		ECSW-7	Upstream	East Branch near Rolling Hills	24.14	6.80	211.0	2.85	33.9	146.3	8.84

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:

1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.21 - 8.25: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: November 2020 - March 2021

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (mV)	Turbidity (NTU)
Table 8.21	11/10/2020	ECSW-5	Upstream	West Branch Headwaters	22.73	6.24	102.0	1.76	20.6	231.2	1.62
		ECSW-4	⇩	West Branch @ Longleaf Drive	23.49	6.47	84.6	6.38	75.4	183.2	2.65
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	22.81	6.52	89.7	6.47	75.3	126.1	1.90
		ECSW-2	⇩	Crescent Lake West Branch	23.26	6.39	102.3	5.36	63.2	234.8	2.50
		ECSW-1	Downstream	Crescent Lake Dam	23.28	7.08	94.7	9.16	107.5	201.4	3.45
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	23.19	6.58	152.5	4.02	47.3	79.0	3.28
		ECSW-7	Upstream	East Branch near Rolling Hills	23.97	6.84	222.3	2.53	30.2	78.1	7.63
Table 8.22	12/9/2020	ECSW-5	Upstream	West Branch Headwaters	12.77	6.17	82.9	5.49	51.7	183.3	1.00
		ECSW-4	⇩	West Branch @ Longleaf Drive	14.23	6.55	79.0	8.90	86.4	159.9	2.54
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	12.05	6.49	85.1	9.24	85.3	146.7	2.55
		ECSW-2	⇩	Crescent Lake West Branch	15.56	6.52	95.2	8.70	86.6	159.7	3.02
		ECSW-1	Downstream	Crescent Lake Dam	14.38	7.01	91.2	9.36	90.8	185.8	3.79
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	13.90	6.63	136.8	6.93	66.8	110.1	2.42
		ECSW-7	Upstream	East Branch near Rolling Hills	13.31	6.95	164.1	5.91	56.3	114.3	4.15
Table 8.23	1/13/2021	ECSW-5	Upstream	West Branch Headwaters	11.40	6.47	91.7	7.91	72.2	132.3	1.55
		ECSW-4	⇩	West Branch @ Longleaf Drive	12.38	6.62	80.3	9.76	90.9	121.2	2.24
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	10.65	6.56	83.9	10.17	91.1	125.0	1.68
		ECSW-2	⇩	Crescent Lake West Branch	13.67	6.31	100.9	9.80	93.9	132.8	2.41
		ECSW-1	Downstream	Crescent Lake Dam	11.15	6.91	93.1	9.87	89.0	170.4	4.00
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	11.54	6.72	146.0	7.74	70.7	92.3	2.30
		ECSW-7	Upstream	East Branch near Rolling Hills	9.50	7.04	211.3	7.80	67.9	128.6	4.35
Table 8.24	2/24/2021	ECSW-5	Upstream	West Branch Headwaters	16.79	6.19	95.6	5.60	57.6	48.6	1.99
		ECSW-4	⇩	West Branch @ Longleaf Drive	15.74	6.40	82.0	8.37	84.0	87.3	3.66
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	14.20	6.44	82.3	8.84	85.6	95.9	2.91
		ECSW-2	⇩	Crescent Lake West Branch	16.58	6.22	97.1	8.72	85.9	124.9	2.34
		ECSW-1	Downstream	Crescent Lake Dam	16.35	6.72	88.1	9.70	98.2	190.8	5.00
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	16.41	6.54	145.3	7.10	73.1	62.8	2.68
		ECSW-7	Upstream	East Branch near Rolling Hills	17.99	6.79	178.0	6.28	66.1	58.5	5.35
Table 8.25	3/23/2021	ECSW-5	Upstream	West Branch Headwaters	19.95	6.09	65.9	6.38	70.5	126.9	1.44
		ECSW-4	⇩	West Branch @ Longleaf Drive	19.31	6.42	83.8	6.78	73.9	141.8	2.44
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	19.15	6.45	82.4	7.25	78.4	78.2	1.74
		ECSW-2	⇩	Crescent Lake West Branch	19.91	6.25	98.5	7.83	85.9	104.8	2.28
		ECSW-1	Downstream	Crescent Lake Dam	19.92	6.75	92.1	9.35	102.6	164.4	3.18
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	19.72	6.55	158.9	5.92	65.0	54.6	1.98
		ECSW-7	Upstream	East Branch near Rolling Hills	20.12	6.94	229.5	6.19	68.6	84.2	4.84

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:

1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.26 - 8.30: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: April 2021 - August 2021

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (m/V)	Turbidity (NTU)
Table 8.26	4/21/2021	ECSW-5	Upstream	West Branch Headwaters	24.51	6.31	74.1	6.46	77.3	164.9	1.57
		ECSW-4	⇩	West Branch @ Longleaf Drive	22.32	6.36	92.3	4.83	55.4	177.0	6.33
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	20.04	6.38	82.0	7.30	80.0	130.0	2.73
		ECSW-2	⇩	Crescent Lake West Branch	21.13	6.27	98.0	6.06	67.8	192.2	2.75
		ECSW-1	Downstream	Crescent Lake Dam	21.06	6.75	79.3	7.65	85.4	211.4	6.15
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	21.78	6.60	152.5	6.11	69.4	95.3	3.55
		ECSW-7	Upstream	East Branch near Rolling Hills	23.33	6.85	211.0	4.83	56.5	93.8	8.33
Table 8.27	5/18/2021	ECSW-5	Upstream	West Branch Headwaters	22.19	6.14	83.8	3.28	37.6	182.5	1.78
		ECSW-4	⇩	West Branch @ Longleaf Drive	23.69	6.35	88.3	4.57	53.7	158.9	5.87
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	22.89	6.56	91.8	6.13	70.9	177.5	2.97
		ECSW-2	⇩	Crescent Lake West Branch	23.61	6.48	94.1	6.57	77.1	206.2	3.60
		ECSW-1	Downstream	Crescent Lake Dam	24.82	6.65	81.2	7.28	87.2	203.2	4.84
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	23.08	6.74	167.5	5.35	62.3	100.3	3.75
		ECSW-7	Upstream	East Branch near Rolling Hills	24.61	6.89	200.7	4.18	50.1	113.8	7.16
Table 8.28	6/22/2021	ECSW-5	Upstream	West Branch Headwaters	28.19	6.39	64.9	5.18	66.6	174.4	7.28
		ECSW-4	⇩	West Branch @ Longleaf Drive	27.94	6.55	62.4	5.93	75.7	120.3	15.80
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	26.80	6.68	59.1	6.29	78.6	149.9	17.30
		ECSW-2	⇩	Crescent Lake West Branch	27.08	6.63	56.3	6.22	78.2	144.9	16.80
		ECSW-1	Downstream	Crescent Lake Dam	27.95	6.66	60.9	6.25	79.7	293.6	36.50
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	25.63	6.52	78.4	5.50	67.7	93.1	4.61
		ECSW-7	Upstream	East Branch near Rolling Hills	27.04	6.75	97.4	4.90	61.6	121.7	68.30
Table 8.29	7/14/2021	ECSW-5	Upstream	West Branch Headwaters	28.31	6.33	133.5	1.08	13.7	NS	2.76
		ECSW-4	⇩	West Branch @ Longleaf Drive	30.40	6.40	74.5	5.87	77.5	NS	8.77
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	28.17	6.52	83.4	5.51	69.8	NS	6.17
		ECSW-2	⇩	Crescent Lake West Branch	31.26	6.77	92.2	7.86	105.0	NS	5.06
		ECSW-1	Downstream	Crescent Lake Dam	30.49	6.85	96.6	8.98	118.4	NS	5.84
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	28.12	6.65	152.2	4.76	60.3	NS	3.44
		ECSW-7	Upstream	East Branch near Rolling Hills	30.22	6.72	198.6	3.41	44.9	NS	11.00
Table 8.30	8/17/2021	ECSW-5	Upstream	West Branch Headwaters	29.90	6.22	71.5	5.11	67.7	NS	2.64
		ECSW-4	⇩	West Branch @ Longleaf Drive	29.74	6.56	79.8	6.42	84.7	NS	10.90
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.38	6.78	98.3	5.95	75.2	NS	3.25
		ECSW-2	⇩	Crescent Lake West Branch	26.47	6.59	97.5	7.12	88.7	NS	1.89
		ECSW-1	Downstream	Crescent Lake Dam	30.01	6.91	94.2	8.17	108.1	NS	4.91
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	26.65	6.75	174.9	4.36	54.4	NS	2.26
		ECSW-7	Upstream	East Branch near Rolling Hills	28.63	6.79	237.7	2.31	30.0	NS	9.17

Notes:

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mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
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NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.31 - 8.35: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: September 2021 - January 2022

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (m/V)	Turbidity (NTU)
Table 8.31	9/21/2021	ECSW-5	Upstream	West Branch Headwaters	25.70	6.22	121.7	1.31	16.1	NS	2.10
		ECSW-4	⇩	West Branch @ Longleaf Drive	27.89	6.38	80.3	4.92	62.6	NS	6.84
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	26.37	6.47	26.4	4.86	60.0	NS	5.31
		ECSW-2	⇩	Crescent Lake West Branch	26.77	6.57	110.3	4.91	61.1	NS	2.56
		ECSW-1	Downstream	Crescent Lake Dam	27.78	6.60	83.0	7.50	95.0	NS	3.92
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	25.81	6.72	186.7	4.09	50.2	NS	3.51
		ECSW-7	Upstream	East Branch near Rolling Hills	26.94	6.80	236.0	2.99	37.6	NS	11.40
Table 8.32	11/2/2021	ECSW-5	Upstream	West Branch Headwaters	19.38	6.18	74.0	4.58	49.4	278.9	2.50
		ECSW-4	⇩	West Branch @ Longleaf Drive	20.46	6.72	74.3	8.27	91.1	250.5	2.95
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	18.10	6.80	97.3	7.52	78.8	192.7	3.62
		ECSW-2	⇩	Crescent Lake West Branch	19.10	6.70	106.1	6.53	70.0	277.2	2.66
		ECSW-1	Downstream	Crescent Lake Dam	19.94	6.85	97.6	8.18	88.8	306.1	2.81
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	19.84	6.61	180.5	5.35	58.2	160.6	2.76
		ECSW-7	Upstream	East Branch near Rolling Hills	20.16	6.76	241.3	3.53	38.7	123.4	7.11
Table 8.33	11/17/2021	ECSW-5	Upstream	West Branch Headwaters	16.91	6.09	82.9	5.03	51.7	139.9	1.08
		ECSW-4	⇩	West Branch @ Longleaf Drive	19.41	6.60	77.3	8.47	91.4	114.3	2.33
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	16.67	6.73	108.6	8.01	81.6	87.2	3.55
		ECSW-2	⇩	Crescent Lake West Branch	18.32	6.52	110.6	7.39	77.9	181.9	1.62
		ECSW-1	Downstream	Crescent Lake Dam	18.35	6.61	103.4	8.92	93.9	184.4	1.58
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	18.12	6.66	190.0	5.97	62.8	78.5	2.27
		ECSW-7	Upstream	East Branch near Rolling Hills	18.60	6.84	262.3	3.86	41.1	63.6	5.76
Table 8.34	12/8/2021	ECSW-5	Upstream	West Branch Headwaters	19.05	6.17	73.8	4.09	44.1	160.1	1.72
		ECSW-4	⇩	West Branch @ Longleaf Drive	19.37	6.67	78.5	7.65	82.9	131.0	3.02
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	18.76	6.62	101.0	7.20	77.1	76.4	4.09
		ECSW-2	⇩	Crescent Lake West Branch	19.07	6.43	109.7	5.67	61.1	182.5	1.81
		ECSW-1	Downstream	Crescent Lake Dam	18.81	6.60	104.5	7.96	85.2	200.5	3.23
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	19.08	6.65	182.6	5.48	59.1	82.6	1.62
		ECSW-7	Upstream	East Branch near Rolling Hills	19.05	6.89	251.6	4.25	45.8	76.5	5.62
Table 8.35	1/24/2022	ECSW-5	Upstream	West Branch Headwaters	9.96	6.73	60.9	7.62	67.3	200.5	1.26
		ECSW-4	⇩	West Branch @ Longleaf Drive	11.25	6.85	69.5	10.48	95.4	186.9	2.47
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	9.36	6.73	85.2	10.30	89.6	157.5	1.85
		ECSW-2	⇩	Crescent Lake West Branch	11.57	6.72	95.1	8.73	79.8	212.6	1.38
		ECSW-1	Downstream	Crescent Lake Dam	11.49	6.91	88.8	10.57	97.4	200.2	1.37
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	12.12	6.72	155.7	8.16	75.9	142.2	1.62
		ECSW-7	Upstream	East Branch near Rolling Hills	11.88	6.85	215.8	7.24	66.9	121.3	4.73

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.36 - 8.40: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: February 2022 - June 2022

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (mV)	Turbidity (NTU)
Table 8.36	2/9/2022	ECSW-5	Upstream	West Branch Headwaters	11.64	6.49	80.6	7.31	67.0	171.5	1.48
		ECSW-4	⇩	West Branch @ Longleaf Drive	13.66	6.80	80.1	9.63	92.1	150.0	3.00
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	11.00	6.71	98.1	9.77	87.8	152.9	2.83
		ECSW-2	⇩	Crescent Lake West Branch	13.26	6.77	106.4	7.94	75.2	183.1	2.15
		ECSW-1	Downstream	Crescent Lake Dam	13.94	6.93	94.7	9.83	94.4	182.7	2.89
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	13.81	6.66	163.7	8.08	77.6	119.7	2.41
		ECSW-7	Upstream	East Branch near Rolling Hills	14.40	6.87	220.9	6.85	66.8	121.7	5.16
Table 8.37	3/23/2022	ECSW-5	Upstream	West Branch Headwaters	19.60	6.57	106.1	4.07	44.6	185.0	1.51
		ECSW-4	⇩	West Branch @ Longleaf Drive	20.13	6.94	78.3	7.80	86.3	174.1	5.11
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	19.60	7.03	81.3	7.23	80.0	172.8	2.47
		ECSW-2	⇩	Crescent Lake West Branch	19.83	7.22	98.0	8.86	97.3	206.6	1.97
		ECSW-1	Downstream	Crescent Lake Dam	20.57	7.24	96.2	9.27	103.2	214.9	2.17
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	20.00	6.62	154.0	5.73	63.2	107.3	1.71
		ECSW-7	Upstream	East Branch near Rolling Hills	20.10	6.90	222.0	4.78	53.0	109.5	3.58
Table 8.38	4/19/2022	ECSW-5	Upstream	West Branch Headwaters	24.50	6.53	73.9	4.50	53.7	196.6	2.42
		ECSW-4	⇩	West Branch @ Longleaf Drive	24.20	6.80	78.6	7.64	20.4	188.3	6.50
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	21.30	6.90	83.5	7.12	79.7	153.9	3.40
		ECSW-2	⇩	Crescent Lake West Branch	23.10	7.10	93.7	8.90	103.0	171.7	3.02
		ECSW-1	Downstream	Crescent Lake Dam	22.70	7.40	90.8	8.65	99.3	245.8	2.50
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	19.90	7.00	138.6	5.57	60.6	138.0	2.09
		ECSW-7	Upstream	East Branch near Rolling Hills	20.30	7.00	186.5	4.39	48.2	146.7	5.29
Table 8.39	5/18/2022	ECSW-5	Upstream	West Branch Headwaters	29.80	6.00	57.7	2.09	27.5	195.4	8.02
		ECSW-4	⇩	West Branch @ Longleaf Drive	30.31	6.54	83.1	6.62	88.0	161.0	3.69
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.70	6.52	89.6	5.23	66.3	144.6	2.20
		ECSW-2	⇩	Crescent Lake West Branch	28.95	6.80	102.6	9.17	119.2	200.6	1.57
		ECSW-1	Downstream	Crescent Lake Dam	28.43	6.90	98.5	9.74	125.0	246.3	1.66
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	25.08	6.56	136.9	3.85	46.5	138.7	2.25
		ECSW-7	Upstream	East Branch near Rolling Hills	26.60	6.63	182.0	3.60	44.6	147.5	6.59
Table 8.40	6/15/2022	ECSW-5	Upstream	West Branch Headwaters	30.01	6.31	73.7	0.84	11.0	227.2	6.47
		ECSW-4	⇩	West Branch @ Longleaf Drive	30.76	6.74	82.4	6.70	89.5	197.9	3.90
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.55	6.67	91.0	5.25	66.2	161.9	3.01
		ECSW-2	⇩	Crescent Lake West Branch	28.29	6.76	96.3	6.99	89.3	214.6	1.63
		ECSW-1	Downstream	Crescent Lake Dam	30.89	6.78	90.7	7.15	95.6	253.8	2.20
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	27.53	6.69	162.6	4.41	55.7	95.1	2.78
		ECSW-7	Upstream	East Branch near Rolling Hills	29.94	6.84	219.3	4.12	54.3	77.8	7.99

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.41 - 8.45: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: July 2022 - November 2022

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (m/V)	Turbidity (NTU)
Table 8.41	7/12/2022	ECSW-5	Upstream	West Branch Headwaters	27.22	5.97	55.9	0.47	5.5	215.9	5.91
		ECSW-4	⇩	West Branch @ Longleaf Drive	29.94	6.54	76.5	6.45	85.4	181.0	13.30
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	28.43	6.54	84.2	5.84	75.3	172.2	9.90
		ECSW-2	⇩	Crescent Lake West Branch	28.43	6.67	84.8	7.29	93.9	217.4	7.81
		ECSW-1	Downstream	Crescent Lake Dam	30.84	6.61	84.9	6.78	90.1	252.4	2.24
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	26.74	6.35	126.7	4.40	55.0	100.9	2.43
		ECSW-7	Upstream	East Branch near Rolling Hills	27.80	6.49	163.9	2.57	32.2	68.1	5.07
Table 8.42	8/2/2022	ECSW-5	Upstream	West Branch Headwaters	21.89	6.20	80.0	2.15	28.5	163.9	6.85
		ECSW-4	⇩	West Branch @ Longleaf Drive	22.20	6.59	84.5	6.51	82.3	149.6	6.07
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.30	6.61	93.7	5.70	71.7	113.7	4.16
		ECSW-2	⇩	Crescent Lake West Branch	31.10	6.83	93.0	7.53	101.1	143.5	2.70
		ECSW-1	Downstream	Crescent Lake Dam	31.20	6.82	82.8	8.56	115.1	211.8	2.87
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	25.80	6.44	151.1	4.11	50.3	75.4	3.75
		ECSW-7	Upstream	East Branch near Rolling Hills	27.10	6.69	206.6	2.24	27.8	75.2	8.94
Table 8.43	9/20/2022	ECSW-5	Upstream	West Branch Headwaters	27.71	6.20	85.5	1.90	24.2	NS	3.83
		ECSW-4	⇩	West Branch @ Longleaf Drive	29.28	6.78	81.6	6.95	90.7	NS	4.59
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.68	6.81	84.8	6.15	78.1	NS	3.66
		ECSW-2	⇩	Crescent Lake West Branch	28.09	6.71	100.3	6.43	82.1	NS	1.97
		ECSW-1	Downstream	Crescent Lake Dam	29.00	6.50	93.3	9.49	122.8	NS	2.93
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	24.87	6.51	152.7	4.09	49.2	NS	2.78
		ECSW-7	Upstream	East Branch near Rolling Hills	26.81	6.62	212.8	2.08	25.9	NS	4.52
Table 8.44	10/10/2022	ECSW-5	Upstream	West Branch Headwaters	21.96	6.66 J	62.4	4.61	52.2	188.2	2.69
		ECSW-4	⇩	West Branch @ Longleaf Drive	20.78	6.97 J	78.5	7.13	78.7	174.3	3.50
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	19.85	6.79 J	85.4	7.03	76.3	146.2	3.83
		ECSW-2	⇩	Crescent Lake West Branch	20.92	6.94 J	96.6	6.16	68.2	205.9	1.82
		ECSW-1	Downstream	Crescent Lake Dam	22.76	6.8 J	89.1	9.87	113.3	179.6	2.11
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	20.83	6.65 J	146.2	5.39	59.7	131.6	2.70
		ECSW-7	Upstream	East Branch near Rolling Hills	21.14	6.81 J	201.0	3.33	37.1	97.8	5.29
Table 8.45	11/16/2022	ECSW-5	Upstream	West Branch Headwaters	15.46	6.56	67.5	6.39	63.5	315.6 J	2.36
		ECSW-4	⇩	West Branch @ Longleaf Drive	15.21	6.70	82.1	8.16	80.5	301.4 J	3.26
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	14.53	7.1 J	87.2	8.03	77.9	370.7 J	2.75
		ECSW-2	⇩	Crescent Lake West Branch	15.96	7.22 J	101.2	8.87	88.7	552.2 J	2.28
		ECSW-1	Downstream	Crescent Lake Dam	16.45	7.11 J	94.2	9.32	94.2	526.2 J	3.73
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	15.45	6.83	148.6	6.59	65.3	251.1 J	2.84
		ECSW-7	Upstream	East Branch near Rolling Hills	14.97	6.61	207.9	5.74	56.3	243.6 J	3.89

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.46 - 8.50: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: December 2022 - April 2023

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (mV)	Turbidity (NTU)
Table 8.46	12/7/2022	ECSW-5	Upstream	West Branch Headwaters	20.88	6.45	69.7	3.86	42.7	232.6 J	2.38
		ECSW-4	⇩	West Branch @ Longleaf Drive	21.82	6.66	82.7	6.56	74.0	196.7 J	2.93
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	20.59	6.44	93.0	6.75	74.1	166.5 J	2.05
		ECSW-2	⇩	Crescent Lake West Branch	21.67	6.33	109.1	6.90	77.5	232.3 J	1.87
		ECSW-1	Downstream	Crescent Lake Dam	20.73	6.36	91.4	9.84	108.3	274.5 J	1.09
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	21.27	6.41	146.7	5.21	58.1	112.1 J	2.87
		ECSW-7	Upstream	East Branch near Rolling Hills	21.27	6.45	201.3	3.63	40.5	116.4 J	6.01
Table 8.47	1/11/2023	ECSW-5	Upstream	West Branch Headwaters	16.83	6.31	82.9	5.14	52.9	196.7	1.65
		ECSW-4	⇩	West Branch @ Longleaf Drive	17.05	6.53	83.9	7.94	82.0	157.6	3.55
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	16.31	6.43	85.9	8.18	82.9	170.1	3.08
		ECSW-2	⇩	Crescent Lake West Branch	17.84	6.33	103.3	8.03	84.2	187.4	1.95
		ECSW-1	Downstream	Crescent Lake Dam	17.52	6.30	89.5	9.67	100.7	206.0	1.77
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	17.39	6.39	149.4	6.14	63.9	120.0	2.80
		ECSW-7	Upstream	East Branch near Rolling Hills	17.54	6.45	213.2	5.37	56.0	86.4	4.92
Table 8.48	2/7/2023	ECSW-5	Upstream	West Branch Headwaters	18.95	6.47	87.9	6.14	65.8	207.3	1.50
		ECSW-4	⇩	West Branch @ Longleaf Drive	18.37	6.60	81.5	8.79	92.9	196.6	1.95
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	17.17	6.52	104.4	8.80	90.6	163.9	1.58
		ECSW-2	⇩	Crescent Lake West Branch	18.56	6.59	96.8	9.87	104.7	209.7	1.09
		ECSW-1	Downstream	Crescent Lake Dam	17.96	6.55	89.5	9.75	101.9	217.8	1.04
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	18.12	6.55	154.9	6.80	71.5	128.9	1.99
		ECSW-7	Upstream	East Branch near Rolling Hills	18.15	6.69	223.1	6.16	64.8	90.9	4.87
Table 8.49	3/22/2023	ECSW-5	Upstream	West Branch Headwaters	15.92	6.43	66.1	5.86	58.8	296.4	2.68
		ECSW-4	⇩	West Branch @ Longleaf Drive	17.15	6.53	85.4	7.40	76.1	240.8	2.84
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	16.19	6.36	76.7	8.03	80.7	222.0	1.84
		ECSW-2	⇩	Crescent Lake West Branch	17.28	6.32	98.4	8.28	85.3	249.2	1.41
		ECSW-1	Downstream	Crescent Lake Dam	17.12	6.48	92.5	10.14	104.0	268.8	1.37
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	17.27	6.41	129.9	6.46	66.5	185.8	1.71
		ECSW-7	Upstream	East Branch near Rolling Hills	16.51	6.43	187.5	5.47	55.4	184.5	3.79
Table 8.50	4/12/2023	ECSW-5	Upstream	West Branch Headwaters	20.03	6.57	72.9	4.26	46.8	249.7	4.22
		ECSW-4	⇩	West Branch @ Longleaf Drive	19.75	6.72	88.4	5.83	63.6	232.2	2.90
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	20.60	6.72	96.5	6.95	77.0	220.3	3.41
		ECSW-2	⇩	Crescent Lake West Branch	20.65	6.86	102.3	10.19	113.1	225.4	1.70
		ECSW-1	Downstream	Crescent Lake Dam	20.65	6.70	93.9	8.28	91.9	251.6	2.32
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	19.78	6.52	143.8	5.03	54.9	204.5	2.10
		ECSW-7	Upstream	East Branch near Rolling Hills	19.84	6.58	208.2	4.04	44.1	158.2	5.98

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:

1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
2. The seven-day average DO percent saturation shall not be below 51 percent more than once in any twelve week period; and,
3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.51 - 8.55: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: May 2023 - September 2023

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (mV)	Turbidity (NTU)
Table 8.51	5/17/2023	ECSW-5	Upstream	West Branch Headwaters	25.45	6.37	78.3	0.48	6.0	268.5	10.8
		ECSW-4	⇩	West Branch @ Longleaf Drive	27.60	6.86	78.7	6.05	77.2	243.6	3.70
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	25.34	6.72	89.3	5.87	71.8	196.3	4.40
		ECSW-2	⇩	Crescent Lake West Branch	26.14	6.77	86.3	6.27	77.9	276.5	4.09
		ECSW-1	Downstream	Crescent Lake Dam	29.66	6.78	92.5	7.50	99.0	249.2	1.56
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	25.08	6.68	113.4	4.79	58.3	179.8	2.31
		ECSW-7	Upstream	East Branch near Rolling Hills	25.44	6.65	136.3	3.41	41.9	190.3	4.13
Table 8.52	6/22/2023	ECSW-5	Upstream	West Branch Headwaters	27.19	6.33	92.8	0.97	12.3	238.0	NS
		ECSW-4	⇩	West Branch @ Longleaf Drive	NS	NS	NS	NS	NS	NS	7.10
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	27.51	6.54	117.2	6.22	79.2	199.2	9.46
		ECSW-2	⇩	Crescent Lake West Branch	27.19	6.52	102.2	5.90	74.6	274.2	3.59
		ECSW-1	Downstream	Crescent Lake Dam	29.10	6.56	74.3	6.85	89.6	284.4	2.95
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	NS	NS	NS	NS	NS	NS	NS
		ECSW-7	Upstream	East Branch near Rolling Hills	26.70	6.59	178.9	3.11	38.9	169.1	11.5
Table 8.53	7/18/2023	ECSW-5	Upstream	West Branch Headwaters	27.85	6.20	87.8	0.75	9.6	280.8	5.39
		ECSW-4	⇩	West Branch @ Longleaf Drive	NS	NS	NS	NS	NS	NS	NS
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	28.16	6.41	101.4	5.82	74.3	230.0	7.64
		ECSW-2	⇩	Crescent Lake West Branch	28.66	6.56	104.9	7.06	90.9	435.0	4.07
		ECSW-1	Downstream	Crescent Lake Dam	31.03	6.54	78.6	7.95	106.6	460.1	4.62
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	NS	NS	NS	NS	NS	NS	NS
		ECSW-7	Upstream	East Branch near Rolling Hills	27.61	6.40	159.6	2.41	30.5	206.5	13.3
Table 8.54	8/23/2023	ECSW-5	Upstream	West Branch Headwaters	31.27	6.05	67.5	1.20	16.3	332.3	3.79
		ECSW-4	⇩	West Branch @ Longleaf Drive	NS	NS	NS	NS	NS	NS	NS
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	29.85	6.66	88.5	5.35	70.6	326.7	2.85
		ECSW-2	⇩	Crescent Lake West Branch	31.55	6.69	103.6	9.83	133.6	365.1	1.15
		ECSW-1	Downstream	Crescent Lake Dam	32.03	6.56	100.8	7.82	107.1	407.7	4.06
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	NS	NS	NS	NS	NS	NS	NS
		ECSW-7	Upstream	East Branch near Rolling Hills	29.85	6.57	248.1	0.39	5.2	289.3	35.7
Table 8.55	9/11/2023	ECSW-5	Upstream	West Branch Headwaters	29.89	6.47	64.9	4.01	53.0	383.4	3.77
		ECSW-4	⇩	West Branch @ Longleaf Drive	28.92	6.79	86.1	6.51	84.6	330.0	2.58
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	26.82	6.96	87.9	5.93	74.1	313.3	3.72
		ECSW-2	⇩	Crescent Lake West Branch	28.25	7.05	99.9	12.42	159.3	407.1	1.96
		ECSW-1	Downstream	Crescent Lake Dam	28.93	6.84	92.5	10.02	130.0	390.8	7.09
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	NS	NS	NS	NS	NS	NS	NS
		ECSW-7	Upstream	East Branch near Rolling Hills	27.47	6.43	189.2	0.85	10.8	123.6	19.9

Notes:

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Regulatory Standards per Florida Administrative Code Chapter 62-302:

Dissolved Oxygen Saturation - Minimum DO saturation levels shall be as follows:
1. The daily average percent DO saturation shall not be below 42 percent saturation in more than 10 percent of the values,
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3. The 30-day average DO percent saturation shall not be below 56 percent more than once per year.

pH - Regulatory Limit per 62-302 F.A.C. for Class III Waters: Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.

Turbidity - ≤ 29 NTU above natural background conditions

Tables 8.56 - 8.58: Surface Water Field Results
Summary of Results by Station and Date Sampled
Sample Dates: October 2023 - December 2023

	Date	Station ID	Location	Station Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	DO Saturation (%)	ORP (mV)	Turbidity (NTU)
Table 8.56	10/18/2023	ECSW-5	Upstream	West Branch Headwaters	18.99	6.33	65.5	5.31	57.1	241.4	1.12
		ECSW-4	⇩	West Branch @ Longleaf Drive	15.73	6.52	86.7	6.45	64.7	211.0	1.61
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	15.29	6.48	108.7	7.85	77.9	194.9	2.10
		ECSW-2	⇩	Crescent Lake West Branch	16.19	6.44	108.9	8.93	90.3	265.2	1.59
		ECSW-1	Downstream	Crescent Lake Dam	17.48	6.43	95.8	9.55	99.2	269.2	3.49
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	16.98	6.23	119.1	4.54	46.7	190.0	2.08
		ECSW-7	Upstream	East Branch near Rolling Hills	16.63	6.37	186.8	3.38	34.6	202.8	7.07
Table 8.57	11/7/2023	ECSW-5	Upstream	West Branch Headwaters	15.67	6.46	62.3	5.60	56.2	269.1	0.88
		ECSW-4	⇩	West Branch @ Longleaf Drive	15.51	6.43	86.3	6.33	63.4	205.9	1.27
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	14.32	6.35	80.7	7.25	70.6	212.8	1.85
		ECSW-2	⇩	Crescent Lake West Branch	16.95	6.28	102.9	10.03	103.4	254.4	1.69
		ECSW-1	Downstream	Crescent Lake Dam	15.95	6.29	92.1	10.34	104.2	259.8	2.88
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	15.37	6.28	125.6	4.38	43.8	168.0	1.68
		ECSW-7	Upstream	East Branch near Rolling Hills	15.22	6.47	199.3	2.75	27.4	117.0	5.09
Table 8.58	12/18/2023	ECSW-5	Upstream	West Branch Headwaters	13.86	6.86	89.9	8.36	80.8	209.6	1.09
		ECSW-4	⇩	West Branch @ Longleaf Drive	13.21	6.88	88.2	8.57	81.6	166.1	1.27
		ECSW-3	⇩	West Branch @ Marcus Pointe Blvd	12.50	7.00	96.9	9.12	85.3	170.4	1.63
		ECSW-2	⇩	Crescent Lake West Branch	15.05	6.94	105.1	9.35	92.6	236.3	1.61
		ECSW-1	Downstream	Crescent Lake Dam	13.84	7.27	86.4	9.71	93.6	223.4	2.23
		ECSW-6	⇧	East Branch @ Marcus Pointe Blvd	15.54	6.81	115.2	6.26	62.8	154.1	2.02
		ECSW-7	Upstream	East Branch near Rolling Hills	13.10	7.17	180.8	5.58	53.0	176.2	4.75

Notes:

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Turbidity - ≤ 29 NTU above natural background conditions

Figure 15.1: Field Temperature – Distribution of Surface Water Results by Station

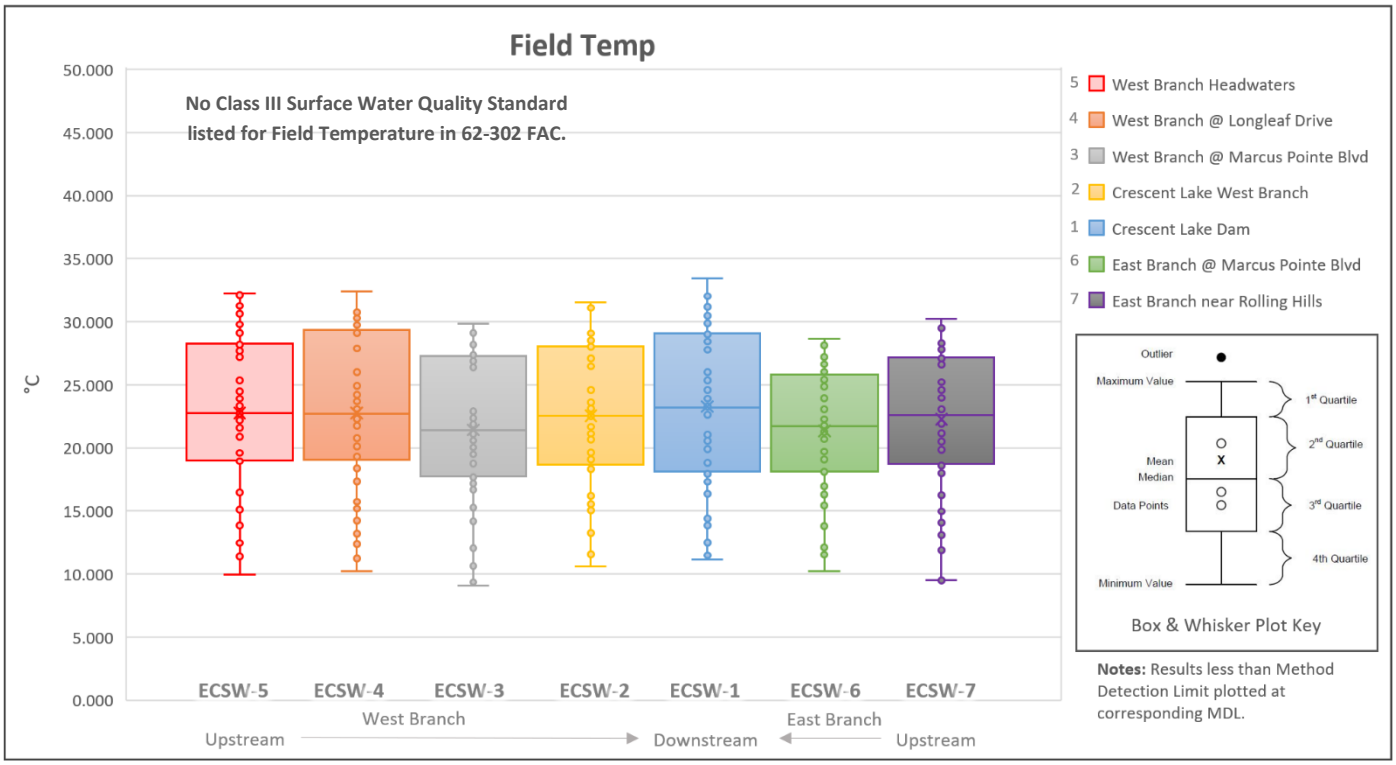


Figure 16.1: Field Temperature – Surface Water Trends by Monitoring Station & Date

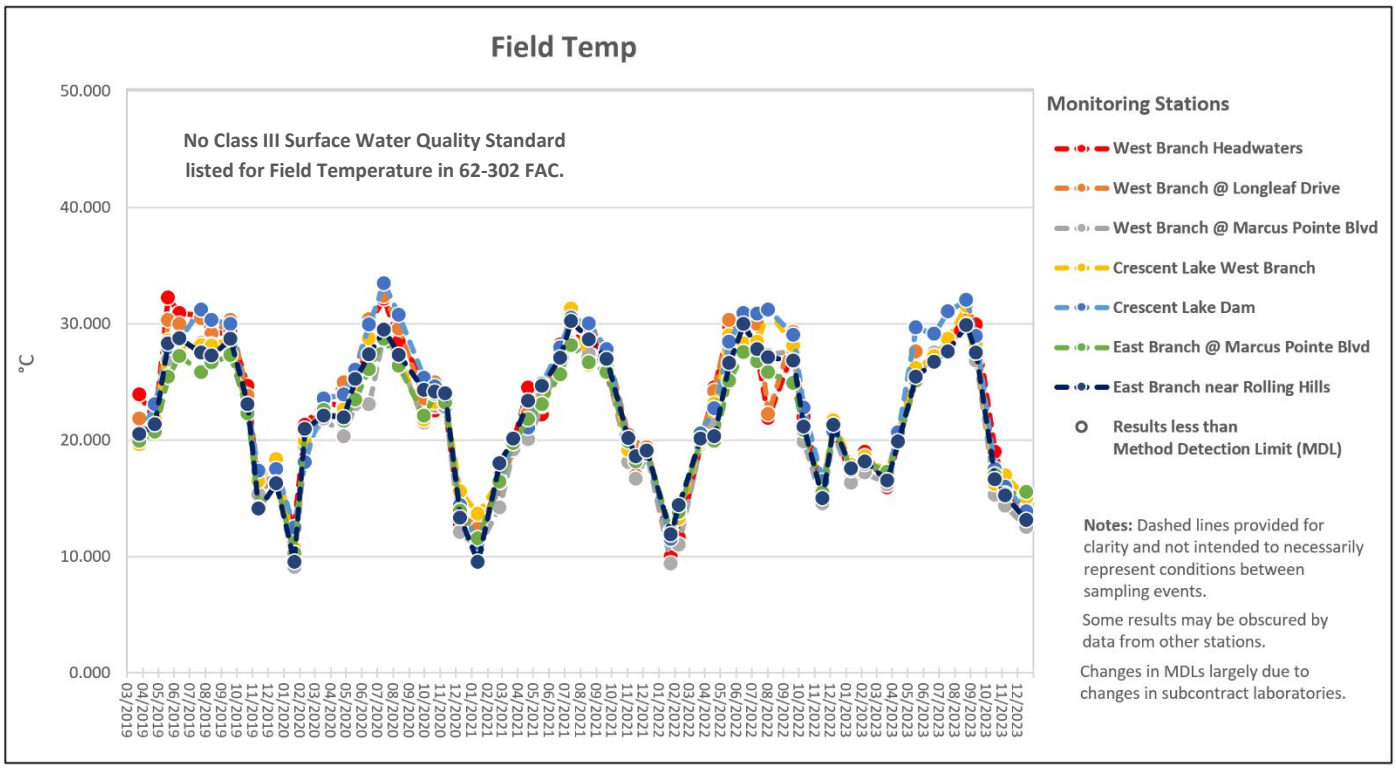


Figure 15.2: Field pH – Distribution of Surface Water Results by Station

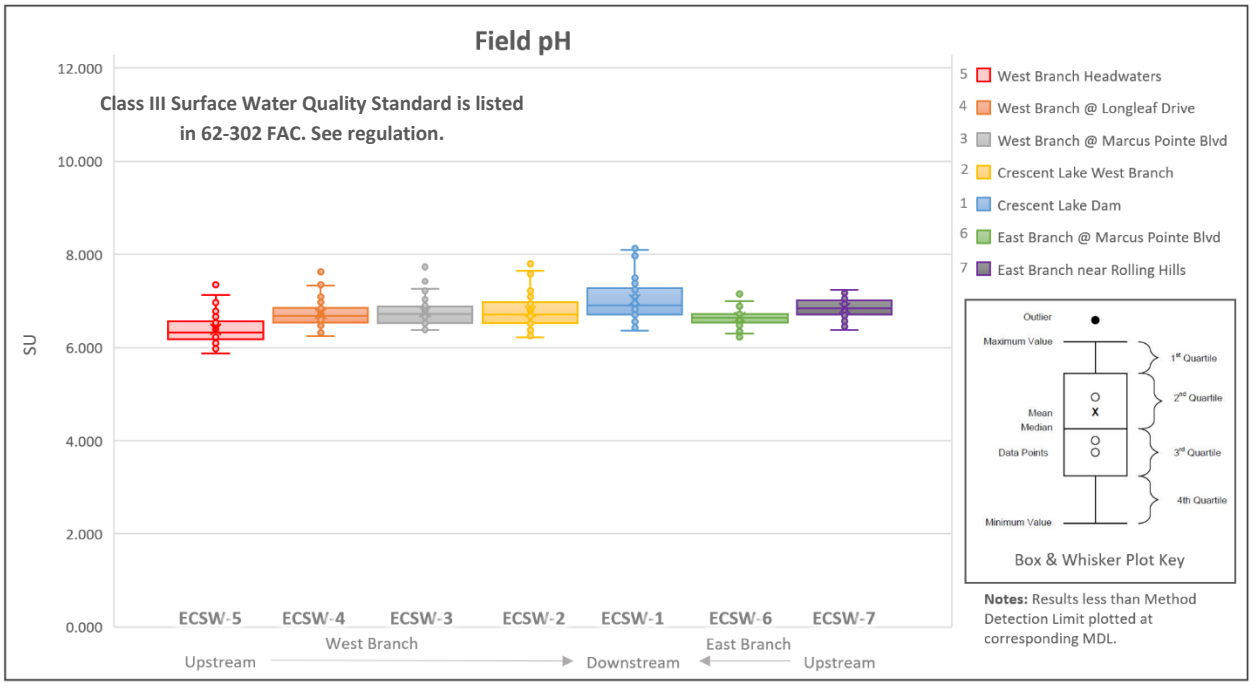


Figure 16.2: Field pH – Surface Water Trends by Monitoring Station & Date

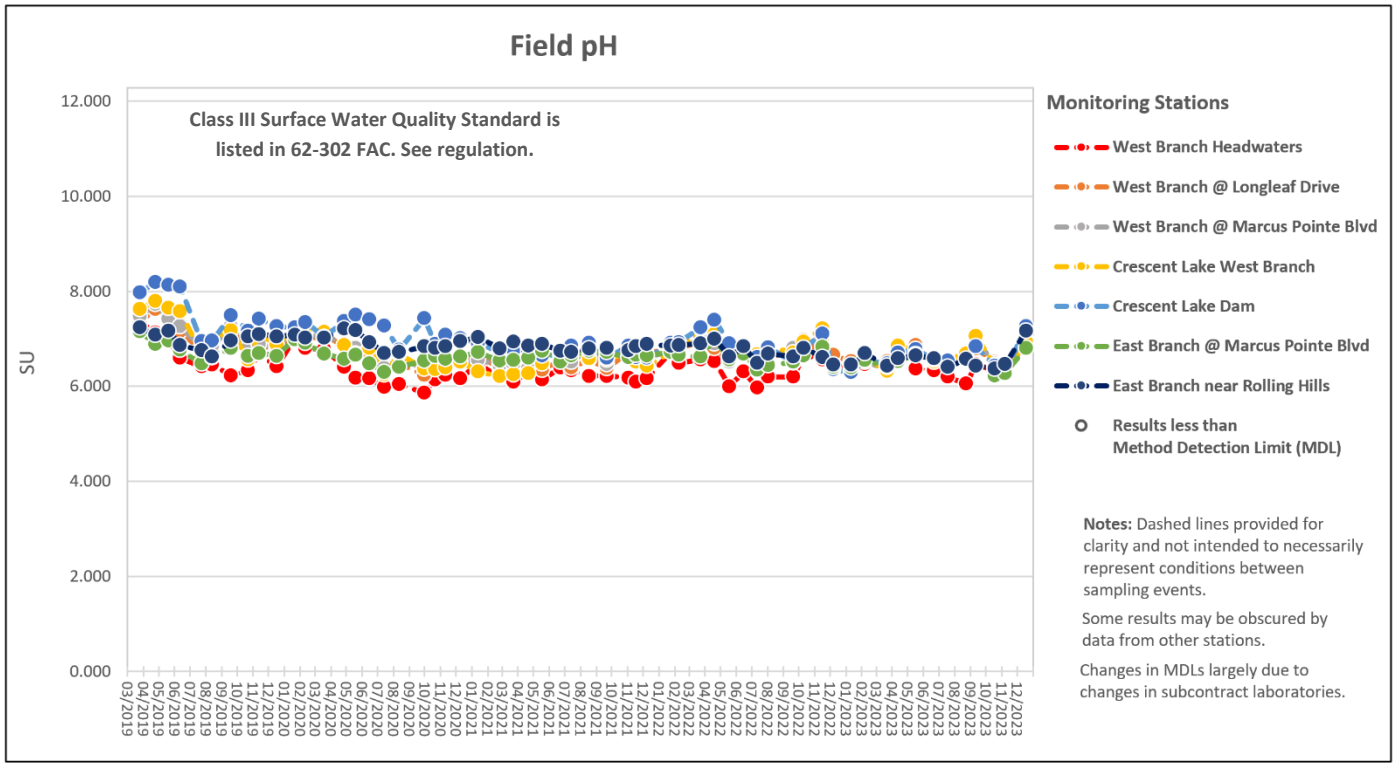


Figure 15.3: Specific Conductance – Distribution of Surface Water Results by Station

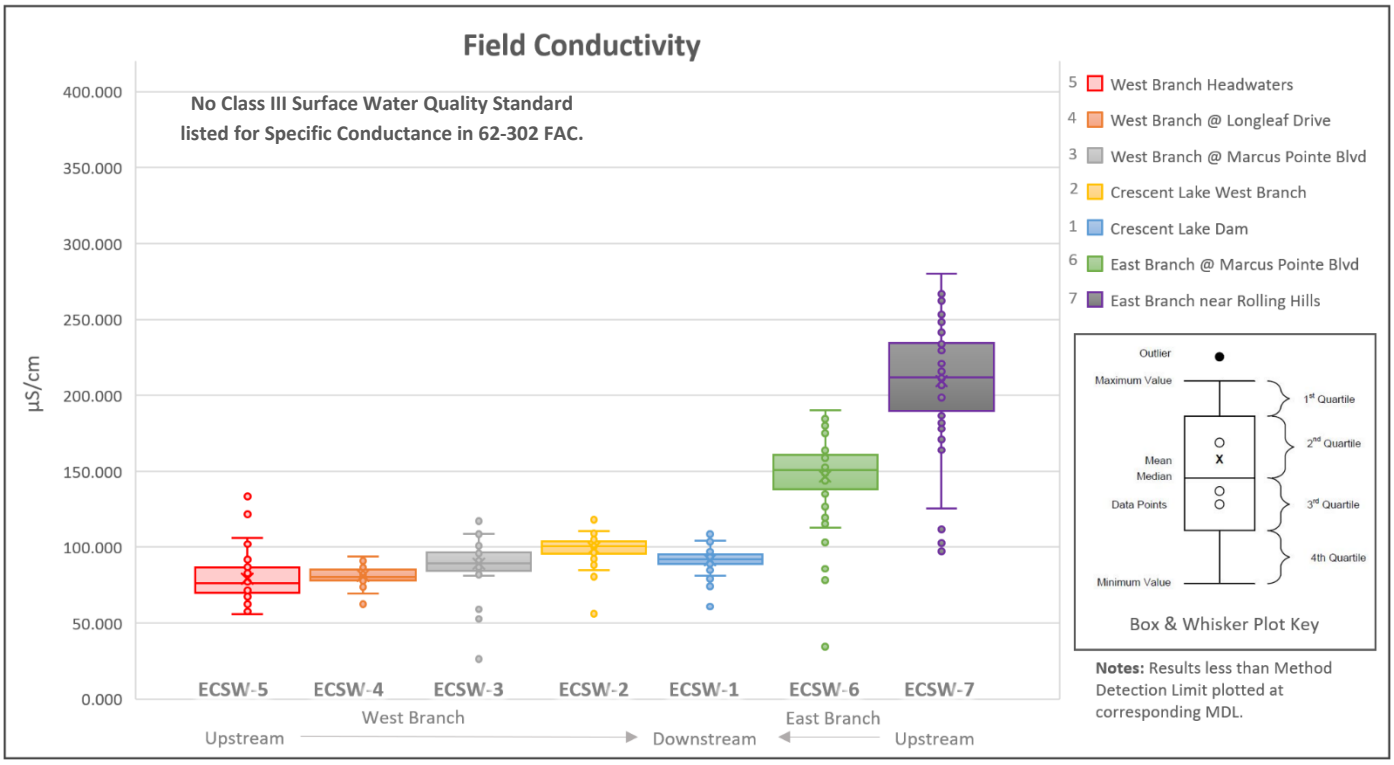


Figure 16.3: Specific Conductance – Surface Water Trends by Monitoring Station & Date

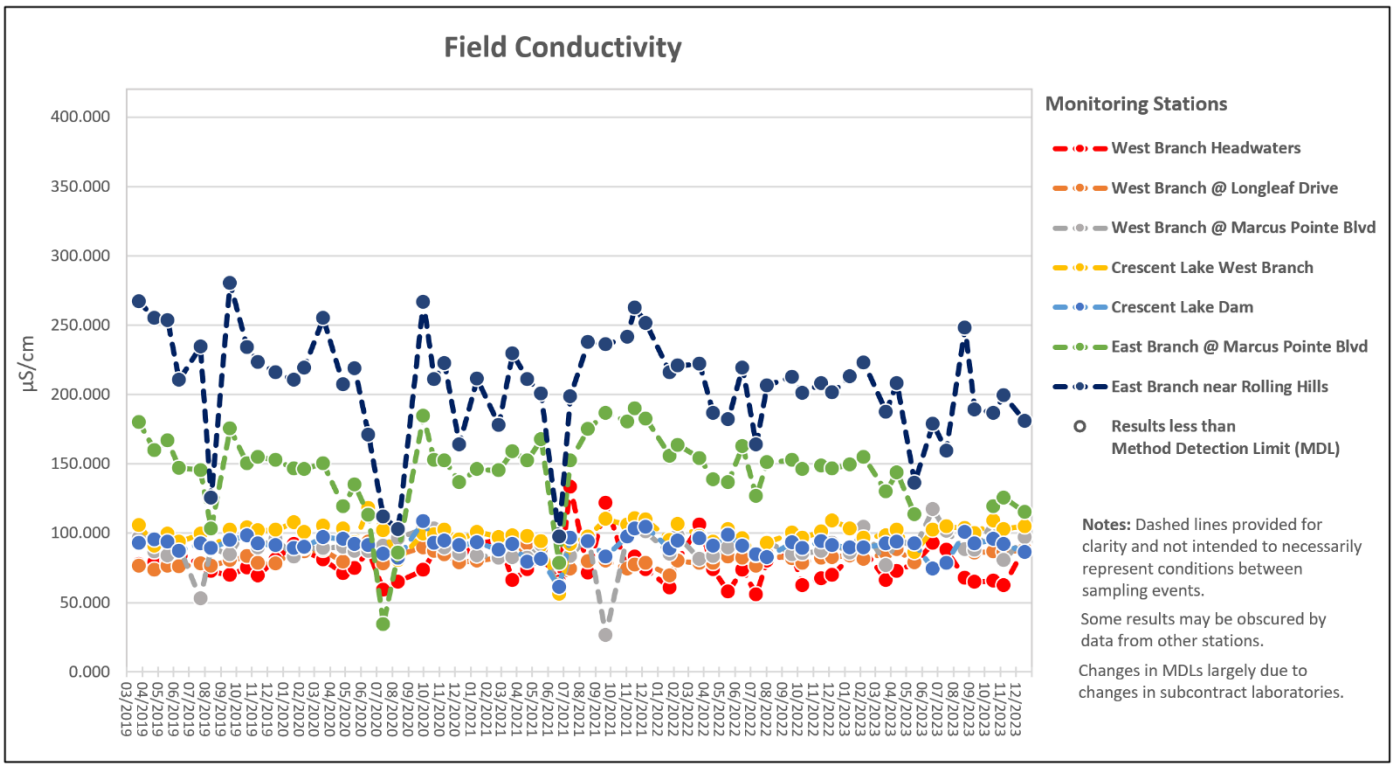


Figure 15.4: Dissolved Oxygen – Distribution of Surface Water Results by Station

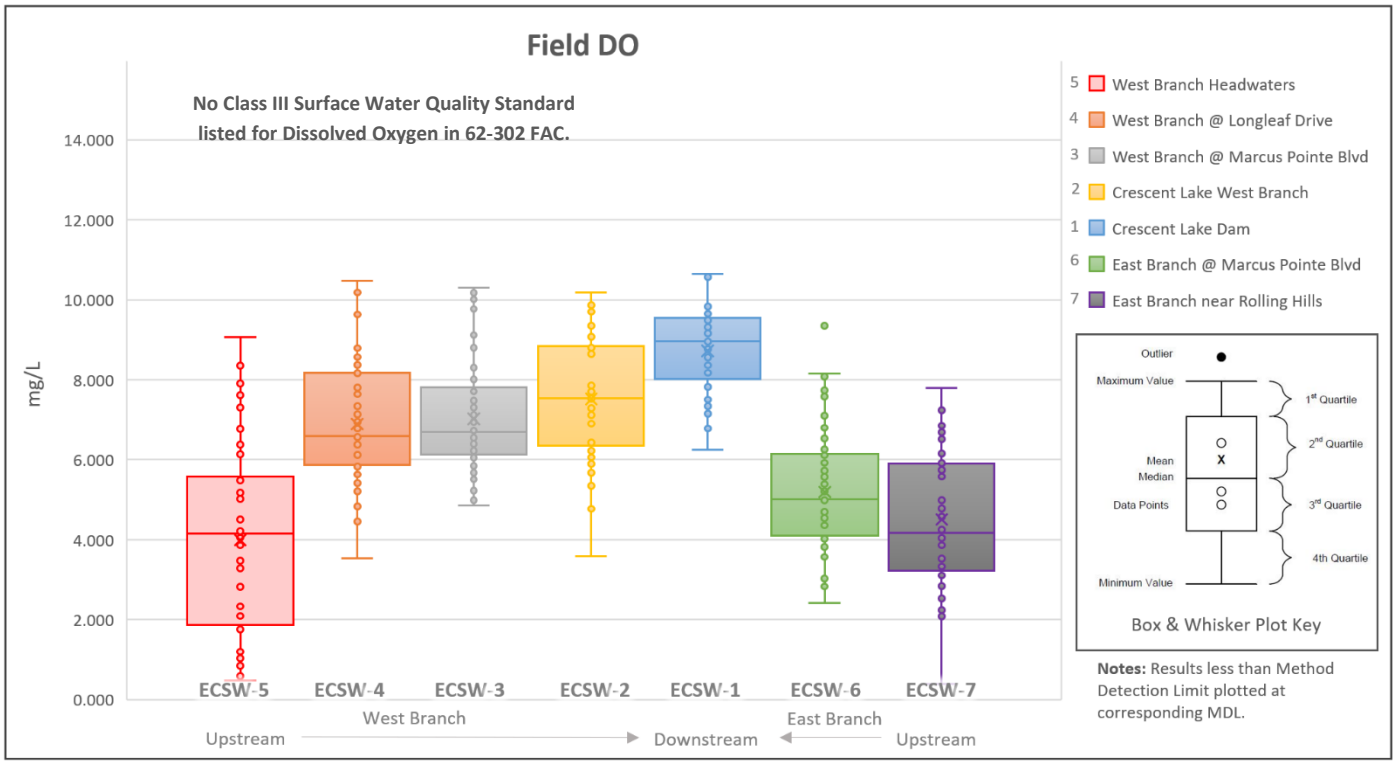


Figure 16.4: Dissolved Oxygen – Surface Water Trends by Monitoring Station & Date

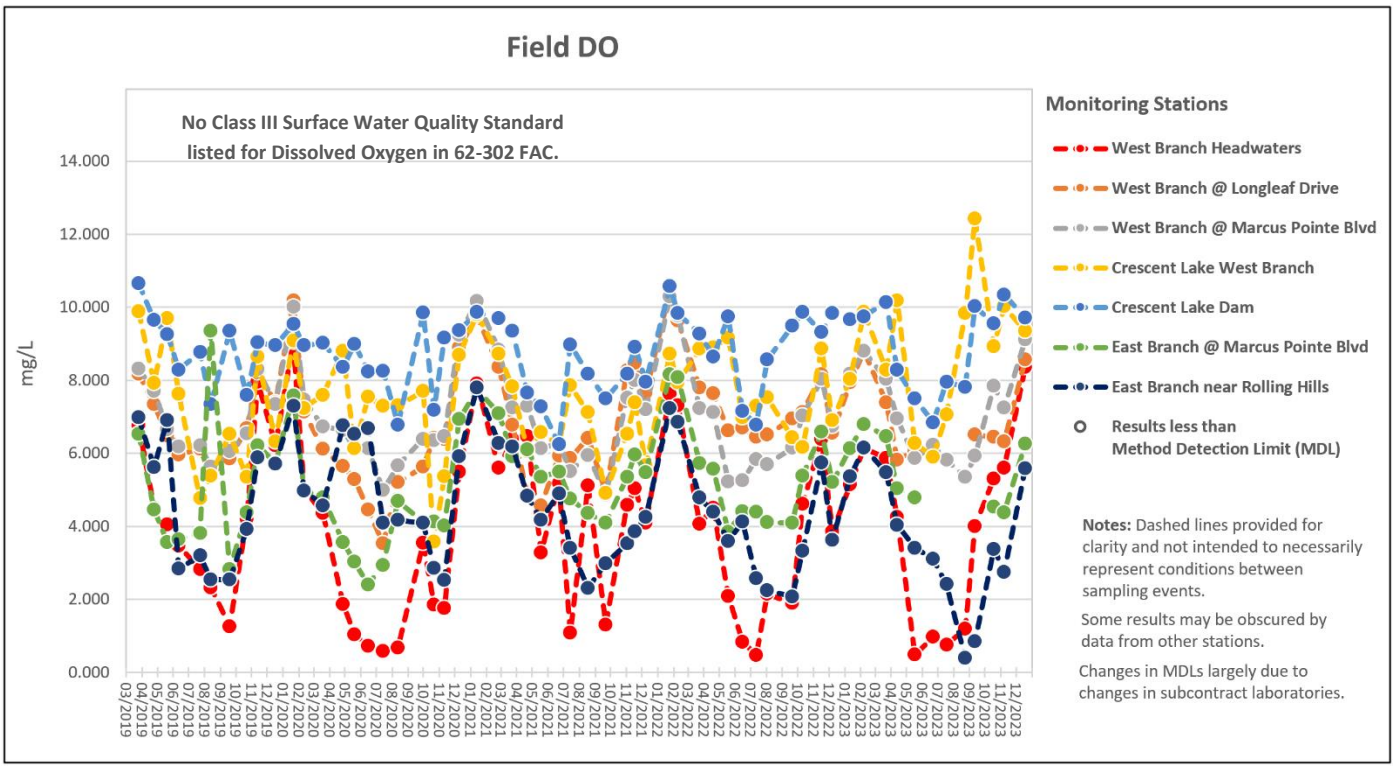


Figure 15.5 Dissolved Oxygen Saturation – Distribution of Surface Water Results by Station

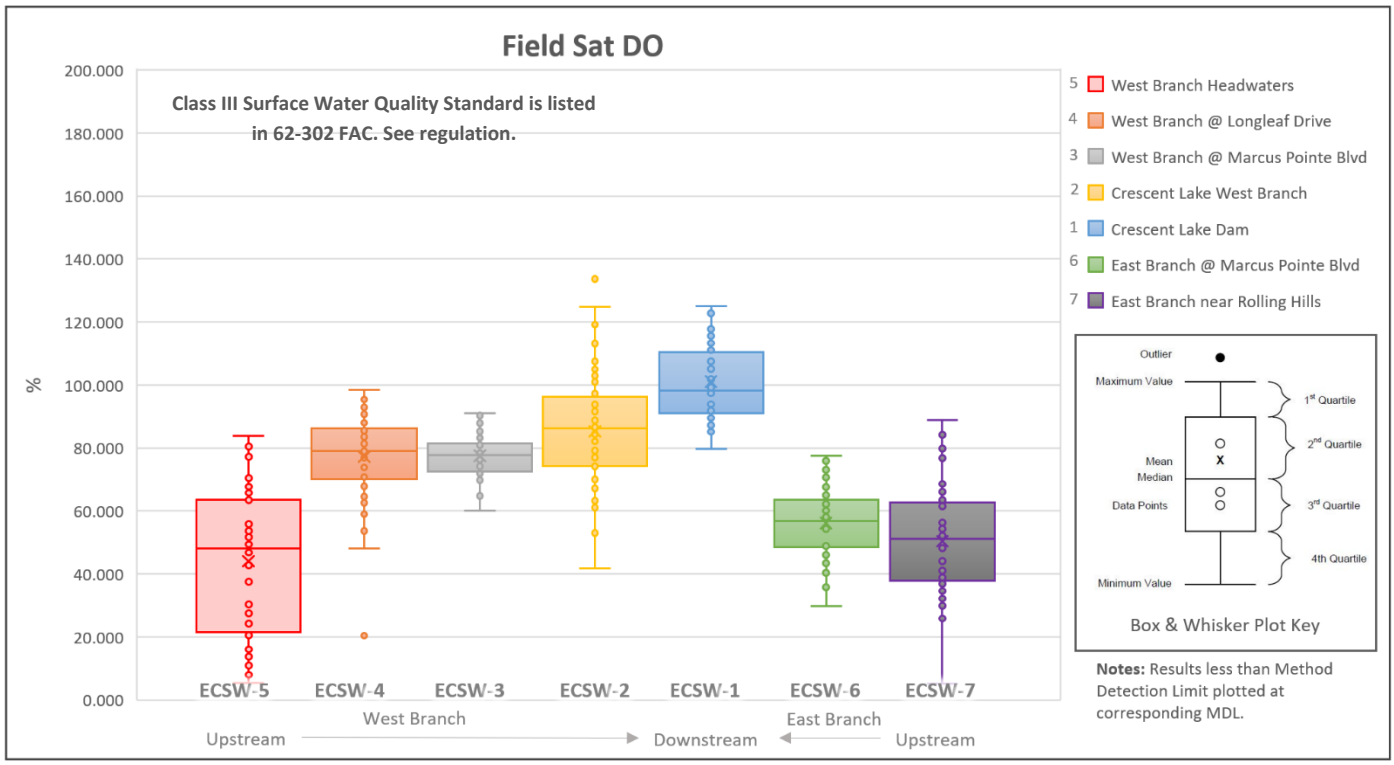


Figure 16.5 Dissolved Oxygen Saturation – Surface Water Trends by Monitoring Station & Date

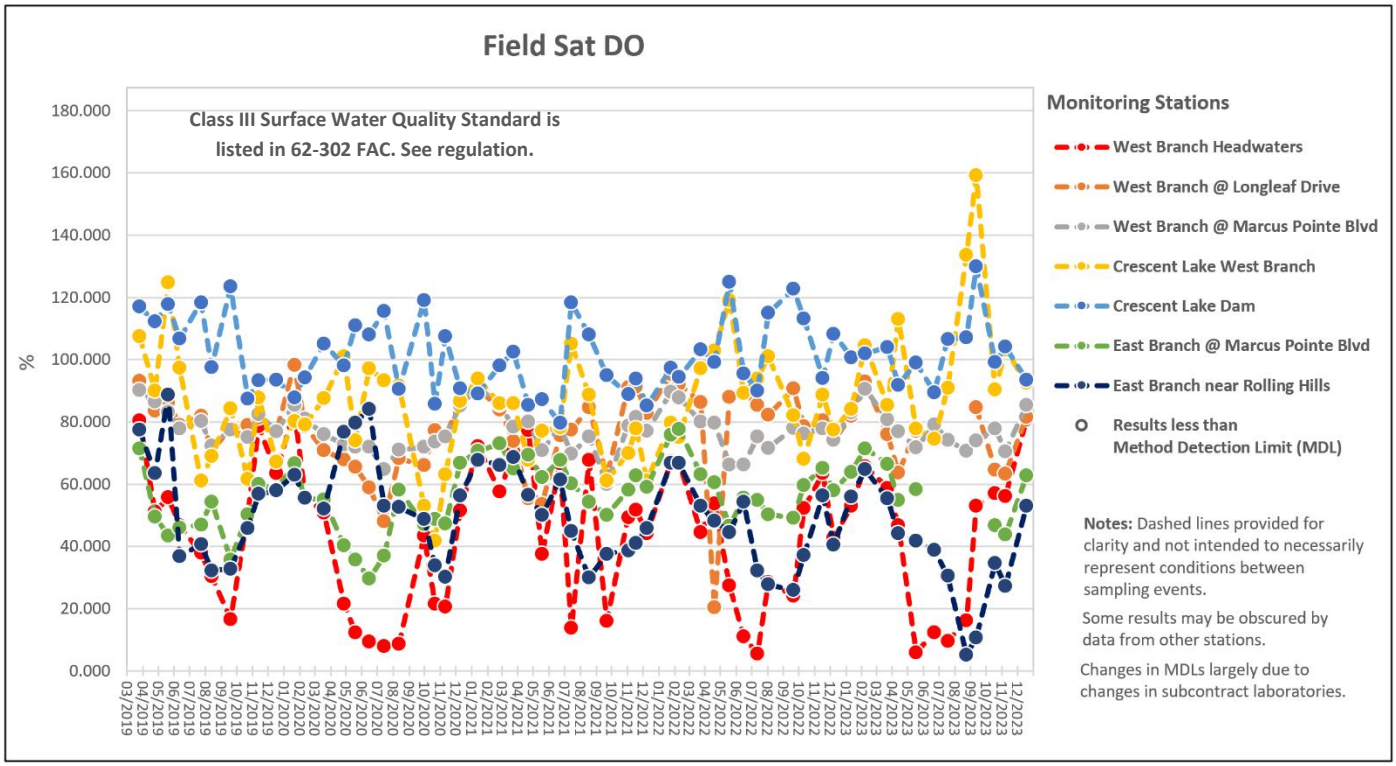


Figure 15.6: Oxidation-reduction Potential – Distribution of Surface Water Results by Station

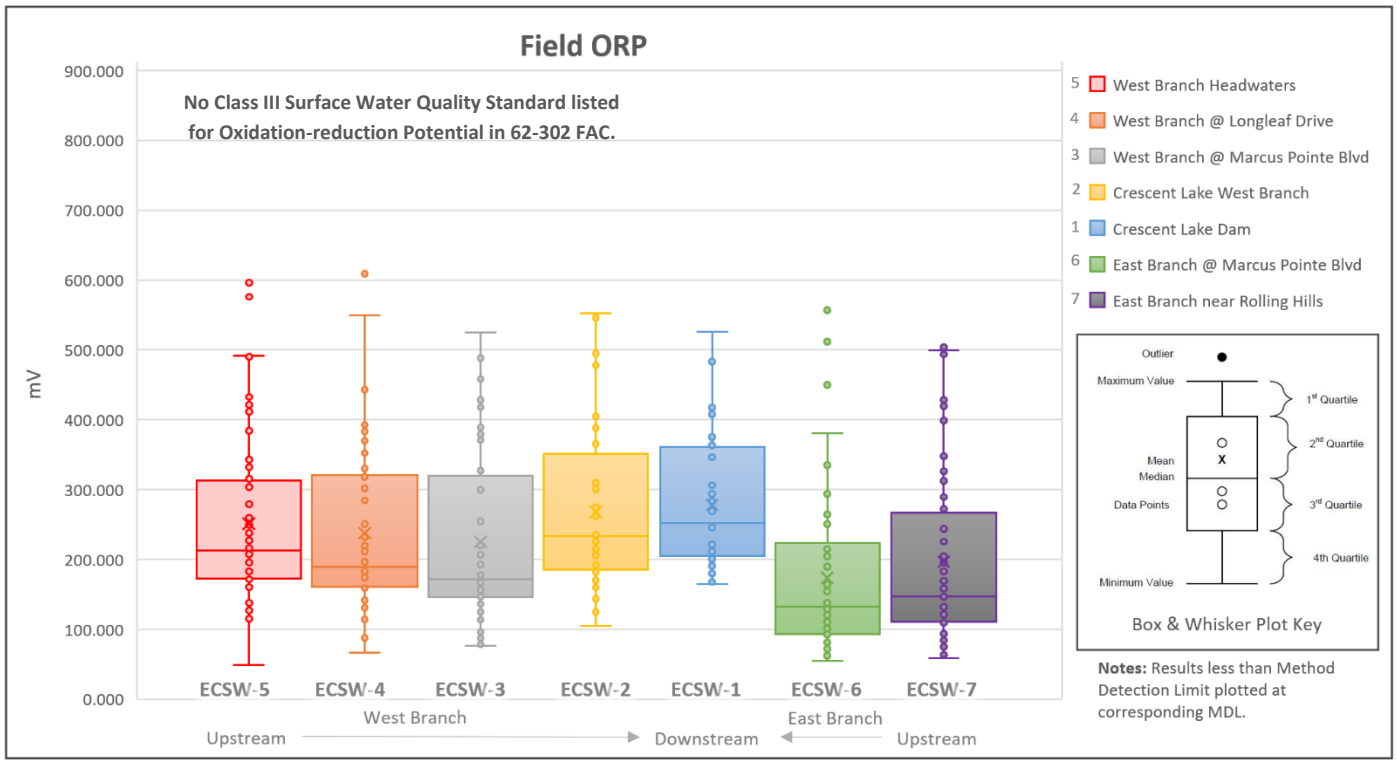


Figure 16.6: Oxidation-reduction Potential – Surface Water Trends by Monitoring Station & Date

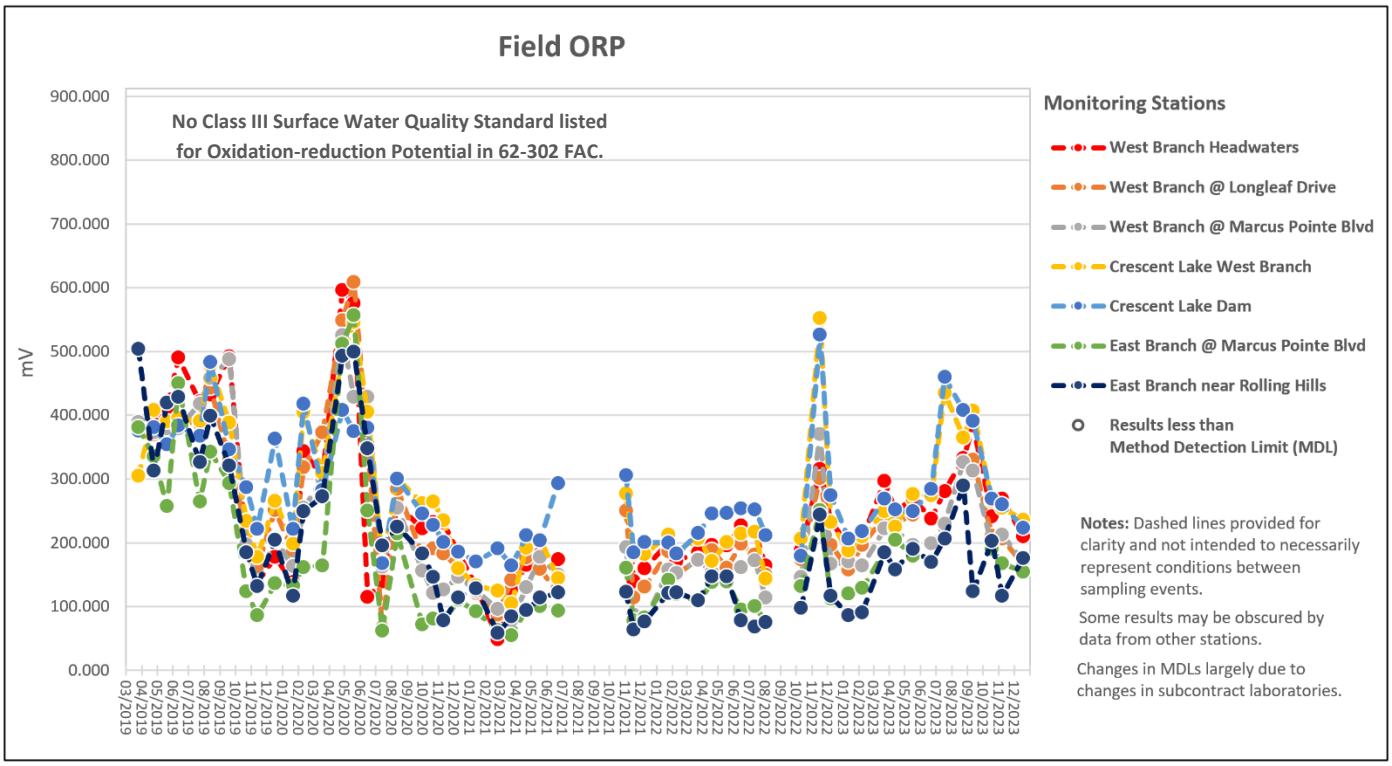


Figure 15.7: Turbidity – Distribution of Surface Water Results by Station

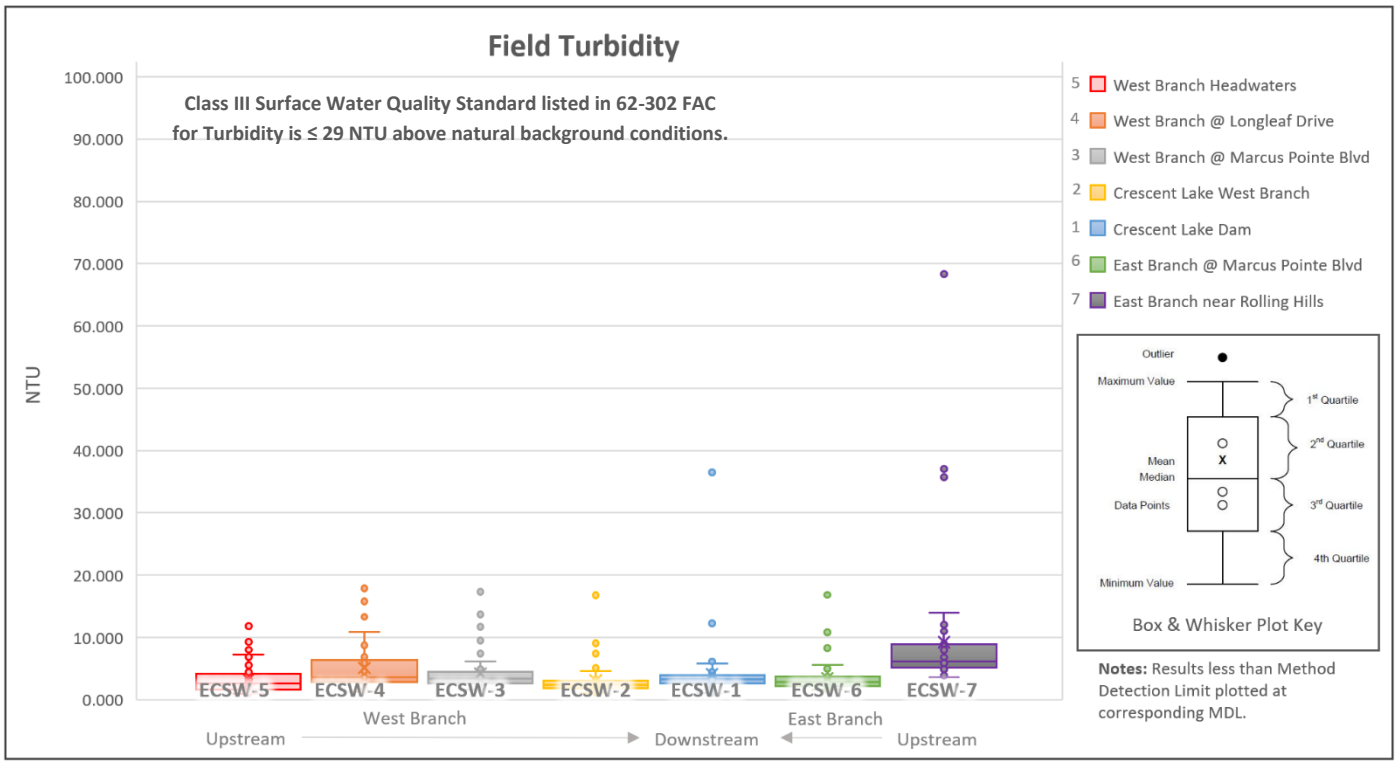


Figure 16.7: Turbidity – Surface Water Trends by Monitoring Station & Date

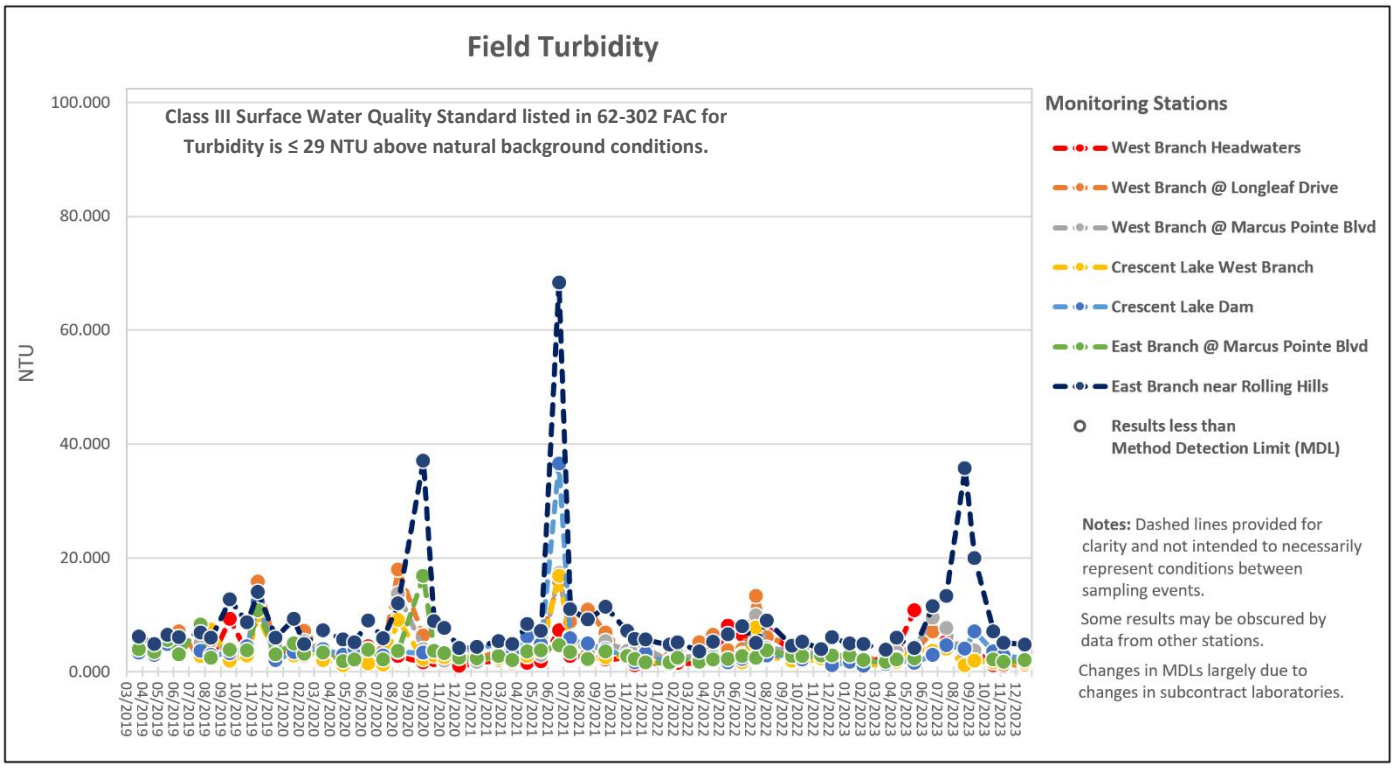


Table 9.1: Antecedent Rainfall Totals for Surface Water Monitoring Events from March 2019 – May 2021

Date / Time	Antecedent Rainfall (total inches over previous hours)						
Start	12	24	36	48	72	120	168
03/25/2019 11:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/24/2019 10:45	0.00	0.00	0.00	0.00	0.00	0.00	0.74
05/20/2019 10:40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
06/11/2019 09:25	0.00	0.00	0.00	0.21	0.65	1.81	3.77
07/23/2019 09:50	0.19	0.19	0.19	0.22	0.82	0.91	0.91
08/13/2019 10:15	0.00	0.32	0.32	0.45	0.45	2.32	2.32
09/18/2019 10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/22/2019 09:25	0.00	1.17	1.17	1.17	1.17	1.73	2.65
11/12/2019 10:00	0.30	0.30	0.30	0.30	0.30	0.74	0.74
12/17/2019 09:45	0.53	0.56	0.72	0.72	0.72	1.21	1.39
01/21/2020 10:10	0.00	0.00	0.00	0.00	0.32	0.37	3.15
02/11/2020 09:45	0.00	0.00	0.00	0.00	0.00	1.02	1.20
03/18/2020 09:20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
04/27/2020 09:50	0.00	0.00	0.00	0.00	0.00	1.41	1.41
05/19/2020 09:35	0.00	0.34	1.05	1.21	1.21	1.21	1.21
06/15/2020 10:00	0.01	0.01	0.01	0.01	0.01	0.22	0.22
06/15/2020 11:00	0.01	0.01	0.01	0.01	0.01	0.19	0.22
07/14/2020 10:10	0.00	0.01	0.05	0.34	0.34	0.38	0.64
08/12/2020 09:55	0.00	0.05	0.05	0.12	0.61	1.29	1.29
09/30/2020 10:05	0.01	0.01	0.01	0.01	0.01	0.02	0.66
09/30/2020 11:05	0.01	0.01	0.01	0.01	0.01	0.02	0.66
10/21/2020 09:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/21/2020 10:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/10/2020 09:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/09/2020 10:15	0.00	0.00	0.00	0.00	0.03	0.03	1.75
12/09/2020 11:15	0.00	0.00	0.00	0.00	0.03	0.03	1.75
12/19/2020 10:15	0.00	0.00	0.00	0.00	0.00	0.27	0.49
01/13/2021 11:00	0.00	0.00	0.00	0.01	0.02	0.02	0.51
02/24/2021 09:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/24/2021 10:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
03/23/2021 10:20	0.00	0.00	0.00	0.00	0.00	0.00	0.56
04/21/2021 10:05	0.00	0.00	0.00	0.00	0.00	2.58	4.30
05/18/2021 09:35	0.00	0.00	0.00	0.00	0.00	0.00	1.84

Notes: Notes: Historic rainfall data from the Pensacola Regional Airport (Network ID: GHCND:USW00013899) was obtained from the NOAA National Centers for Environmental Information at www.ncdc.noaa.gov/cdo-web/datasets#GHCND. Antecedent rainfalls calculated based on start time of first sample collected per event.

Table 9.2: Antecedent Rainfall Totals for Surface Water Monitoring Events from June 2021 – December 2023

Date / Time	Antecedent Rainfall (total inches over previous hours)						
Start	12	24	36	48	72	120	168
06/22/2021 10:10	1.33	3.43	3.74	3.91	4.39	8.39	8.52
07/14/2021 10:30	0.00	0.00	0.00	0.06	0.99	1.59	1.59
08/17/2021 10:15	0.00	0.00	0.00	0.01	0.04	0.04	0.18
09/21/2021 09:10	0.00	0.09	1.01	1.10	1.42	2.28	7.60
11/02/2021 09:35	0.00	0.00	0.00	0.00	0.00	0.01	1.71
11/17/2021 09:05	0.00	0.00	0.00	0.00	0.00	0.00	0.01
12/08/2021 09:35	0.00	0.00	0.00	0.29	0.29	0.29	0.29
01/24/2022 10:05	0.00	0.00	0.00	0.00	0.01	0.37	0.37
02/09/2022 09:35	0.00	0.00	0.00	0.34	0.34	0.48	2.73
03/22/2022 10:45	0.00	0.00	0.00	0.00	0.00	0.82	0.82
03/23/2022 10:45	0.98	1.00	1.00	1.00	1.00	1.71	1.82
04/19/2022 10:10	0.00	0.00	0.03	0.54	0.68	0.68	2.48
05/18/2022 10:00	0.00	0.00	0.00	0.00	0.79	1.82	1.82
06/15/2022 10:20	0.00	0.02	0.02	0.02	0.07	0.98	1.83
07/12/2022 10:00	0.00	0.28	0.28	0.41	1.78	1.86	2.08
08/02/2022 10:10	0.00	0.00	0.07	0.07	0.07	0.56	1.28
09/20/2022 09:45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/10/2022 10:15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/16/2022 09:55	0.00	0.00	0.44	0.44	0.44	0.44	0.46
12/07/2022 10:15	0.00	0.00	0.00	0.00	0.00	0.03	0.03
01/11/2023 10:30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
02/07/2023 10:40	0.00	0.00	0.00	0.00	0.00	0.14	0.14
03/22/2023 10:45	0.00	0.00	0.00	0.00	0.00	0.46	0.46
04/12/2023 09:40	0.00	0.00	0.02	0.03	0.03	0.98	0.98
05/17/2023 10:10	0.01	0.23	0.24	0.26	0.26	0.54	0.54
06/22/2023 10:05	0.00	0.39	0.39	0.39	0.39	0.81	11.10
07/18/2023 10:20	0.00	0.00	0.00	0.42	0.71	3.35	5.20
08/23/2023 09:55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
09/11/2023 13:35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10/18/2023 10:00	0.00	0.00	0.00	0.00	0.00	0.00	1.36
11/07/2023 11:10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/18/2023 10:35	0.00	0.00	0.00	0.03	0.03	0.03	0.03

Notes: Notes: Historic rainfall data from the Pensacola Regional Airport (Network ID: GHCND:USW00013899) was obtained from the NOAA National Centers for Environmental Information at www.ncdc.noaa.gov/cdo-web/datasets#GHCND. Antecedent rainfalls calculated based on start time of first sample collected per event.

Table 10: Observed Monthly Rainfall for 2019 - 2023 Compared against Historic Averages

	Monthly Rainfall (inches)											
Year / Month	January	February	March	April	May	June	July	August	September	October	November	December
2019	2.84	1.69	1.48	4.77	2.86	5.43	4.16	9.12	0.00	4.59	0.89	7.00
2020	5.99	2.79	0.52	3.20	1.61	6.83	6.99	10.36	18.51	4.98	2.10	4.76
2021	2.78	3.58	4.40	8.89	6.90	11.56	7.69	10.93	10.73	12.89	0.31	1.58
2022	2.13	2.77	3.70	3.96	11.36	5.16	9.74	11.41	2.08	0.95	2.65	5.33
2023	8.00	4.16	5.08	7.09	4.80	12.34	6.97	2.46	3.42	1.44	4.12	4.71
Mean Rainfall	5.03	4.77	5.25	5.52	3.90	7.32	7.89	7.49	6.60	4.70	4.42	5.40
90% Confidence Interval	3.93 - 6.13	3.98 - 5.57	4.26 - 6.24	3.63 - 7.41	3.07 - 4.72	5.72 - 8.92	6.96 - 8.82	6.25 - 8.73	5.06 - 8.15	3.35 - 6.04	3.39 - 5.45	4.41 - 6.40

Notes: Historic rainfall data from the Pensacola Regional Airport (Network ID: GHCND:USW00013899) was obtained from the NOAA National Centers for Environmental Information at www.ncdc.noaa.gov/cdo-web/datasets#GHCND. Mean monthly rainfall and 90% confidence intervals based on 30 years of data (1991 - 2020).

Groundwater Monitoring

Tables and Figures

Summarizing Monitoring Results

January 2020 – December 2023

Table 11: Complete List of Groundwater Monitoring Parameters

Volatile Organic Constituents		Metals	Nutrients	Field Parameters‡
Benzene*	1,1-Dichloroethene	**Aluminum***	**Ammonia***	**Conductivity**
Bromodichloromethane	trans-1,2-Dichloroethene	Antimony	**Nitrate/Nitrite (NOx) as N***	**Dissolved Oxygen**
Bromoform	1,2-Dichloropropane	Arsenic	**Nitrate (NO3) as N***	**Oxidation Reduction Potential**
Bromomethane	cis-1,3-Dichloropropene	**Barium***	Nitrite (NO2) as N	**pH**
Carbon tetrachloride	trans-1,3-Dichloropropene	Beryllium		**Temperature**
Chlorobenzene	Ethylbenzene	**Boron***	**Other Laboratory Parameters**	**Turbidity**
Chloroethane	Methylene Chloride	Cadmium	**Chloride***	
2-Chloroethylvinyl ether	1,1,2,2-Tetrachloroethane	Chromium	**Hydrogen Sulfide, Unionized***	
Chloroform	Tetrachloroethene	Copper	**Sulfate***	
Chloromethane	Toluene	**Iron***	**Sulfide***	
Dibromochloromethane	1,1,1-Trichloroethane	Lead	**Total Dissolved Solids***	
1,2-Dichlorobenzene	1,1,2-Trichloroethane	**Manganese***		
1,3-Dichlorobenzene	Trichloroethene	**Mercury***		
1,4-Dichlorobenzene	Trichlorofluoromethane	Silver		
Dichlorodifluoromethane	Vinyl chloride	Selenium		
1,1-Dichloroethane	Xylenes, Total	**Sodium***		
1,2-Dichloroethane		Thallium		
		Vanadium		
		Zinc		

***** - Groundwater dataset includes detections of the corresponding parameters above the practical quantitation limit (PQL). Distribution and trends are shown for these parameters in Figures 19.1 – 19.15 and 20.1 – 20.15, respectively.

‡ - Distribution and trends for field parameters are shown in Figures 21.1 – 21.6 and 22.1 – 22.6, respectively.

Figure 17: Location of Groundwater monitoring Stations

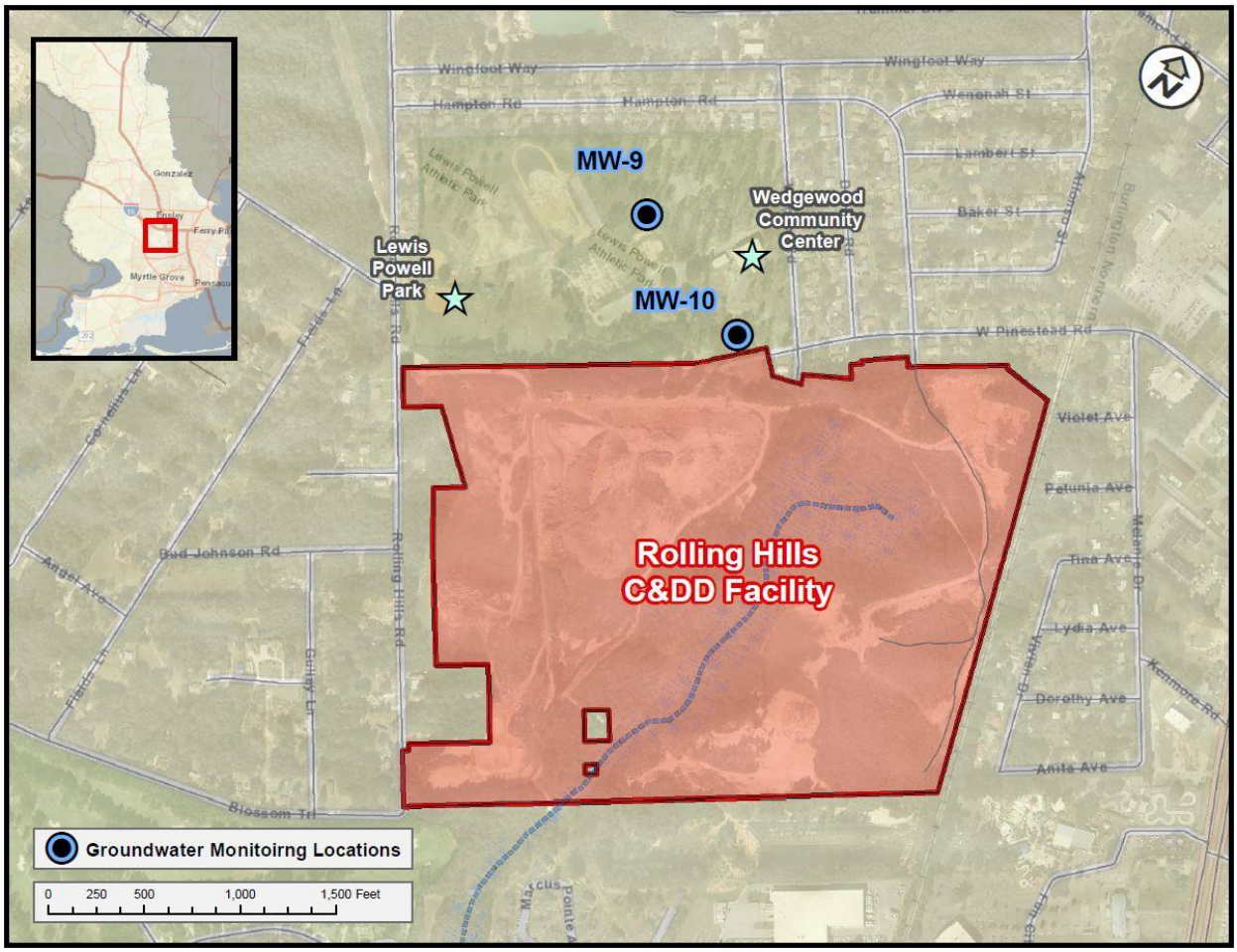


Table 12: Monitoring Well Construction Details and Groundwater Elevation Summary

Rolling Hills Monitoring Well Construction Details and Groundwater Elevation Summary				
Well ID	MW-9		MW-10	
Designation	Background		Background	
TOC Elevation (ft NAVD88)	114.22		113.20	
Screened Interval (ft btoc)	58.00 to 63.00		60.00 to 65.00	
Sample Date	Depth to Water (ft btoc)	Groundwater Elevation (ft NAVD88)	Depth to Water (ft btoc)	Groundwater Elevation (ft NAVD88)
1/29/2020	40.53	73.69	42.25	70.95
2/12/2020	40.65	73.57	42.40	70.80
3/19/2020	40.77	73.45	42.59	70.61
4/28/2020	40.92	73.30	42.92	70.28
5/19/2020	41.12	73.10	43.22	69.98
6/16/2020	41.54	72.68	43.57	69.63
7/15/2020	41.92	72.30	43.92	69.28
8/12/2020	41.80	72.42	43.75	69.45
11/19/2020	35.98	78.24	38.82	74.38
12/21/2020	36.93	77.29	39.49	73.71
1/14/2021	37.60	76.62	39.95	73.25
2/25/2021	38.65	75.57	40.73	72.47
3/24/2021	38.66	75.56	41.04	72.16
4/22/2021	38.43	75.79	40.83	72.37
5/19/2021	36.03	78.19	39.63	73.57
6/23/2021	34.34	79.88	36.67	76.53
7/15/2021	33.45	80.77	36.65	76.55
8/17/2021	33.45	80.77	36.57	76.63
9/21/2021	32.58	81.64	35.47	77.73
11/3/2021	31.80	82.42	35.06	78.14
11/17/2021	32.65	81.57	35.79	77.41
12/8/2021	34.00	80.22	36.81	76.39
1/24/2022	36.79	77.43	38.75	74.45
2/9/2022	37.49	76.73	39.11	74.09
3/22/2022	38.68	75.54	41.11	72.09
4/20/2022	39.10	75.12	40.69	72.51
5/18/2022	39.41	74.81	41.00	72.20
6/15/2022	39.20	75.02	40.92	72.28
7/13/2022	39.03	75.19	40.81	72.39
8/2/2022	38.72	75.50	40.59	72.61
9/20/2022	36.49	77.73	38.51	74.69
2/7/2023	39.50	74.72	40.13	73.07
8/23/2023	38.85	75.37	41.09	72.11

Figure 18: Groundwater Elevations

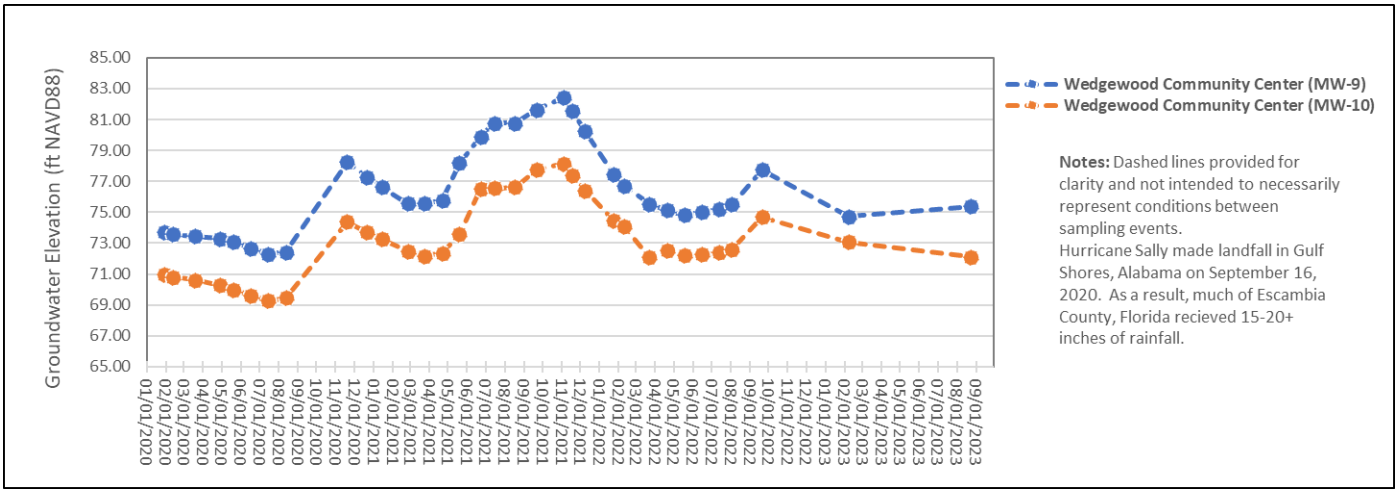


Table 13.1 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Dates: January 2020 - March 2020

			1/29/2020			2/12/2020			3/19/2020		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Metals											
Barium	mg/L	2	0.007 U (EB)	0.033 I	0.017 I	0.007 U (EB)	0.033 I	0.017 I	NS	0.032 I	0.016 I
Boron	mg/L	1.4	0.016 U (EB)	0.025 I	0.016 U	0.016 U (EB)	0.023 I	0.016 U	NS	0.023 I	0.016 U
Iron	mg/L	0.3	0.358 (EB)	0.026 U	0.038 I	0.026 U (EB)	0.026 U	0.026 U	NS	0.026 U	0.026 U
Manganese	mg/L	0.05	0.003 U (EB)	0.027 I	0.004 I	0.003 U (EB)	0.027	0.003 I	NS	0.026	0.003
Mercury	ug/L	2	0.10 U (EB)	0.23	0.10 U	0.10 U (EB)	0.10 U	0.10 U	NS	0.16 I	0.13 I
Sodium	mg/L	160	0.093 U (EB)	> 5.47 L	3.06	0.093 U (EB)	>5.42 L	3.13	NS	> 5.50 L	3.06
Nutirents											
Nitrate/Nitrite (NOx) as N	mg/L	10	0.032 U (EB)	1.03	1.19	0.032 U (EB)	1.08	1.33	NS	1.08	1.26
Nitrate (NO3) as N	mg/L	10	0.032 U (EB)	1.03	1.19	0.032 U (EB)	1.08	1.33	NS	1.08	1.26
Other Parameters											
Total Dissolved Solids	mg/L	500	15 U (EB)	34	34	15 U (EB)	29	11	NS	49	24
Chloride	mg/L	250	2.5 U (EB)	7.6	5.0	2.5 U (EB)	7.7	5.1	NS	7.8	5.3
Hydrogen Sulfide, Unionized	mg/L	0.021[a]	0.10 U J (EB)	0.24 J	0.24 J	0.10 U J (EB)	0.16 J	0.10 U J	NS	0.64 J	0.80 J
Sulfate	mg/L	250	2.5 U (EB)	6.7	2.5 U	2.5 U (EB)	6.9	2.5 U	NS	7.2	2.5 U
Sulfide	mg/L	*	0.32 (EB)	0.24	0.24	0.10 U (EB)	0.16	0.10 U	NS	0.64	0.80

Table 13.2 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Date: April 2020 - June 2020

			4/28/2020			5/19/2020			6/16/2020		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Chloroform	ug/L	70	0.32 U (TB) 0.32 U (EB)	0.32 U	0.32 U	0.32 U (TB)	0.32 U	0.37 I	0.32 U (TB)	0.32 U	0.34 I
Metals											
Barium	mg/L	2	0.007 U (EB)	0.033 I	0.015 I	NS	0.032 I	0.015 I	NS	0.030 I	0.014 I
Boron	mg/L	1.4	0.016 U (EB)	0.020 I	0.016 U	NS	0.024 I	0.016 U	NS	0.023 I	0.016 U
Iron	mg/L	0.3	0.026 U (EB)	0.026 U	0.026 U	NS	0.026 U	0.075 I	NS	0.026 U	0.026 U
Manganese	mg/L	0.05	0.003 U (EB)	0.026	0.003 U	NS	0.026 J	0.003 U J	NS	0.024	0.003 U
Sodium	mg/L	160	0.028 U J (EB)	> 5.93 L J1	3.23 J	NS	> 5.62 L	3.12	NS	> 5.15 L	2.92
Nutirents											
Nitrate/Nitrite (NOx) as N	mg/L	10	0.032 U (EB)	1.03	1.07	NS	1.06	1.01	NS	1.21	1.01
Nitrate (NO3) as N	mg/L	10	0.032 U (EB)	1.03	1.07	NS	1.06	1.01	NS	1.21	1.01
Other Parameters											
Total Dissolved Solids	mg/L	500	15 U (EB)	42	26	NS	47	44	NS	40	23 I
Chloride	mg/L	250	2.5 U (EB)	7.9 J	5.5	NS	8.2 J	6.0	NS	8.1 J	6.0
Hydrogen Sulfide, Unionized	mg/L	0.021[a]	0.39 J (EB)	0.10 U J	0.10 U J	NS	0.48 J	0.80 J	NS	0.56 J	0.63 J
Sulfate	mg/L	250	2.5 U (EB)	7.1 J	2.5 U	NS	7.0 J	2.5 U	NS	7.0 J	2.5 U
Sulfide	mg/L	*	0.40 (EB)	0.10 U	0.10 U	NS	0.48	0.80	NS	0.56	0.64

Notes:
DW = Drinking Water regulations per Chapter 62-550.828 Florida Administrative Code
GCTL = Groundwaer Cleanup Target Levels per Chapter 62-777 Florida Administrative Code
* - No Standard established as of Chapter 62-777 Florida Administrative Code
mg/L, ug/L, ng/L = miligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled; NA - Not applicable
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 13.3 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Dates: July 2020 - November 2020

			7/15/2020			8/12/2020			11/19/2020		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Chloroform	ug/L	70	0.32 U (TB) 0.32 U (EB)	0.32 U	0.34 I	0.32 U (TB)	0.32 U	0.36 I	0.32 U (TB) 0.32 U (EB)	0.32 U	0.32 U
Metals											
Barium	mg/L	2	0.007 U J (EB)	0.029 I J	0.014 I J	NS	0.028 I J	0.013 I J	0.003 U (EB)	0.031	0.014
Boron	mg/L	1.4	0.016 U (EB)	0.021 I	0.016 U	NS	0.021 I J	0.016 J	0.022 U (EB)	0.034 I	0.022 I
Cadmium	mg/L	0.005	0.005 U (EB)	0.005 U	0.005 U	NS	0.005 U	0.005 U	0.001 U (EB)	0.001 I	0.001 I
Chromium	mg/L	0.1	0.013 U (EB)	0.013 U	0.013 I	NS	0.013 U	0.021 I	0.005 U (EB)	0.005 U	0.008 I
Iron	mg/L	0.3	0.054 I (EB)	0.033 I	0.026 U	NS	0.034 I J	0.047 I J	0.130 I (EB)	0.075 U	0.075 U
Manganese	mg/L	0.05	0.003 U (EB)	0.024	0.003 U	NS	0.024	0.004 I	0.003 U (EB)	0.022	0.003 U
Sodium	mg/L	160	0.093 U J (EB)	5.80 J	3.23 J	NS	5.56 J	3.16 J	0.92 U (EB)	6.80	3.90
Nutirents											
Nitrate/Nitrite (NOx) as N	mg/L	10	0.032 U (EB)	1.03	0.931	NS	0.991	0.857	0.032 U (EB)	0.861	0.750
Nitrate (NO3) as N	mg/L	10	0.032 U (EB)	1.03	0.931	NS	0.991	0.857	0.032 U (EB)	0.861	0.750
Other Parameters											
Total Dissolved Solids	mg/L	500	15 U (EB)	53	31	NS	49	24 I	15 U V (EB)	29 V	15 I V
Chloride	mg/L	250	2.5 U (EB)	8.2	6.1	NS	8.6	6.6	2.5 U (EB)	8.1	6.0
Hydrogen Sulfide, Unionized	mg/L	0.021[a]	0.48 J (EB)	0.40 J	0.80 J	NS	0.10 U J	0.10 U J	0.39 J (EB)	0.32 J	0.40 J
Sulfate	mg/L	250	2.5 U (EB)	7.2	2.5 U	NS	7.9	2.5 U	2.5 U (EB)	7.7	2.5 U
Sulfide	mg/L	*	0.48 (EB)	0.40	0.80	NS	0.10 U	0.10 U	0.40 (EB)	0.32	0.40

Table 13.4 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Date: December 2020 - February 2021

			12/21/2020			1/14/2021			2/25/2021		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Metals											
Aluminum	mg/L	0.2	NS	0.065 I	0.051 U	0.076 I (EB)	0.094 I	0.051 U	NS	0.110 I	0.058 I
Arsenic	mg/L	0.01	NS	0.003 U	0.003 U	0.003 U (EB)	0.005 I	0.004 I	NS	0.003 U	0.005 I
Barium	mg/L	2	NS	0.030	0.013	0.003 U (EB)	0.032	0.012	NS	0.033	0.011
Boron	mg/L	1.4	NS	0.026 I	0.022 U	0.022 U (EB)	0.027 I	0.022 U	NS	0.029 I	0.022 U
Cadmium	mg/L	0.005	NS	0.001 I	0.001 U	0.001 U (EB)	0.001 U	0.001 U	NS	0.001 U	0.001 U
Iron	mg/L	0.3	NS	0.075 U	0.075 U	0.270 (EB)	0.075 U	0.100 I	NS	0.075 U	0.075 U
Lead	mg/L	0.015	NS	0.002 U	0.002 U	0.002 U (EB)	0.002 U	0.002 U	NS	0.003 I	0.003 I
Manganese	mg/L	0.05	NS	0.022	0.003 U	0.003 U (EB)	0.046	0.004 I	NS	0.026	0.003 U
Sodium	mg/L	160	NS	6.20	3.80	0.92 U (EB)	6.00	3.60	NS	6.40	3.60
Nutirents											
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.811	0.690	0.032 U (EB)	0.820	0.550	NS	0.717	0.486
Nitrate (NO3) as N	mg/L	10	NS	0.811	0.690	0.032 U (EB)	0.820	0.550	NS	0.717	0.486
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	40	27	15 U (EB)	34	16 I	NS	34	15 U
Chloride	mg/L	250	NS	7.6	5.8	2.5 U (EB)	7.5 J	6.0	NS	7.6	5.6
Hydrogen Sulfide, Unionized	mg/L	0.021[a]	NS	0.16 J	0.16 J	0.24 J (EB)	0.32 J	0.40 J	NS	0.10 U J	0.16 J
Sulfate	mg/L	250	NS	7.7	2.5 U	2.5 U (EB)	7.6 J	2.5 U	NS	7.7	2.5 U
Sulfide	mg/L	*	NS	0.16	0.16	0.24 (EB)	0.32 J	0.40	NS	0.10 U	0.16

Notes:

DW = Drinking Water regulations per Chapter 62-550.828 Florida Administrative Code

GCTL = Groundwaer Cleanup Target Levels per Chapter 62-777 Florida Administrative Code

* - No Standard established as of Chapter 62-777 Florida Administrative Code

mg/L, ug/L, ng/L = miligrams, micrograms, nanograms per Liter

Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).

NS - Not sampled; NA - Not applicable

a - The sample specific detection limit does not support the regulatory requirement.

b - Criteria based on monthly average.

d - Criteria based on annual average.

A - Value reported is the arithmetic mean (average) of two or more determinations.

B - Based on colony counts outside the method specified range.

C - See case narrative (comments).

D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").

H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.

I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty

J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.

K - Off-scale low. Actual value is less than the value given.

L - Off-scale high. Actual value is known to be greater than the value given.

M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.

N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).

O - Sample taken but analysis lost, invalidated, or not performed.

Q - Sample held beyond method-specified holding time.

U - Compound was analyzed for but not detected (greyed out text).

V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.

Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.

Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).

? - Data are rejected and should not be used.

Table 13.5 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Dates: March 2021 - May 2021

			3/24/2021			4/22/2021			5/19/2021		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Metals											
Aluminum	mg/L	0.2	NS	0.055 I	0.051 U	0.025 U (EB)	0.027 I	0.025 U	NS	0.025 U	0.025 U
Arsenic	mg/L	0.01	NS	0.005 I	0.003 U	0.004 U (EB)	0.004 U	0.004 U	NS	0.004 U	0.004 U
Barium	mg/L	2	NS	0.034	0.010	0.002 U (EB)	0.029	0.009	NS	0.028	0.009
Boron	mg/L	1.4	NS	0.030 I	0.022 U	0.016 U (EB)	0.021	0.016 U	NS	0.020 I	0.016 U
Iron	mg/L	0.3	NS	0.075 U	0.075 U	0.012 U (EB)	0.012	0.019 I	NS	0.012 U	0.012 U
Lead	mg/L	0.015	NS	0.003 I	0.002 U	0.003 U (EB)	0.003 U	0.003 U	NS	0.003 U	0.003 U
Manganese	mg/L	0.05	NS	0.027	0.003 U	0.002 U (EB)	0.024	0.002 I	NS	0.024	0.002 U
Sodium	mg/L	160	NS	6.30	3.60	0.191 U (EB)	4.58	2.77	NS	4.25	2.71
Nutirents											
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.686	0.481	0.032 U (EB)	0.650	0.525	NS	0.648	0.594
Nitrate (NO3) as N	mg/L	10	NS	0.686	0.481	0.032 U (EB)	0.650	0.525	NS	0.648	0.594
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	47	15 U	15 U (EB)	35	27	NS	41	30
Chloride	mg/L	250	NS	11.0	5.7	1.4 U (EB)	8.3	5.0	NS	7.6	4.8
Sulfate	mg/L	250	NS	6.0	1.4 U	1.4 U (EB)	7.3	1.4 U	NS	7.3	1.4 U

Table 13.6 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Date: June 2021 - August 2021

			6/23/2021			7/15/2021			8/17/2021		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Toluene	ug/L	40	0.41 U (TB)	0.57 I V	0.85 I V	0.41 U (TB) 0.41 U (EB)	0.41 U	0.41 U	0.41 U (TB)	0.41 U	0.41 U
Xylenes, Total	ug/L	20	1.6 U (TB)	1.6 U	1.8 I	1.6 U (TB) 1.6 U (EB)	1.6 U	1.6 U	1.6 U (TB)	1.6 U	1.6 U
Metals											
Aluminum	mg/L	0.2	NS	0.031 I	0.025 U	NS	0.035 I	0.025 U	NS	0.025 U	0.025 U
Barium	mg/L	2	NS	0.027	0.010	NS	0.029	0.010	NS	0.026	0.012
Boron	mg/L	1.4	NS	0.016 U J	0.016 U J	NS	0.016 U J	0.016 U J	NS	0.019 I	0.016 U
Iron	mg/L	0.3	NS	0.012 U	0.012 U	NS	0.056	0.012 U	NS	0.012 U	0.012 U
Manganese	mg/L	0.05	NS	0.023	0.002 U	NS	0.024	0.002 U	NS	0.023 V	0.002 U
Sodium	mg/L	160	NS	4.30	2.68	NS	4.26	2.63	NS	4.43	2.92
Nutirents											
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.637	0.570	NS	0.621	0.633	NS	0.574	0.728
Nitrate (NO3) as N	mg/L	10	NS	0.637	0.570	NS	0.621	0.633	NS	0.574	0.728
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	33	21 I	NS	27	23 I	NS	51	17 I
Chloride	mg/L	250	NS	7.4	4.8	1.4 U (EB)	7.3	5	NS	7.3	5.2
Sulfate	mg/L	250	NS	6.7	1.4 U	1.4 U (EB)	5.2	1.4 U	NS	7.8	1.4 U

Notes:

DW = Drinking Water regulations per Chapter 62-550.828 Florida Administrative Code

GCTL = Groundwaer Cleanup Target Levels per Chapter 62-777 Florida Administrative Code

* - No Standard established as of Chapter 62-777 Florida Administrative Code

mg/L, ug/L, ng/L = miligrams, micrograms, nanograms per Liter

Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).

NS - Not sampled; NA - Not applicable

a - The sample specific detection limit does not support the regulatory requirement.

b - Criteria based on monthly average.

d - Criteria based on annual average.

A - Value reported is the arithmetic mean (average) of two or more determinations.

B - Based on colony counts outside the method specified range.

C - See case narrative (comments).

D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").

H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.

I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty

J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.

K - Off-scale low. Actual value is less than the value given.

L - Off-scale high. Actual value is known to be greater than the value given.

M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.

N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).

O - Sample taken but analysis lost, invalidated, or not performed.

Q - Sample held beyond method-specified holding time.

U - Compound was analyzed for but not detected (greyed out text).

V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.

Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.

Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).

? - Data are rejected and should not be used.

Table 13.7 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Dates: September 2021 - November 2021

			9/21/2021			11/3/2021			11/17/2021		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Metals											
Aluminum	mg/L	0.2	NS	0.025 U	0.025 U	NS	0.025 U	0.025 U	NS	0.028 I	0.025 U
Barium	mg/L	2	NS	0.026	0.012	NS	0.027	0.011	NS	0.028	0.012
Boron	mg/L	1.4	NS	0.018 I	0.016 U	NS	0.020 J	0.016 U J	NS	0.021	0.016 U
Iron	mg/L	0.3	NS	0.012 U	0.012 U	NS	0.012 U	0.012 U	NS	0.020 I	0.012 U
Manganese	mg/L	0.05	NS	0.022 I V	0.002 U	NS	0.022	0.002 U	NS	0.024	0.002 U
Sodium	mg/L	160	NS	4.45	3.08	NS	4.45	2.66	NS	4.63	2.87
Nutirents											
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.590	0.817	NS	0.628	0.821	NS	0.634	1.12
Nitrate (NO3) as N	mg/L	10	NS	0.590	0.817	NS	0.628	0.821	NS	0.634	1.12
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	73	46	NS	27	15 U	NS	42	27 I
Chloride	mg/L	250	NS	9.9	6	1.4 U (EB)	7.2	4.8	NS	7.3	4.8
Sulfate	mg/L	250	NS	6.9	1.4 U	1.4 U (EB)	7.1	1.4 U	NS	6.9	1.4 U

Table 13.8 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Date: December 2021 - February 2022

			12/8/2021			1/24/2022			2/9/2022		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Metals											
Aluminum	mg/L	0.2	NS	0.025 U	0.025 U	NS	0.025 U	0.025 U	NS	0.037 I	0.025 U
Barium	mg/L	2	NS	0.025	0.014	NS	0.026	0.014	NS	0.031	0.017
Boron	mg/L	1.4	NS	0.020 I	0.016 U	NS	0.021	0.016 U	NS	0.025 I	0.016 U
Iron	mg/L	0.3	NS	0.024 I	0.012 U	NS	0.012 U J	0.012 U J	NS	0.012 U	0.012 U
Manganese	mg/L	0.05	NS	0.019	0.002 I	NS	0.024	0.002 I	NS	0.027	0.003 I
Sodium	mg/L	160	NS	4.52	3.05	NS	4.05	2.87	NS	4.57	3.20
Nutirents											
Ammonia	mg/L	2.8	NS	0.024 U	0.024 U	NS	0.043 I	0.024 U	0.024 U (EB)	0.024 U	0.032 I
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.697	1.34	NS	0.516	1.36	NS	0.550	1.32
Nitrate (NO3) as N	mg/L	10	NS	0.697	1.34	NS	0.516	1.36	NS	0.55	1.32
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	40	44	NS	30	20	NS	15 U Q	30
Chloride	mg/L	250	NS	9.4	4.9	NS	7.6	5.4	1.4 U (EB)	7.8	5.2
Sulfate	mg/L	250	NS	6.4	1.4 U	NS	6.5	1.4 U	1.4 U (EB)	6.6	1.4 U

Notes:
DW = Drinking Water regulations per Chapter 62-550.828 Florida Administrative Code
GCTL = Groundwaer Cleanup Target Levels per Chapter 62-777 Florida Administrative Code
* - No Standard established as of Chapter 62-777 Florida Administrative Code
mg/L, ug/L, ng/L = miligrams, micrograms, nanograms per Liter
Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).
NS - Not sampled; NA - Not applicable
a - The sample specific detection limit does not support the regulatory requirement.
b - Criteria based on monthly average.
d - Criteria based on annual average.
A - Value reported is the arithmetic mean (average) of two or more determinations.
B - Based on colony counts outside the method specified range.
C - See case narrative (comments).
D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").
H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.
I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty
J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.
K - Off-scale low. Actual value is less than the value given.
L - Off-scale high. Actual value is known to be greater than the value given.
M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.
N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).
O - Sample taken but analysis lost, invalidated, or not performed.
Q - Sample held beyond method-specified holding time.
U - Compound was analyzed for but not detected (greyed out text).
V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.
Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.
Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).
? - Data are rejected and should not be used.

Table 13.9 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Dates: March 2022 - May 2022

			3/23/2022			4/20/2022			5/18/2022		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Benzene	ug/L	1	0.13 U (TB)	0.13 U	NS	0.13 U (TB)	6.1	0.56 I	0.13 U (TB)	0.13 U	0.13 U
Toluene	ug/L	40	0.41 U (TB)	0.41 U	NS	0.41 U (TB)	0.41 U	0.41 U	0.41 U (TB)	0.65 I	0.56 I
Metals											
Aluminum	mg/L	0.2	NS	0.031	0.025 U	NS	0.026 I	0.025 U	NS	0.026 I	0.025 U
Arsenic	mg/L	0.01	NS	0.004 I	0.004 U	NS	0.004 U	0.004 U	NS	0.004 U	0.004 U
Barium	mg/L	2	NS	0.030	0.014	NS	0.027	0.012	NS	0.026	0.011
Boron	mg/L	1.4	NS	0.024	0.016 U	NS	0.021	0.016 U	NS	0.022	0.016 U
Iron	mg/L	0.3	NS	0.012 U	0.012 U	NS	0.016 I	0.012 U	NS	0.012 U	0.012 U
Manganese	mg/L	0.05	NS	0.026	0.003 I	NS	0.025	0.002 U	NS	0.024	0.002 I
Sodium	mg/L	160	NS	4.56	3.02	NS	3.91	2.56	NS	3.97	2.44
Nutirents											
Ammonia	mg/L	2.8	NS	NS	NS	NS	0.024 U	0.024 U	NS	0.024 U	2.2
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.604	1.08	NS	0.576	0.791	NS	0.584	0.679
Nitrate (NO3) as N	mg/L	10	NS	0.604	1.08	NS	0.576	0.791	NS	0.584	0.630
Nitrite (NO2) as N	mg/L	1	NS	0.035 U	0.035 U	NS	0.035 U	0.035 U	NS	0.035 U	0.049 I
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	42	30	NS	32	16 I	NS	42	24 I
Chloride	mg/L	250	NS	9.4	5.4	NS	5.8	3.8	NS	6.9	4.9
Sulfate	mg/L	250	NS	6.6	1.4 U	NS	5.2	1.4 U	NS	6.3	1.4 I

Table 13.10 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Date: June 2022 - August 2022

			6/15/2022			7/13/2022			8/2/2022		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Metals											
Aluminum	mg/L	0.2	NS	0.035 I	0.031 U	NS	0.066 I	0.031 U	NS	0.033 I	0.031 U
Barium	mg/L	2	NS	0.029	0.012	NS	0.030	0.012	NS	0.030	0.012
Boron	mg/L	1.4	NS	0.023	0.016 U	NS	0.021	0.016 U	NS	0.023	0.016 U
Iron	mg/L	0.3	NS	0.022 U	0.022 U	NS	0.022 U	0.022 U	NS	0.022 U	0.081
Manganese	mg/L	0.05	NS	0.025 J	0.002 U J	NS	0.025 J	0.002 U J	NS	0.025 J	0.003 I J
Sodium	mg/L	160	NS	4.47	3.04	NS	4.89	2.99	NS	4.86	2.90 J
Nutirents											
Ammonia	mg/L	2.8	NS	0.024 U	0.024 U	0.024 U (EB)	0.046 I	0.024 U	NS	0.024 U	0.024 U
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.570	0.640	NS	0.599	0.706	NS	0.196 J	0.260 J
Nitrate (NO3) as N	mg/L	10	NS	0.570	0.640	NS	0.599	0.706	NS	0.196	0.260
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	28	21 I	NS	32	19 I	NS	39	23 I
Chloride	mg/L	250	NS	7.1	4.4	1.4 U (EB)	6.5	4.5	NS	6.3	3.5
Hydrogen Sulfide, Unionized	mg/L	0.021[a]	NS	0.89 U	0.89 U	0.89 U (EB)	11	2.1	NS	0.89 U	0.89 U
Sulfate	mg/L	250	NS	5.4	1.4 U	1.4 U (EB)	6	1.4 U	NS	6.4 V	1.6 I V
Sulfide	mg/L	*	NS	0.81 U	0.81 U	0.81 U (EB)	10	2	NS	0.81 U	0.81 U

Notes:

DW = Drinking Water regulations per Chapter 62-550.828 Florida Administrative Code

GCTL = Groundwaer Cleanup Target Levels per Chapter 62-777 Florida Administrative Code

* - No Standard established as of Chapter 62-777 Florida Administrative Code

mg/L, ug/L, ng/L = miligrams, micrograms, nanograms per Liter

Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).

NS - Not sampled; NA - Not applicable

a - The sample specific detection limit does not support the regulatory requirement.

b - Criteria based on monthly average.

d - Criteria based on annual average.

A - Value reported is the arithmetic mean (average) of two or more determinations.

B - Based on colony counts outside the method specified range.

C - See case narrative (comments).

D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").

H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.

I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty

J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.

K - Off-scale low. Actual value is less than the value given.

L - Off-scale high. Actual value is known to be greater than the value given.

M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.

N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).

O - Sample taken but analysis lost, invalidated, or not performed.

Q - Sample held beyond method-specified holding time.

U - Compound was analyzed for but not detected (greyed out text).

V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.

Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.

Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).

? - Data are rejected and should not be used.

Table 13.11 - Groundwater Labortory Results
Summary of Detections by Station and Date
Sample Dates: September 2022 - August 2023

			9/20/2022			2/7/2023			8/23/2023		
Parameter	**Units**	**DW/GCTL**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**	**Sample QC**	**MW-9**	**MW-10**
Volatile Organic Constituents											
Metals											
Aluminum	mg/L	0.2	NS	0.042 I	0.031 U	0.031 U (EB)	0.041 I	0.031 U	0.030 U (EB)	0.047 I	0.030 U
Barium	mg/L	2	NS	0.030	0.015	0.002 U (EB)	0.033	0.013	0.002 U (EB)	0.032	0.014
Boron	mg/L	1.4	NS	0.023	0.016 U	0.016 U (EB)	0.024	0.016 U	0.016 U (EB)	0.025	0.016 U
Sodium	mg/L	160	NS	4.63 J	2.72 J	0.117 U J (EB)	5.32 J	2.15 J	0.117 U J (EB)	> 5.73 L J	> 2.29 L J
Nutirents											
Ammonia	mg/L	2.8	NS	0.024 U	0.14	0.050 U J (EB)	0.050 U J	0.050 U J	0.050 U J (EB)	0.050 U J	0.050 U J
Nitrate/Nitrite (NOx) as N	mg/L	10	NS	0.238 J	1.39 J	0.032 U J (EB)	0.032 U J	0.032 U J	0.032 U (EB)	1.16	0.911
Nitrate (NO3) as N	mg/L	10	NS	0.238	1.39	0.032 U J (EB)	0.032 U J	0.032 U J	0.032 U (EB)	1.16	0.911
Other Parameters											
Total Dissolved Solids	mg/L	500	NS	54 J	24 I J	15 U (EB)	19 I	15 U J	15 U (EB)	56	15 U
Chloride	mg/L	250	NS	6.6	3.5	1.4 U (EB)	7.3	2.6	1.4 U (EB)	7.1	3.3
Hydrogen Sulfide, Unionized	mg/L	0.021[a]	NS	1.1	0.92 U	0.061 U (EB)	0.061 U	0.061 U	0.061 U (EB)	0.061 U	0.061 U
Sulfate	mg/L	250	NS	6.8	1.4 U	1.4 U (EB)	6.3	1.4 U	1.4 U (EB)	4.0 I	1.4 U
Sulfide	mg/L	*	NS	0.99	0.83 U	0.057 U (EB)	0.057 U	0.057 U	0.057 U (EB)	0.057 U	0.057 U

Notes:

DW = Drinking Water regulations per Chapter 62-550.828 Florida Administrative Code

GCTL = Groundwaer Cleanup Target Levels per Chapter 62-777 Florida Administrative Code

* - No Standard established as of Chapter 62-777 Florida Administrative Code

mg/L, ug/L, ng/L = miligrams, micrograms, nanograms per Liter

Sample QC - Possible Quality Control (QC) samples include Trip Blanks (TB) and Equipment Blanks (EB).

NS - Not sampled; NA - Not applicable

a - The sample specific detection limit does not support the regulatory requirement.

b - Criteria based on monthly average.

d - Criteria based on annual average.

A - Value reported is the arithmetic mean (average) of two or more determinations.

B - Based on colony counts outside the method specified range.

C - See case narrative (comments).

D - Measurement was made in the field using approved analytical methods. Used except where code specifies a field measurement (e.g., "Field pH").

H - Value based on field kit determination; results may not be accurate. Field screening test not recognized by FDEP as equivalent to laboratory methods.

I - The reported value is ≥ the Limit of Detection, but less than the Practical Quantitation Limit (Limit of Quantitation), and has less certainty

J - Estimated value; value not accurate. "J" qualifiers may indicate surrogate recovery limits have been exceed, no known QC criterion exists, reported value failed to meet established QC criteria, Sample matrix interference precludes accurate determination, data is questionable due to improper lab or field protocols. Justifications for "J" qualifiers provided in raw data.

K - Off-scale low. Actual value is less than the value given.

L - Off-scale high. Actual value is known to be greater than the value given.

M - Presence of material is verified but not quantified; the actual value is less than the value given. The reported value Limit of Quantitation.

N - Presumptive evidence of presence of material (i.e. identified based on mass spectral library search; presence not confirmed by alternative procedures).

O - Sample taken but analysis lost, invalidated, or not performed.

Q - Sample held beyond method-specified holding time.

U - Compound was analyzed for but not detected (greyed out text).

V - Analyte detected in method blank ≥ Limit of Detection and > 1/10th the concentration in the sample.

Y - The laboratory analysis was from a sample preserved by an alternative, non-standard preservation procedure. Hold-time has not been assessed for this preservation procedure. The data may not be accurate.

Z - Colonies on plate too numerous to count. Result = (>60 CFU/lowest volume used x 100 mL).

? - Data are rejected and should not be used.

Figure 19.1: Benzene – Distribution of Groundwater Results by Station

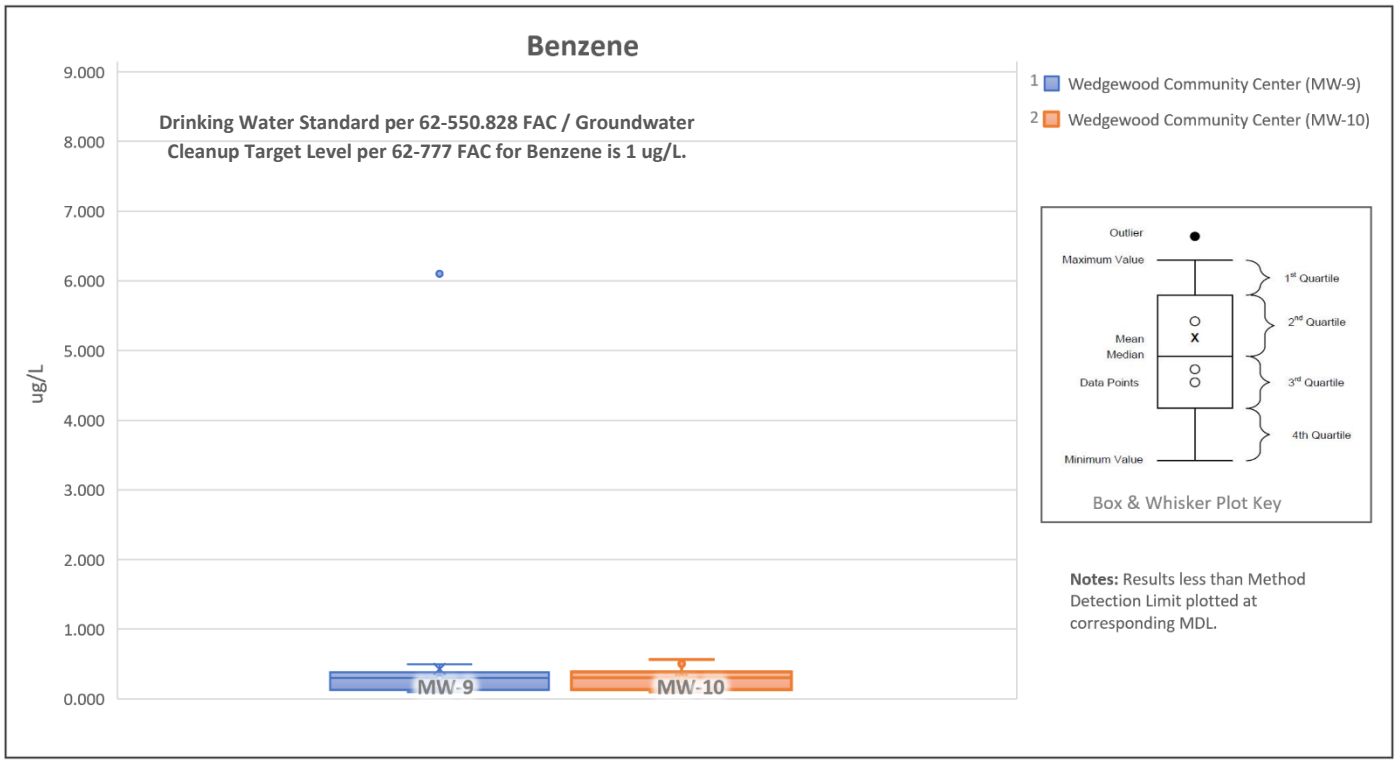


Figure 20.1: Benzene – Groundwater Trends by Monitoring Station & Date

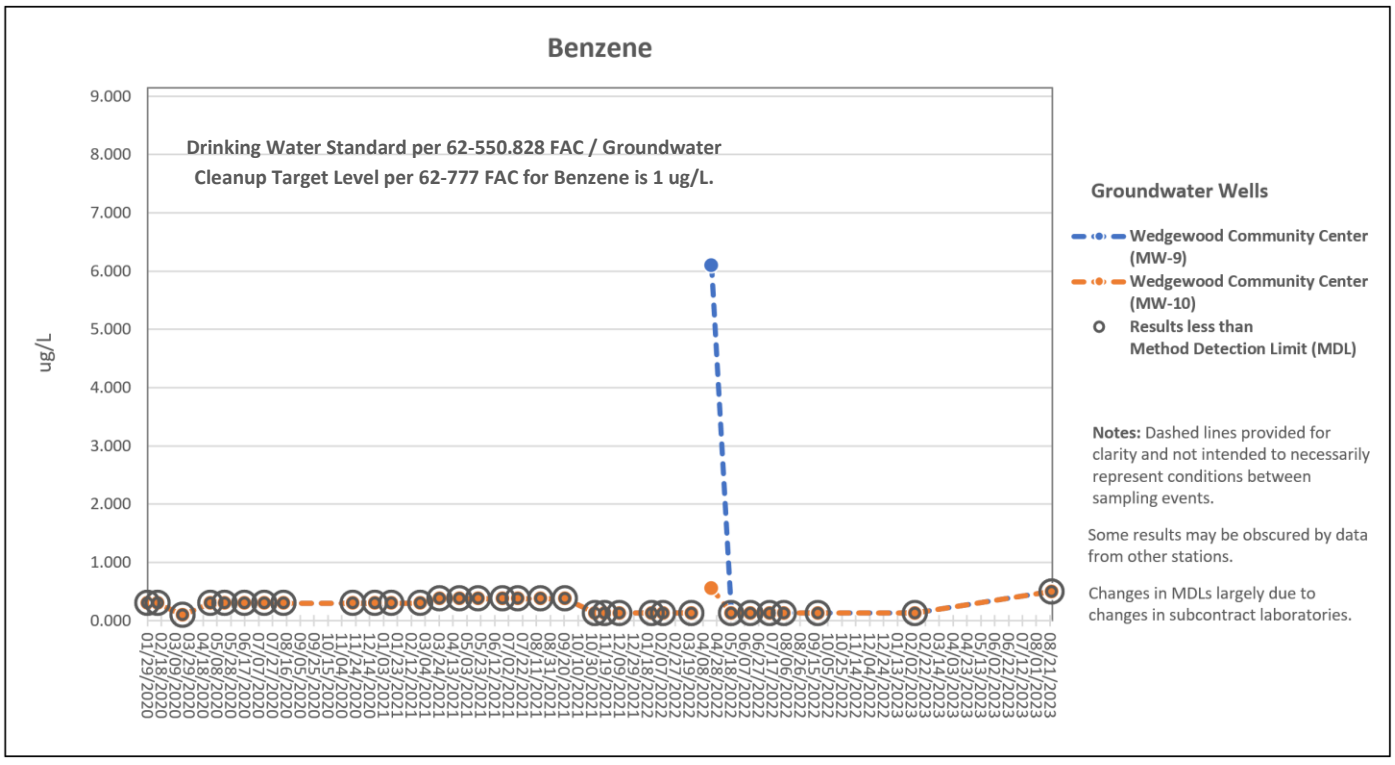


Figure 19.2: Aluminum – Distribution of Groundwater Results by Station

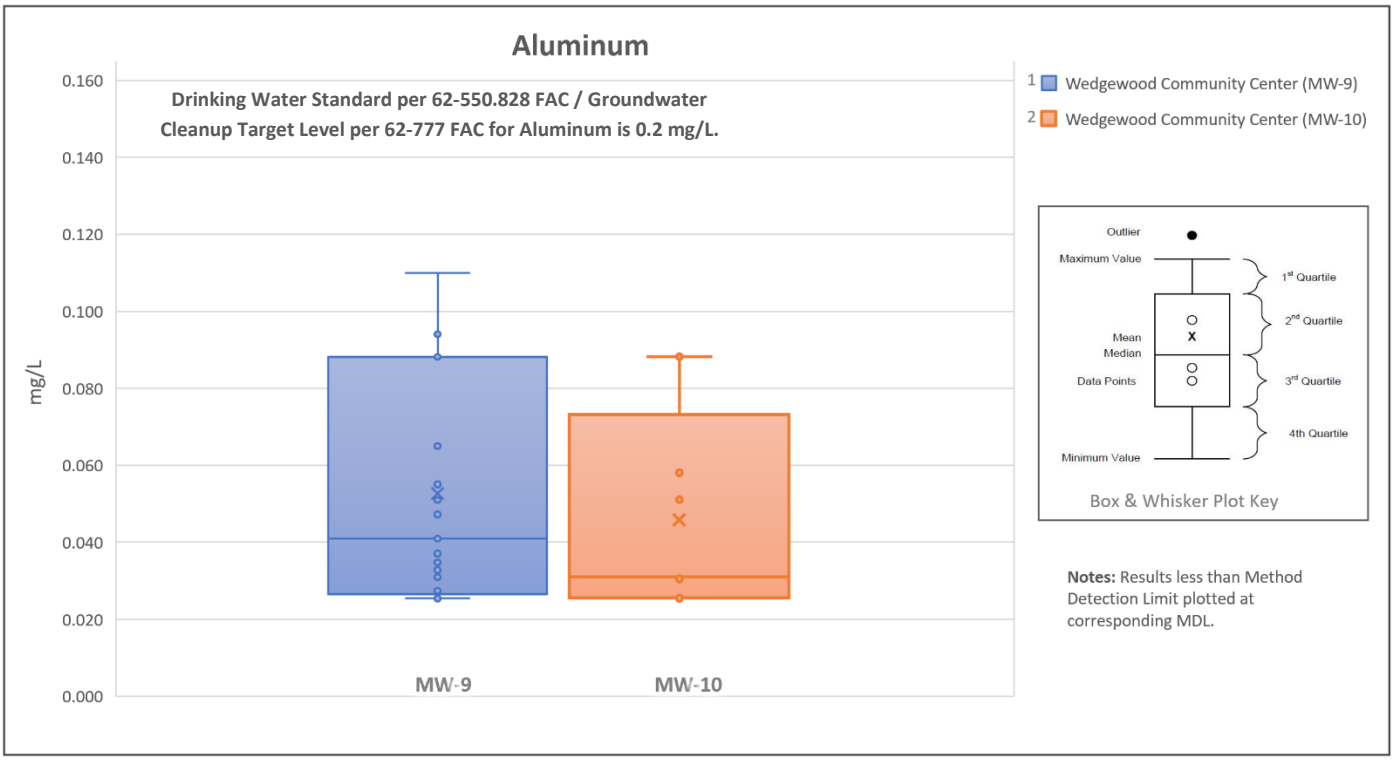


Figure 20.2: Aluminum – Groundwater Trends by Monitoring Station & Date

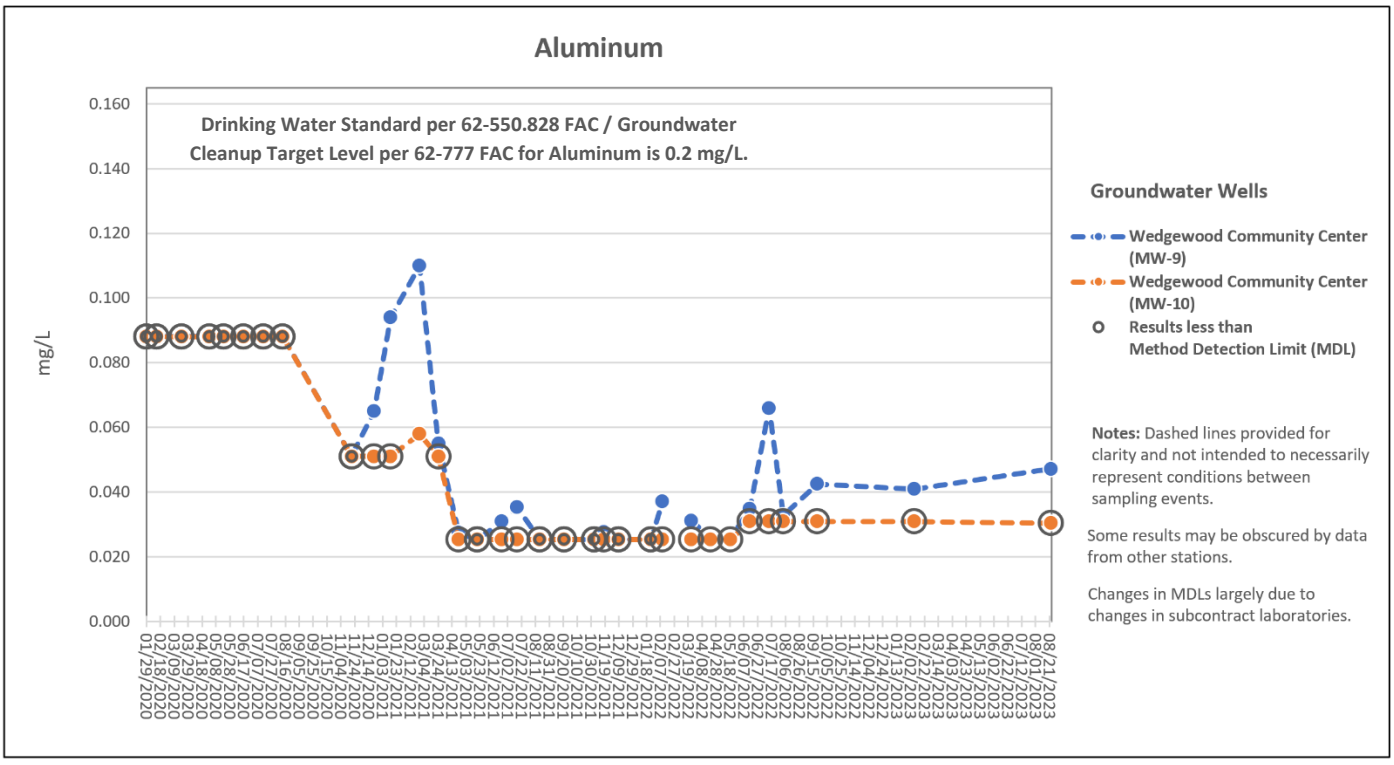


Figure 19.3: Barium – Distribution of Groundwater Results by Station

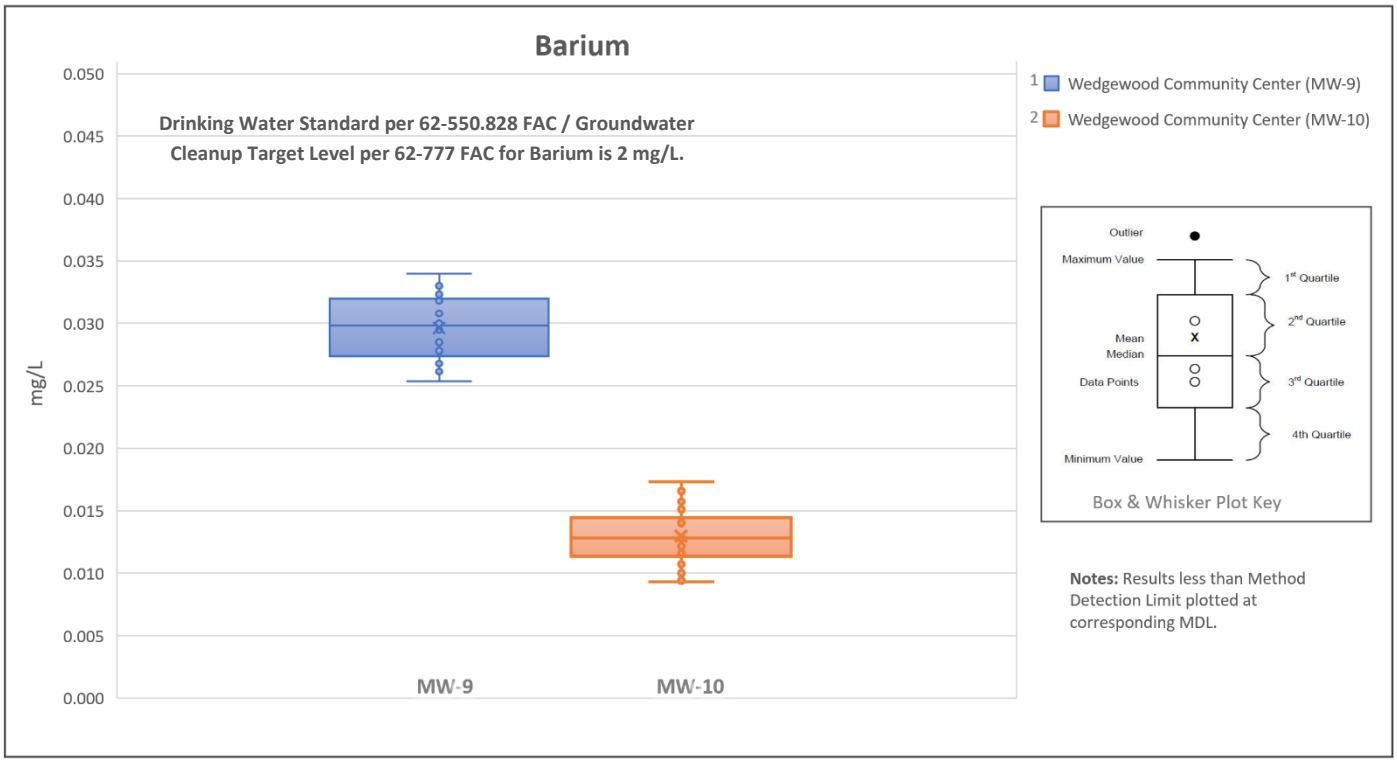


Figure 20.3: Barium – Groundwater Trends by Monitoring Station & Date

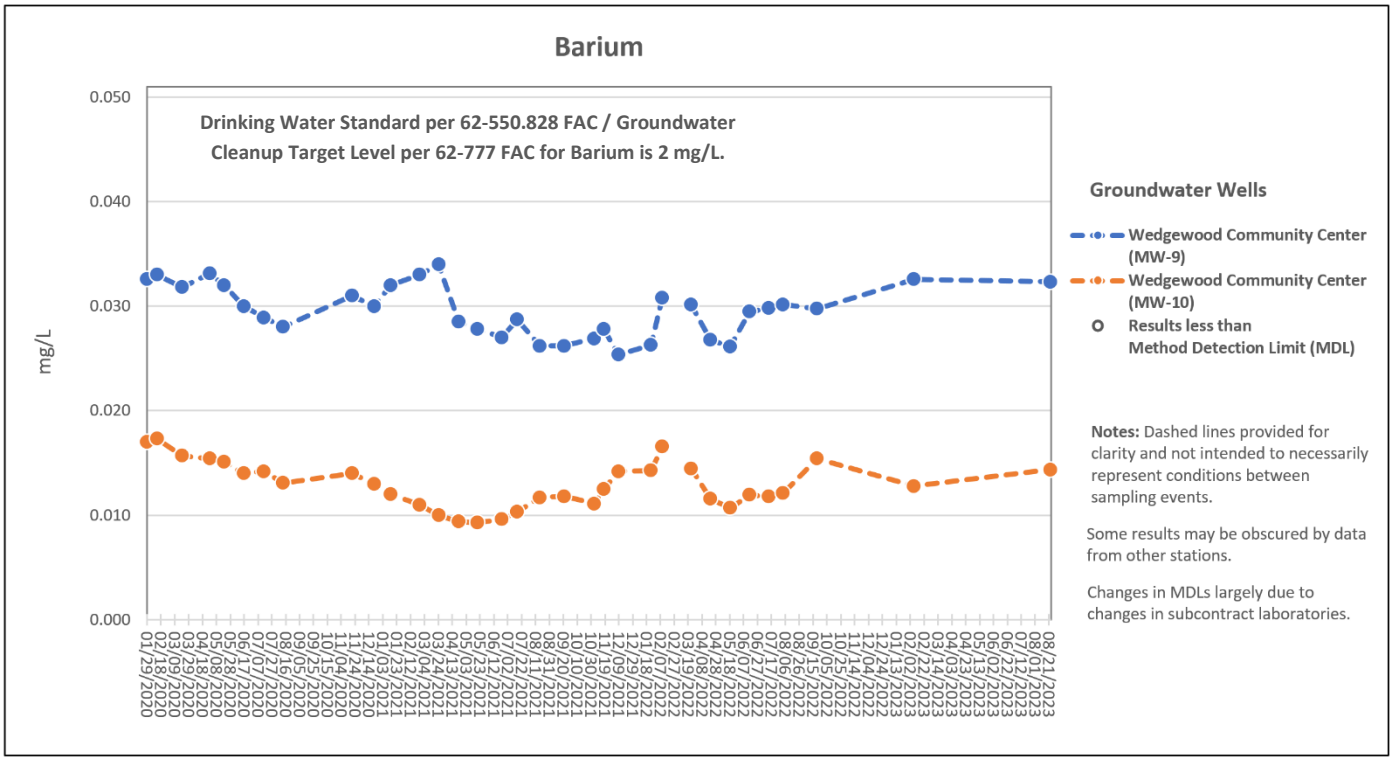


Figure 19.4: Boron – Distribution of Groundwater Results by Station

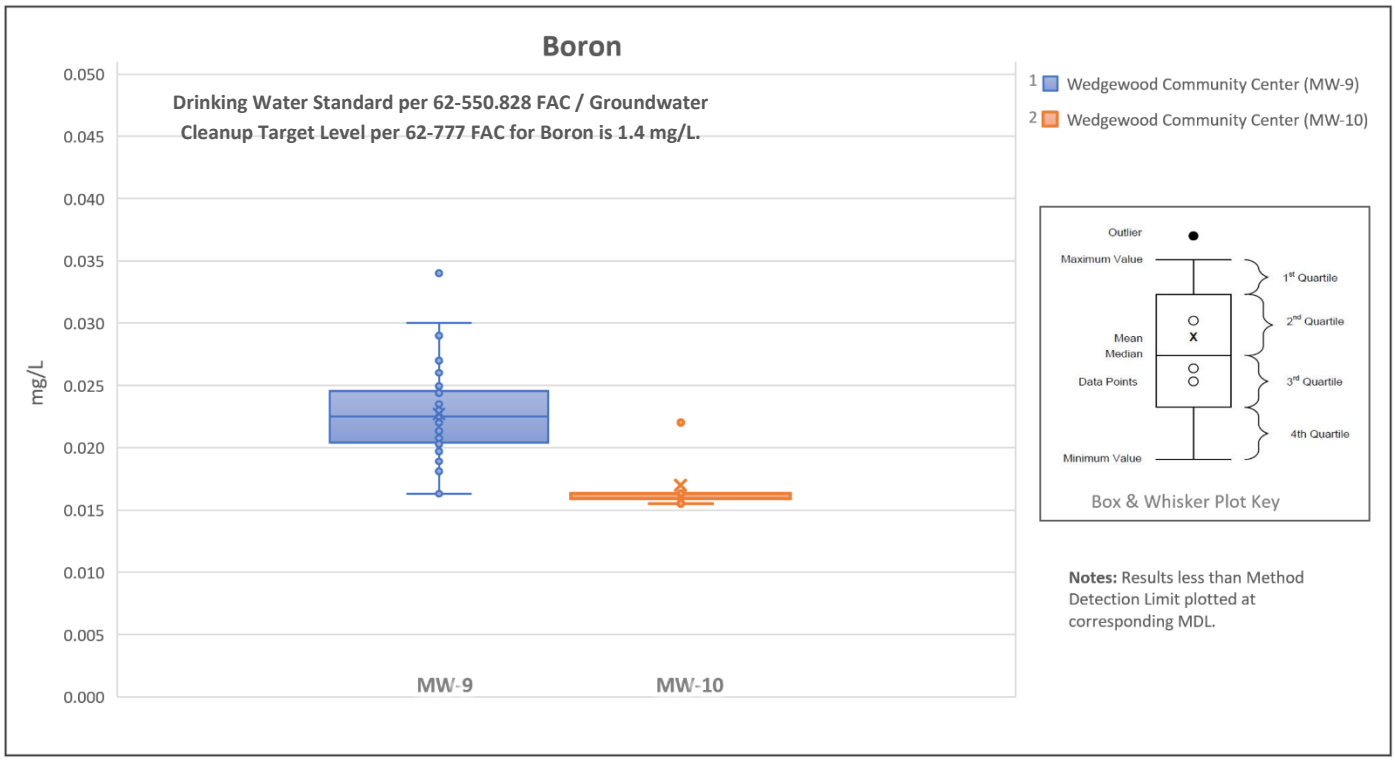


Figure 19.4: Boron – Groundwater Trends by Monitoring Station & Date

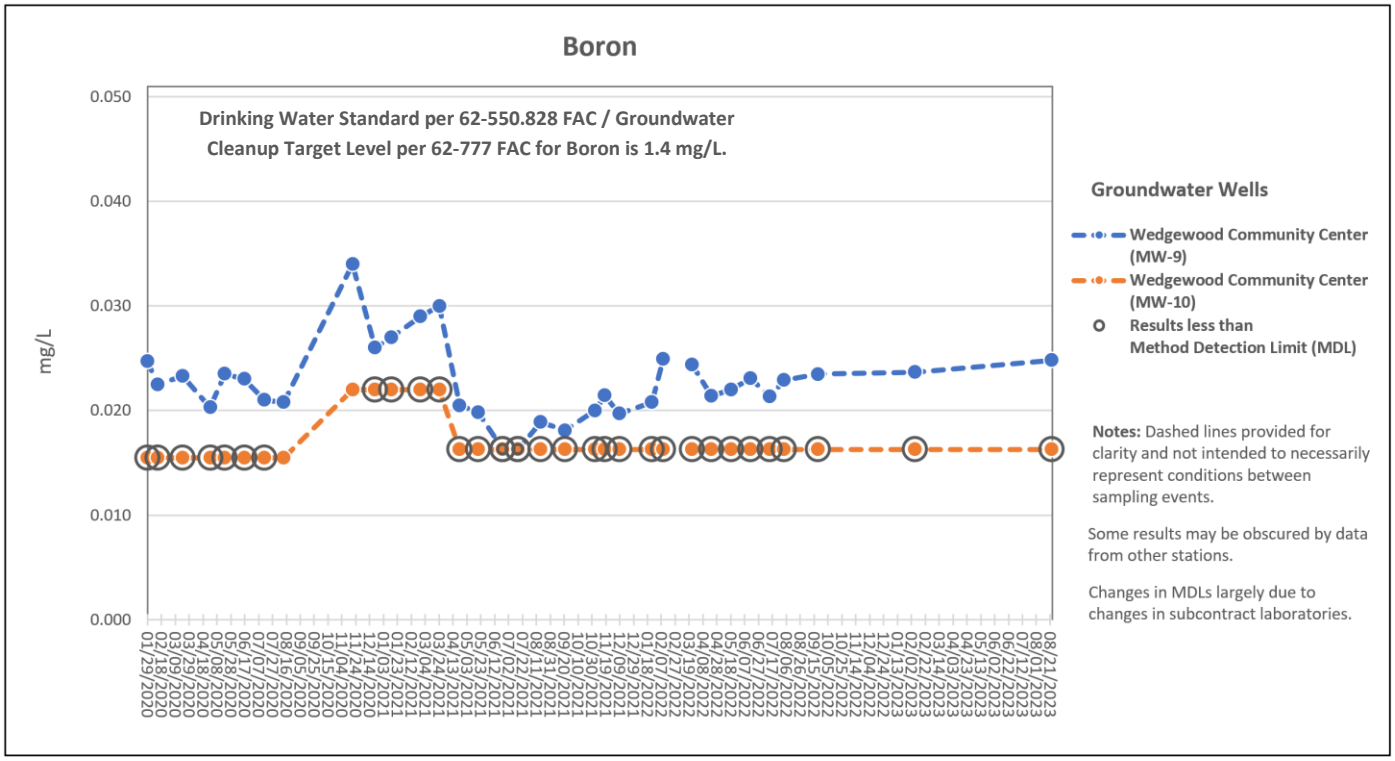


Figure 19.5: Iron – Distribution of Groundwater Results by Station

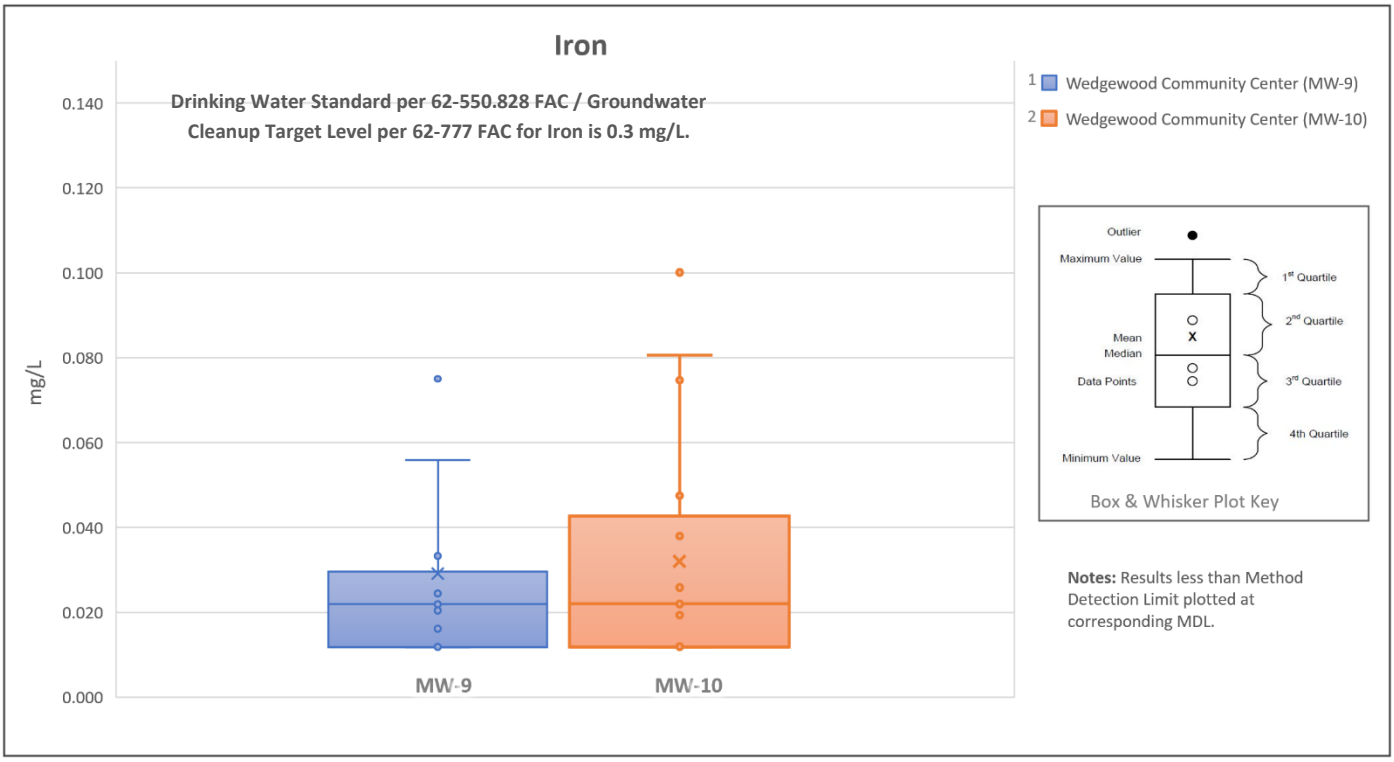


Figure 20.5: Iron– Groundwater Trends by Monitoring Station & Date

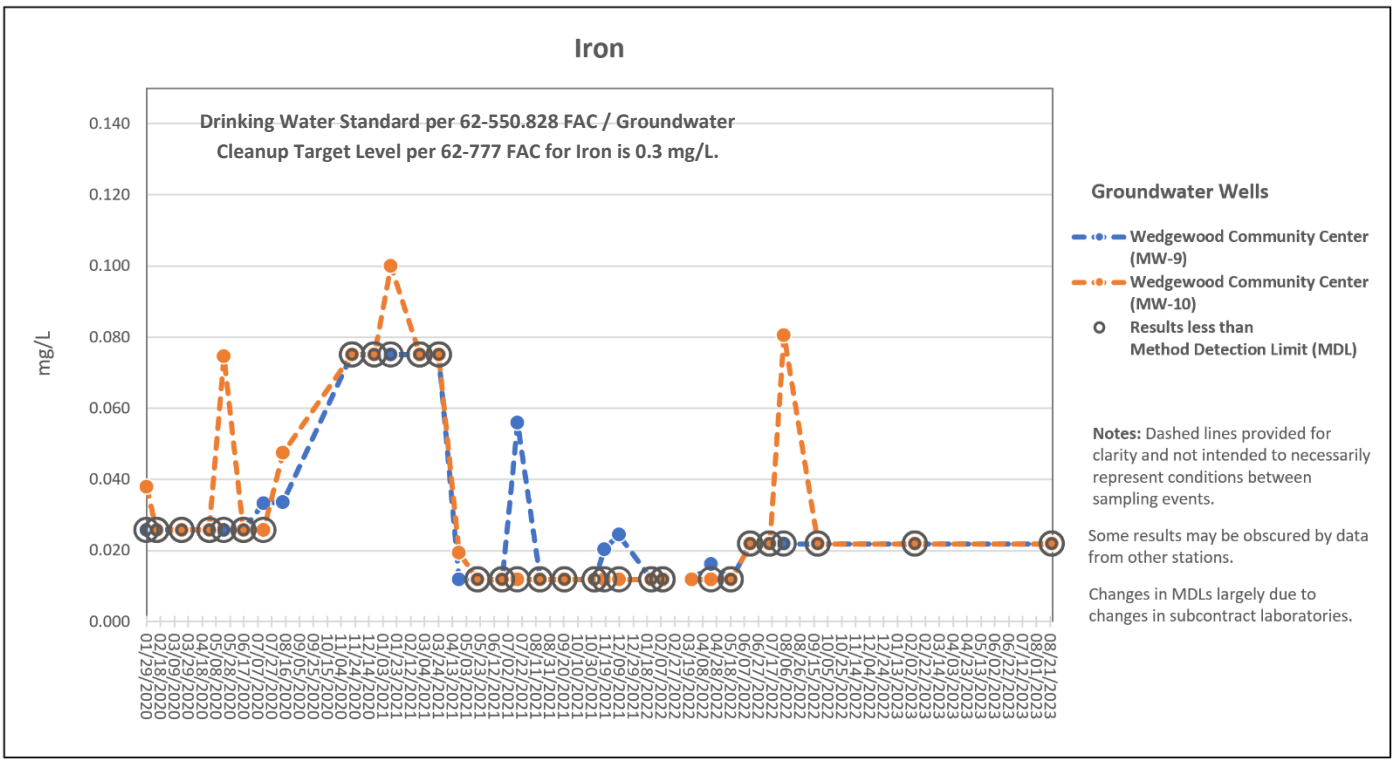


Figure 19.6: Manganese – Distribution of Groundwater Results by Station

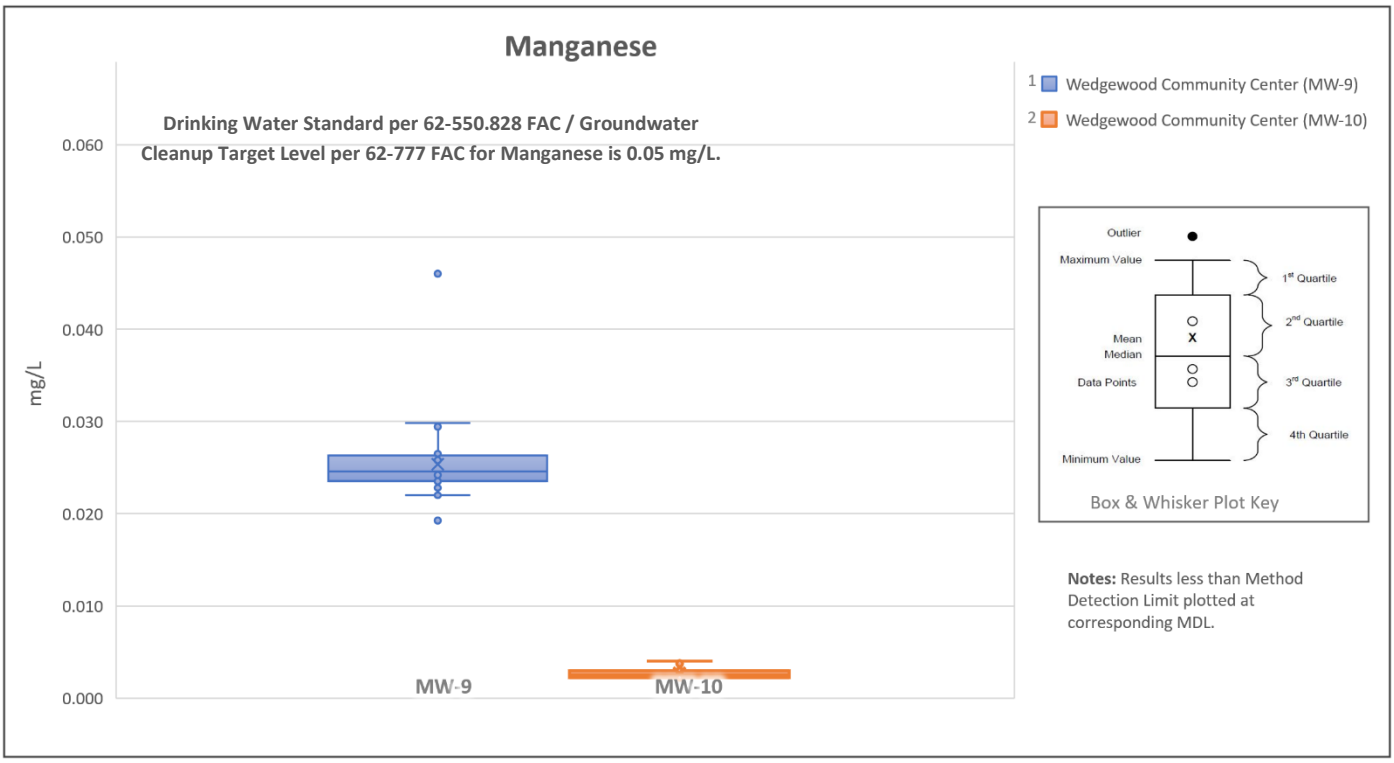


Figure 20.6: Manganese – Groundwater Trends by Monitoring Station & Date

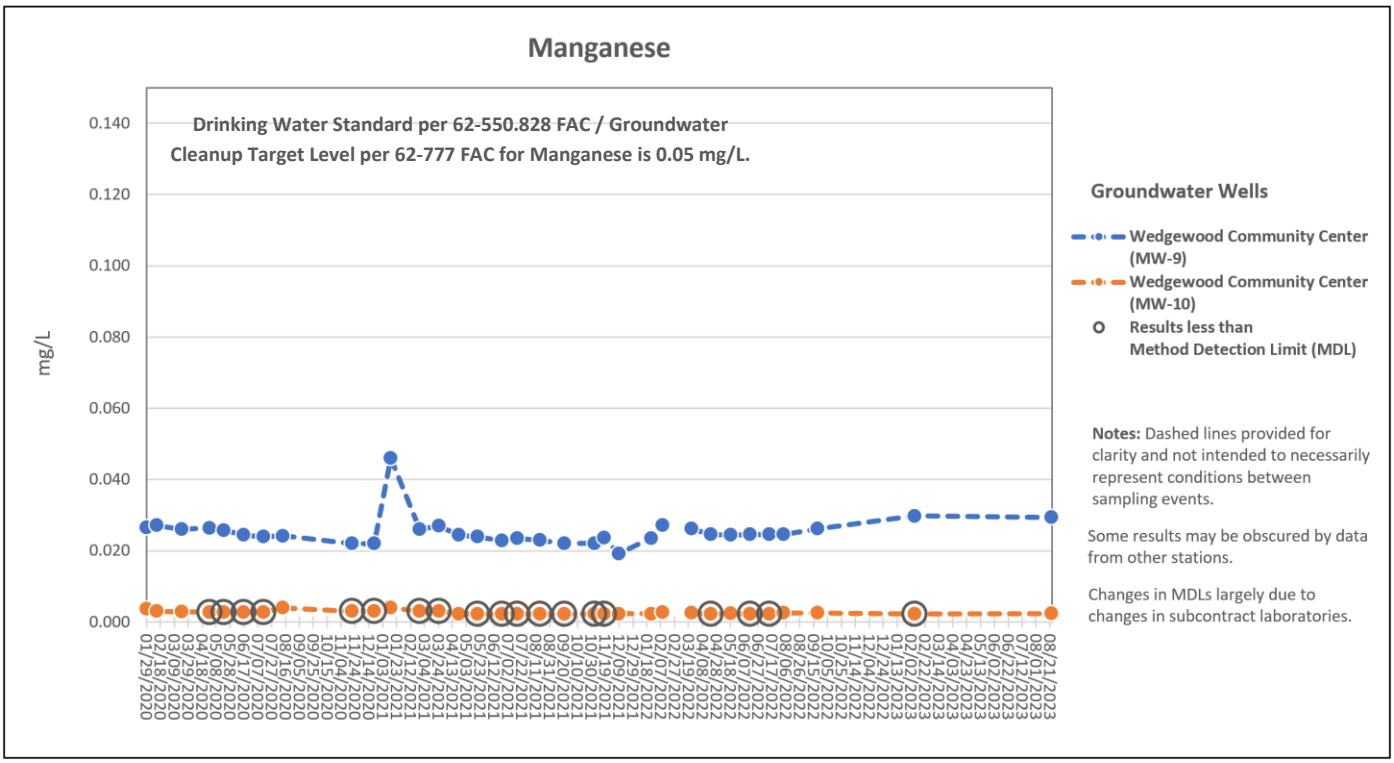


Figure 19.7: Mercury – Distribution of Groundwater Results by Station

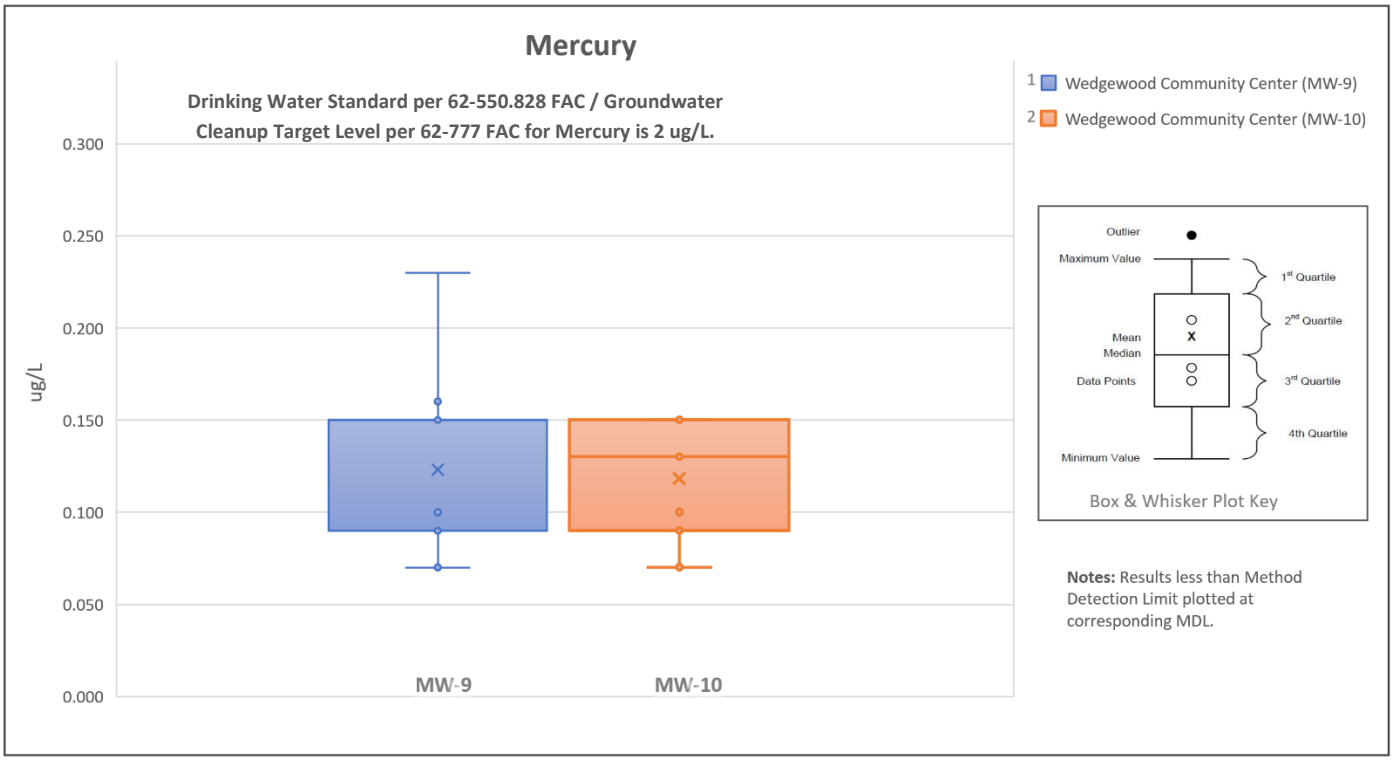


Figure 20.7: Mercury – Groundwater Trends by Monitoring Station & Date

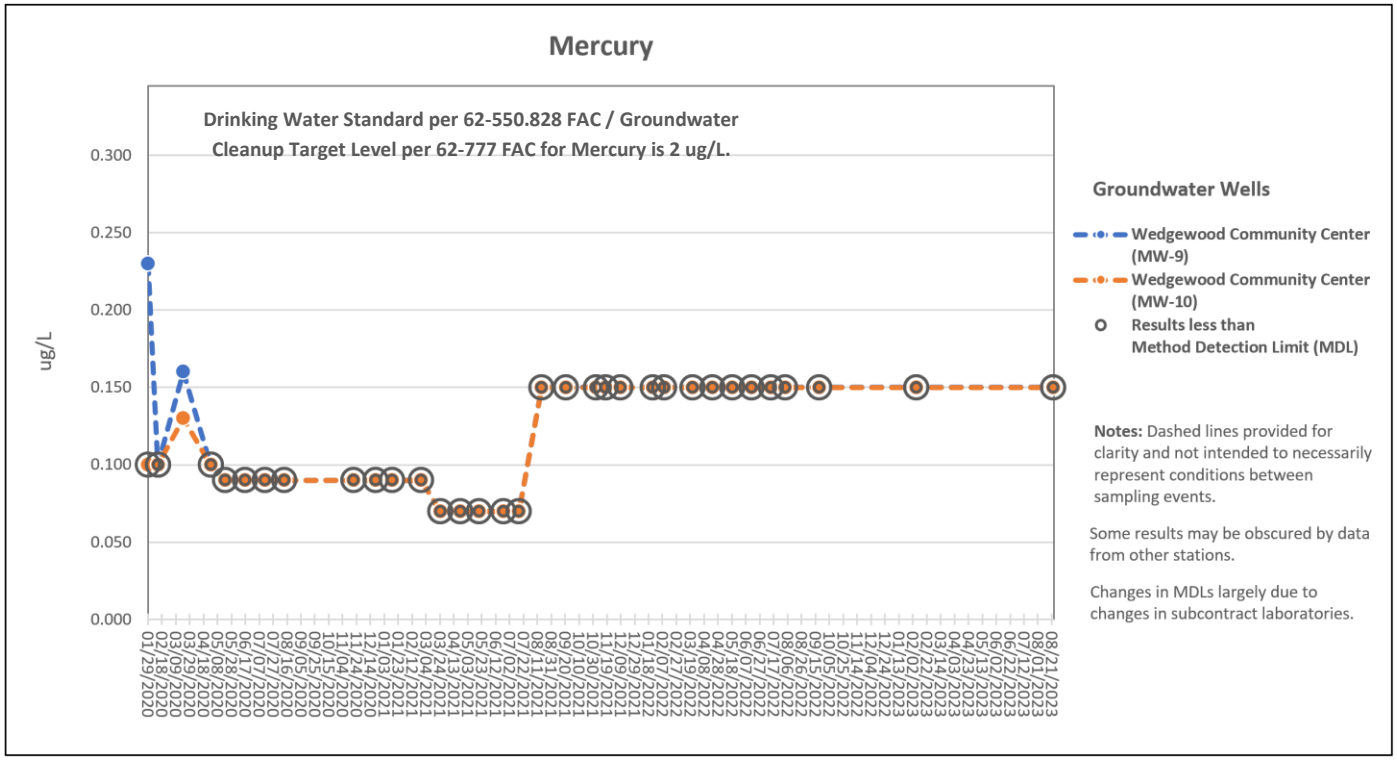


Figure 19.8: Sodium – Distribution of Groundwater Results by Station

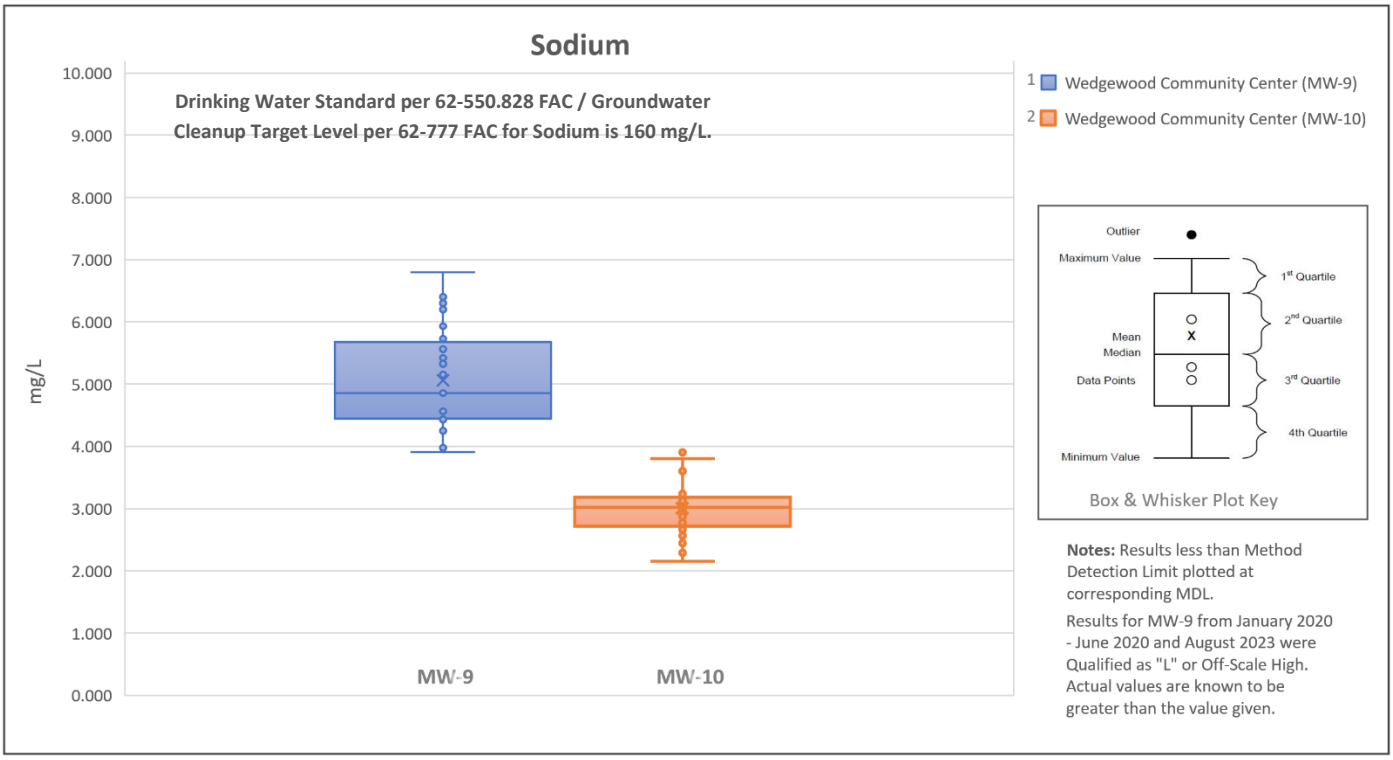


Figure 20.8: Sodium– Groundwater Trends by Monitoring Station & Date

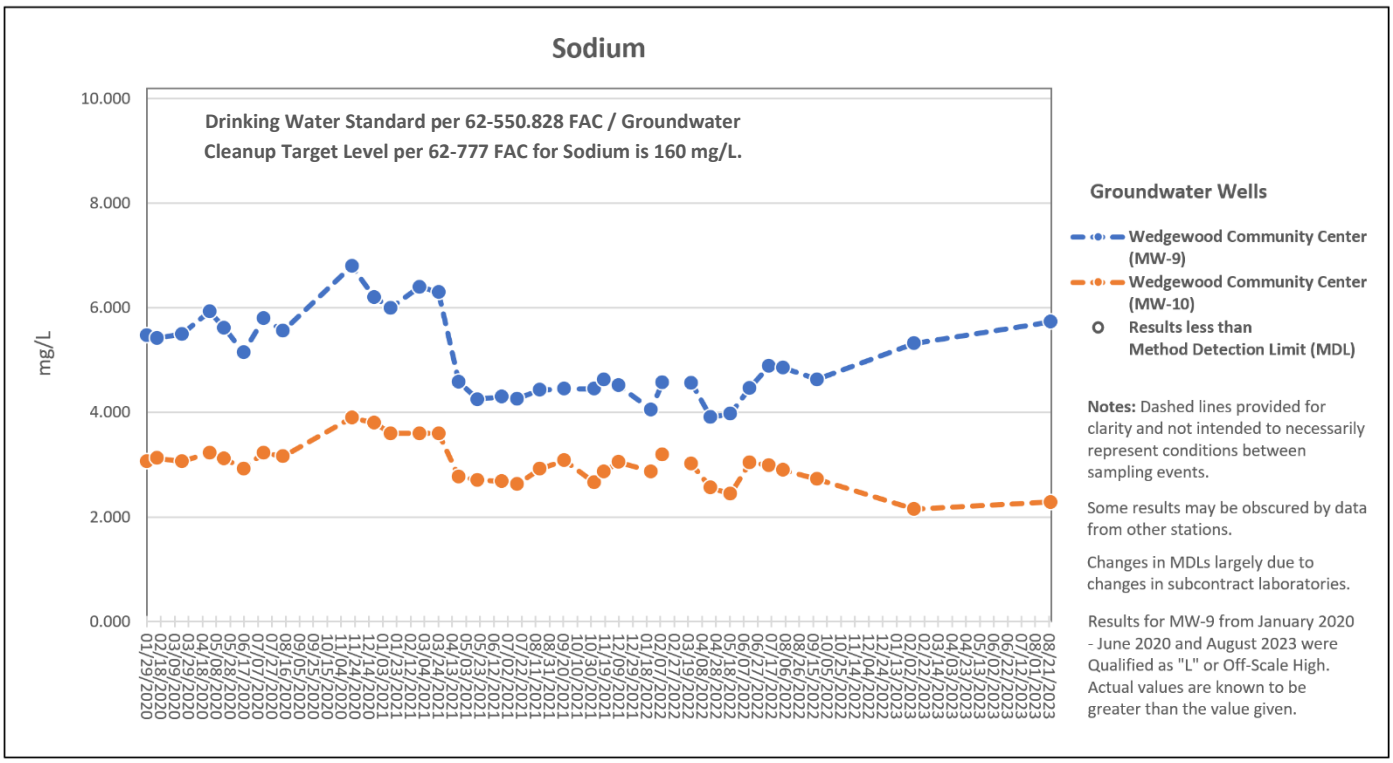


Figure 19.9: Ammonia – Distribution of Groundwater Results by Station

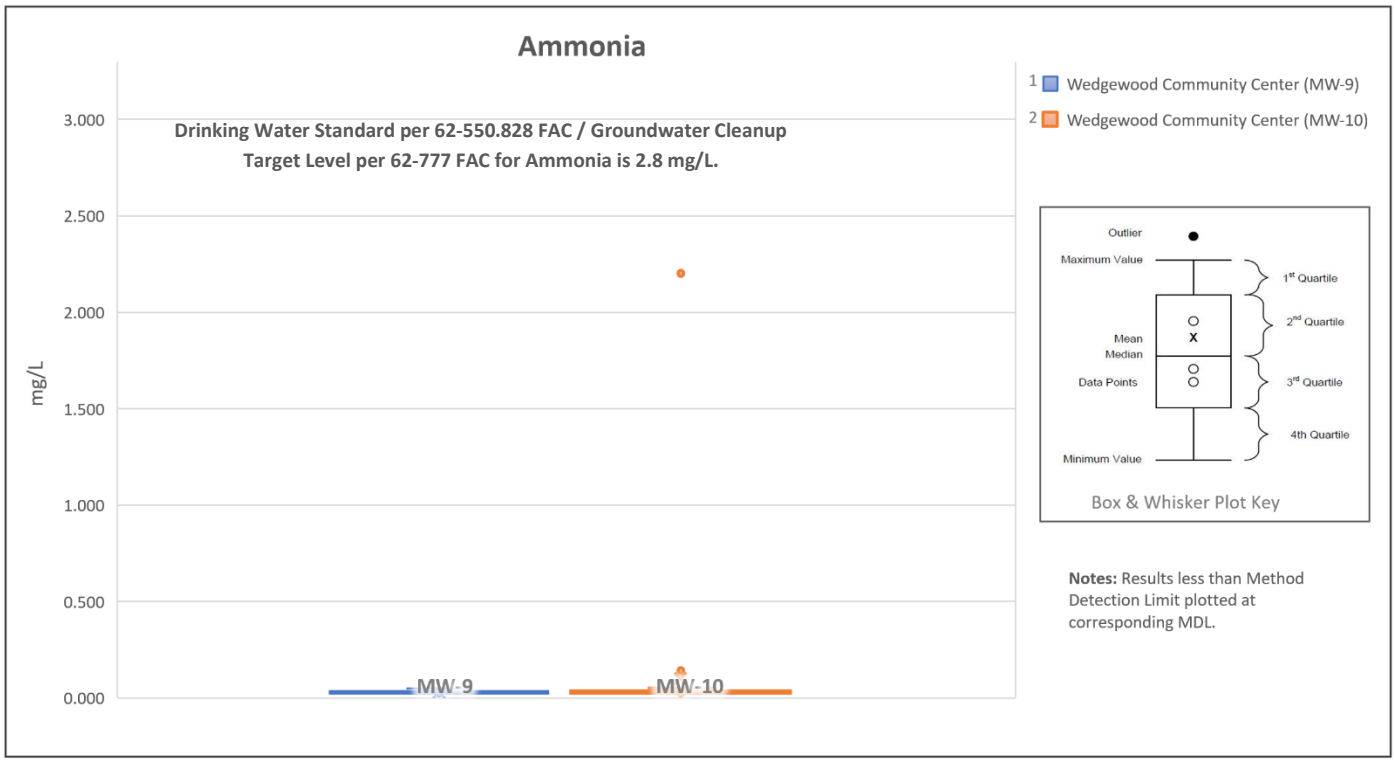


Figure 20.9: Ammonia – Groundwater Trends by Monitoring Station & Date

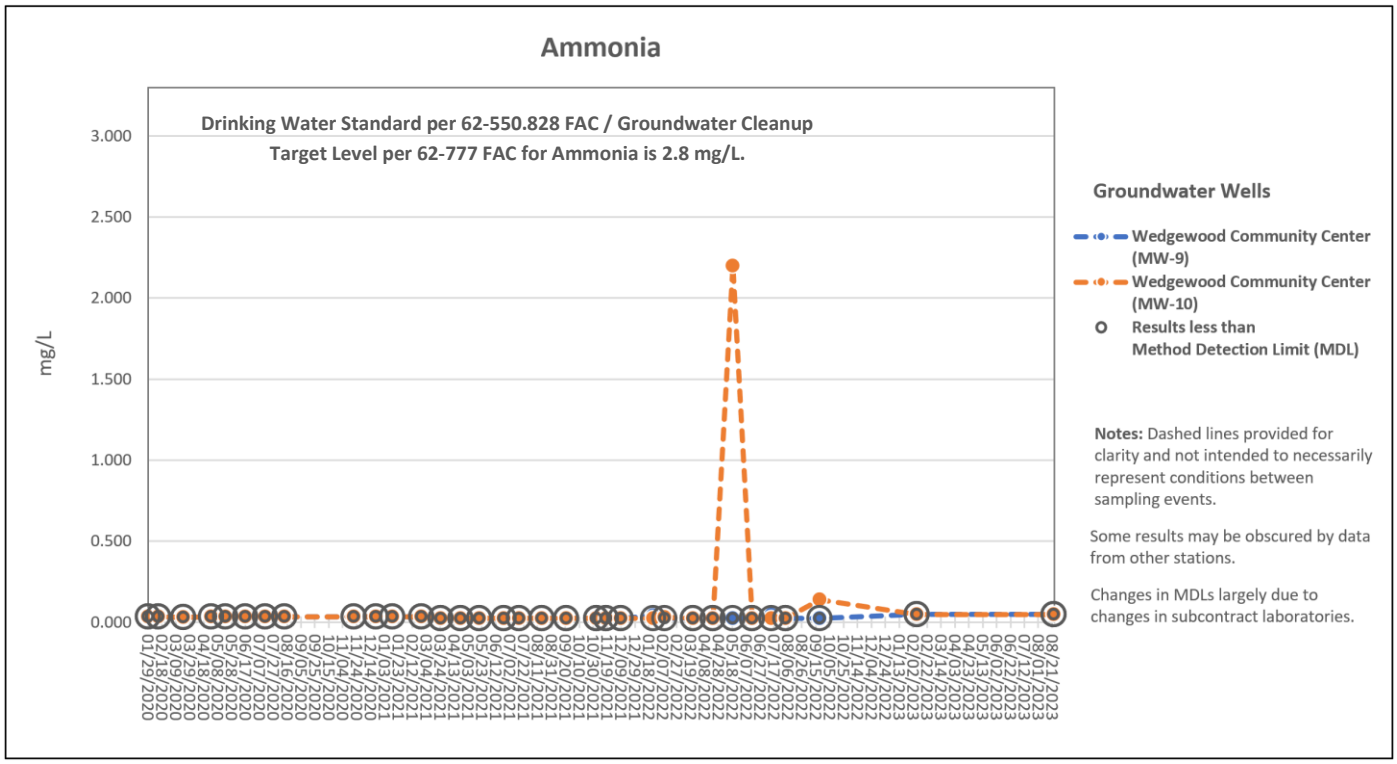


Figure 19.10: Nitrate/Nitrite (NOx) – Distribution of Groundwater Results by Station

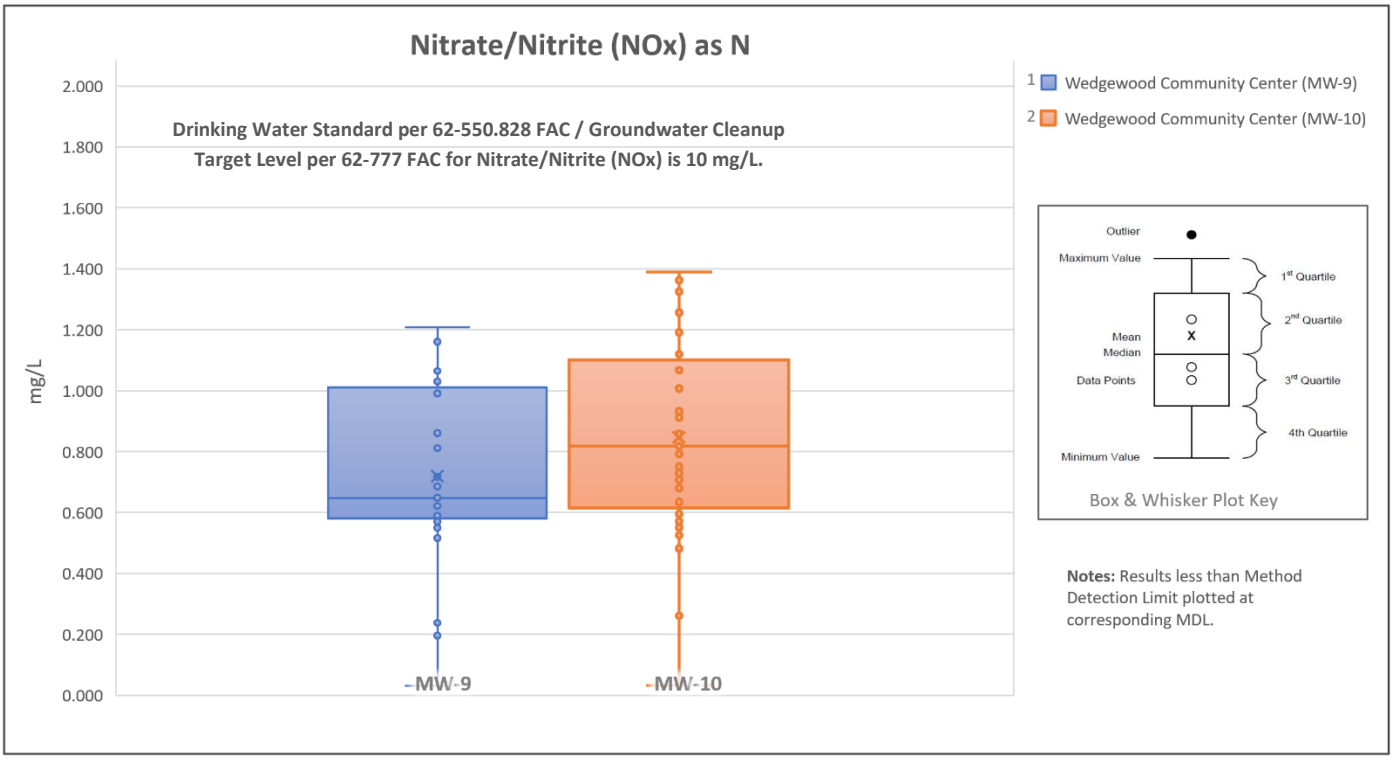


Figure 20.10: Nitrate/Nitrite (NOx) – Groundwater Trends by Monitoring Station & Date

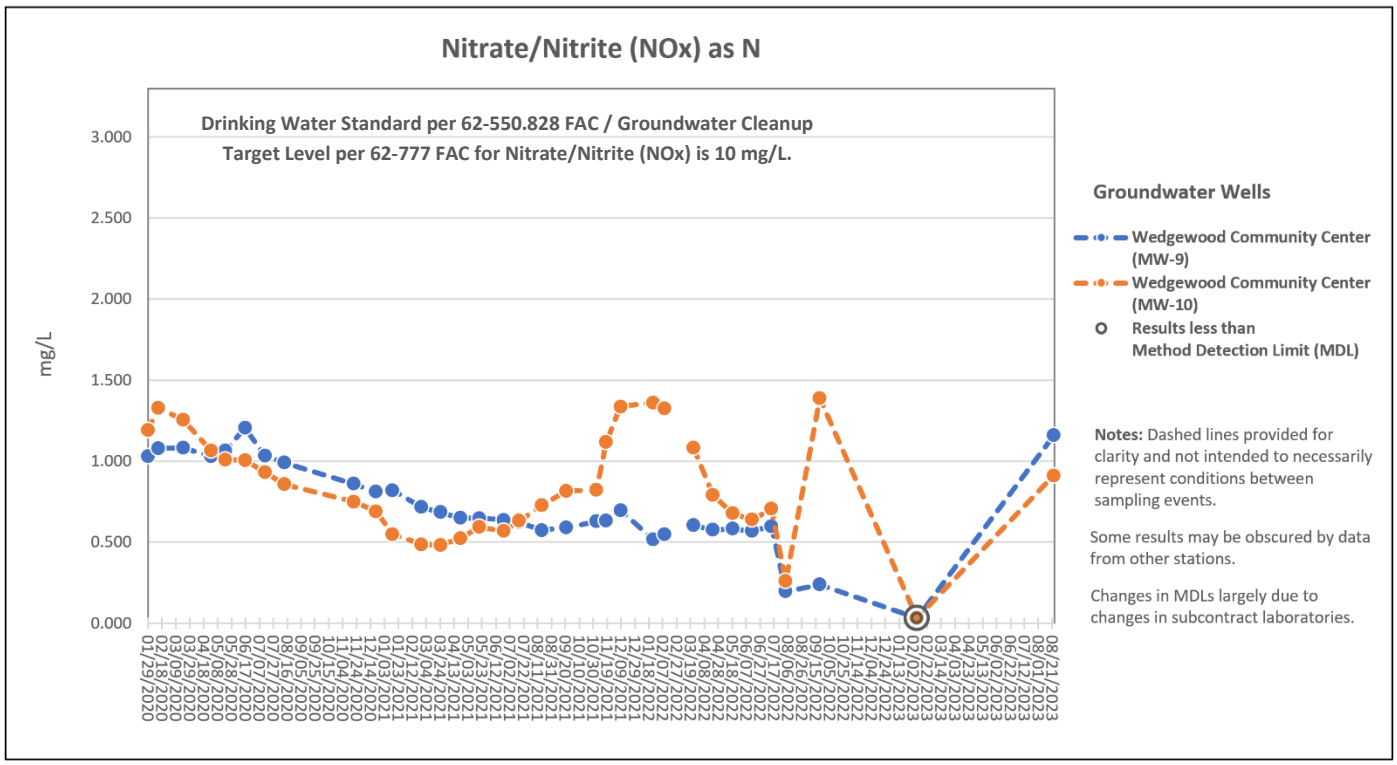


Figure 19.11: Nitrate (NO_3) – Distribution of Groundwater Results by Station

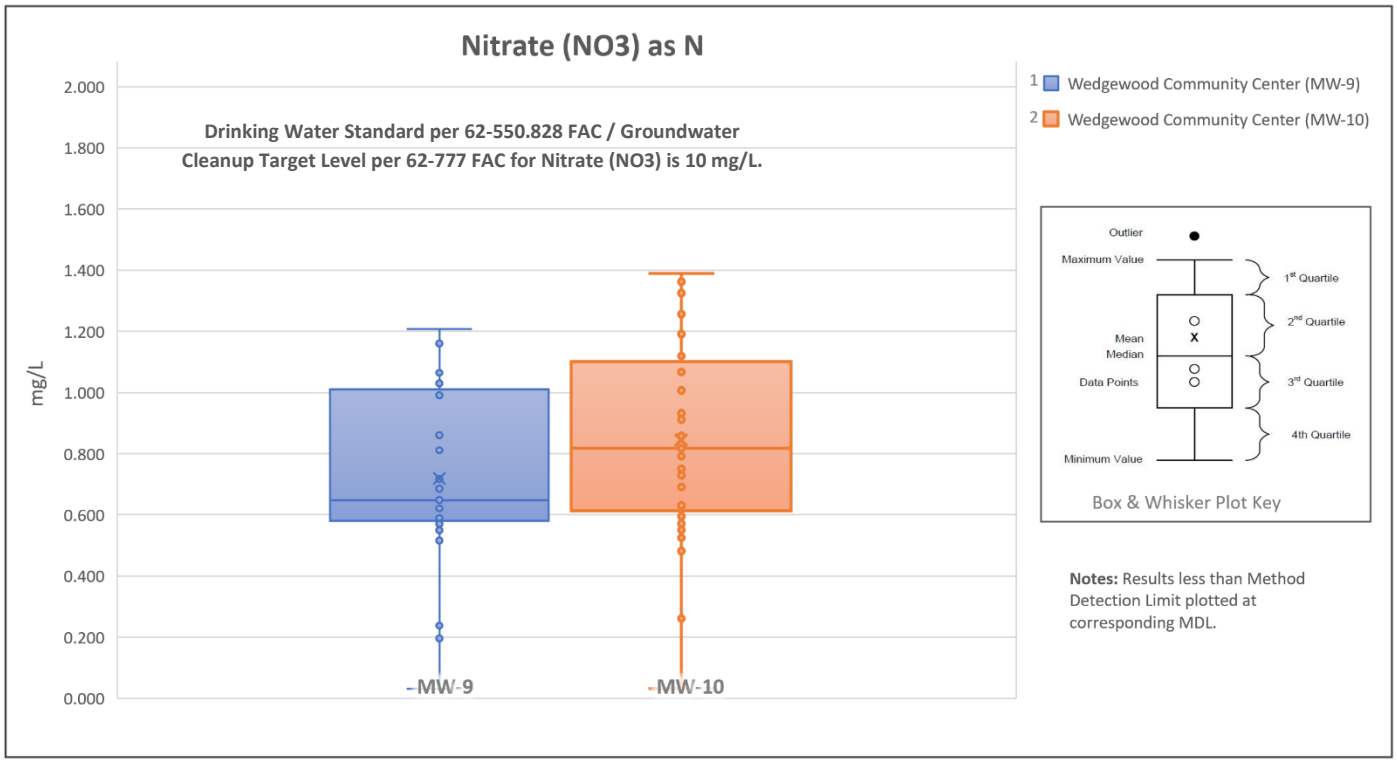


Figure 20.11: Nitrate (NO_3) – Groundwater Trends by Monitoring Station & Date

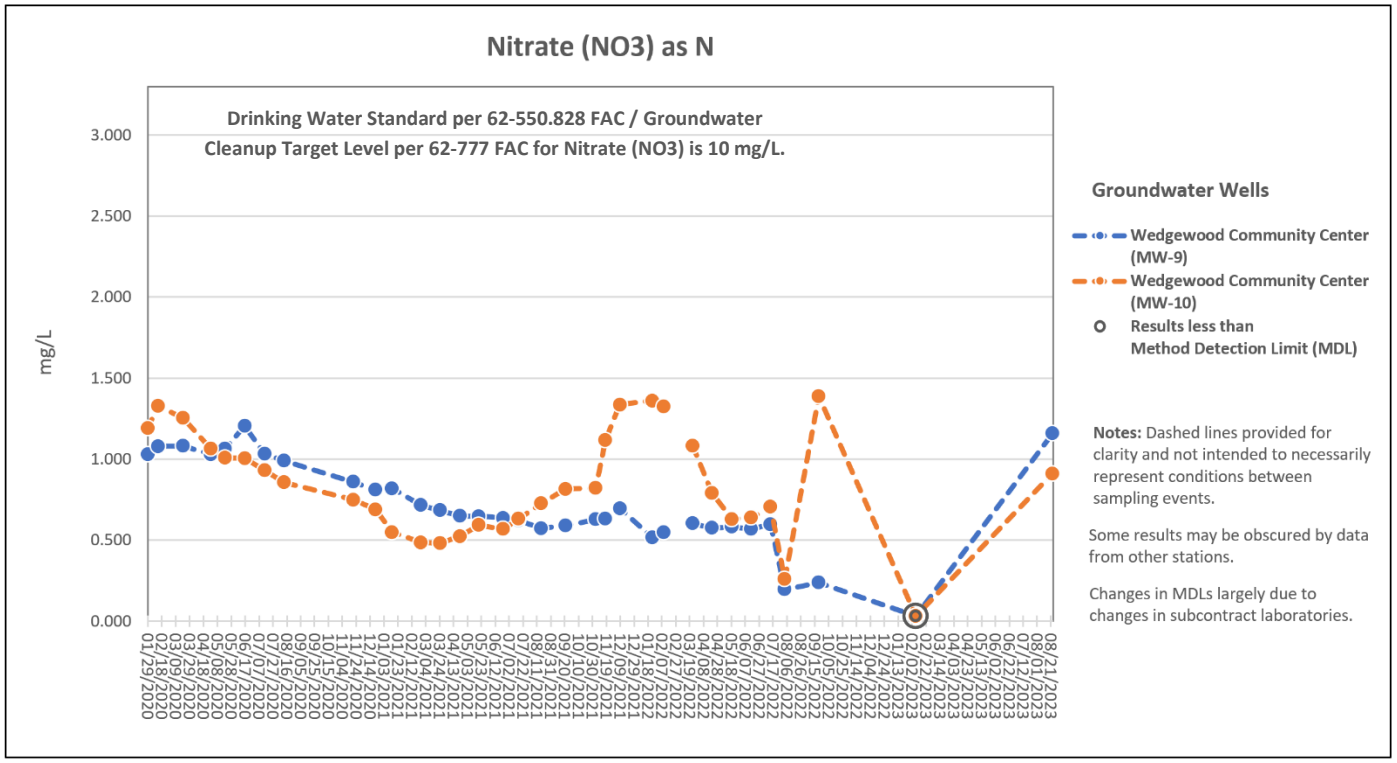


Figure 19.12: Chloride – Distribution of Groundwater Results by Station

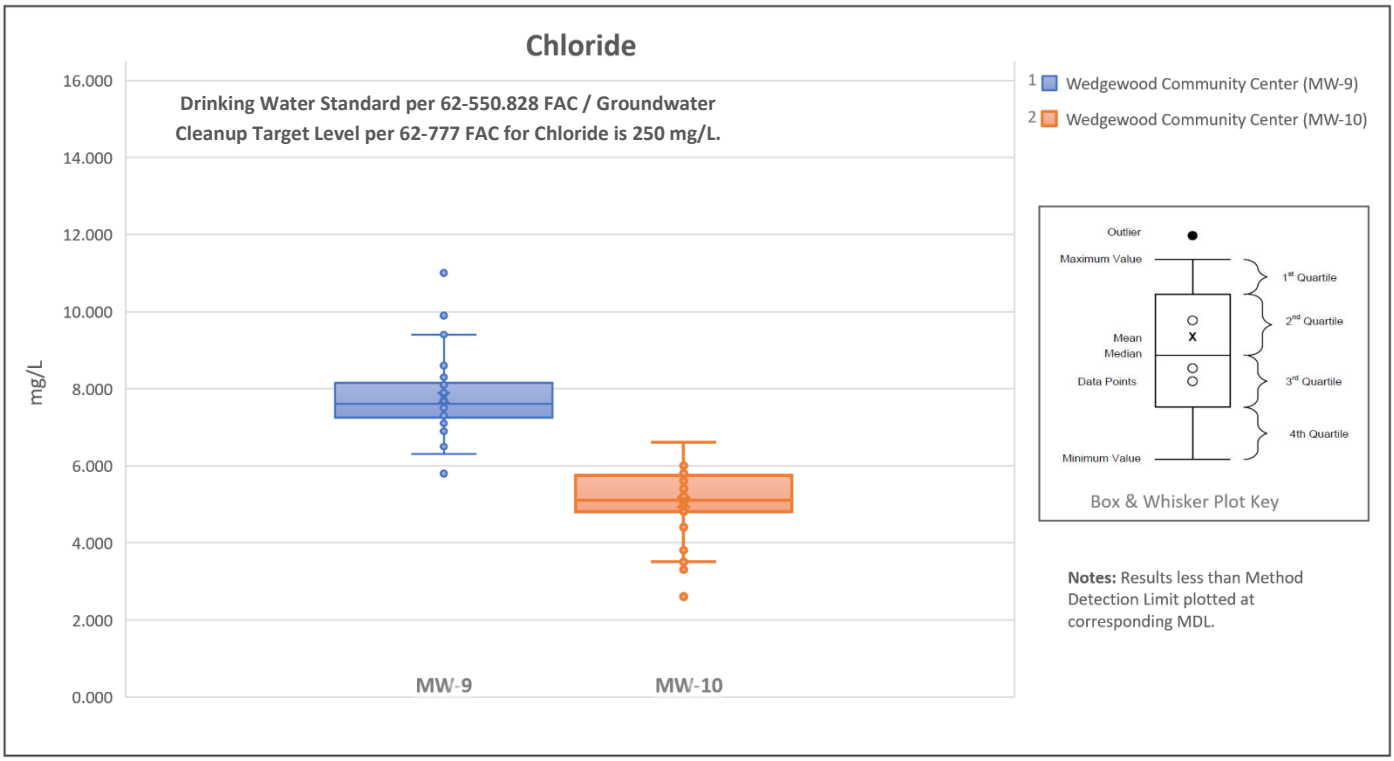


Figure 20.12: Chloride – Groundwater Trends by Monitoring Station & Date

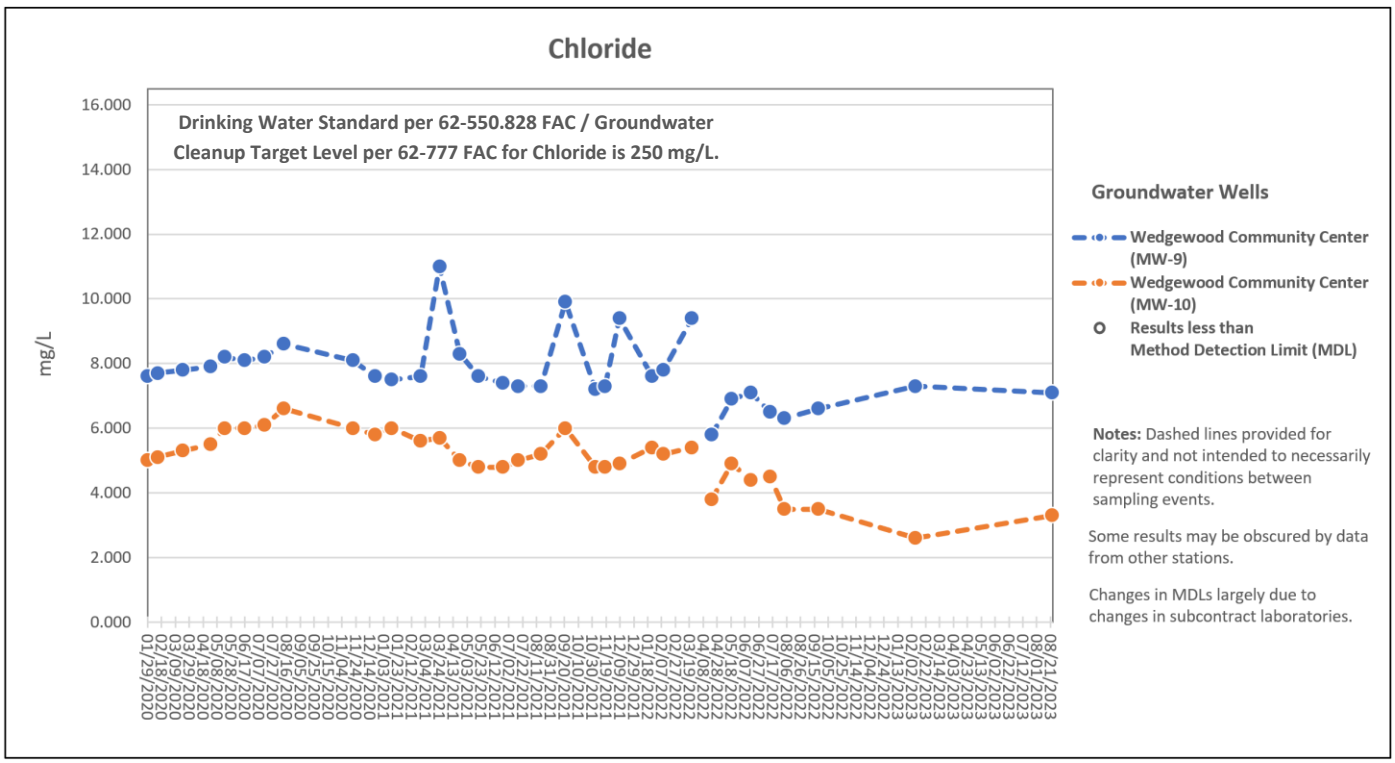


Figure 19.13: Hydrogen Sulfide– Distribution of Groundwater Results by Station

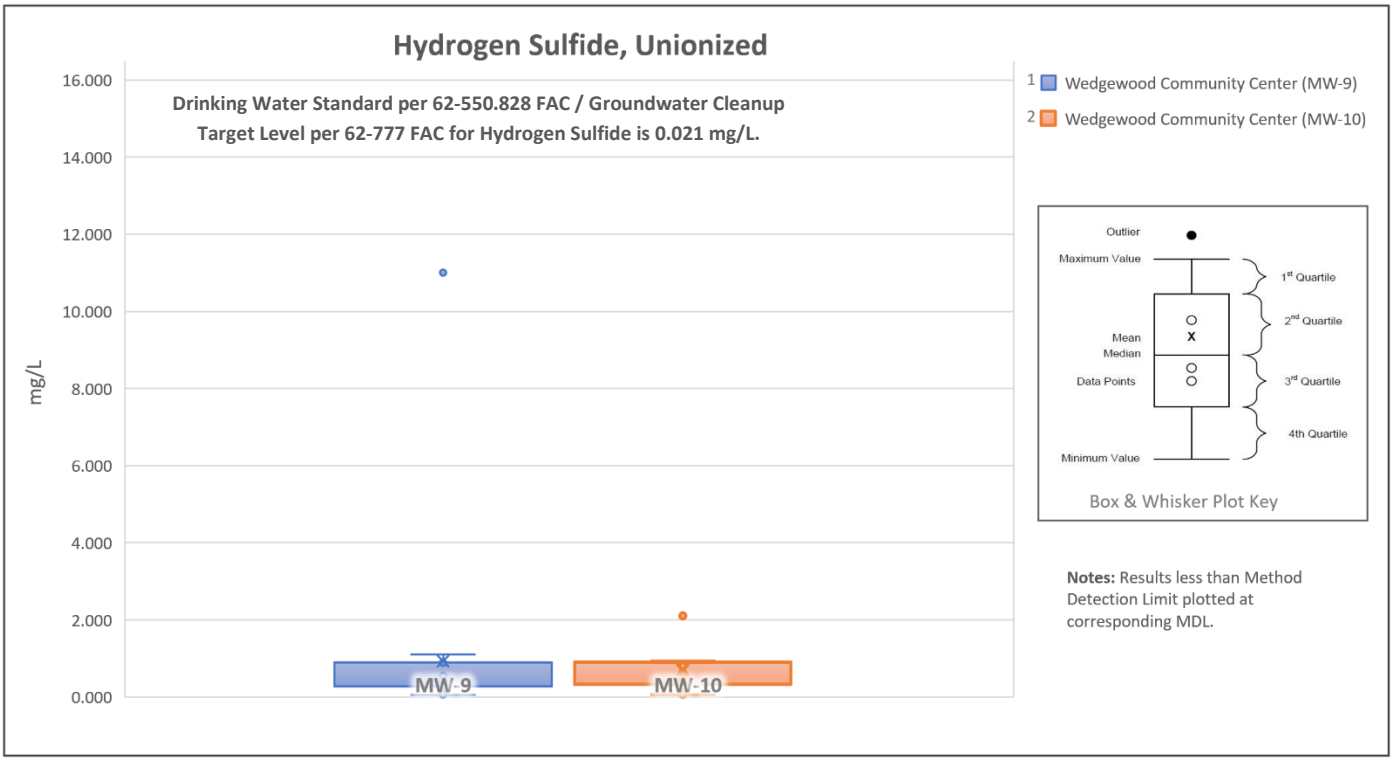


Figure 20.13: Hydrogen Sulfide – Groundwater Trends by Monitoring Station & Date

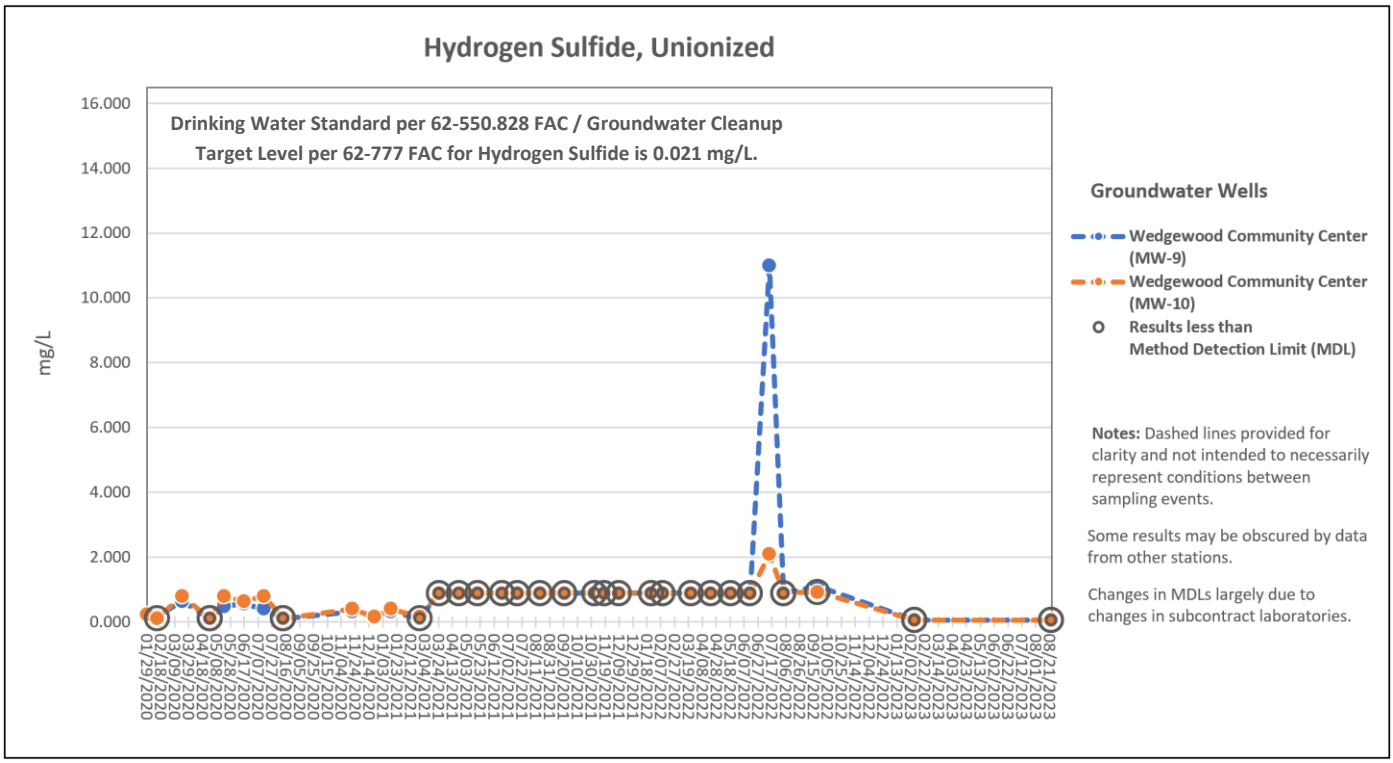


Figure 19.14: Sulfate – Distribution of Groundwater Results by Station

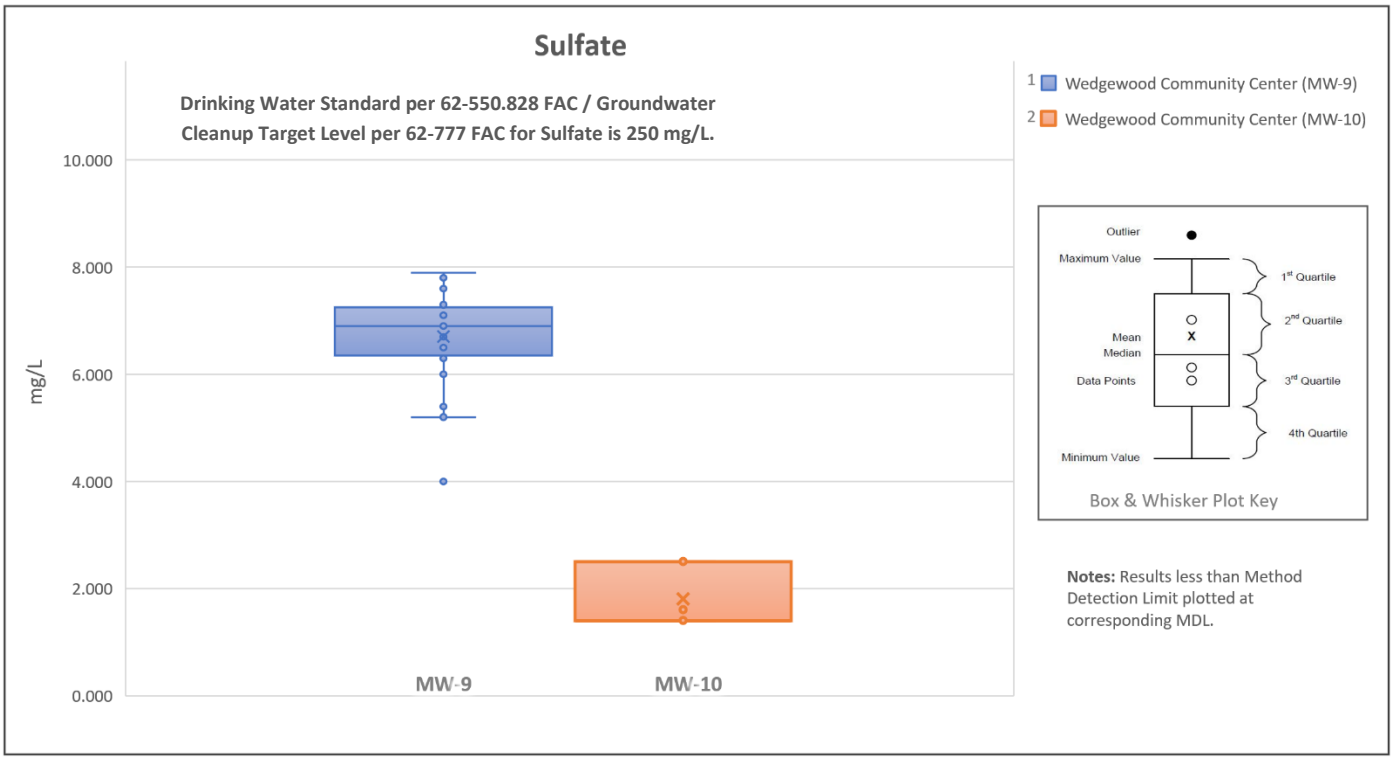


Figure 20.14: Sulfate – Groundwater Trends by Monitoring Station & Date

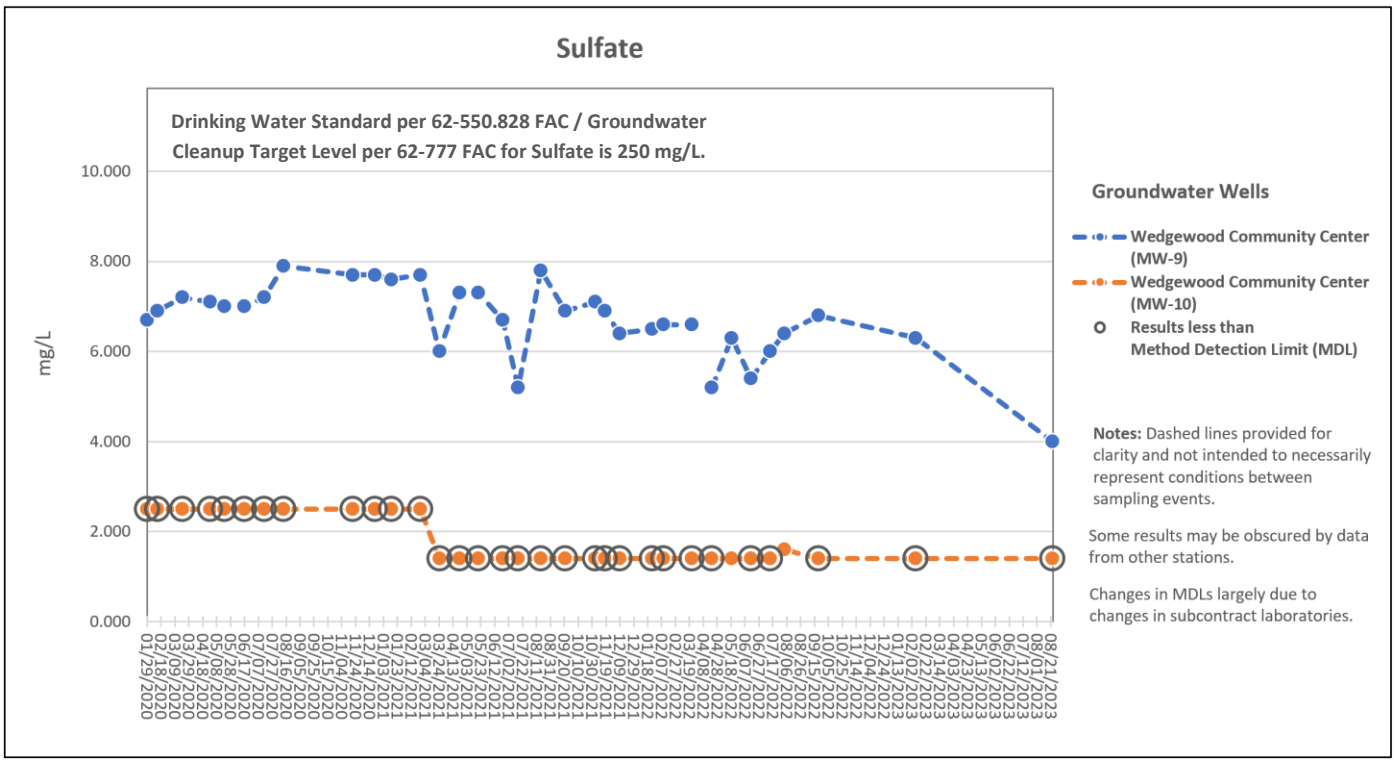


Figure 19.15: Sulfide – Distribution of Groundwater Results by Station

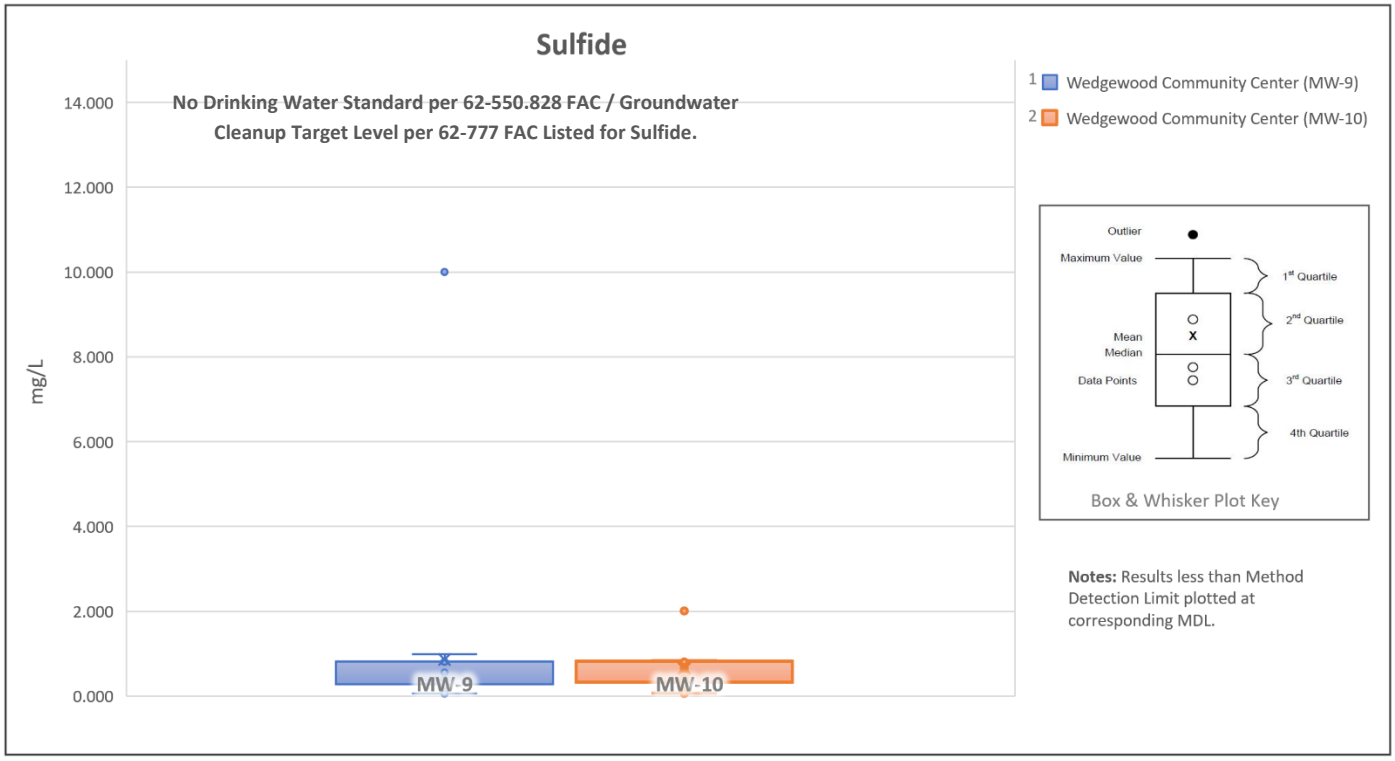


Figure 20.15: Sulfide – Groundwater Trends by Monitoring Station & Date

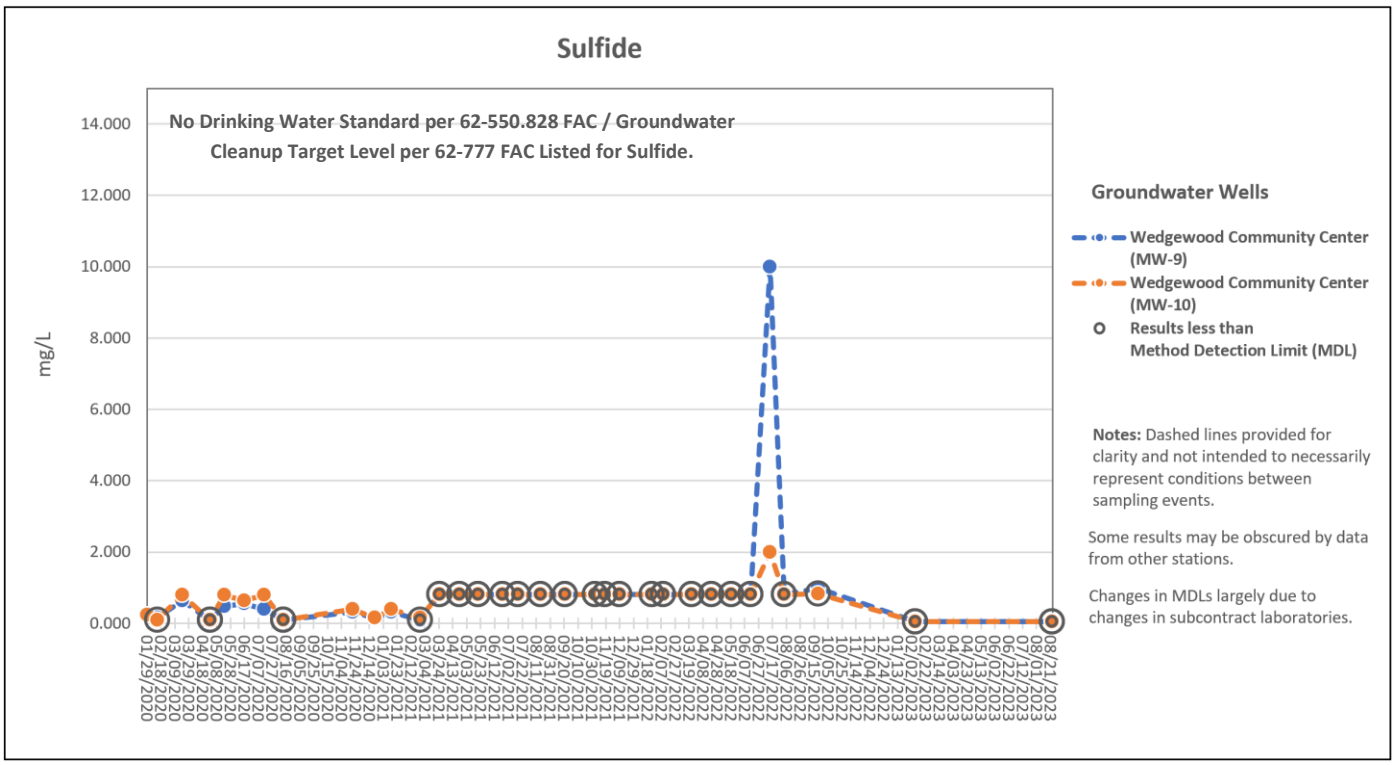


Figure 19.16: Total Dissolved Solids – Distribution of Groundwater Results by Station

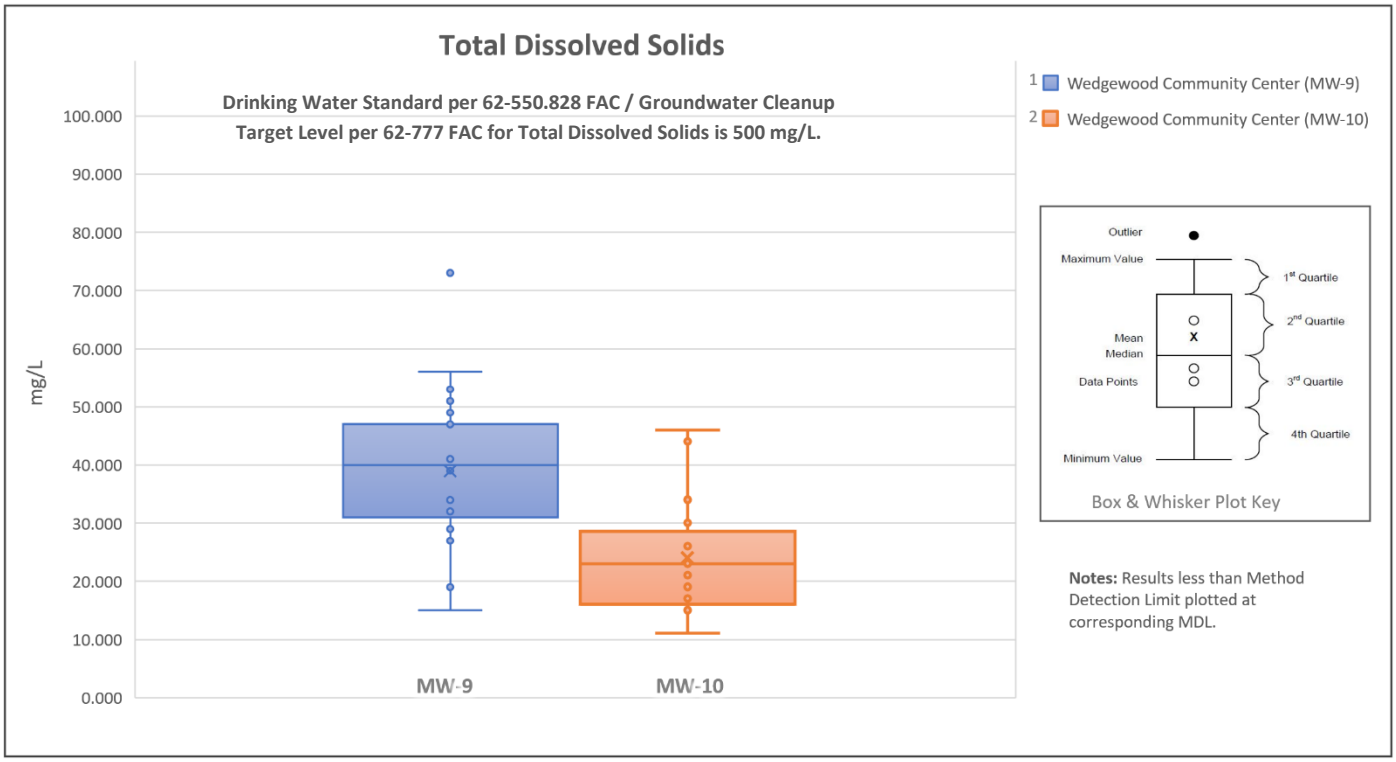
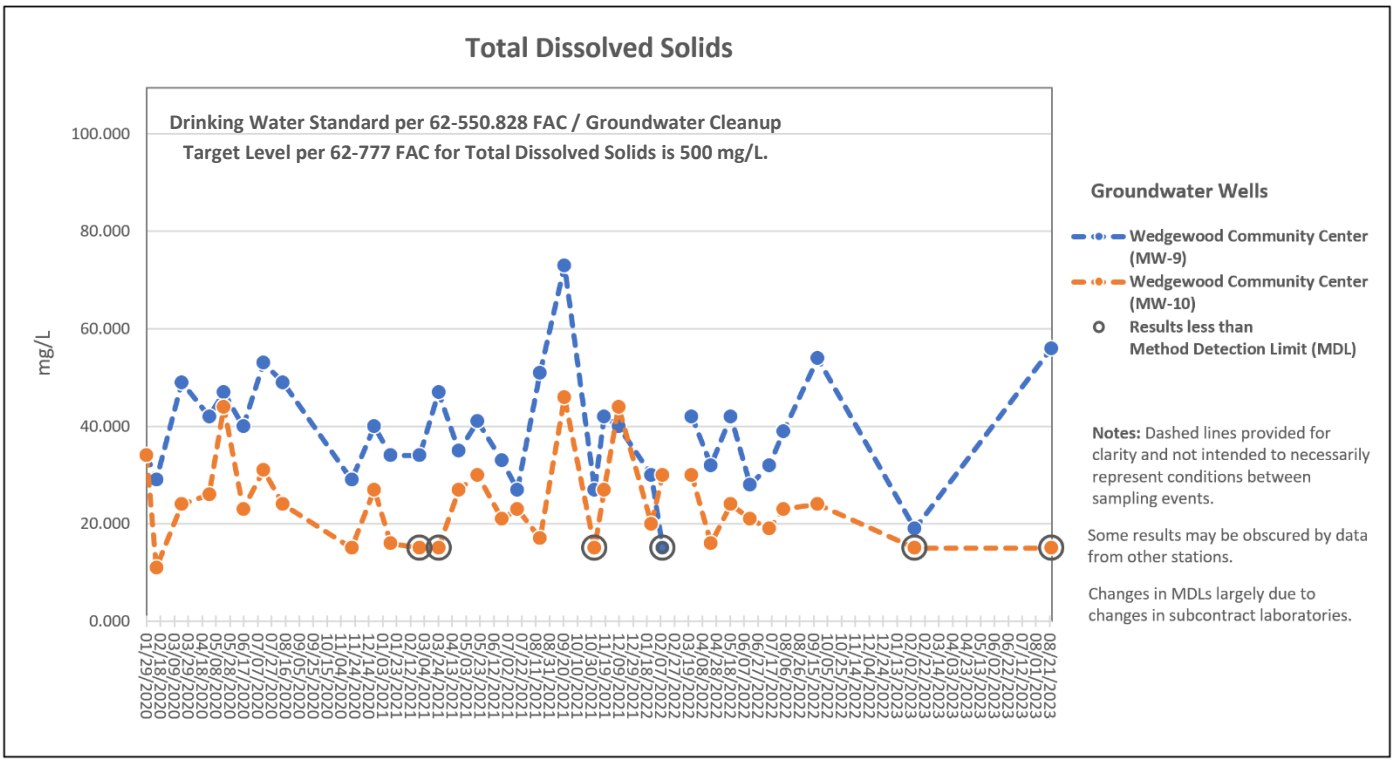


Figure 20.16: Total Dissolved Solids – Groundwater Trends by Monitoring Station & Date



Tables 14.1 - 14.11: Groundwater Field Results
Summary of Results by Station and Date Sampled
Sample Dates: January 2020 - January 2021

	Station ID / Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	ORP (m/V)	Turbidity (NTU)
Table 14.1	Wedgewood Community Center (MW-9)	21.97	4.81	60.2	4.55	317.5	1.64
1/29/2020	Wedgewood Community Center (MW-10)	22.49	4.90	35.3	8.83	304.3	0.53
Table 14.2	Wedgewood Community Center (MW-9)	22.55	4.96	63.0	4.46	626.0	1.99
2/12/2020	Wedgewood Community Center (MW-10)	23.61	5.06	35.6	8.85	514.9	0.83
Table 14.3	Wedgewood Community Center (MW-9)	22.75	4.88	64.1	4.55	504.2	0.94
3/19/2020	Wedgewood Community Center (MW-10)	23.43	4.99	36.2	9.03	407.2	0.90
Table 14.4	Wedgewood Community Center (MW-9)	22.75	4.89	64.0	4.54	743.8	0.02
4/28/2020	Wedgewood Community Center (MW-10)	23.43	5.04	36.1	9.01	634.5	0.16
Table 14.5	Wedgewood Community Center (MW-9)	22.87	4.74	59.3	4.51	263.4	0.52
5/19/2020	Wedgewood Community Center (MW-10)	23.68	4.41	34.3	8.53	267.2	0.40
Table 14.6	Wedgewood Community Center (MW-9)	22.97	4.84	63.2	4.53	362.0	0.89
6/16/2020	Wedgewood Community Center (MW-10)	23.51	4.98	35.6	8.92	362.6	0.12
Table 14.7	Wedgewood Community Center (MW-9)	22.62	4.50	62.8	4.52	322.1	0.90
7/15/2020	Wedgewood Community Center (MW-10)	23.28	4.57	34.6	8.87	350.2	0.12
Table 14.8	Wedgewood Community Center (MW-9)	22.67	4.58	62.8	4.38	310.9	1.37
8/12/2020	Wedgewood Community Center (MW-10)	23.40	4.59	34.8	8.63	358.4	0.84
Table 14.9	Wedgewood Community Center (MW-9)	22.58	4.76	60.8	4.06	337.1	0.62
11/19/2020	Wedgewood Community Center (MW-10)	23.38	4.80	32.6	8.52	246.6	1.00
Table 14.10	Wedgewood Community Center (MW-9)	22.59	4.35	60.4	3.66	219.9	1.94
12/21/2020	Wedgewood Community Center (MW-10)	23.12	4.47	33.3	8.33	290.6	0.78
Table 14.11	Wedgewood Community Center (MW-9)	22.49	4.61	60.2	3.67	208.0	0.85
1/14/2021	Wedgewood Community Center (MW-10)	23.27	4.12	32.1	8.12	289.4	2.04

Notes:

°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Tables 14.12 - 14.22: Groundwater Field Results
Summary of Results by Station and Date Sampled
Sample Dates: February 2021 - December 2021

	Station ID / Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	ORP (m/V)	Turbidity (NTU)
Table 14.12	Wedgewood Community Center (MW-9)	22.60	4.61	58.1	3.54	278.7	2.90
2/25/2021	Wedgewood Community Center (MW-10)	23.26	4.82	28.4	8.05	295.0	1.25
Table 14.13	Wedgewood Community Center (MW-9)	22.50	4.56	58.4	3.32	252.9	1.26
3/24/2021	Wedgewood Community Center (MW-10)	23.13	4.74	28.4	8.12	305.7	1.23
Table 14.14	Wedgewood Community Center (MW-9)	22.59	4.64	55.4	3.20	283.2	0.31
4/22/2021	Wedgewood Community Center (MW-10)	23.55	4.81	26.8	8.13	324.1	0.99
Table 14.15	Wedgewood Community Center (MW-9)	22.73	4.63	55.7	3.10	373.7	0.00
5/19/2021	Wedgewood Community Center (MW-10)	23.60	4.77	27.8	8.20	287.5	0.00
Table 14.16	Wedgewood Community Center (MW-9)	22.81	4.50	54.3	3.03	272.0	0.07
6/23/2021	Wedgewood Community Center (MW-10)	23.65	4.18	26.7	8.57	329.1	0.00
Table 14.17	Wedgewood Community Center (MW-9)	22.88	4.48	54.3	3.02	321.2	0.11
7/15/2021	Wedgewood Community Center (MW-10)	23.40	3.91	28.4	8.69	433.3	0.56
Table 14.18	Wedgewood Community Center (MW-9)	22.93	4.48	56.9	2.89	314.7	1.38
8/17/2021	Wedgewood Community Center (MW-10)	23.64	4.64	32.3	8.56	312.4	2.30
Table 14.19	Wedgewood Community Center (MW-9)	22.80	4.17	56.7	2.96	432.1	1.45
9/21/2021	Wedgewood Community Center (MW-10)	23.73	4.37	33.4	8.50	452.1	1.69
Table 14.20	Wedgewood Community Center (MW-9)	22.60	4.05	57.1	3.00	332.6	0.02
11/3/2021	Wedgewood Community Center (MW-10)	23.37	4.18	31.2	8.68	337.0	0.02
Table 14.21	Wedgewood Community Center (MW-9)	22.63	4.18	56.7	2.96	355.5	0.02
11/17/2021	Wedgewood Community Center (MW-10)	23.42	4.24	32.3	8.69	371.8	0.02
Table 14.22	Wedgewood Community Center (MW-9)	22.52	4.56	57.3	2.98	293.8	0.02
12/8/2021	Wedgewood Community Center (MW-10)	23.08	4.43	36.1	8.81	329.1	0.52

Notes:
°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Tables 14.12 - 14.22: Groundwater Field Results
Summary of Results by Station and Date Sampled
Sample Dates: January 2022 - December 2023

	Station ID / Name	Temperature (° C)	pH (SU)	Conductivity (µS/cm)	DO (mg/L)	ORP (m/V)	Turbidity (NTU)
Table 14.23	Wedgewood Community Center (MW-9)	22.43	4.64	57.0	3.20	207.5	0.02
1/24/2022	Wedgewood Community Center (MW-10)	23.08	4.70	37.5	9.24	214.7	0.18
Table 14.24	Wedgewood Community Center (MW-9)	22.44	4.50	56.8	3.24	251.7	0.32
2/9/2022	Wedgewood Community Center (MW-10)	23.04	4.60	36.1	9.34	260.7	0.18
Table 14.25	Wedgewood Community Center (MW-9)	22.55	4.32	56.4	3.36	330.2	0.28
3/23/2022	Wedgewood Community Center (MW-10)	23.16	4.42	33.2	9.57	407.2	0.42
Table 14.26	Wedgewood Community Center (MW-9)	22.65	4.61	57.4	3.29	257.0	0.10
4/20/2022	Wedgewood Community Center (MW-10)	23.43	4.77	31.7	9.45	256.8	0.06
Table 14.27	Wedgewood Community Center (MW-9)	22.78	4.37	57.1	3.34	389.3	0.11
5/18/2022	Wedgewood Community Center (MW-10)	23.51	4.42	30.7	9.64	349.3	0.02
Table 14.28	Wedgewood Community Center (MW-9)	22.96	4.39	57.2	3.25	259.1	0.15
6/15/2022	Wedgewood Community Center (MW-10)	23.79	4.50	30.5	9.70	282.7	0.02
Table 14.29	Wedgewood Community Center (MW-9)	22.73	3.38	57.7	3.16	258.2	0.43
7/13/2022	Wedgewood Community Center (MW-10)	23.55	4.56	30.7	9.43	257.9	0.02
Table 14.30	Wedgewood Community Center (MW-9)	22.95	4.49	57.5	NS	183.1	0.20
8/2/2022	Wedgewood Community Center (MW-10)	23.80	4.56	29.5	9.45	228.8	1.06
Table 14.31	Wedgewood Community Center (MW-9)	23.06	4.64	59.1	3.39	140.5	0.28
9/20/2022	Wedgewood Community Center (MW-10)	24.37	4.35	24.1	8.79	164.5	0.12
Table 14.32	Wedgewood Community Center (MW-9)	22.79	4.56	70.14	4.39	291.8	1.32
2/7/2023	Wedgewood Community Center (MW-10)	23.54	4.69	30.30	8.74	290.0	1.17
Table 14.33	Wedgewood Community Center (MW-9)	22.74	4.43	68.30	3.59	406.9	0.45
8/23/2023	Wedgewood Community Center (MW-10)	23.75	4.27	30.79	9.07	432.8	1.34

Notes:
°C = Degrees Celsius
SU = Standard Units
µS/cm = microSiemens per centimeter
DO = Dissolved Oxygen
mg/L = milligrams per Liter
ORP = Oxidation Reduction Potential
mV = millivolt
NTU = Nephelometric Turbidity Units
NS = Not sampled
J = Estimated value; value not accurate

Figure 21.1: Field Temperature – Distribution of Groundwater Results by Station

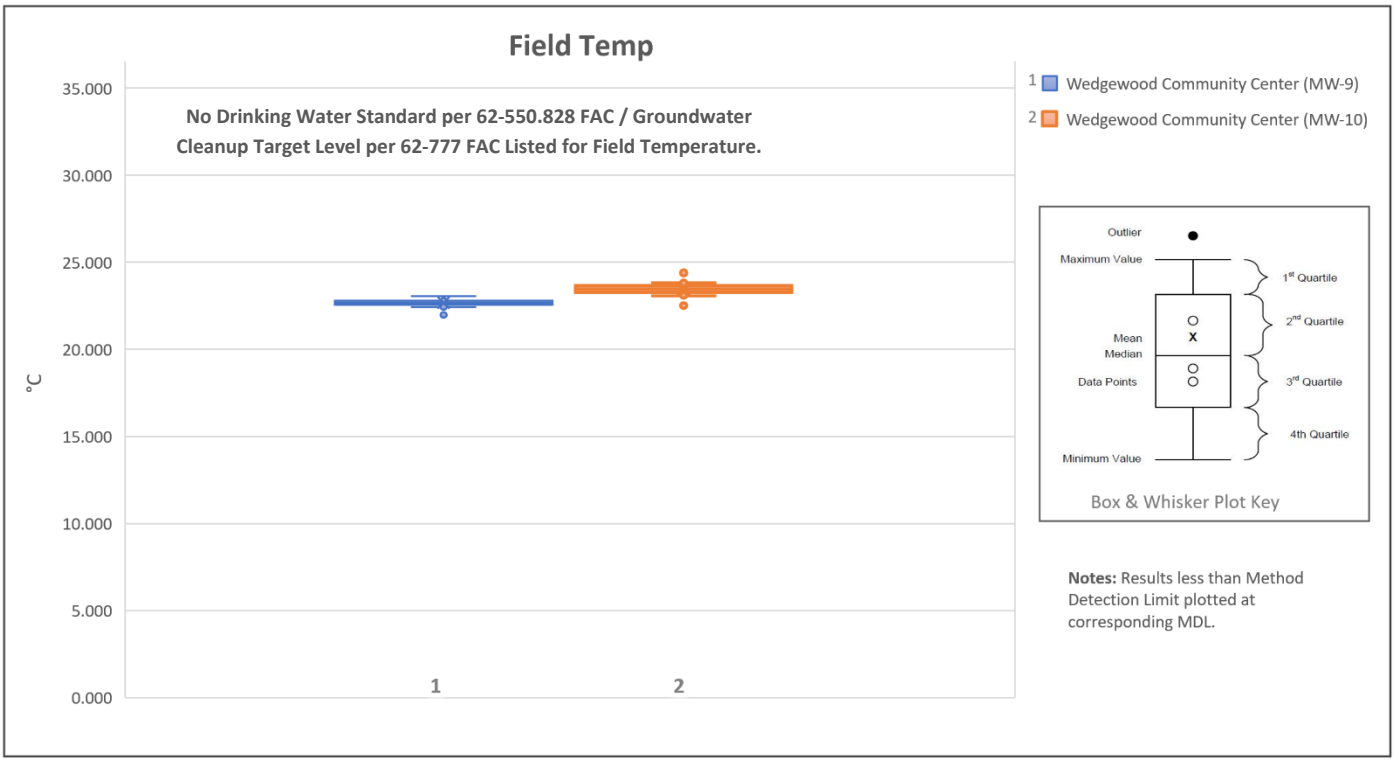


Figure 22.1: Field Temperature – Groundwater Trends by Monitoring Station & Date

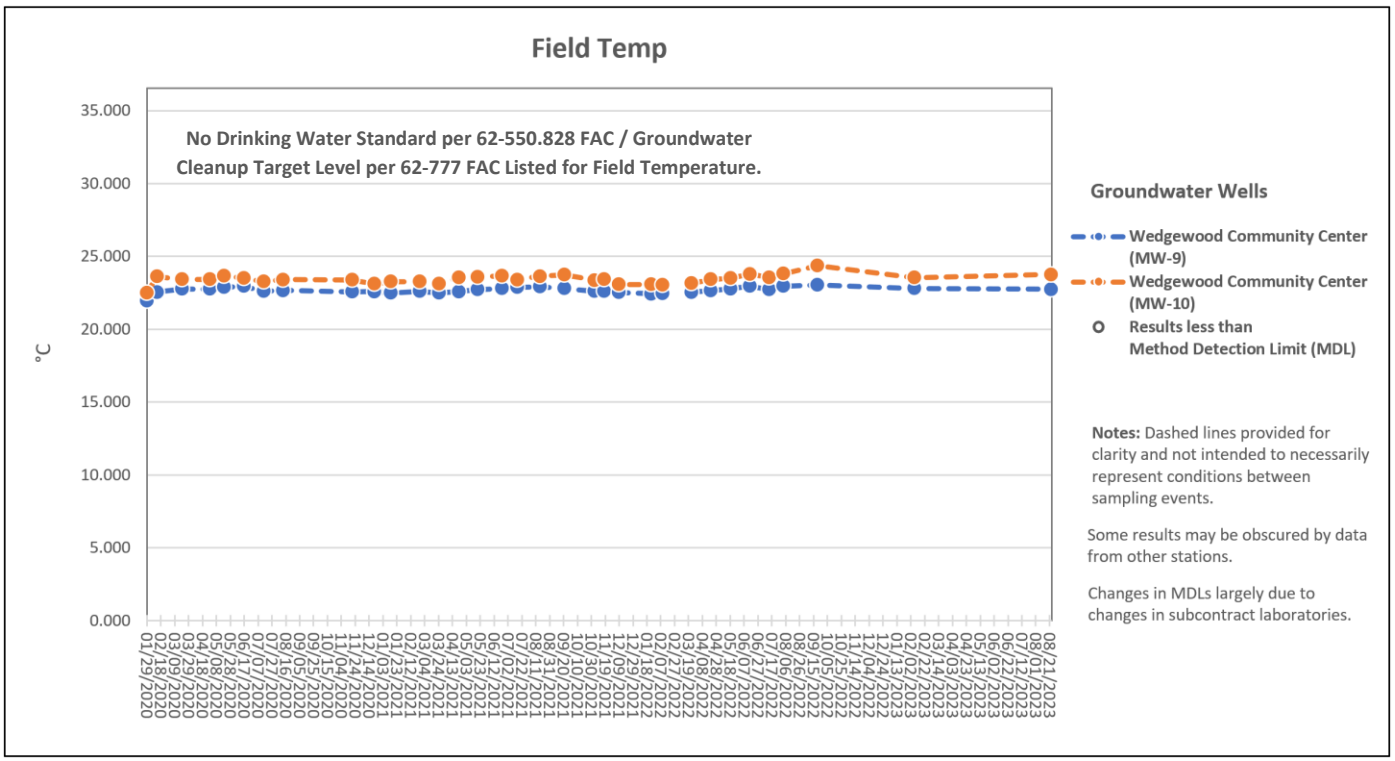


Figure 21.2: Field pH – Distribution of Groundwater Results by Station

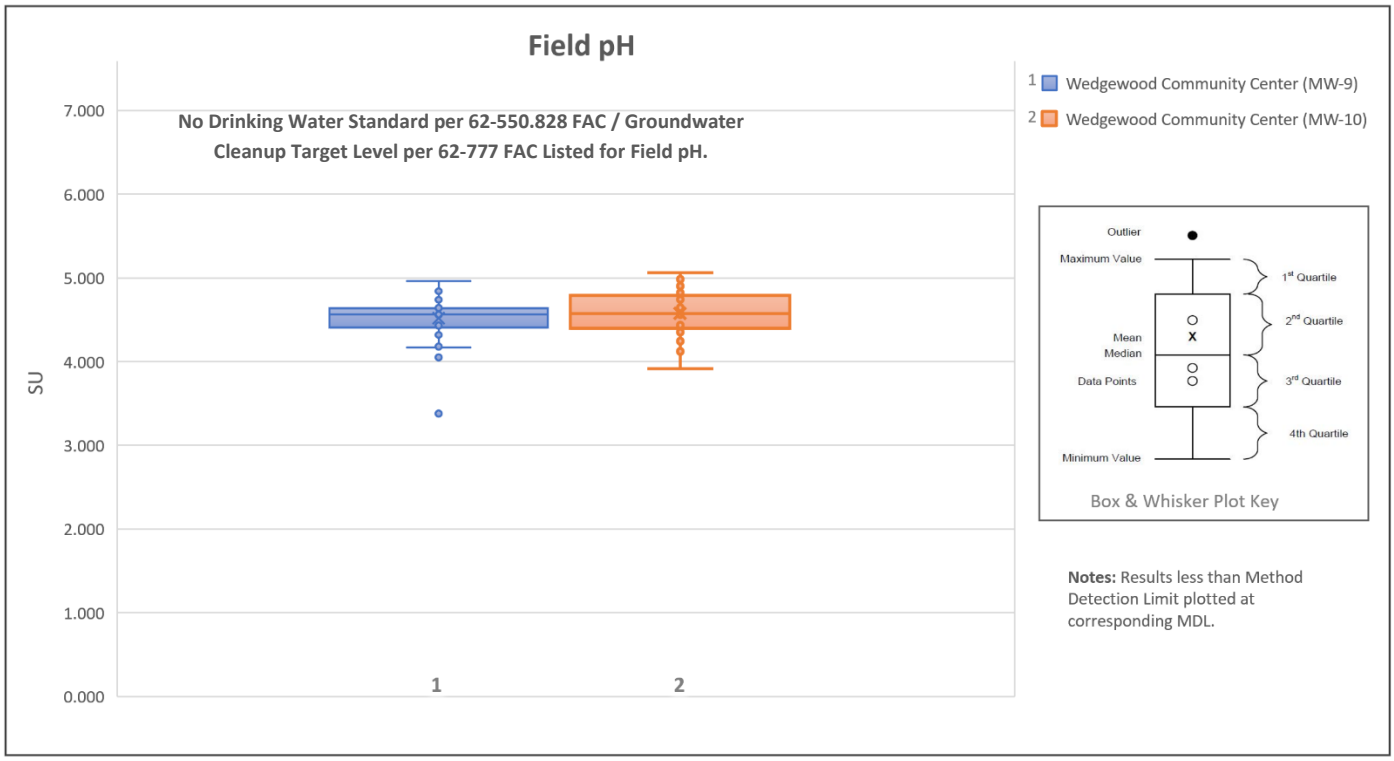


Figure 22.2: Field pH – Groundwater Trends by Monitoring Station & Date

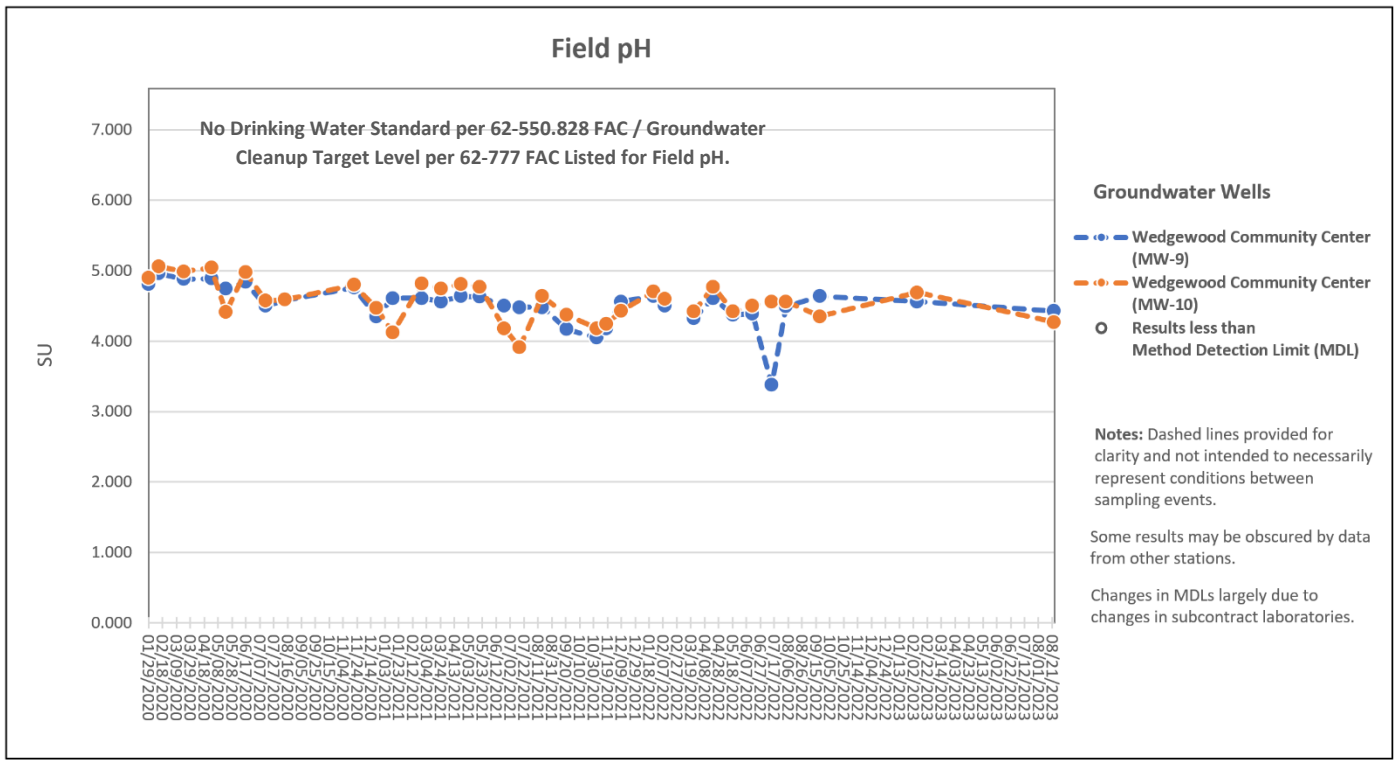


Figure 21.3: Field Specific Conductance – Distribution of Groundwater Results by Station

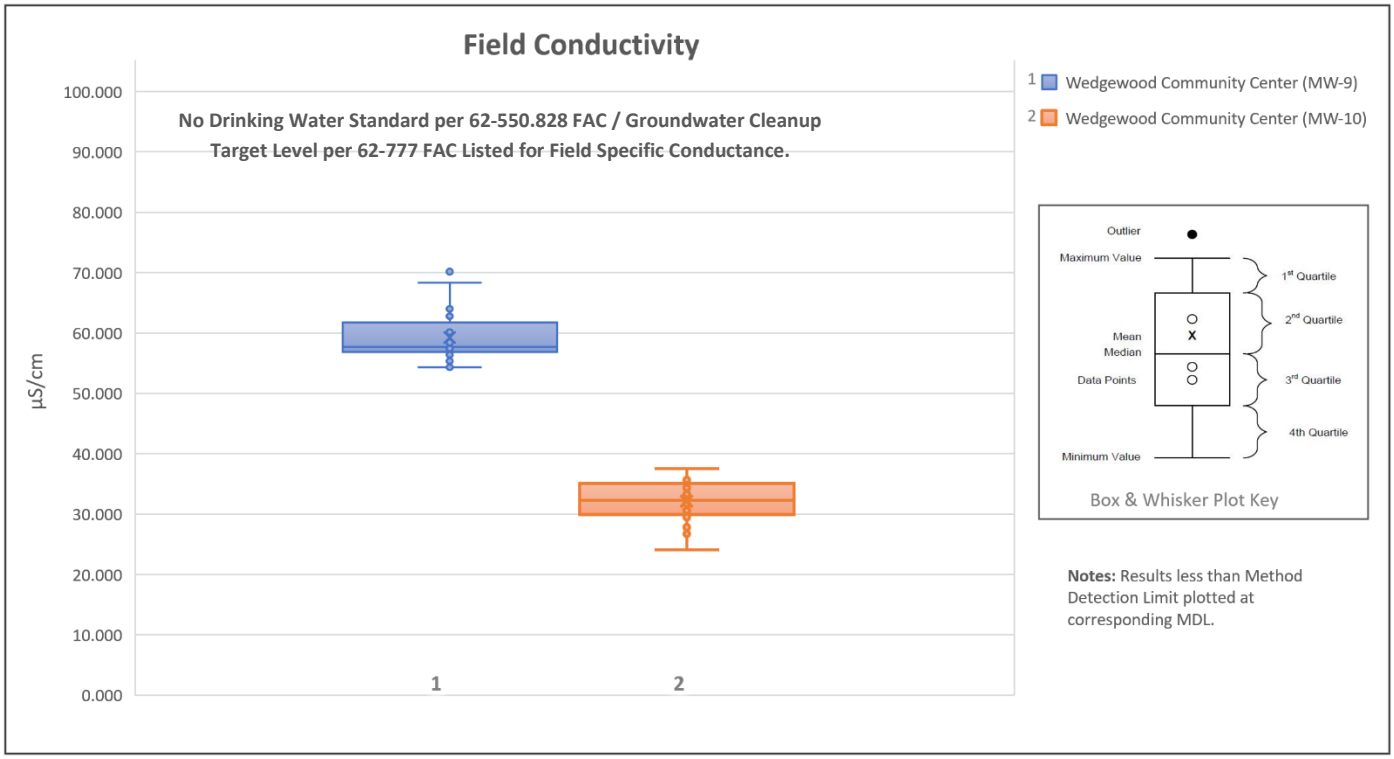


Figure 22.3: Field Specific Conductance – Groundwater Trends by Monitoring Station & Date

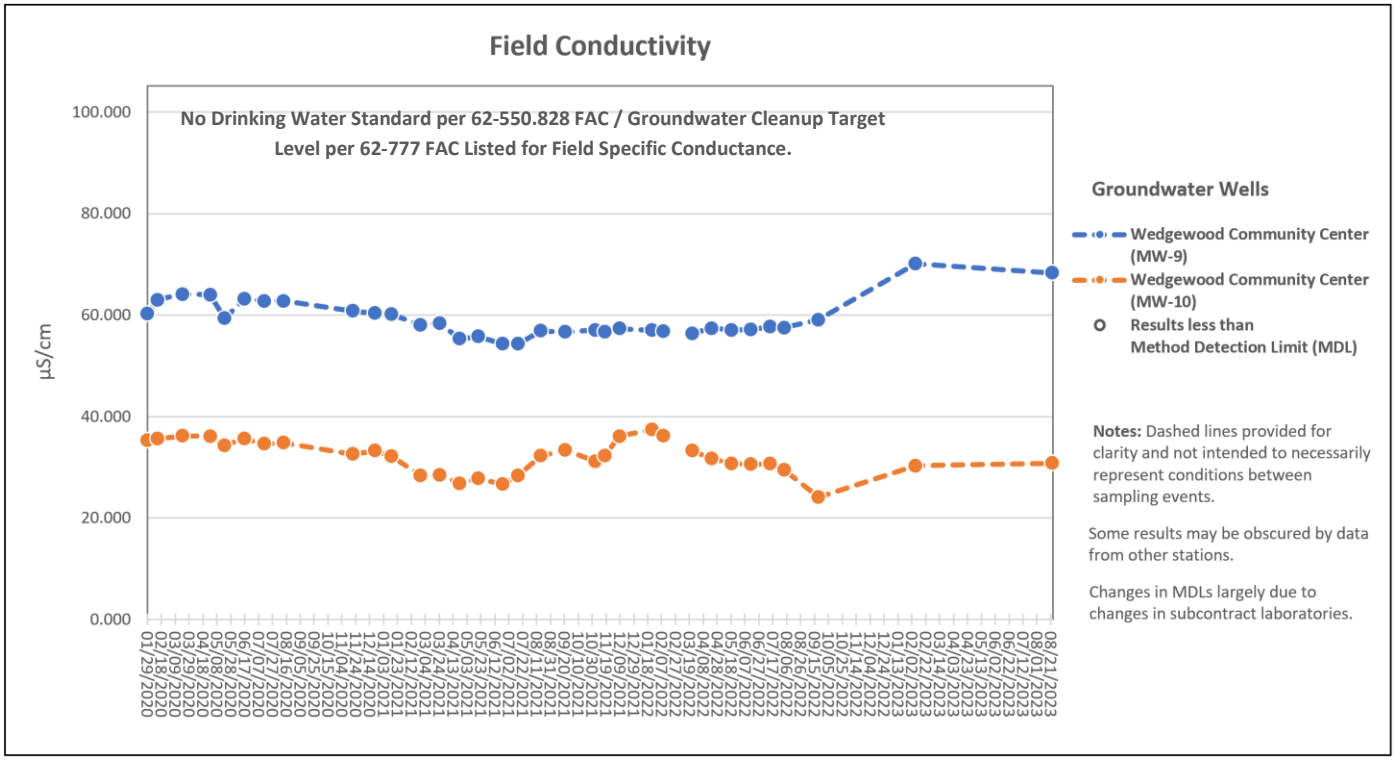


Figure 21.4: Field Dissolved Oxygen – Distribution of Groundwater Results by Station

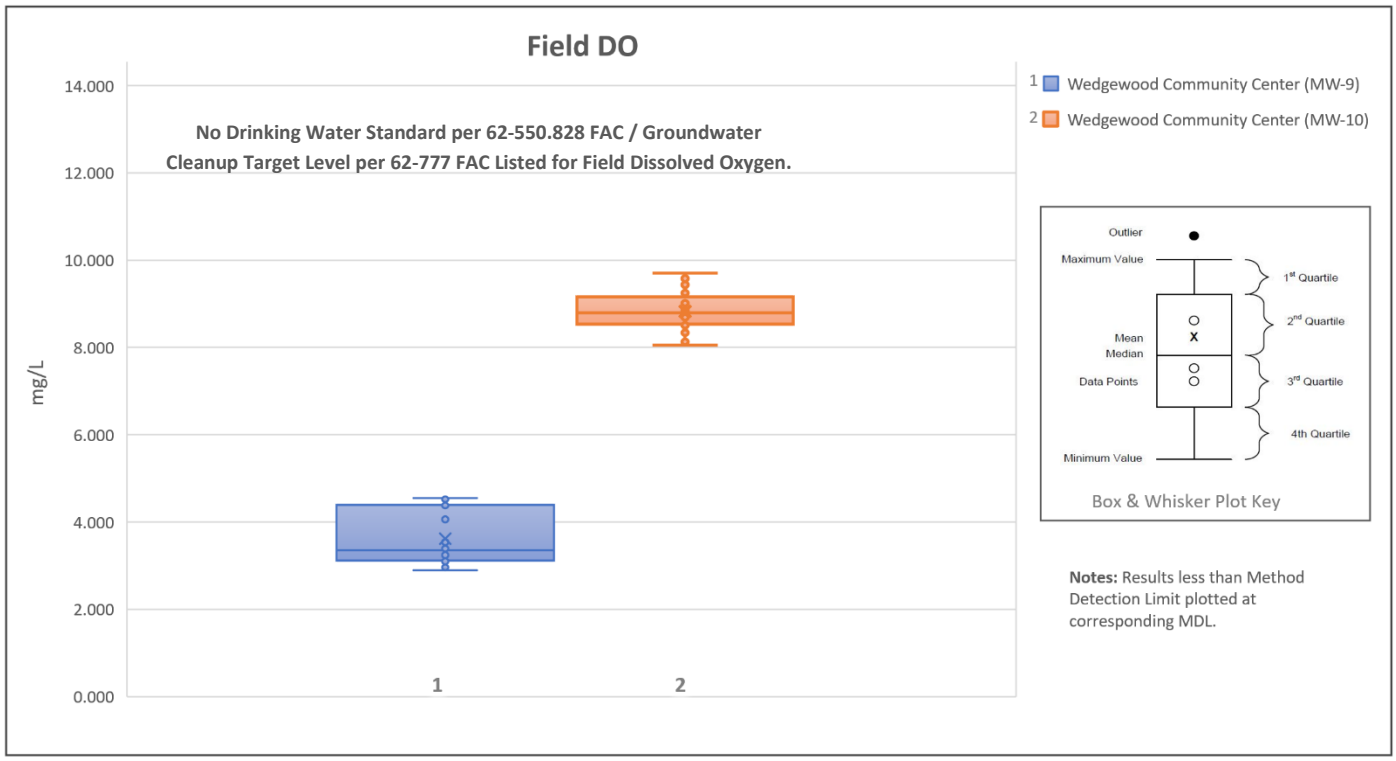


Figure 22.4: Field Dissolved Oxygen – Groundwater Trends by Monitoring Station & Date

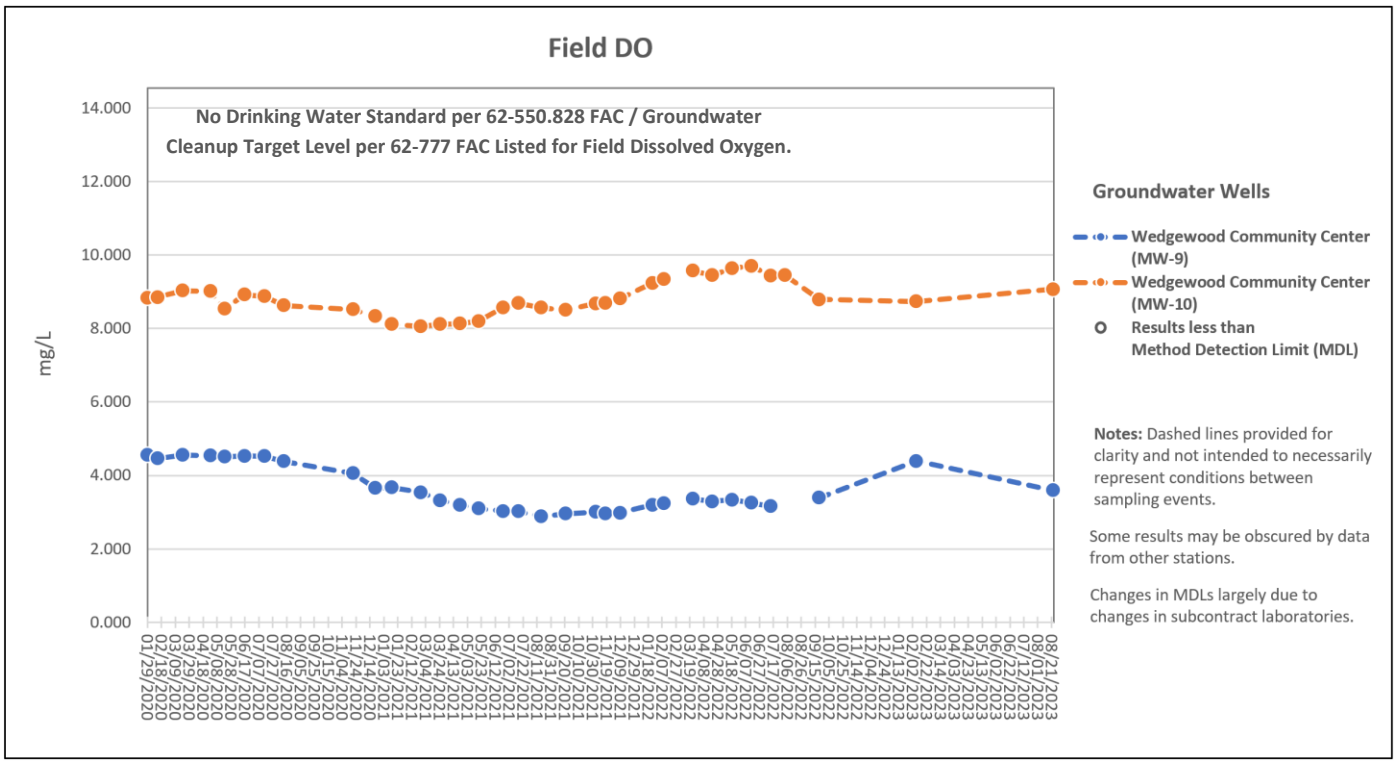


Figure 21.5: Field Oxidation-reduction Potential – Distribution of Groundwater Results by Station

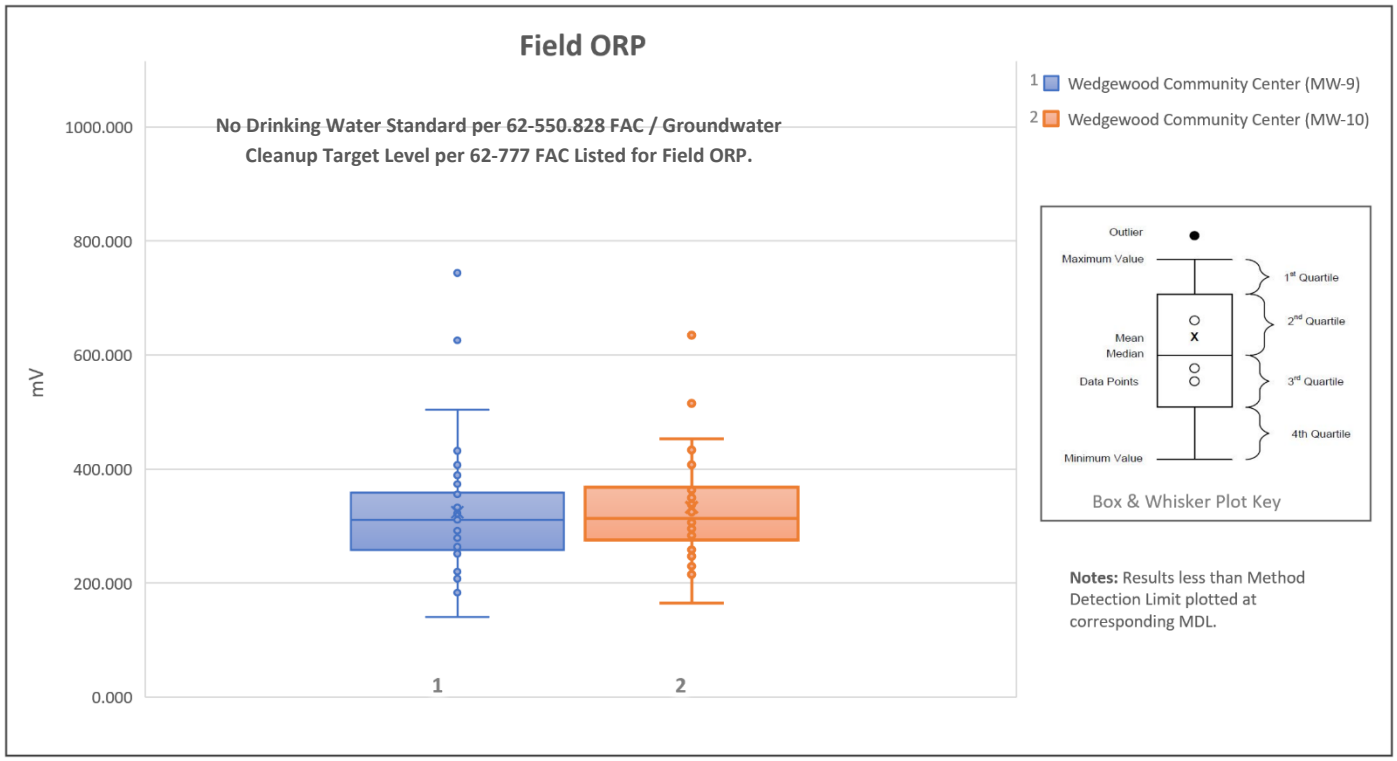


Figure 22.5: Field Oxidation-reduction Potential – Groundwater Trends by Monitoring Station & Date

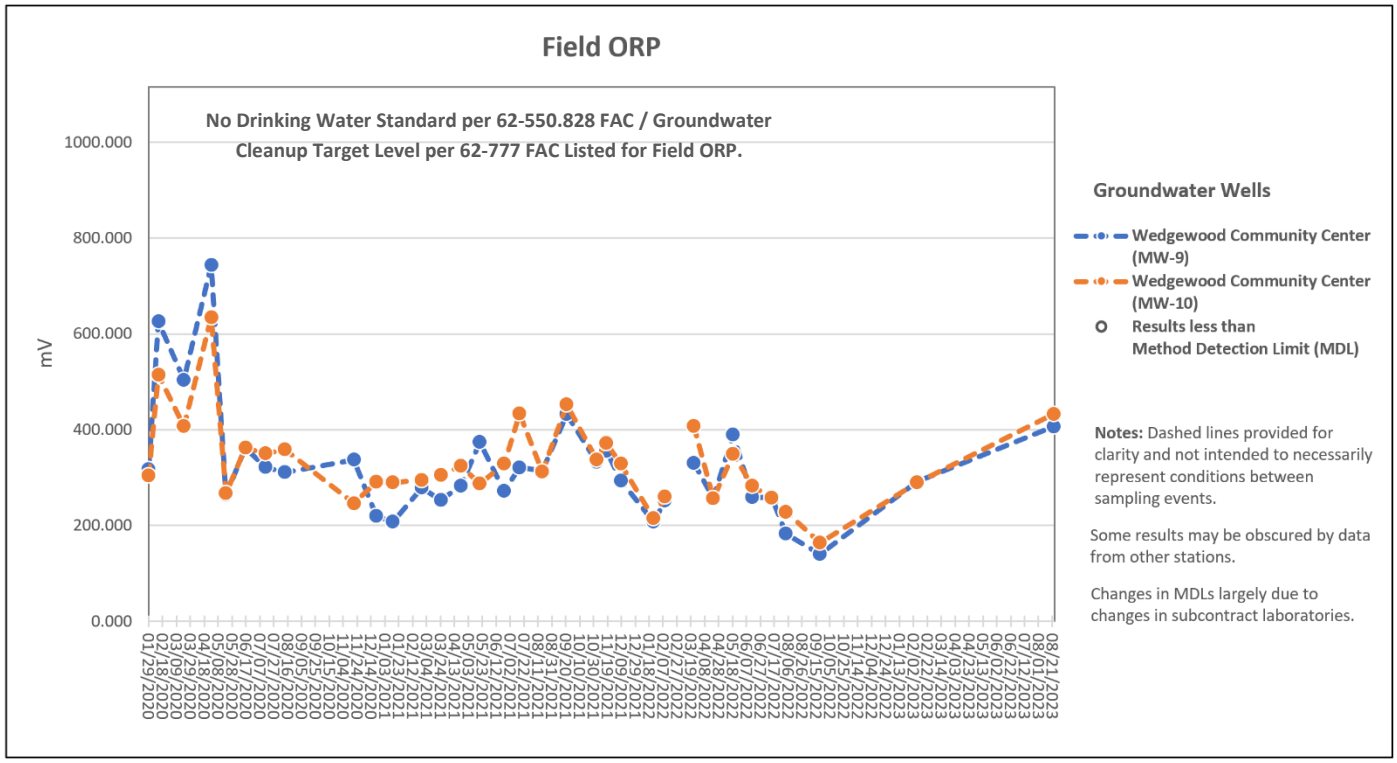


Figure 21.5: Field Turbidity – Distribution of Groundwater Results by Station

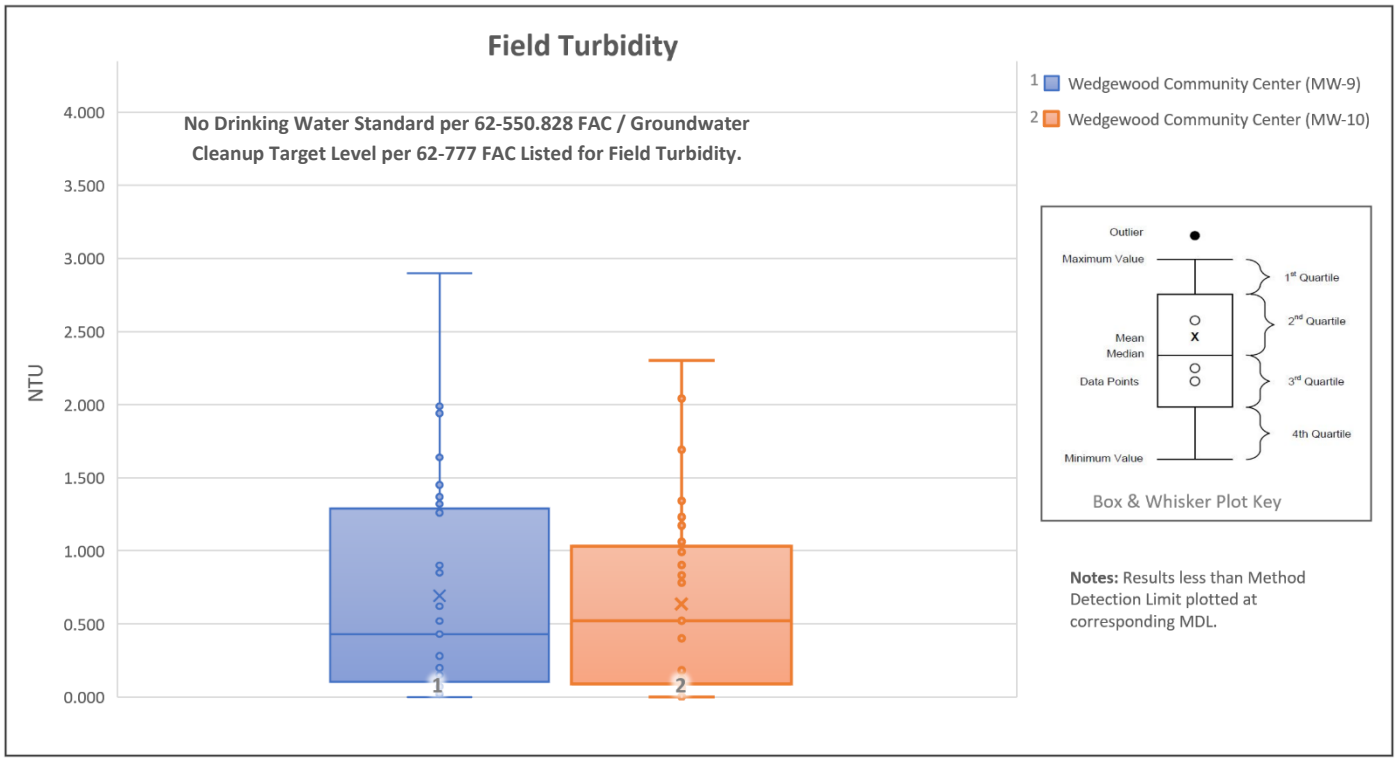
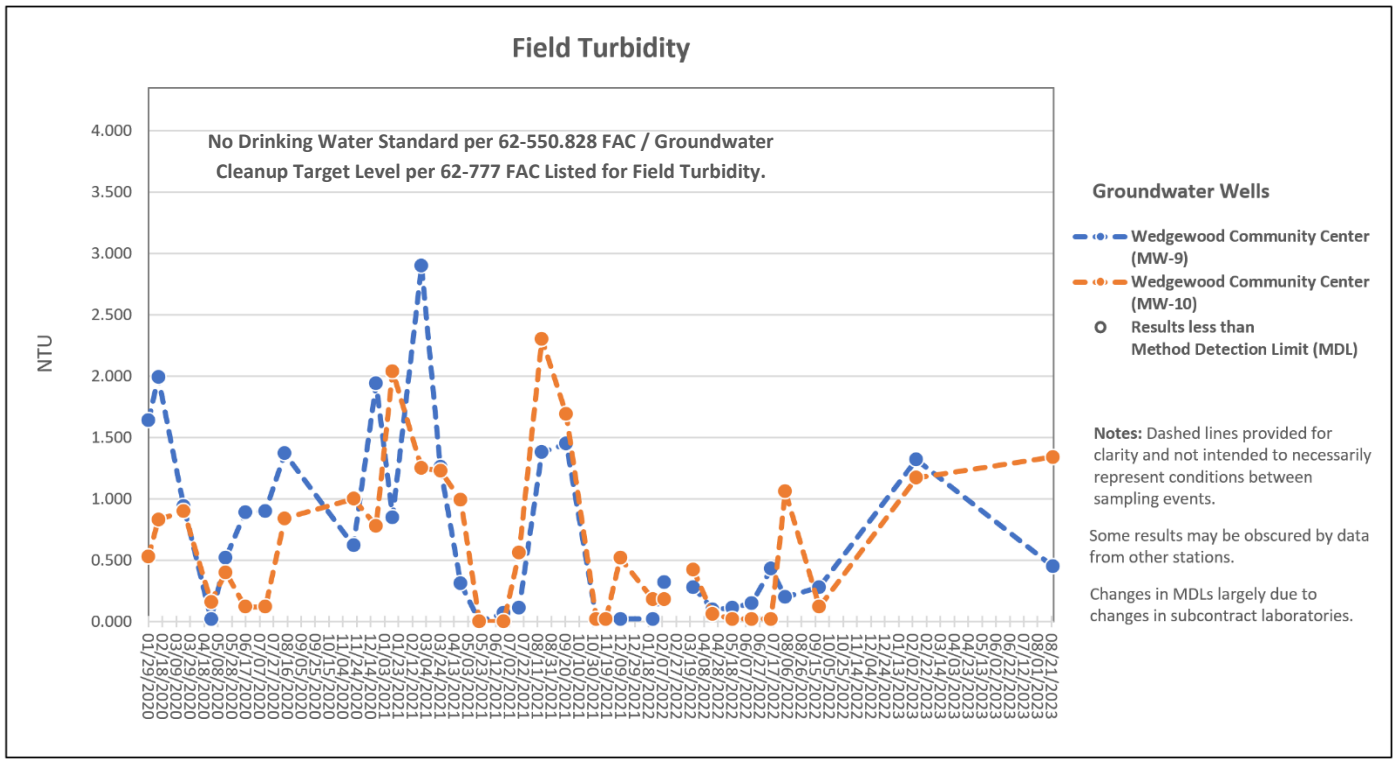


Figure 22.5: Field Turbidity – Groundwater Trends by Monitoring Station & Date



Appendix 1

FDOH Assessment of Average Monthly

Hydrogen Sulfide Levels at the Rolling Hills Landfill

August 2016

August 22, 2016

Robert Merritt, Environmental Health Director
Department of Health in Escambia County
1295 West Fairfield Drive
Pensacola, Florida 32501

Re: Monthly Average Hydrogen Sulfide Levels at the Rolling Hills Landfill

Dear Mr. Merritt:

In a June 2015 report, the Florida Department of Health (DOH) evaluated the public health threat near the Rolling Hills Landfill in Pensacola. DOH compared 30-minute hydrogen sulfide (H_2S) levels in the air to the U.S. Agency for Toxic Substances and Disease Registry's (ATSDR) acute duration (1 to 14 day) minimal risk level guideline of 70 parts per billion (ppb). The highest 30-minute average H_2S level (590 ppb) was too close to the level known to cause headache and nose/throat irritation (2,000 ppb) to rule out these effects. DOH concluded H_2S levels were a public health hazard and recommended the owner prevent 30-minute levels from exceeding 70 ppb[1].

Recently, ATSDR assessed H_2S levels at New Jersey's Fenimore Landfill. In addition to comparing 30-minute levels to 70 ppb as DOH had done, they compared ***monthly*** average levels to the ***intermediate*** duration (14 to 365 days) minimal risk level guideline of 20 ppb[2].

Based on ATSDR's recent comparison of monthly average levels to the intermediate minimal risk level guideline, DOH also calculated monthly average levels near the Rolling Hills Landfill. In 2014, monthly average H_2S levels near the landfill were:

Month, 2014	Monthly Average H_2S Level Near the Rolling Hills Landfill (ppb)	ATSDR Intermediation Duration Minimal Risk Level (ppb)
September	6.8	20
October	7.5	20
November	3.2	20
December	2.3	20

These monthly averages are all below the 20 ppb intermediate duration minimal risk level guideline. Therefore, DOH concludes lasting health effects from longer-term exposure to H_2S near the Rolling Hills Landfill were unlikely. This conclusion is in addition to those in the June 2015 report.

Please contact me at (850) 245-4249 if I can answer any questions about this conclusion.

Sincerely,

Randy Merchant

Randy Merchant
Environmental Administrator
Public Health Toxicology

ERM/rm

cc: Shawn Hamilton, Department of Environmental Protection
Chips Kirschenfeld, Escambia County
Gloria Horning, Social Justice Scientist & Advocate
LaFanette Woods, Wedgewood Community Member

[1] Health Consultation, Rolling Hills Landfill Site, Pensacola, Escambia County, Florida. DEP Waste Cleanup Facility site ID COM_3397, WACS ID 3133. June 2, 2015. Florida Department of Health and U.S. Agency for Toxic Substances and Disease Registry.

[2] Health Consultation, Evaluation of Community Exposures and Concerns Related to the Fenimore Landfill, Roxbury Township, New Jersey. May 11, 2016. U.S. Agency for Toxic Substances and Disease Registry.

Appendix 2

FDOH Health Alerts and Advisory

Related to Former Rolling Hills C&DD Facility

February 17, 2017

HEALTH ADVISORY

Air Quality Health Advisory Issued in Response to Associated Smoke from Rolling Hills Brush Fire

Contact:
Media Desk: 850-595-6500 x6000
Public Contact: 850-595-6700

Pensacola, Fla. – The Florida Department of Health in Escambia County (FDOH-Escambia) is issuing an air quality health advisory in response to associated smoke from a brush fire at Rolling Hills Construction and Demolition Landfill. Air quality monitoring has been performed by the Escambia County Natural Resources Management Department near the facility, which is located at 6990 Rolling Hills Road, Pensacola, FL. The monitoring has revealed elevated levels of small particulate matter in the air likely associated with smoke from the fire. Nearby residents are advised to protect against smoke exposure.

Smoke is a respiratory irritant that can cause scratchy throat or irritated eyes and nose. According to the CDC, breathing in smoke can have immediate health effects, including coughing, difficulty breathing, scratchy throat, irritated eyes and nose, shortness of breath, and rapid heartbeat.

Persons experiencing respiratory symptoms, including those with severe or chronic respiratory conditions like asthma or chronic lung disease, should consult their doctor for treatment and stay inside their homes. While inside, residents should close windows, run their cooling or heating system, and change the system's air filter as needed. If symptoms persist while inside an air conditioned home, residents may choose to leave the area until their symptoms are tolerable.

For questions related to health problems or symptoms you may be experiencing related to the smoke, please contact your doctor. For medical emergencies, call 9-1-1 or go to the nearest emergency room. FDOH-Escambia will continue to monitor this situation. For more information, contact FDOH-Escambia's Environmental Health office at 850-595-6700 or visit www.EscambiaHealth.com.

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February 27, 2017

HEALTH ADVISORY

Air Quality Health Advisory Rescinded Near Rolling Hills Construction and Demolition Landfill

Contact:
Media Desk: 850-595-6500 x6000
Public Contact: 850-595-6700

Pensacola, Fla. – The Florida Department of Health in Escambia County (FDOH-Escambia) is rescinding the air quality health advisory near Rolling Hills Construction and Demolition Landfill located at 6990 Rolling Hills Road, Pensacola, Florida. The brush fire at the facility was extinguished, and associated smoke is no longer present.

For more information, contact FDOH-Escambia's Environmental Health office at 850-595-6700 or visit www.EscambiaHealth.com.

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Rolling Hills Land Clearing Debris (LCD) Fire

February 2017

Air Quality Monitoring

Particulates in Air ($PM_{2.5}$)

Monitoring Summary Report

Prepared by: Escambia County

Natural Resources Management Department

Water Quality & Land Management Division

Monitoring Summary

A fire was reported the evening of Monday, February 13, 2017 at the former Rolling Hills C&D Recycling Center located at 6990 Rolling Hills Road. The source of the fire was determined to be approximately five acres of land clearing debris (LCD) stockpiled on the southeast corner of the property. Emergency personnel were able to contain the fire later the same evening eliminating the risk of the fire spreading offsite to the surrounding commercial and residential properties. However, smoke from the smoldering fire continued to be carried offsite for several days following the initial fire. The construction and demolition debris (C&DD) disposal cells at the Rolling Hills facility were not involved in the fire.

The Escambia County Board of County Commissioners directed Natural Resources Management Department (NRM) personnel on Thursday, February 16, 2017 to begin monitoring ambient air quality in the surrounding community. Samples were analyzed for airborne concentrations of particulate matter. Particulate Matter, or PM Pollution, is a mixture of airborne solid particles and liquid droplets. Sources for PM can be both man-made and naturally occurring. Particles can also come directly from a single source, like a construction site or fire, or can be the result of complex chemical reactions among numerous sources, for example sulfur dioxide or nitrogen oxide. Examples of PM pollution include dust, smoke, soot, fly ash, aerosols, fumes, mists, and condensing vapors. PM can be further defined by particle size. Very small particles having a diameter less than 2.5 micrometers, known as $PM_{2.5}$, are potentially harmful to human health since small particles can be inhaled deep into the lungs. All air samples collected by Escambia County were analyzed for $PM_{2.5}$ because of this potential risk to human health.

The United States Environmental Protection Agency (EPA) sets National Ambient Air Quality Standards under the regulatory authority of the Clean Air Act for pollutants considered harmful to public health and the environment. The national standard set by EPA for the 24 hour average of $PM_{2.5}$ is 35 micrograms per cubic meter ($\mu g/m^3$). Samples collected by Escambia County were one minute averages. The shorter sample duration allowed NRM to collect a snapshot of current conditions over a relatively large area surrounding the Rolling Hills facility.

Escambia County conducted ambient air monitoring in the communities surrounding the Rolling Hills facility on February 16th, 17th, 18th, 19th, 20th, 22nd, and 24th. A total of 135 air samples were collected. The maximum $PM_{2.5}$ concentration detected was 810 $\mu g/m^3$. Data collected was submitted to the Florida Department of Health (FDOH) for review. FDOH issued a Health Advisory based on the data submitted by Escambia County NRM on February 17, 2017. The Health Advisory was later rescinded on February 27, 2017 as conditions returned to normal. A copy of this advisory and the subsequent rescission are included with this report as Appendix A.

Escambia County mobilized heavy equipment and work crews starting on Friday, February 17, 2017 to reduce offsite impacts associated with smoke, and smothered the fire with dirt. The fire was determined to be extinguished on Monday, February 27, 2017.

$PM_{2.5}$ data collected during the incident is summarized in the following tables and figures.

Table 1: $PM_{2.5}$ Monitoring Results from Thursday, February 16, 2017

Date: Thursday, February 16, 2017 - Time: 6pm – 9pm
Number of Samples: 25 – Max: 810 µg/m^3 – Min: 9 µg/m^3
Wind Direction: WSW - Wind Speed: ~5kts

Sample Location	1-Minute Average $PM_{2.5}$ (µg/m^3)
Rolling Hills Southeast Fence Line off Prosperity Place	15
Northeast Corner of Forest Green Road	9
Escambia County Emergency Operations Center	15
Rolling Hills Northeast Fence Line	22
Wedgewood Community Center Parking Lot	21
Pinestead Road @ Melanie Drive	12
Tina Avenue @ Vivian Drive	130
Lydia Avenue @ Vivian Drive	810
Anita Avenue @ Vivian Drive	19
Lydia Avenue @ Melanie Drive	488
6911 Pensacola Boulevard	288
502 Milstead Street	26
Beeler Street @ Milstead Street	71
East End of Milstead Street	60
South End of Otto Avenue	399
South End of Burrell Lane	231
6861 North Old Palafox Street	237
Dale Street @ Pinestead Road	324
Hoyt Street @ Forshalee Street	15
Kelvin Terrace @ Forshalee Street	16
Confederate Drive @ Gettysburg Drive	40
Southern Street @ Confederate Drive	12
Rolling Hills C&DD Facility Main Gate	18
6760 Rolling Hills Road	23
Longleaf Drive @ Wymart Road	15

Table 2: $PM_{2.5}$ Monitoring Results from Friday, February 17, 2017

Date: Friday, February 17, 2017 - Time: 6pm – 9pm
Number of Samples: 24 – Max: 118 µg/m^3 – Min: 9 µg/m^3
Wind Direction: ESE - Wind Speed: ~3kts

Sample Location	1-Minute Average $PM_{2.5}$ (µg/m^3)
Rolling Hills Southeast Fence Line off Prosperity Place	33
Enterprise Drive under Gulf Power Easement	31
Northeast Corner of Forest Green Road	26
Escambia County Emergency Operations Center	15
Rolling Hills Northeast Fence Line	41
Wedgewood Community Center Parking Lot	54
Wedgewood Community Center Front Desk	21
Pinestead Road @ Melanie Drive	27
Tina Avenue @ Vivian Drive	22
Lydia Avenue @ Vivian Drive	16
Anita Avenue @ Vivian Drive	15
Kenmore Avenue @ Melanie Drive	21
Hampton Road @ Alfonso Street	19
Hampton Road @ Dunbar Road	16
6610 Hampton Road	118
Hampton Road @ Rolling Hills Road	17
6760 Rolling Hills Road	9
Rolling Hills C&DD Facility Main Gate	9
Longleaf Drive @ Wymart Road	15
Wingfoot Way @ 6634 Hampton Road	57
1292 Wingfoot Way	32
1158 Capitol Boulevard	19
Yawl Circle @ Rolling Hills Road	30
Wedgewood Park off Wagner Road	14

Table 3: $PM_{2.5}$ Monitoring Results from Saturday, February 18, 2017

Date: Saturday, February 18, 2017 - Time: 6pm – 9pm
Number of Samples: 25 – Max: 125 µg/m^3 – Min: 12 µg/m^3
Wind Direction: N/A Wind Speed: Calm

Sample Location	1-Minute Average $PM_{2.5}$ (µg/m^3)
Rolling Hills Southeast Fence Line off Prosperity Place	125
Enterprise Drive under Gulf Power Easement	18
Northeast Corner of Forest Green Road	12
Escambia County Emergency Operations Center	22
Tina Avenue @ Vivian Drive	31
Lydia Avenue @ Vivian Drive	31
Anita Avenue @ Vivian Drive	24
Kenmore Avenue @ Melanie Drive	30
Pinestead Road @ Melanie Drive	24
Hampton Road @ Alfonso Street	22
Hampton Road @ Dunbar Road	21
Wedgewood Park off Wagner Road	19
Wedgewood Community Center Parking Lot	20
Rolling Hills Northeast Fence Line	20
Rolling Hills Northwest Fence Line	17
Rolling Hills C&DD Facility Main Gate	36
6760 Rolling Hills Road	39
South End of Rolling Hills Road	39
Gulley Lane @ Sir Horne Drive	31
Longleaf Drive @ Wymart Road	36
Longlead Drive @ Community Drive	25
Kemp Road @ Cornelius Lane	35
Hampton Road @ Rolling Hills Road	49
Yawl Circle @ Rolling Hills Road	37
Knight Drive @ Rolling Hills Road	22

Table 4: $PM_{2.5}$ Monitoring Results from Sunday, February 19, 2017

Date: Sunday, February 18, 2017 - Time: 11am – 2pm
Number of Samples: 17 – Max: 67 µg/m^3 – Min: 6 µg/m^3
Wind Direction: SE - Wind Speed: ~5kts

Sample Location	1-Minute Average $PM_{2.5}$ (µg/m^3)
Rolling Hills Southeast Fence Line off Prosperity Place	9
Enterprise Drive under Gulf Power Easement	6
Northeast Corner of Forest Green Road	7
Escambia County Emergency Operations Center	10
Tina Avenue @ Vivian Drive	7
Lydia Avenue @ Vivian Drive	9
Anita Avenue @ Vivian Drive	10
Kenmore Avenue @ Melanie Drive	8
Pinestead Road @ Melanie Drive	8
Hampton Road @ Alfonso Street	9
Hampton Road @ Dunbar Road	9
Wedgewood Park off Wagner Road	9
Wedgewood Community Center Parking Lot	8
Rolling Hills Northeast Fence Line	9
Rolling Hills Northwest Fence Line	9
Rolling Hills onsite near Northwest Fence Line	67
Rolling Hills C&DD Facility Main Gate	7
6760 Rolling Hills Road	7

Table 5: $PM_{2.5}$ Monitoring Results from Monday, February 20, 2017

Date: Monday, February 20, 2017 - Time: 12:30pm – 2:30pm
Number of Samples: 14 – Max: 16 µg/m^3 – Min: 8 µg/m^3
Wind Direction: SE - Wind Speed: ~5 -10kts

Sample Location	1-Minute Average $PM_{2.5}$ (µg/m^3)
Rolling Hills Southeast Fence Line off Prosperity Place	11
Northeast Corner of Forest Green Road	10
Escambia County Emergency Operations Center	10
Tina Avenue @ Vivian Drive	14
Lydia Avenue @ Vivian Drive	16
Kenmore Avenue @ Melanie Drive	13
Pinestead Road @ Melanie Drive	11
Hampton Road @ Alfonso Street	11
Wedgewood Community Center Parking Lot	16
Rolling Hills Northeast Fence Line	12
Rolling Hills Northwest Fence Line	9
Rolling Hills C&DD Facility Main Gate	10
Bud Johnson Drive @ Rolling Hills Road	9
6760 Rolling Hills Road	8

Table 6: $PM_{2.5}$ Monitoring Results from Wednesday, February 22, 2017

Date: Wednesday, February 22, 2017 - Time: 3pm – 5pm
Number of Samples: 15 – Max: 20 µg/m^3 – Min: 7 µg/m^3
Wind Direction: N - Wind Speed: ~5 - 10kts

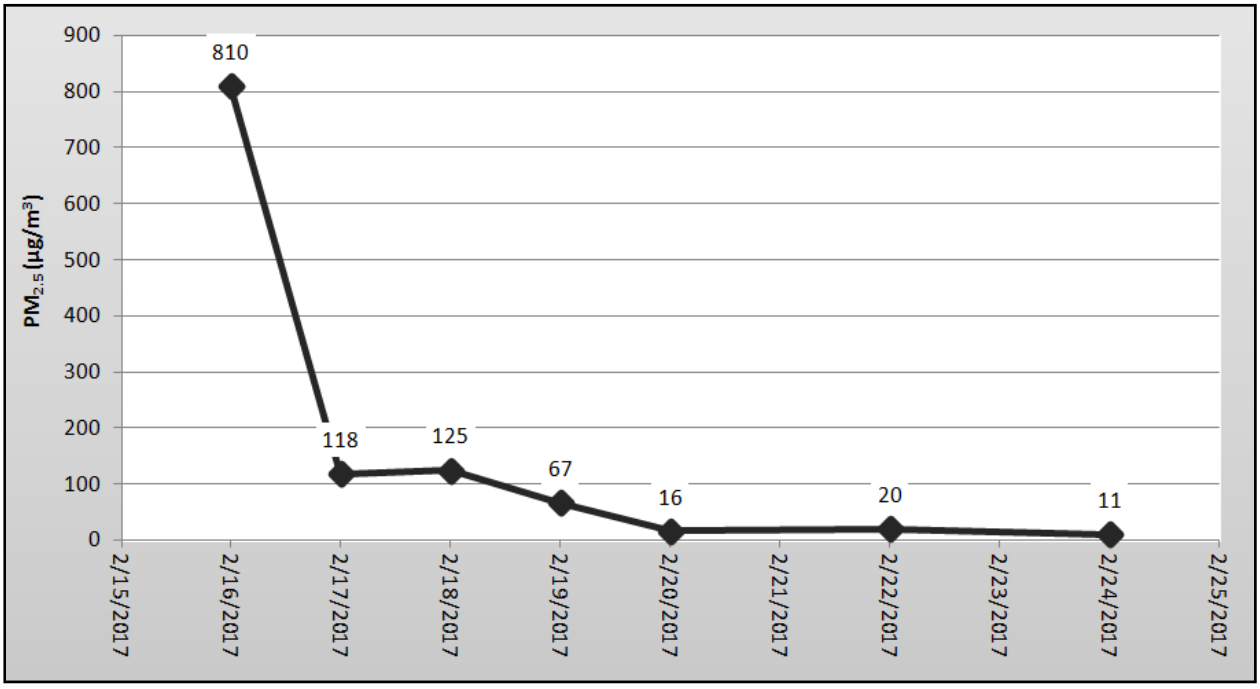
Sample Location	1-Minute Average $PM_{2.5}$ (µg/m^3)
Rolling Hills Southeast Fence Line off Prosperity Place	8
Northeast Corner of Forest Green Road	7
Escambia County Emergency Operations Center	9
Tina Avenue @ Vivian Drive	9
Lydia Avenue @ Vivian Drive	9
Anita Avenue @ Vivian Drive	8
Kenmore Avenue @ Melanie Drive	9
Pinestead Road @ Melanie Drive	8
Hampton Road @ Alfonso Street	8
Wedgewood Community Center Parking Lot	7
Rolling Hills Northeast Fence Line	8
Rolling Hills Northwest Fence Line	15
Bud Jonson Drive @ Rolling Hills Road	9
Rolling Hills C&DD Facility Main Gate	20
6760 Rolling Hills Road	12

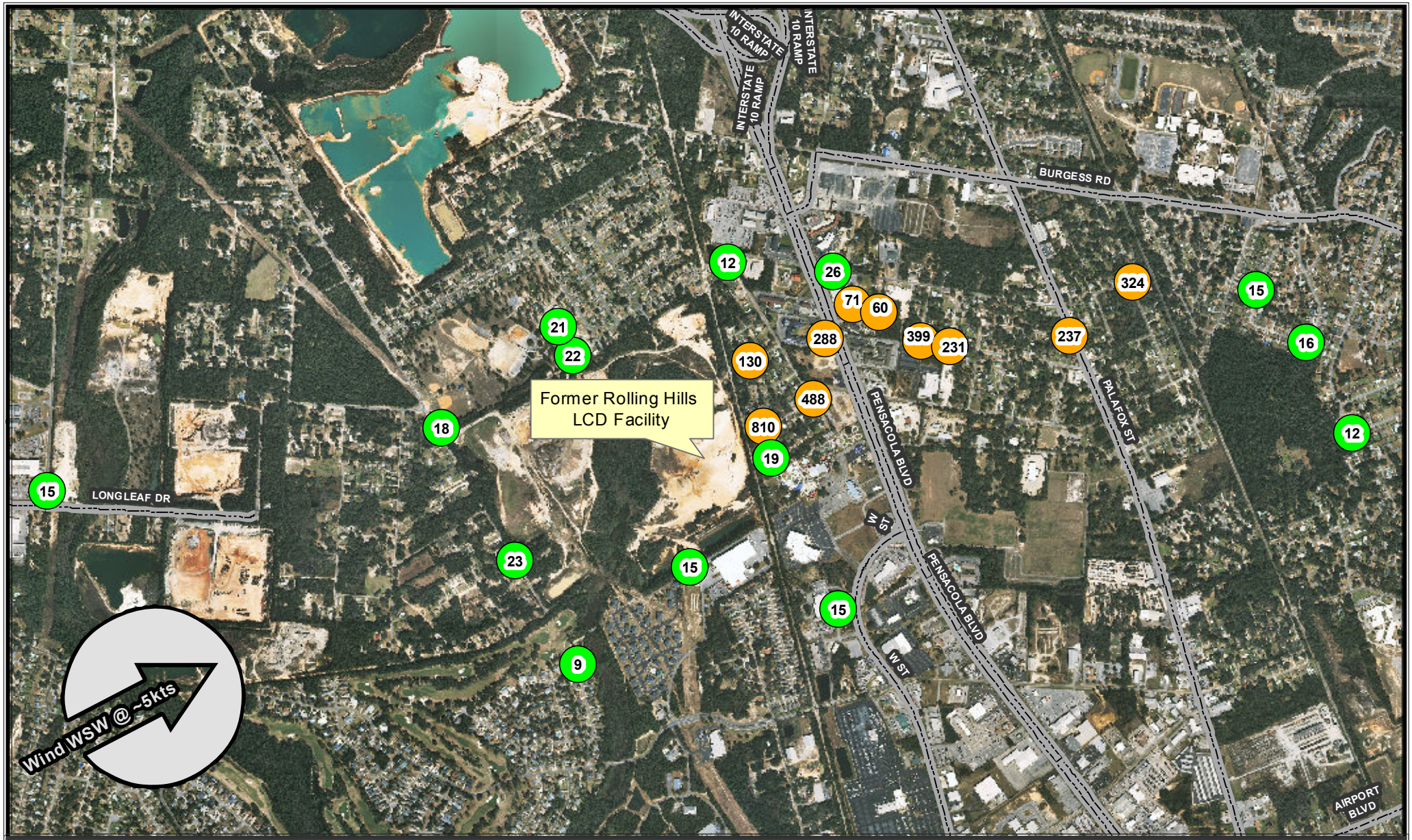
Table 7: $PM_{2.5}$ Monitoring Results from Friday, February 24, 2017

Date: Friday, February 24, 2017 - Time: 11am – 1pm
Number of Samples: 15 – Max: 11 µg/m^3 – Min: 8 µg/m^3
Wind Direction: SSE - Wind Speed: ~10kts

Sample Location	1-Minute Average $PM_{2.5}$ (µg/m^3)
Rolling Hills Southeast Fence Line off Prosperity Place	8
Northeast Corner of Forest Green Road	9
Escambia County Emergency Operations Center	9
Tina Avenue @ Vivian Drive	11
Lydia Avenue @ Vivian Drive	10
Anita Avenue @ Vivian Drive	9
Kenmore Avenue @ Melanie Drive	11
Pinestead Road @ Melanie Drive	11
Hampton Road @ Alfonso Street	10
Wedgewood Community Center Parking Lot	9
Rolling Hills Northeast Fence Line	8
Rolling Hills Northwest Fence Line	10
Bud Jonson Drive @ Rolling Hills Road	8
Rolling Hills C&DD Facility Main Gate	9
6760 Rolling Hills Road	8

Figure 1: Maximum Concentration of Particulate Matter ($PM_{2.5}$) Detected in Air by Date





ROLLING HILLS LCD FIRE PARTICULATE MONITORING

PARTICULATE MATTER IN AIR ($PM_{2.5}$)
AIR SAMPLES ANALYZED THE EVENING OF THURSDAY, FEBRUARY 16, 2017
1 MINUTE AVERAGES

0 — 1 Mile

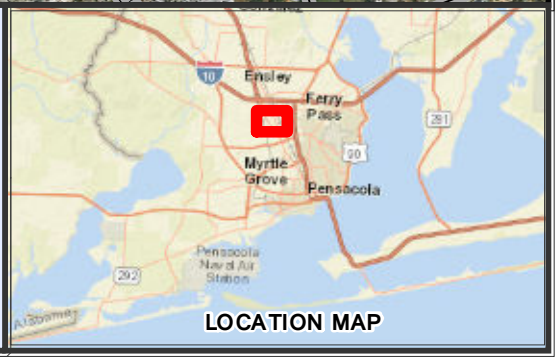
ESCAMBIA COUNTY FLORIDA

Sample Locations

- <=35 ug/m^3
- >35 ug/m^3

N

Information depicted on this map should only be used for its intended purpose.



LOCATION MAP

ROLLING HILLS LCD FIRE PARTICULATE MONITORING

PARTICULATE MATTER IN AIR ($PM_{2.5}$)
AIR SAMPLES ANALYZED THE EVENING OF FRIDAY, FEBRUARY 17, 2017
1 MINUTE AVERAGES

0

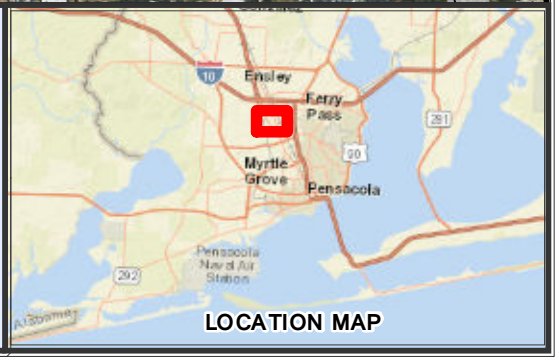
ESCAMBIA COUNTY FLORIDA

Value

- <=35 ug/m^3
- >35 ug/m^3

N

Information depicted on this map should only be used for its intended purpose.



ROLLING HILLS LCD FIRE PARTICULATE MONITORING

PARTICULATE MATTER IN AIR ($PM_{2.5}$)
AIR SAMPLES ANALYZED THE EVENING OF SATURDAY, FEBRUARY 18, 2017
1 MINUTE AVERAGES

0 0.5 Mile

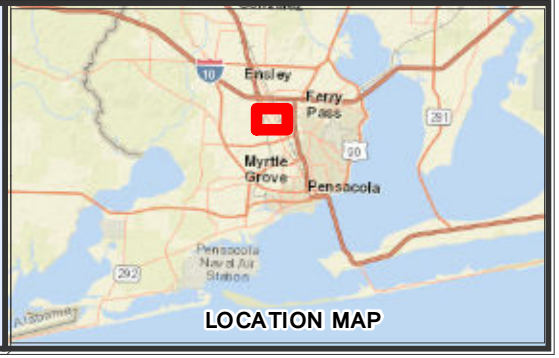
ESCAMBIA COUNTY FLORIDA

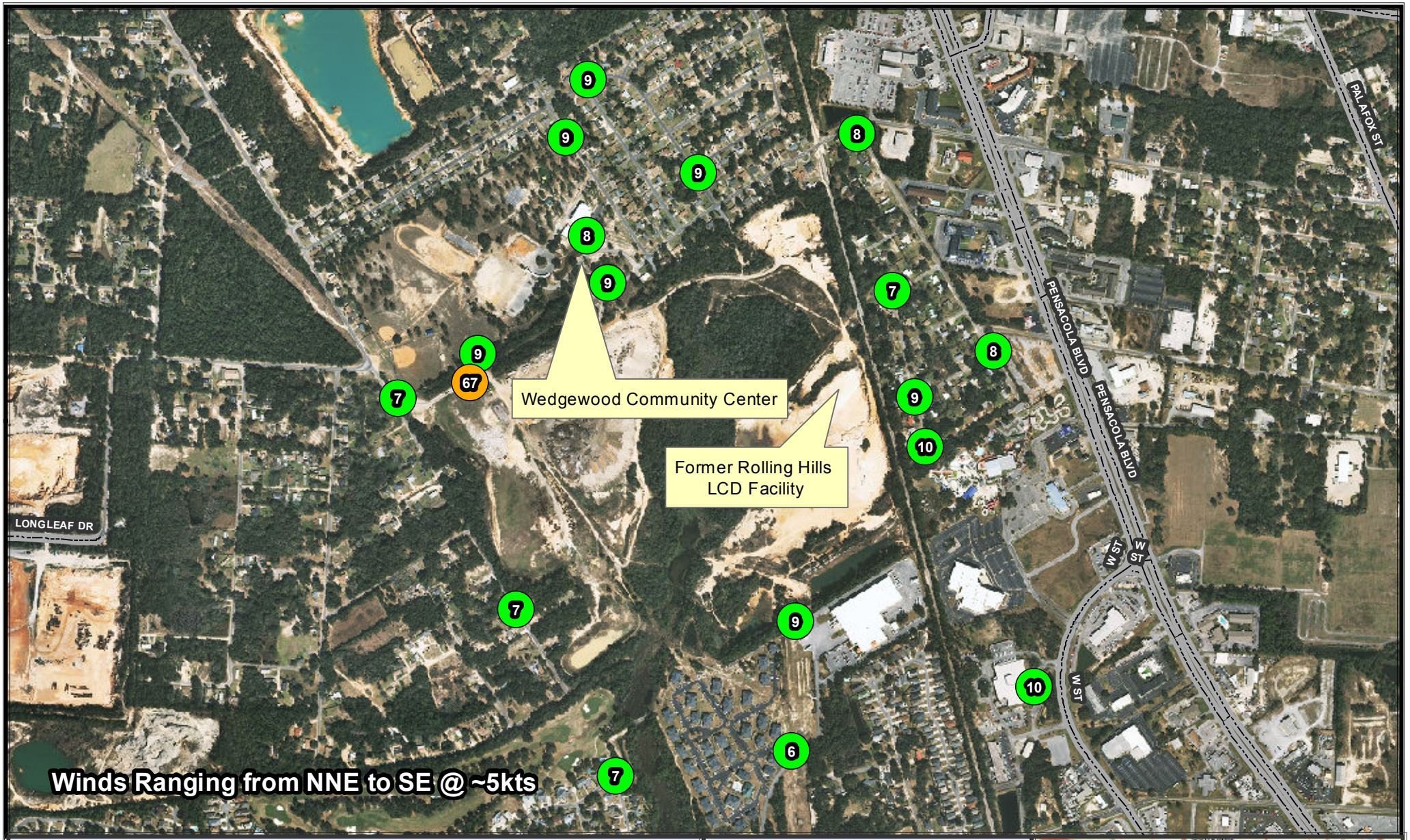
Value

- <=35 ug/m^3
- >35 ug/m^3

Information depicted on this map should only be used for its intended purpose.

N





ROLLING HILLS LCD FIRE PARTICULATE MONITORING

PARTICULATE MATTER IN AIR ($PM_{2.5}$)
AIR SAMPLES ANALYZED THE AFTERNOON OF SUNDAY, FEBRUARY 19, 2017
1 MINUTE AVERAGES

0 0.5 Mile

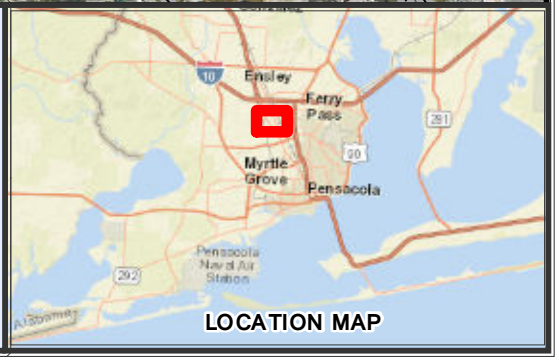
ESCAMBIA COUNTY FLORIDA

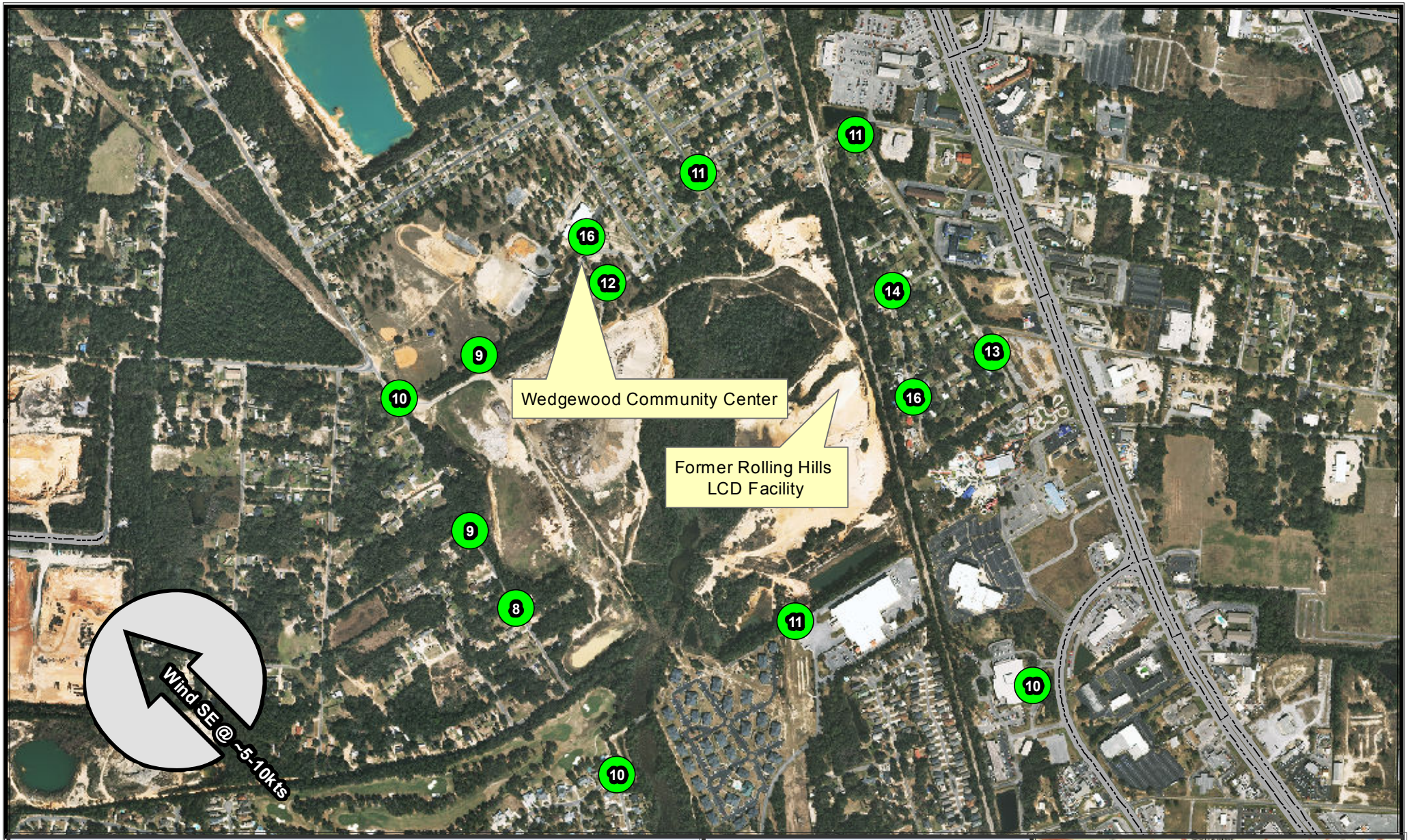
Value

- <=35 ug/m^3
- >35 ug/m^3

N

Information depicted on this map should only be used for its intended purpose.





ROLLING HILLS LCD FIRE PARTICULATE MONITORING

PARTICULATE MATTER IN AIR ($PM_{2.5}$)
AIR SAMPLES ANALYZED THE AFTERNOON OF MONDAY, FEBRUARY 20, 2017
1 MINUTE AVERAGES

0 — 0.5 Mile

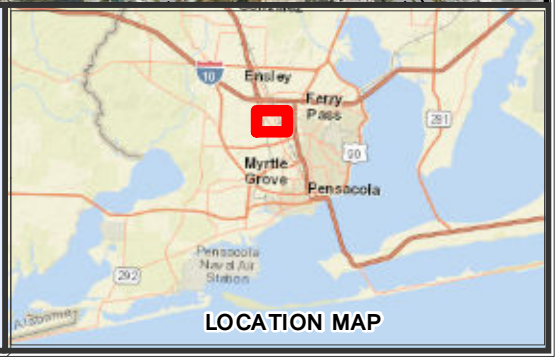
ESCAMBIA COUNTY FLORIDA

<=35 ug/m^3

>35 ug/m^3

Information depicted on this map should only be used for its intended purpose.

N



LOCATION MAP

ROLLING HILLS LCD FIRE PARTICULATE MONITORING

PARTICULATE MATTER IN AIR ($PM_{2.5}$)
AIR SAMPLES ANALYZED THE AFTERNOON OF WEDNESDAY, FEBRUARY 22, 2017
1 MINUTE AVERAGES

0 0.5 Mile

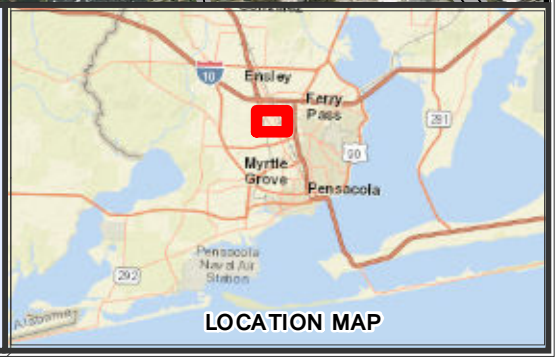
ESCAMBIA COUNTY FLORIDA

<=35 ug/m^3

>35 ug/m^3

N

Information depicted on this map should only be used for its intended purpose.



ROLLING HILLS LCD FIRE PARTICULATE MONITORING

PARTICULATE MATTER IN AIR ($PM_{2.5}$)
AIR SAMPLES ANALYZED THE AFTERNOON OF FRIDAY, FEBRUARY 24, 2017
1 MINUTE AVERAGES

0 — 0.5 Mile

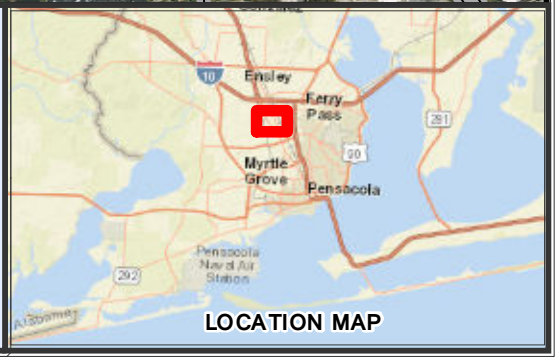
ESCAMBIA COUNTY FLORIDA

<=35 ug/m^3

>35 ug/m^3

N

Information depicted on this map should only be used for its intended purpose.



Appendix 3

Hydrogen Sulfide Monitoring

Equipment Calibration Records

ARIZONA INSTRUMENT LLC
3375 N. Delaware St., Chandler, AZ 85225
(800) 528-7411 • (602) 470-1414
www.azic.com • customerservice@azic.com

Certification of Instrument Calibration

Escambia County Department of Solid Waste
13009 Beulah Rd
Cantonment, FL 32533-8801

RMA # 2376474

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2670**, with Sensor Number **16-5-20-Z2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.156	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	35.67				<5%
Outgoing:	Range 1	0.503	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.34				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 21-Sep-2016 Recalibration Date: 20-Sep-2017

Temperature °F: 73.60 % Relative Humidity: 51.00

Approved By: Cheryl Hradek Date Approved: 22-Sep-2016
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-128282 **NIST#:** 1323407
Calibration Date: 07-Jan-2015 **Calibration Date Due:** 08-Jan-2018

Mass Flow Controller B: 124604 **NIST#:** 130114
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Mass Flow Controller D: 124602 **NIST#:** 130140
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Digital Multimeter: 66961028 **NIST#:** 7002611
Calibration Date: 22-Mar-2016 **Calibration Date Due:** 22-Mar-2017

Flowmeter: US10H44183 **NIST#:** 1813; 1817; 1796
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Calibration Procedure Used: 730-0032

Arizona Instrument certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, Arizona Instrument LLC WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications.
As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

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Certification of Instrument Calibration

Escambia County Department of Solid Waste
3363 W. Park Place
Pensacola, FL 32505

RMA # 2501317

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2670**, with Sensor Number **17-5-26-R2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.259	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	27.19				<5%
Outgoing:	Range 1	0.513	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.47				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 10-Oct-2017 Recalibration Date: 09-Oct-2018

Temperature °F: 72.80 % Relative Humidity: 13.70

Approved By: Cheryl Hradek Date Approved: 10-Oct-2017
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-57152 **NIST#:** 1385481
Calibration Date: 17-Aug-2016 **Calibration Date Due:** 18-Aug-2019

Mass Flow Controller B: 124604 **NIST#:** 152971
Calibration Date: 28-Nov-2016 **Calibration Date Due:** 28-Nov-2017

Mass Flow Controller D: 124602 **NIST#:** 151792
Calibration Date: 08-Nov-2016 **Calibration Date Due:** 08-Nov-2017

Digital Multimeter: 66961028 **NIST#:** 7000660
Calibration Date: 28-Mar-2017 **Calibration Date Due:** 28-Mar-2018

Flowmeter: US10H44183 **NIST#:** 1813; 1817; 1796
Calibration Date: 08-Nov-2016 **Calibration Date Due:** 09-Nov-2017

Calibration Procedure Used: 730-0032

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Exclusive Manufacturer of Computrac® Moisture Analyzers and Jerome® Mercury & Hydrogen Sulfide Analyzers

Certification of Instrument Calibration

Escambia County Department of Solid Waste
3363 W. Park Place
Pensacola, FL 32505

RMA # 2619493

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2670**, with Sensor Number **18-8-8-T2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.189	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	15.67				<5%
Outgoing:	Range 1	0.512	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.71				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 09-Nov-2018 Recalibration Date: 08-Nov-2019

Temperature °F: 68.80 % Relative Humidity: 17.20

Approved By: Cheryl Hradek Date Approved: 09-Nov-2018
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 178012
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Mass Flow Controller D: 124602 **NIST#:** 178002
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Digital Multimeter: 74620534 **NIST#:** 7003079
Calibration Date: 16-Feb-2018 **Calibration Date Due:** 16-Feb-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

AMETEK Arizona Instrument certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
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Certification of Instrument Calibration

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3363 W. Park Place
Pensacola, FL 32505

RMA # 2684691

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2670**, with Sensor Number **18-8-8-T2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.540	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.60				<5%
Outgoing:	Range 1	0.494	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.23				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 12-Sep-2019 Recalibration Date: 11-Sep-2020

Temperature °F: 71.60 % Relative Humidity: 50.70

Approved By: Cheryl Hradek Date Approved: 12-Sep-2019
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 84030258 **NIST#:** 7003079
Calibration Date: 08-Nov-2018 **Calibration Date Due:** 08-Nov-2019

Flowmeter: US12I54959 **NIST#:** 1813; 1817; 1796
Calibration Date: 26-Sep-2018 **Calibration Date Due:** 27-Sep-2019

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Escambia County
3363 W. Park Place
Pensacola, FL 32505

RMA # 2765807

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2670**, with Sensor Number **20-5-26-Z2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.490	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.29				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 24-Aug-2020 Recalibration Date: 23-Aug-2021

Temperature °F: 72.00 % Relative Humidity: 57.70

Approved By: _____ Date Approved: 01-Sep-2020
Title: Jason Cook - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 124604 **NIST#:** 256148
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Mass Flow Controller D: 124602 **NIST#:** 256155
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Digital Multimeter: 93980290 **NIST#:** 7003135
Calibration Date: 30-Oct-2019 **Calibration Date Due:** 30-Oct-2020

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 19-Dec-2019 **Calibration Date Due:** 19-Dec-2020

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Escambia County
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Pensacola, FL 32505

RMA # 2823497

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2670**, with Sensor Number **21-2-4-W2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.479	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.65				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 26-Jul-2021 Recalibration Date: 25-Jul-2022

Temperature °F: 71.90 % Relative Humidity: 79.10

Approved By: Cheryl Hradek Date Approved: 26-Jul-2021
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: DT0001926 **NIST#:** SRM 2730; 65-D-035; CAL013399
Calibration Date: 17-Aug-2020 **Calibration Date Due:** 17-Aug-2023

Mass Flow Controller B: 124610 **NIST#:** 256156
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Mass Flow Controller D: 124604 **NIST#:** 256148
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Digital Multimeter: 17680239 **NIST#:** 7002611
Calibration Date: 24-Aug-2020 **Calibration Date Due:** 24-Aug-2021

Flowmeter: US15G63224 **NIST#:** 1813; 1817; 1796
Calibration Date: 06-Oct-2020 **Calibration Date Due:** 06-Oct-2021

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Escambia County Department of Solid Waste
3363 W. Park Place
Pensacola, FL 32505

RMA # 2471037

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2716**, with Sensor Number **16-1-22-T2C**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **In Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.493	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.19				<5%
Outgoing:	Range 1	0.494	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.48				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 11-Jul-2017 Recalibration Date: 10-Jul-2018

Temperature °F: 74.00 % Relative Humidity: 52.80

Approved By: Cheryl Hradek Date Approved: 12-Jul-2017
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-57152 **NIST#:** 1385481
Calibration Date: 17-Aug-2016 **Calibration Date Due:** 18-Aug-2019

Mass Flow Controller B: 124604 **NIST#:** 152971
Calibration Date: 28-Nov-2016 **Calibration Date Due:** 28-Nov-2017

Mass Flow Controller D: 124602 **NIST#:** 151792
Calibration Date: 08-Nov-2016 **Calibration Date Due:** 08-Nov-2017

Digital Multimeter: 17680239 **NIST#:** 7002611
Calibration Date: 06-Oct-2016 **Calibration Date Due:** 06-Oct-2017

Flowmeter: 154482 **NIST#:** 170503154482_000
Calibration Date: 03-May-2017 **Calibration Date Due:** 03-May-2018

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Escambia County Department of Solid Waste
3363 W. Park Place
Pensacola, FL 32505

RMA # 2557686

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2716**, with Sensor Number **17-10-26-Z2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.519	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.60				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 27-Apr-2018 Recalibration Date: 26-Apr-2019

Temperature °F: 75.70 % Relative Humidity: 23.90

Approved By: Cheryl Hradek Date Approved: 27-Apr-2018
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 178012
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Mass Flow Controller D: 124602 **NIST#:** 178002
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Digital Multimeter: 66961028 **NIST#:** 7003079
Calibration Date: 16-Feb-2018 **Calibration Date Due:** 16-Feb-2019

Flowmeter: US16G65993 **NIST#:** 1813; 1817; 1796
Calibration Date: 20-Oct-2017 **Calibration Date Due:** 21-Oct-2018

Calibration Procedure Used: 730-0032

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RMA # 2653951

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2716**, with Sensor Number **19-01-16-X2AS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.489	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.24				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 03-Apr-2019 Recalibration Date: 02-Apr-2020

Temperature °F: 72.20 % Relative Humidity: 20.70

Approved By:_____ Date Approved: 09-Apr-2019
Title: Michael Attwood - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 84030258 **NIST#:** 7003079
Calibration Date: 08-Nov-2018 **Calibration Date Due:** 08-Nov-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

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RMA # 2705132

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2716**, with Sensor Number **19-9-11-Y1BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.294	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	25.41				<5%
Outgoing:	Range 1	0.491	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.40				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 16-Dec-2019 Recalibration Date: 15-Dec-2020

Temperature °F: 70.80 % Relative Humidity: 27.70

Approved By: Jackie Kreitlow Date Approved: 17-Dec-2019
Title: Jackie Kreitlow - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 131819 **NIST#:** 651678
Calibration Date: 26-Nov-2019 **Calibration Date Due:** 26-Nov-2020

Mass Flow Controller D: 60245 **NIST#:** 236424
Calibration Date: 01-Jul-2019 **Calibration Date Due:** 01-Jul-2020

Digital Multimeter: 74620534 **NIST#:** 7003135
Calibration Date: 16-Feb-2019 **Calibration Date Due:** 16-Feb-2020

Flowmeter: US04H25956 **NIST#:** 1813; 1817; 1796
Calibration Date: 12-Aug-2019 **Calibration Date Due:** 12-Aug-2020

Calibration Procedure Used: 730-0032

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RMA # 2809165

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2716**, with Sensor Number **21-1-20-X2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.367	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	6.59				<5%
Outgoing:	Range 1	0.497	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.31				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 15-Apr-2021 Recalibration Date: 14-Apr-2022

Temperature °F: 72.10 % Relative Humidity: 19.20

Approved By: Cheryl Hradek Date Approved: 19-Apr-2021
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: DT0001926 **NIST#:** SRM 2730; 65-D-035; CAL013399
Calibration Date: 17-Aug-2020 **Calibration Date Due:** 17-Aug-2023

Mass Flow Controller B: 124610 **NIST#:** 256156
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Mass Flow Controller D: 124604 **NIST#:** 256148
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Digital Multimeter: 17680239 **NIST#:** 7002611
Calibration Date: 24-Aug-2020 **Calibration Date Due:** 24-Aug-2021

Flowmeter: US15G63224 **NIST#:** 1813; 1817; 1796
Calibration Date: 06-Oct-2020 **Calibration Date Due:** 06-Oct-2021

Calibration Procedure Used: 730-0032

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Escambia County Water Quality
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RMA # 2361456

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2934**, with Sensor Number **16-4-15-R2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.000	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	0.00				<5%
Outgoing:	Range 1	0.511	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.87				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 28-Jul-2016 Recalibration Date: 27-Jul-2017

Temperature °F: 74.70 % Relative Humidity: 50.50

Approved By: Cheryl Hradek Date Approved: 28-Jul-2016
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-128282 **NIST#:** 1323407
Calibration Date: 07-Jan-2015 **Calibration Date Due:** 08-Jan-2018

Mass Flow Controller B: 124606 **NIST#:** 130142
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Mass Flow Controller D: 124609 **NIST#:** 130128
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Digital Multimeter: 33390673WS **NIST#:** 7002611
Calibration Date: 24-Mar-2016 **Calibration Date Due:** 24-Mar-2017

Flowmeter: US04H25956 **NIST#:** 1813; 1817; 1796
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Calibration Procedure Used: 730-0032

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RMA # 2485223

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2934**, with Sensor Number **16-4-15-R2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.481	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	3.05				<5%
Outgoing:	Range 1	0.496	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.55				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 28-Aug-2017 Recalibration Date: 27-Aug-2018

Temperature °F: 74.70 % Relative Humidity: 47.00

Approved By: Cheryl Hradek Date Approved: 29-Aug-2017
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-57152 **NIST#:** 1385481
Calibration Date: 17-Aug-2016 **Calibration Date Due:** 18-Aug-2019

Mass Flow Controller B: 124604 **NIST#:** 152971
Calibration Date: 28-Nov-2016 **Calibration Date Due:** 28-Nov-2017

Mass Flow Controller D: 124602 **NIST#:** 151792
Calibration Date: 08-Nov-2016 **Calibration Date Due:** 08-Nov-2017

Digital Multimeter: 66961028 **NIST#:** 7000660
Calibration Date: 28-Mar-2017 **Calibration Date Due:** 28-Mar-2018

Flowmeter: US10H44183 **NIST#:** 1813; 1817; 1796
Calibration Date: 08-Nov-2016 **Calibration Date Due:** 09-Nov-2017

Calibration Procedure Used: 730-0032

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RMA # 2573880

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2934**, with Sensor Number **18-4-25-Z2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.477	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	12.91				<5%
Outgoing:	Range 1	0.501	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.23				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 28-Jun-2018 Recalibration Date: 27-Jun-2019

Temperature °F: 74.80 % Relative Humidity: 31.10

Approved By: Cheryl Hradek Date Approved: 29-Jun-2018
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 178012
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Mass Flow Controller D: 124602 **NIST#:** 178002
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Digital Multimeter: 66961028 **NIST#:** 7003079
Calibration Date: 16-Feb-2018 **Calibration Date Due:** 16-Feb-2019

Flowmeter: US16G65993 **NIST#:** 1813; 1817; 1796
Calibration Date: 20-Oct-2017 **Calibration Date Due:** 21-Oct-2018

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Escambia County Water Quality
3363 W. Park Place
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RMA # 2653185

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2934**, with Sensor Number **19-01-16-V2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.524	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.72				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 03-Apr-2019 Recalibration Date: 02-Apr-2020

Temperature °F: 72.20 % Relative Humidity: 20.70

Approved By:_____ Date Approved: 08-Apr-2019
Title: Michael Attwood - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 84030258 **NIST#:** 7003079
Calibration Date: 08-Nov-2018 **Calibration Date Due:** 08-Nov-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

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RMA # 2705133

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2934**, with Sensor Number **19-9-11-W1CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.479	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.58				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 25-Nov-2019 Recalibration Date: 24-Nov-2020

Temperature °F: 71.00 % Relative Humidity: 35.30

Approved By: Cheryl Hradek Date Approved: 26-Nov-2019
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 74620505 **NIST#:** 7003079
Calibration Date: 05-Apr-2019 **Calibration Date Due:** 05-Apr-2020

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 12-Aug-2019 **Calibration Date Due:** 12-Aug-2020

Calibration Procedure Used: 730-0032

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RMA # 2809155

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2934**, with Sensor Number **21-1-20-W2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.151	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	39.05				<5%
Outgoing:	Range 1	0.479	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.32				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 15-Apr-2021 Recalibration Date: 14-Apr-2022

Temperature °F: 72.10 % Relative Humidity: 19.20

Approved By: Cheryl Hradek Date Approved: 19-Apr-2021
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: DT0001926 **NIST#:** SRM 2730; 65-D-035; CAL013399
Calibration Date: 17-Aug-2020 **Calibration Date Due:** 17-Aug-2023

Mass Flow Controller B: 124610 **NIST#:** 256156
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Mass Flow Controller D: 124604 **NIST#:** 256148
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Digital Multimeter: 17680239 **NIST#:** 7002611
Calibration Date: 24-Aug-2020 **Calibration Date Due:** 24-Aug-2021

Flowmeter: US15G63224 **NIST#:** 1813; 1817; 1796
Calibration Date: 06-Oct-2020 **Calibration Date Due:** 06-Oct-2021

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Escambia County Water Quality
3363 W. Park Place
Pensacola, FL 32505

RMA # 2423953

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2937**, with Sensor Number **16-10-13-T2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.501	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.21				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 15-Feb-2017 Recalibration Date: 14-Feb-2018

Temperature °F: 71.00 % Relative Humidity: 31.70

Approved By: Cheryl Hradek Date Approved: 16-Feb-2017
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-57152 **NIST#:** 1385481
Calibration Date: 17-Aug-2016 **Calibration Date Due:** 18-Aug-2019

Mass Flow Controller B: 124604 **NIST#:** 152971
Calibration Date: 28-Nov-2016 **Calibration Date Due:** 28-Nov-2017

Mass Flow Controller D: 124602 **NIST#:** 151792
Calibration Date: 08-Nov-2016 **Calibration Date Due:** 08-Nov-2017

Digital Multimeter: 66961028 **NIST#:** 7002611
Calibration Date: 22-Mar-2016 **Calibration Date Due:** 22-Mar-2017

Flowmeter: US10H44183 **NIST#:** 1813; 1817; 1796
Calibration Date: 08-Nov-2016 **Calibration Date Due:** 09-Nov-2017

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Escambia County Water Quality
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Pensacola, FL 32505

RMA # 2533604

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2937**, with Sensor Number **17-10-26-R2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Out of Calibration**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.309	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	10.07				<5%
Outgoing:	Range 1	0.506	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.62				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 01-Feb-2018 Recalibration Date: 31-Jan-2019

Temperature °F: 72.80 % Relative Humidity: 15.90

Approved By: Cheryl Hradek Date Approved: 01-Feb-2018
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 178012
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Mass Flow Controller D: 124602 **NIST#:** 178002
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Digital Multimeter: 66961028 **NIST#:** 7000660
Calibration Date: 28-Mar-2017 **Calibration Date Due:** 28-Mar-2018

Flowmeter: US04H25953 **NIST#:** 1813; 1817; 1796
Calibration Date: 25-Aug-2017 **Calibration Date Due:** 26-Aug-2018

Calibration Procedure Used: 730-0032

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Escambia County Water Quality
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RMA # 2634141

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2937**, with Sensor Number **18-11-29-W2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.492	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	0.99				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 25-Jan-2019 Recalibration Date: 24-Jan-2020

Temperature °F: 71.50 % Relative Humidity: 17.00

Approved By: Cheryl Hradek Date Approved: 28-Jan-2019
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 74620534 **NIST#:** 7003079
Calibration Date: 16-Feb-2018 **Calibration Date Due:** 16-Feb-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

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RMA # 2684688

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2937**, with Sensor Number **18-11-29-W2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1	0.540	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.60				<5%
Outgoing:	Range 1	0.480	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.51				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 12-Sep-2019 Recalibration Date: 11-Sep-2020

Temperature °F: 71.60 % Relative Humidity: 50.70

Approved By: Jackie Kreitlow Date Approved: 12-Sep-2019
Title: Jackie Kreitlow - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 84030258 **NIST#:** 7003079
Calibration Date: 08-Nov-2018 **Calibration Date Due:** 08-Nov-2019

Flowmeter: US12I54959 **NIST#:** 1813; 1817; 1796
Calibration Date: 26-Sep-2018 **Calibration Date Due:** 27-Sep-2019

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
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RMA # 2765803

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2937**, with Sensor Number **20-5-27-S2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.502	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.27				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 24-Aug-2020 Recalibration Date: 23-Aug-2021

Temperature °F: 72.00 % Relative Humidity: 57.70

Approved By: _____ Date Approved: 31-Aug-2020
Title: Jason Cook - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 124604 **NIST#:** 256148
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Mass Flow Controller D: 124602 **NIST#:** 256155
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Digital Multimeter: 93980290 **NIST#:** 7003135
Calibration Date: 30-Oct-2019 **Calibration Date Due:** 30-Oct-2020

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 19-Dec-2019 **Calibration Date Due:** 19-Dec-2020

Calibration Procedure Used: 730-0032

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RMA # 2823501

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2937**, with Sensor Number **21-2-4-R2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.486	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.08				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 29-Jul-2021 Recalibration Date: 28-Jul-2022

Temperature °F: 70.90 % Relative Humidity: 58.90

Approved By: Cheryl Hradek Date Approved: 30-Jul-2021
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: DT0001926 **NIST#:** SRM 2730; 65-D-035; CAL013399
Calibration Date: 17-Aug-2020 **Calibration Date Due:** 17-Aug-2023

Mass Flow Controller B: 124610 **NIST#:** 256156
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Mass Flow Controller D: 124604 **NIST#:** 256148
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Digital Multimeter: 17680239 **NIST#:** 7002611
Calibration Date: 24-Aug-2020 **Calibration Date Due:** 24-Aug-2021

Flowmeter: US15G63224 **NIST#:** 1813; 1817; 1796
Calibration Date: 06-Oct-2020 **Calibration Date Due:** 06-Oct-2021

Calibration Procedure Used: 730-0032

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Arizona Instrument LLC - Capital Equipment
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Chandler, AZ 85225

RMA # 2347491

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2180**, with Sensor Number **15-9-26-R2AS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **Functionally Unable to Check**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.501	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.89				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 16-Aug-2016 Recalibration Date: 15-Aug-2017

Temperature °F: 74.60 % Relative Humidity: 45.00

Approved By: Cheryl Hradek Date Approved: 16-Aug-2016
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-128282 **NIST#:** 1323407
Calibration Date: 07-Jan-2015 **Calibration Date Due:** 08-Jan-2018

Mass Flow Controller B: 124604 **NIST#:** 130114
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Mass Flow Controller D: 124602 **NIST#:** 130140
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Digital Multimeter: 66961028 **NIST#:** 7002611
Calibration Date: 22-Mar-2016 **Calibration Date Due:** 22-Mar-2017

Flowmeter: US10H44183 **NIST#:** 1813; 1817; 1796
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

Draper Aden and Assoc
8090 Villa Park Drive
Richmond, VA 23228

RMA # 2365890

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2401**, with Sensor Number **14-11-25-T2A**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.495	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.28				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 13-Oct-2016 Recalibration Date: 12-Oct-2017

Temperature °F: 72.20 % Relative Humidity: 26.40

Approved By: Cheryl Hradek Date Approved: 13-Oct-2016
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-128282 **NIST#:** 1323407
Calibration Date: 07-Jan-2015 **Calibration Date Due:** 08-Jan-2018

Mass Flow Controller B: 124604 **NIST#:** 130114
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Mass Flow Controller D: 124602 **NIST#:** 130140
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Digital Multimeter: 66961028 **NIST#:** 7002611
Calibration Date: 22-Mar-2016 **Calibration Date Due:** 22-Mar-2017

Flowmeter: US10H44183 **NIST#:** 1813; 1817; 1796
Calibration Date: 18-Nov-2015 **Calibration Date Due:** 18-Nov-2016

Calibration Procedure Used: 730-0032

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RMA # 2520629

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2478**, with Sensor Number **17-5-26-X2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.524	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.50				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 21-Dec-2017 Recalibration Date: 20-Dec-2018

Temperature °F: 70.60 % Relative Humidity: 27.00

Approved By: Cheryl Hradek Date Approved: 22-Dec-2017
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 178012
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Mass Flow Controller D: 124602 **NIST#:** 178002
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Digital Multimeter: 66961028 **NIST#:** 7000660
Calibration Date: 28-Mar-2017 **Calibration Date Due:** 28-Mar-2018

Flowmeter: US04H25953 **NIST#:** 1813; 1817; 1796
Calibration Date: 25-Aug-2017 **Calibration Date Due:** 26-Aug-2018

Calibration Procedure Used: 730-0032

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RMA # 2507009

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2141**, with Sensor Number **16-4-13-Z2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.477	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.80				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 27-Dec-2017 Recalibration Date: 26-Dec-2018

Temperature °F: 69.90 % Relative Humidity: 21.70

Approved By: Cheryl Hradek Date Approved: 29-Dec-2017
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 178012
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Mass Flow Controller D: 124602 **NIST#:** 178002
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Digital Multimeter: 66961028 **NIST#:** 7000660
Calibration Date: 28-Mar-2017 **Calibration Date Due:** 28-Mar-2018

Flowmeter: US04H25953 **NIST#:** 1813; 1817; 1796
Calibration Date: 25-Aug-2017 **Calibration Date Due:** 26-Aug-2018

Calibration Procedure Used: 730-0032

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Exclusive Manufacturer of Computrac® Moisture Analyzers and Jerome® Mercury & Hydrogen Sulfide Analyzers

Certification of Instrument Calibration

RMA # 2571118

AMETEK Arizona Instrument - Capital Equipment
3375 N. Delaware St.
Chandler, AZ 85225

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **1411**, with Sensor Number **18-6-26-R2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.504	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.73				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 17-Jul-2018 Recalibration Date: 16-Jul-2019

Temperature °F: 75.80 % Relative Humidity: 55.60

Approved By: Cheryl Hradek Date Approved: 23-Jul-2018
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 178012
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Mass Flow Controller D: 124602 **NIST#:** 178002
Calibration Date: 13-Nov-2017 **Calibration Date Due:** 13-Nov-2018

Digital Multimeter: 66961028 **NIST#:** 7003079
Calibration Date: 16-Feb-2018 **Calibration Date Due:** 16-Feb-2019

Flowmeter: US16G65993 **NIST#:** 1813; 1817; 1796
Calibration Date: 20-Oct-2017 **Calibration Date Due:** 21-Oct-2018

Calibration Procedure Used: 730-0032

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Certification of Instrument Calibration

AMETEK Brookfield - Capital Equipment
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Chandler, AZ 85225

RMA # 2627062

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2180**, with Sensor Number **18-10-3-V2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.490	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.18				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 10-Jan-2019 Recalibration Date: 09-Jan-2020

Temperature °F: 72.60 % Relative Humidity: 36.10

Approved By: Cheryl Hradek Date Approved: 08-Mar-2019
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 74620534 **NIST#:** 7003079
Calibration Date: 16-Feb-2018 **Calibration Date Due:** 16-Feb-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
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Certification of Instrument Calibration

AMETEK Brookfield - Capital Equipment
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Chandler, AZ 85225

RMA # 2650813

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2182**, with Sensor Number **18-10-3-R2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.491	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.53				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 25-Mar-2019 Recalibration Date: 24-Mar-2020

Temperature °F: 72.20 % Relative Humidity: 24.70

Approved By: Cheryl Hradek Date Approved: 26-Mar-2019
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 84030258 **NIST#:** 7003079
Calibration Date: 08-Nov-2018 **Calibration Date Due:** 08-Nov-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
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Certification of Instrument Calibration

AMETEK Brookfield - Capital Equipment
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Chandler, AZ 85225

RMA # 2673628

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **1411**, with Sensor Number **18-6-26-R2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.491	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.53				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 21-Jun-2019 Recalibration Date: 20-Jun-2020

Temperature °F: 73.10 % Relative Humidity: 22.30

Approved By: Jackie Kreitlow Date Approved: 24-Jun-2019
Title: Jackie Kreitlow - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 84030258 **NIST#:** 7003079
Calibration Date: 08-Nov-2018 **Calibration Date Due:** 08-Nov-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

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RMA # 2670310

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **1125**, with Sensor Number **19-04-18-R2AS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.512	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.12				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 27-Jun-2019 Recalibration Date: 26-Jun-2020

Temperature °F: 72.90 % Relative Humidity: 32.80

Approved By: Jackie Kreitlow Date Approved: 27-Jun-2019
Title: Jackie Kreitlow - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 84030258 **NIST#:** 7003079
Calibration Date: 08-Nov-2018 **Calibration Date Due:** 08-Nov-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

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RMA # 2722127

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **1411**, with Sensor Number **20-02-01-T2CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.518	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	2.50				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 04-Mar-2020 Recalibration Date: 03-Mar-2021

Temperature °F: 68.60 % Relative Humidity: 35.50

Approved By: Jackie Kreitlow Date Approved: 04-Mar-2020
Title: Jackie Kreitlow - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 124604 **NIST#:** 256148
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Mass Flow Controller D: 124602 **NIST#:** 256155
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Digital Multimeter: 84030258 **NIST#:** 7003135
Calibration Date: 10-Dec-2019 **Calibration Date Due:** 10-Dec-2020

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 19-Dec-2019 **Calibration Date Due:** 19-Dec-2020

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
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Certification of Instrument Calibration

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RMA # 2751049

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **1004**, with Sensor Number **20-4-1-S4CS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.512	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.49				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 09-Jul-2020 Recalibration Date: 08-Jul-2021

Temperature °F: 72.50 % Relative Humidity: 46.70

Approved By: Cheryl Hradek Date Approved: 10-Jul-2020
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-75664 **NIST#:** 1467976
Calibration Date: 25-Sep-2018 **Calibration Date Due:** 25-Sep-2021

Mass Flow Controller B: 124604 **NIST#:** 256148
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Mass Flow Controller D: 124602 **NIST#:** 256155
Calibration Date: 13-Jan-2020 **Calibration Date Due:** 13-Jan-2021

Digital Multimeter: 96020740 **NIST#:** 7003135
Calibration Date: 06-Feb-2020 **Calibration Date Due:** 06-Feb-2021

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 19-Dec-2019 **Calibration Date Due:** 19-Dec-2020

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
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AMETEK Brookfield - Capital Equipment
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Chandler, AZ 85225

RMA # 2808396

This is to certify that the Jerome **X631 0151** Gold Film Hydrogen Sulfide Analyzer, Serial Number **2465**, with Sensor Number **19-7-12-V2DS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **N/A**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.496	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.61				<5%

Calibration Status as Left: **In Calibration**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 15-Apr-2021 Recalibration Date: 14-Apr-2022

Temperature °F: 72.10 % Relative Humidity: 19.20

Approved By: Cheryl Hradek Date Approved: 19-Apr-2021
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: DT0001926 **NIST#:** SRM 2730; 65-D-035; CAL013399
Calibration Date: 17-Aug-2020 **Calibration Date Due:** 17-Aug-2023

Mass Flow Controller B: 124610 **NIST#:** 256156
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Mass Flow Controller D: 124604 **NIST#:** 256148
Calibration Date: 29-Jan-2021 **Calibration Date Due:** 29-Jan-2022

Digital Multimeter: 17680239 **NIST#:** 7002611
Calibration Date: 24-Aug-2020 **Calibration Date Due:** 24-Aug-2021

Flowmeter: US15G63224 **NIST#:** 1813; 1817; 1796
Calibration Date: 06-Oct-2020 **Calibration Date Due:** 06-Oct-2021

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
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BROOKFIELD
AMETEK
INSTRUMENTATION & SPECIALTY CONTROLS DIVISION

INSTRUMENTATION & SPECIALTY CONTROLS DIVISION
11 Commerce Blvd. | Middleboro, MA 02346
P: 508.946.6200 | F: 508.946.6262

CERTIFICATE NUMBER 300178

CUSTOMER NAME AMETEK BROOKFIELD (AZI)
ADDRESS 3375 N DELAWARE ST
CHANDLER AZ 85225
USA

CERTIFICATE OF INSTRUMENT CALIBRATION

MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
X631 0151	2401	2/3/2022	2/2/2023

To the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instniment after such adjustments, seal removal, or modifications. This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

REFERENCE EQUIPMENT USED TO CALIBRATE THE EQUIPMENT

TYPE/MODEL	SERIAL/LOT NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
	DT0001926	8/17/2021	8/17/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
	60245	1/24/2022	1/24/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
	132996	1/21/2022	1/21/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Fluke	17680239	8/30/2021	8/30/2022

NIST TRACE # SRM 2730; 65-D-035; CAL013399 **PROCEDURE #:** 730-0040

All reference equipment used to calibrate the instrument listed upon this certificate have calibrations that are traceable to the National Institute of Standards and Technology (NIST).

APPROVAL SIGNATURE

Todd Place

TODD PLACE, QUALITY ENGINEER

CALIBRATION PERFORMED BY GM

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BROOKFIELD
AMETEK
INSTRUMENTATION & SPECIALTY CONTROLS DIVISION

INSTRUMENTATION & SPECIALTY CONTROLS DIVISION
11 Commerce Blvd. | Middleboro, MA 02346
P: 508.946.6200 | F: 508.946.6262

CERTIFICATE NUMBER 304680

CUSTOMER NAME
ADDRESS

AMETEK BROOKFIELD (AZI)
3375 N DELAWARE ST
CHANDLER AZ 85225
USA

CERTIFICATE OF INSTRUMENT CALIBRATION

MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
X631 0151	1125	4/6/2022	4/5/2023

To the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instniment after such adjustments, seal removal, or modifications. This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

REFERENCE EQUIPMENT USED TO CALIBRATE THE EQUIPMENT

TYPE/MODEL	SERIAL/LOT NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
	DT0001926	8/17/2021	8/17/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
	60245	1/24/2022	1/24/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
	132996	1/21/2022	1/21/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Fluke	17680239	8/30/2021	8/30/2022

NIST TRACE # SRM 2730; 65-D-035; CAL013399 **PROCEDURE #:** 730-0040

All reference equipment used to calibrate the instrument listed upon this certificate have calibrations that are traceable to the National Institute of Standards and Technology (NIST).

APPROVAL SIGNATURE

Todd Place

TODD PLACE, QUALITY ENGINEER

CALIBRATION PERFORMED BY MA

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BROOKFIELD AMETEK
INSTRUMENTATION & SPECIALTY CONTROLS DIVISION

INSTRUMENTATION & SPECIALTY CONTROLS DIVISION
11 Commerce Blvd. | Middleboro, MA 02346
P: 508.946.6200 | F: 508.946.6262

CERTIFICATE NUMBER 309586

CUSTOMER NAME ESCAMBIA COUNTY WATER QUALITY LAB
ADDRESS 3363 W PARK PLACE
PENSACOLA FL 32505
USA

CERTIFICATE OF INSTRUMENT CALIBRATION

MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
X631 0151	2716	6/21/2022	6/20/2023

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REFERENCE EQUIPMENT USED TO CALIBRATE THE EQUIPMENT

TYPE/MODEL	SERIAL/LOT NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
Cal Set	DT0001926	8/17/2021	8/17/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Alicat	60245	1/24/2022	1/24/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Alicat	132996	1/21/2022	1/21/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Fluke	17680239	8/30/2021	8/30/2022

NIST TRACE # SRM 2730; 65-D-035; CAL013399 **PROCEDURE #:** 730-0040

All reference equipment used to calibrate the instrument listed upon this certificate have calibrations that are traceable to the National Institute of Standards and Technology (NIST).

APPROVAL SIGNATURE

Todd Place

TODD PLACE, QUALITY ENGINEER

CALIBRATION PERFORMED BY HC

ISO 9001:2015 CERTIFIED
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June 21, 2022
3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 Fax 602.281.1745
BrookfieldEngineering.com

X631 Incoming / Outgoing Data Sheet

MODEL	SRO NUMBER	SERIAL NUMBER
X631	S167004	2716

INCOMING

Calibration Gas: 0.500

Allowable Range: 0.470 to 0.530 ppm H2S

≤ 5% RSD

Mean: 0.5500 ppm H2S

RSD: 6.36%

Calibration Status as Received: **Out of Calibration.**

OUTGOING

Calibration Gas

Allowable Range: 0.475 to 0.525 ppm H2S

Concentration: 0.500

≤ 3% RSD

Mean @ Saturation: 0.5110 ppm H2S

RSD: 1.11%

Calibration Status as Left: **In Calibration.**

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CERTIFICATE NUMBER 313952

CUSTOMER NAME ESCAMBIA COUNTY WATER QUALITY LAB
ADDRESS 3363 W PARK PLACE
PENSACOLA FL 32505
USA

CERTIFICATE OF INSTRUMENT CALIBRATION

MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
X631 0151	2670	8/22/2022	8/21/2023

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REFERENCE EQUIPMENT USED TO CALIBRATE THE EQUIPMENT

TYPE/MODEL	SERIAL/LOT NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
Cal Set	DT0001926	8/17/2021	8/17/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Alicat	124604	3/22/2022	3/22/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Alicat	124602	3/22/2022	3/22/2023
TYPE/MODEL	**SERIAL/LOT NUMBER**	**CALIBRATION DATE**	**CALIBRATION DUE DATE**
Fluke	17680239	8/30/2021	8/30/2022

NIST TRACE # SRM 2730; 65-D-035; CAL013399 **PROCEDURE #:** 730-0040

All reference equipment used to calibrate the instrument listed upon this certificate have calibrations that are traceable to the National Institute of Standards and Technology (NIST).

APPROVAL SIGNATURE

Todd Place

TODD PLACE, QUALITY ENGINEER

CALIBRATION PERFORMED BY MA

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August 22, 2022
3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 Fax 602.281.1745
BrookfieldEngineering.com

X631 Incoming / Outgoing Data Sheet

MODEL	SRO NUMBER	SERIAL NUMBER
X631	S169911	2670

INCOMING

Calibration Gas: 0.500

Allowable Range: 0.470 to 0.530 ppm H2S

Mean: 0.4230 ppm H2S

≤ 5% RSD: 7.69%

Calibration Status as Received: **Out of Calibration.**

OUTGOING

Calibration Gas

Allowable Range: 0.475 to 0.525 ppm H2S

Concentration: 0.500

Mean @ Saturation: 0.4930 ppm H2S

≤ 3% RSD: 1.24%

Calibration Status as Left: **In Calibration.**

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CERTIFICATE NUMBER 314209

CUSTOMER NAME
ADDRESS

ESCAMBIA COUNTY WATER QUALITY LAB
3363 W PARK PLACE
PENSACOLA FL 32505
USA

CERTIFICATE OF INSTRUMENT CALIBRATION

MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
X631 0151	2937	8/24/2022	8/23/2023

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REFERENCE EQUIPMENT USED TO CALIBRATE THE EQUIPMENT

TYPE/MODEL	SERIAL/LOT NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
Cal Set	DT0001926	8/17/2021	8/17/2023
Alicat	124604	3/22/2022	3/22/2023
Alicat	124602	3/22/2022	3/22/2023
Fluke	17680239	8/30/2021	8/30/2022

NIST TRACE # SRM 2730; 65-D-035; CAL013399 **PROCEDURE #:** 730-0040

All reference equipment used to calibrate the instrument listed upon this certificate have calibrations that are traceable to the National Institute of Standards and Technology (NIST).

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Todd Place

TODD PLACE, QUALITY ENGINEER

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August 24, 2022

3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 Fax 602.281.1745
BrookfieldEngineering.com

X631 Incoming / Outgoing Data Sheet

MODEL	SRO NUMBER	SERIAL NUMBER
X631	S169910	2937

INCOMING

Calibration Gas: 0.500

Allowable Range: 0.470 to 0.530 ppm H2S

Mean: 0.4570 ppm H2S

≤ 5% RSD: 3.57%

Calibration Status as Received: **Out of Calibration.**

OUTGOING

Calibration Gas

Allowable Range: 0.475 to 0.525 ppm H2S

Concentration: 0.500

Mean @ Saturation: 0.5010 ppm H2S

≤ 3% RSD: 1.70%

Calibration Status as Left: **In Calibration.**

Appendix 4

Particulate Monitoring

Field Documentation

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/4/18

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRx - model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 12/4/18 9:14
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 12/4/18 9:14
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☒ No ☐

Sample Location: Entry road way

Sample Height (m): 1 m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.487672 Longitude: W -87.286684

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:03 ▲	Test Length: 60 min	10:08	10.3	64	6	N
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	10:32	10.8	64	4	NE
Initial File Name: 1HR-60SAMPLE-004	# Data Points: 60	11:02	11.8	61	0	NW

Average Sound Level (dB): 57.0

When crushing - 3 x 2 min peak values at 5 ft (dB): A: 61.5 B: 59.6 C: 52.7

Particulates in Air: (Average µm/m³) PM_1: 8 $PM_{2.5}$: 8 Respirable: 9 PM_{10}: 10 Total: 11

Sample Location: up wind

Sample Height (m): 1 m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.492296 Longitude: W -87.286903

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:17 ▲	Test Length: 10 min	11:20	11.9	60	5	N
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-005	# Data Points: 10					

Average Sound Level (dB): 52.6

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: ~~9~~ C: ~~9~~

Particulates in Air: (Average µm/m³) PM_1: 7 $PM_{2.5}$: 7 Respirable: 8 PM_{10}: 9 Total: 9

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length: AKM					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

▲ Time change all times are 1 hr later than actual
wood crushing/mulching

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/20/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAK DRX - model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 3/20/19 9:00
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 3/20/19 9:00
Other Equipment Used: Step ladder, cellphone	~~3/20/19 9:00~~ pm

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Downwind, back of property

Sample Height (m): 1m

Meterological Data Source:

Latitude: N 30.492294 Longitude: W -87.286890

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 14:30	Test Length: 60 min	14:30	20.5	38	0	S
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	15:00	19.7	41	0	SSE
Initial File Name: IAFE-GOSAMPLE-014	# Data Points: 60	15:30	19.9	40	0	ENE

Average Sound Level (dB): 51.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 25 $PM_{2.5}$: 25 Respirable: 25 PM_{10}: 28 Total: 30

Sample Location: upwind, entry road

Sample Height (m): 1m

Meterological Data Source:

Latitude: N 30.487639 Longitude: W -87.286782

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 15:37	Test Length: 10 min	15:42	20.6	40	0	SSW
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN_015	# Data Points: 10					

Average Sound Level (dB): 55.6

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 27 $PM_{2.5}$: 27 Respirable: 28 PM_{10}: 34 Total: 46

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

ARM

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Tree grinder broken; background event

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 7/9/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DusTRAK DRX-model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 7/9/19 8:40
Sound Level Serial #: N403580	Sound Level Calibration Verified Date/Time (CST): 7/9/19 8:40
Other Equipment Used: Step ladder, cell phone	

Site: Easer Beaver

Crushing: Yes ☐ No ☒

Sample Location: Behind pond

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA181

Latitude: N 30.492398 Longitude: W -87.286923

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 8:41	Test Length: 10 min	8:44	28.3	80	6	NW
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-019	# Data Points: 10					

Average Sound Level (dB): 47.0

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 24 $PM_{2.5}$: 25 Respirable: 26 PM_{10}: 29 Total: 30

Sample Location: Turnabount in front of metal building

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA 181

Latitude: N 30.489942 Longitude: W -87.285817

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 8:58	Test Length: 60 min	9:02	28.9	79	5	VNW
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	9:32	30.0	76	3	NW
Initial File Name: 1HR-GOSAMPLE-026	# Data Points: 60	9:56	31.1	70	11	WNW

Average Sound Level (dB): 45.6

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 21 $PM_{2.5}$: 21 Respirable: 23 PM_{10}: 26 Total: 29

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: ~~9/12/19~~ 9/18/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX - Model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 9/18/19
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 9/18/19
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: SE corner, turnabout

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.490035 Longitude: W -87.285776

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:10	Test Length: 60 min	10:10	~~30.0~~ 30.1	73	7.0	W
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	10:40	31.2	70	4.0	WNW
Initial File Name: 1HR-60SAMPLE047	# Data Points: 60	11:10	31.7	67	9.0	WNW

Average Sound Level (dB): 50.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 24 $PM_{2.5}$: 24 Respirable: 26 PM_{10}: 32 Total: 41

Sample Location: Back of property by pond

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491994 Longitude: W -87.286798

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:20	Test Length: 10 min	11:22	32.1	67	7.0	W
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-048	# Data Points: 10					

Average Sound Level (dB): 53.2

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 21 $PM_{2.5}$: 21 Respirable: 22 PM_{10}: 25 Total: 28

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval: Arlen					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/21/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX - Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534141603	Zero Point Verification Date/Time (CST): 11/21/19 9:25
Sound Level Serial #: N807550	Sound Level Calibration Verified Date/Time (CST): 11/21/19 9:25
Other Equipment Used: Stop watch, cell phone	

Site: Ensley Beaver Crushing: Yes ☐ No ☒

Sample Location: Back of property by shooting range Sample Height (m): 1M

Latitude: N 30.492356 Longitude: W -87.296832

Start Test (CST): 9:28 Test Length: 60min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60SAMPLE_012 # Data Points: 60

Average Sound Level (dB): 54.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 27 $PM_{2.5}$: 28 Respirable: 28 PM_{10}: 30 Total: 31

Meterological Data Source: KFLPENSA 85 (WFHS)

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:28	17.9	75	9	E
9:58	18.6	76	14	ESE
10:28	19.2	75	10	ENE

Sample Location: Turn about in front of main building Sample Height (m): 1M

Latitude: N 30.490094 Longitude: W -87.285898

Start Test (CST): 10:57 Test Length: 10min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN-013 # Data Points: 10

Average Sound Level (dB): 57.4 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 21 $PM_{2.5}$: 21 Respirable: 22 PM_{10}: 24 Total: 25

Meterological Data Source: WFHS - KFLPENSA 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:58	19.8	75	11	ESE

Sample Location: Sample Height (m): N/A

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Property line further back behind shooting range? - bring truck with for soft sand may get stuck

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 1/9/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTTRAK DRX Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 1/9/20 10:50
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 1/9/20 10:50
Other Equipment Used: Step ladder, cell phone	

Site: Easer Barrier

Crushing: Yes ☐ No ☒

Sample Location: Wymit Rd

Sample Height (m): 1M

Meterological Data Source: KELPENSA85 NFHS

Latitude: N 30.492301 Longitude: W -87.289409

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:51	Test Length: 60min	10:50	16.4	80	12	E
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	11:20	16.9	80	16	SE
Initial File Name: 1HR-60SAMPLE_028	# Data Points: 60	11:50	17.3	79	10	ESE

Average Sound Level (dB): 58.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 16 $PM_{2.5}$: 17 Respirable: 19 PM_{10}: 22 Total: 24

Sample Location: Side of driveway

Sample Height (m): 1M

Meterological Data Source: NFHS = KELPENSA85

Latitude: N 30.487400 Longitude: W -87.286608

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:57	Test Length: 10min	12:02	17.1	80	12	E
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN_029	# Data Points: 10					

Average Sound Level (dB): 61.3

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 12 $PM_{2.5}$: 13 Respirable: 15 PM_{10}: 16 Total: 18

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W Am

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Back of property to muddy to access

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/17/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAIL DRX Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 853414607	Zero Point Verification Date/Time (CST): 3/17/20 9:20
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 3/17/20 9:20
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1M

Latitude: N 30.488845

Longitude: W -87.289600

Start Test (CST): 9:22

Test Length: 60 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: VAR-60SAMPLE_043

Data Points: 60

Average Sound Level (dB): 55.1

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 23 PM₂.₅: 23 Respirable: 24 PM₁₀: 27 Total: 30

Meterological Data Source: WFHS KFLPENSA181

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:26	20.8	90	2.0	ENE
9:50	21.8	84	6.0	ENE
10:20	23.1	80	6.0	ESE

Sample Location: Front entrance

Sample Height (m): 1M

Latitude: N 30.486591

Longitude: W -87.287102

Start Test (CST): 10:29

Test Length: 10 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: 10MINMEAN_044

Data Points: 10

Average Sound Level (dB): 54.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 19 PM₂.₅: 19 Respirable: 20 PM₁₀: 21 Total: 25

Meterological Data Source: WFHS KFLPENSA181

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:32	23.2	79	1.0	ESE

Sample Location:

Sample Height (m):

Latitude: N

Longitude: W

Start Test (CST):

Test Length: Arm

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Low wind

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 5/13/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAK DRX Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 5/13/20 10:25
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 5/13/20 10:25
Other Equipment Used: Step Ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Wymore Rd

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.486901 Longitude: W -87.289594

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:30	Test Length: 60 min	10:32	23.4	82	17	E
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	10:56	23.8	82	12	SE
Initial File Name: 1HR-60SAMPLE_057	# Data Points: 60	11:26	24.6	81	11	SE

Average Sound Level (dB): 52.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 14 $PM_{2.5}$: 20 Respirable: 22 PM_{10}: 26 Total: 29

Sample Location: Front Entrance

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.486509 Longitude: W -87.287012

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:36	Test Length: 10 min	11:38	24.9	81	15	ESE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN_058	# Data Points: 10					

Average Sound Level (dB): 55.1

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 15 $PM_{2.5}$: 17 Respirable: 18 PM_{10}: 22 Total: 25

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air Date: 7/20/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX Model 8534 | Factory Calibration Date: 10/2019

Field Meter Serial #: 8534161607 | Zero Point Verification Date/Time (CST): 7/20/20 13:30

Sound Level Serial #: W403580 | Sound Level Calibration Verified Date/Time (CST): 7/20/20 13:30

Other Equipment Used: scale / Kestrel / cell phone

Site: Easter Beamer | Crushing: Yes ☐ No ☒

Sample Location: Wymore Rd | Sample Height (m): 1M | Meterological Data Source: PFHS KFLPENSA181

Latitude: N 30.491506 | Longitude: W 87.289399

Start Test (CST): 13:33 | Test Length: 60 min
Data Logged: Yes ☐ No ☒ | Log Interval: 1 min
Initial File Name: 1Hr-60SAMPLE 072 | # Data Points: 60
Average Sound Level (dB): 51.7 | When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
13:36	32.3	68	3.0	SE
14:00	32.6	66	5.0	SSE
14:30	32.4	66	9.0	SE

Particulates in Air: (Average µm/m³) PM_1: 5 $PM_{2.5}$: 5 Respirable: 6 PM_{10}: 7 Total: 8

Sample Location: Longleaf Rd | Sample Height (m): 1m | Meterological Data Source: PFHS = KFLPENSA181

Latitude: N 30.486258 | Longitude: W 87.281450

Start Test (CST): ~~63.4~~ 14:46 | Test Length: 10 min
Data Logged: Yes ☐ No ☒ | Log Interval: 1 min
Initial File Name: 10MINMEAN-073 | # Data Points: 10
Average Sound Level (dB): 65.8 | When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
14:48	32.0	66	3.0	SE

Particulates in Air: (Average µm/m³) PM_1: 4 $PM_{2.5}$: 5 Respirable: 5 PM_{10}: 6 Total: 7

Sample Location: | Sample Height (m): | Meterological Data Source:

ARM

Latitude: N | Longitude: W

Start Test (CST): | Test Length:
Data Logged: Yes ☐ No ☐ | Log Interval:
Initial File Name: | # Data Points:
Average Sound Level (dB): | When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Allowed to sample so long as not on property

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/3/20

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DuraTRAK DRX Model 8533	Factory Calibration Date: 10/2019
Field Meter Serial #: 853416603	Zero Point Verification Date/Time (CST): 9/3/20 11:35
Sound Level Serial #: N8035550	Sound Level Calibration Verified Date/Time (CST): 9/3/20 11:35
Other Equipment Used: stopwatch, cellphone	

Site: Ensley Bowl Crushing: Yes ☐ No ☑

Sample Location: Elmhurst

Sample Height (m): 1m

Latitude: N 30.496061 Longitude: W -87.265102

Meterological Data Source: WFHS ICL PENSACOLA

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:41	Test Length: 60 min	11:44	30.8	67	NW 6	W
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	12:14	31.3	70	2	NW
Initial File Name: 1HR-60SAMPLE.001	# Data Points: 60	12:38	32.1	64	6	W

Average Sound Level (dB): 55.1 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 28 $PM_{2.5}$: 31 Respirable: 36 PM_{10}: 45 Total: 46

Sample Location: Longleaf

Sample Height (m): 1m

Latitude: N 30.496305 Longitude: W -87.265156

Meterological Data Source: WFHS = ICL PENSA

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:51	Test Length: 10 min	12:56	32.2	68	2	S
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-092	# Data Points: 10					

Average Sound Level (dB): 57.9 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 27 $PM_{2.5}$: 30 Respirable: 35 PM_{10}: 44 Total: 46

Sample Location:

Sample Height (m):

Latitude: N Longitude: W DNU

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 10/21/20

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust Trak DRx Model 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534K1603	Zero Point Verification Date/Time (CST): 10/21/20 13:25
Sound Level Serial #: N4 03580	Sound Level Calibration Verified Date/Time (CST): 10/21/20 13:25
Other Equipment Used: Step ladder, cellphone	

Site: Eager Beaver

Crushing: Yes ☐ No ☑

Sample Location: Wymart Road

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.4911 Longitude: W -87.2896

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): ~~1:26~~ 13:26	Test Length: 60 min	13:24	27.~~4~~6	7~~4~~%	9.0mph	NNE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	13:54	27.6	73%	11.0	E
Initial File Name: 1HR-60Sample010	# Data Points: 60	14:24	28.0	70%	12.0	E

Average Sound Level (dB): 57.2

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: ~~7~~ mgo 12 PM₂.₅: ~~8~~ mgo 12 Respirable: ~~8~~ mgo 13 PM₁₀: ~~9~~ mgo 16 Total: ~~10~~ mgo ~~10~~ 23

Sample Location: Saxon Street Ludlow

Sample Height (m): 1m

Meterological Data Source: WFHS KFL~~R~~ mgo PENSA85

Latitude: N 30.4914 Longitude: W -87.2849

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 14:41	Test Length: 10 min	14:42	27.8	72%	6.0	ENE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10 MIN MEAN-011	# Data Points: 10					

Average Sound Level (dB): 56.2

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 9 PM₂.₅: 9 Respirable: 9 PM₁₀: 11 Total: 12

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W Alum

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Notes:

- sunbelt is not crushing; likely activity on Eager Beaver site

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12-28-20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust trak - DRX Model 8534	Factory Calibration Date: 9-2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 12-28-20
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 12-28-20 1010
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd W of Eager Beaver

Sample Height (m): 1m

Latitude: N 30.4903404 Longitude: W -87.2894675

Start Test (CST): 1015

Test Length: 60 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: 1HR-60SAMPLE-024

Data Points: 60

Average Sound Level (dB): 48.0

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 4 $PM_{2.5}$: 4 Respirable: 4 PM_{10}: 5 Total: 6

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1020	16.1	71	3.0	ESE
1044	16.9	69	8.0	ESE
1114	17.5	69	8.0	ESE

Sample Location: Intersection of Saxon and Ludlow, Background

Sample Height (m): 1m

Latitude: N 30.4913881 Longitude: W -87.2846774

Start Test (CST): 1137

Test Length: 10 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: 10 Min Mean-025

Data Points: 10

Average Sound Level (dB): 50.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 3 $PM_{2.5}$: 3 Respirable: 3 PM_{10}: 4 Total: 4

Meterological Data Source: WFHS KFLPENSA 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1144	18.3	67	4.0	ESE

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Heavy equipment in use on Eager Beaver property during sampling. No mulching or chipping equipment sounds heard.

Intermittent light vehicle traffic on Wymart during sampling

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 2/8/21

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTTRAK DRX 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 2/8/21 11:30
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 2/8/21 11:30
Other Equipment Used: Sag wells, cell phone	

Site: Eager Runner

Crushing: Yes ☐ No ☒

Sample Location: Saxon + Ludlow

Sample Height (m): 1 m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491423	Longitude: W -87.284807			
Start Test (CST): 12:56	Test Length: 10 min			
Data Logged: Yes ☒ No ☐	Log Interval: 1 min			
Initial File Name: 10 MIN MEAN_043	# Data Points: 10			

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
13:02	14.1	78	16	SE

Average Sound Level (dB): 57.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM$_1$: 6 PM$_{2.5}$: 6 Respirable: 6 PM$_{10}$: 7 Total: 8

Sample Location: Wymart Rd

Sample Height (m): 1 m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491992	Longitude: W -87.289525
Start Test (CST): 13:15	Test Length: 60 min
Data Logged: Yes ☒ No ☐	Log Interval: 1 min
Initial File Name: WATCO SAMPLE.044	# Data Points: 60

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
13:20	14.3	78	17	E
13:44	14.6	76	16	ESE
14:14	14.8	74	11	ENE

Average Sound Level (dB): 47.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM$_1$: 7 PM$_{2.5}$: 7 Respirable: 7 PM$_{10}$: 8 Total: 8

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N	Longitude: W
Start Test (CST):	Test Length:
Data Logged: Yes ☐ No ☐	Log Interval:
Initial File Name:	# Data Points:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM$_1$: PM$_{2.5}$: Respirable: PM$_{10}$: Total:

(section struck through, initialed)

Notes:

Sunbelt not crushing. No windscreen on noise meter

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3.29.2021

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak - DRX Model 8834	Factory Calibration Date:	9-2020
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	3.29.2021 1139
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	3.29.21 1139
Other Equipment Used:	Step Ladder, Cell Phone		

Site: Eager Beaver — Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd, W of Eager Beaver — Sample Height (m): 1M

Latitude: N 30.4902766 — Longitude: W -87.2895540

Meterological Data Source: WFHS KFLPENSA85

Start Test (CST):	1235	Test Length:	60min
Data Logged:	Yes ☒ No ☐	Log Interval:	1 min
Initial File Name:	[illegible]	# Data Points:	60
Average Sound Level (dB):	38.7	When crushing - 3 x 2 min peak values at 5 ft (dB):	A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1236	19.5	46	7	E
1306	20.3	47	2	E/NE
1336	21.1	46	5	E/NE

Particulates in Air (Average µm/m³): PM_1: 7 $PM_{2.5}$: 7 Respirable: 7 PM_{10}: 9 Total: 11

1HR_60Sample_051

Sample Location: Intersection of Saxon and Ludlow — Sample Height (m): 1M

Latitude: N 30.4913321 — Longitude: W -87.2848813

Meterological Data Source: WFHS KFLPENSA85

Start Test (CST):	1209	Test Length:	10min
Data Logged:	Yes ☒ No ☐	Log Interval:	1 min
Initial File Name:	10 MIN MEAN_050	# Data Points:	10
Average Sound Level (dB):	46.1	When crushing - 3 x 2 min peak values at 5 ft (dB):	A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1206	18.9	50	6	E

Particulates in Air (Average µm/m³): PM_1: 10 $PM_{2.5}$: 10 Respirable: 11 PM_{10}: 12 Total: 16

Sample Location: — Sample Height (m):

Latitude: N — Longitude: W

Meterological Data Source:

Start Test (CST):		Test Length:	
Data Logged:	Yes ☐ No ☐	Log Interval:	
Initial File Name:		# Data Points:	
Average Sound Level (dB):		When crushing - 3 x 2 min peak values at 5 ft (dB):	A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

- Lawn mower downwind of Sampling Site.
- SUNBELT WAS NOT CRUSHING
- SOUND METER BATTERY LOW - USE db level as ESTIMATES ONLY

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 5/6/21

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAK DRx	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 5/6/21 10:34
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 5/6/21 10:34
Other Equipment Used: Step Ladder, Cellphone	

Site: ~~Wymart Road~~ NGO Eager Beaver — Crushing: Yes ☐ No ☒

Sample Location: Wymart Road, N of Sunbelt Property line — Sample Height (m): 1M

Latitude: N 30.490596 — Longitude: W -87.289527

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:36	22.8	74	~~14~~ 10	NNE
11:06	23.2	73	10	N
11:37	23.4	70	6	NW

Start Test (CST): 10:37 — Test Length: 60 min — Data Logged: Yes ☑ No ☐ — Log Interval: 1 min — Initial File Name: 1HR-60SAMPLE-061 — # Data Points: 60

Average Sound Level (dB): 53.2 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 8 — $PM_{2.5}$: 8 — Respirable: 9 — PM_{10}: 10 — Total: 11

Sample Location: Elmhurst Dead End — Sample Height (m): 1m

Latitude: N 30.495987 — Longitude: W -87.285044

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:48	23.6	70	13	NNE

Start Test (CST): 11:49 — Test Length: 10 min — Data Logged: Yes ☑ No ☐ — Log Interval: 1 min — Initial File Name: 10 MIN MEAN_062 — # Data Points: 10

truck backed up near equipment

Average Sound Level (dB): 55.3 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 7 — $PM_{2.5}$: 7 — Respirable: 8 — PM_{10}: 9 — Total: 10

Sample Location: — Sample Height (m):

Latitude: N — Longitude: W

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Start Test (CST): — Test Length: — Data Logged: Yes ☐ No ☐ — Log Interval: — Initial File Name: — # Data Points:

Average Sound Level (dB): — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: — $PM_{2.5}$: — Respirable: — PM_{10}: — Total:

Notes:

* SUNBELT NOT CRUSHING

Sampler(s) Signature(s):

5.6.2021 5/6/21

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6.28.21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAK-DRX MODEL 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 6.28.21 / 14:05
Sound Level Serial #: N1803580	Sound Level Calibration Verified Date/Time (CST): 6.28.21 / 14:05
Other Equipment Used: Cellphone, ladder	

Site: EAGER BEAVER Crushing: Yes ☐ No ☑

Sample Location: WYMART RD JUST NORTH OF SUNBELT PROPERTY LINE Sample Height (m): 1

Latitude: N 30.4918487 Longitude: W -87.2895165

Start Test (CST): 16:05 Test Length: 60 MIN

Data Logged: Yes ☑ No ☐ Log Interval: 1 MIN

Initial File Name: IHB-60SAMPLE_079 # Data Points: 60

Average Sound Level (dB): 50.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 10 $PM_{2.5}$: 10 Respirable: 11 PM_{10}: 13 Total: 15

Meterological Data Source: Wunderground WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
16:07	28.1	79	7	ESE
16:37	28.4	79	7	ESE
17:07	28.5	78	8	ESE

Sample Location: LONGLEAF DR JUST WEST OF EAGER BEAVER PROPERTY ENTRANCE Sample Height (m): 1

Latitude: N 30.4860605 Longitude: W -87.2848578

Start Test (CST): 17:13 Test Length: 10 MIN

Data Logged: Yes ☑ No ☐ Log Interval: 1 MIN

Initial File Name: 10 MIN MEAN_080 # Data Points: 10

Average Sound Level (dB): 64.4 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 10 $PM_{2.5}$: 11 Respirable: 11 PM_{10}: 12 Total: 12

Meterological Data Source: Wunderground WFHS KFL PENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
17:13	28.5	78	12	ESE

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

- SUNBELT NOT CRUSHING
- EAGER BEAVER NEITHER CRUSHING NOR WOOD CHIPPING

Sampler(s) Signature(s):

(7.1.21)

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 7/13/21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust Trak DRX Model 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 7/13/21 10:25
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 7/13/21 10:25
Other Equipment Used: Step ladder, cell phone	

Site: Eager Rover

Crushing: Yes ☐ No ☑

Sample Location: Wymart Rd

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491929 Longitude: W -87.289548

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:28	Test Length: 60min	10:29	28.4	80	7	ESE
Data Logged: Yes ☑ No ☐	Log Interval: 1min	10:58	28.7	79	9	SSE
Initial File Name: 1HR-60SAMPLE087	# Data Points: 60	11:27	28.8	78	8	ESE

Average Sound Level (dB): 49.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 7 PM_{10}: 8 Total: 8

Sample Location: Ludlow + Saxon

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491393 Longitude: W -87.284853

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:37	Test Length: 10min	11:40	29.3	76	10	ESE
Data Logged: Yes ☑ No ☐	Log Interval: 1min					
Initial File Name: 10MINMEAN-088	# Data Points: 10					

Average Sound Level (dB): 57.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 7 PM_{10}: 7 Total: 9

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/7/21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX model 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 9/7/21 12:26
Sound Level Serial #: N 803580	Sound Level Calibration Verified Date/Time (CST): 9/7/21 12:26
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☑ No ☐

Sample Location: By landfill on Longleaf

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486070 Longitude: W -87.284998

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 14:01	Test Length: ~~1hr~~ Max 10min	~~12:27~~	~~28~~			MGO
Data Logged: Yes ☑ No ☐	Log Interval: 1min	14:02	28.3	81	8	SSE
Initial File Name: 10MINMEAN105	# Data Points: ~~60~~ 10					

Average Sound Level (dB): 60.1

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 2 $PM_{2.5}$: 2 Respirable: 3 PM_{10}: 4 Total: 10

Sample Location: Wymart, Near housing

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA

Latitude: N 30.494601 Longitude: W -87.289484

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 14:48	Test Length: 1hr	14:50	28.6	76	6	S
Data Logged: Yes ☑ No ☐	Log Interval: 1min	15:20	28.7	78	16	SE
Initial File Name: 1HR-60SAMPLE.106	# Data Points: 60	15:51	28.7	78	13	SE

Average Sound Level (dB): 52.4

When crushing - 3 x 2 min peak values at 5 ft (dB): A: 63.2 B: 50.1 C: 51.3

Particulates in Air: (Average µm/m³) PM_1: 0 $PM_{2.5}$: 2 Respirable: 3 PM_{10}: 4 Total: 10

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt was not crushing during sampling

Sampler(s) Signature(s):

Madison O'Toole

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/1/21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DusTrak DRX Model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 11/1/21 8:50
Sound Level Serial #: N808580	Sound Level Calibration Verified Date/Time (CST): 11/1/21 8:50
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☑ No ☐

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source: PFHS KFLPENSA181

Latitude: N 30.490604 Longitude: W -87.289580

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:41	Test Length: 60 min	10:43	19.1	73	4.0	ESE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	11:13	19.4	70	6.0	ENE
Initial File Name: INR-60SAMPLE-008	# Data Points: 60	11:37	19.8	68	3.0	ENE

Average Sound Level (dB): 57.3 When crushing - 3 x 2 min peak values at 5 ft (dB): A: 90.8 B: 56.6 C: 41.4

Particulates in Air: (Average µm/m³) PM_1: 13 $PM_{2.5}$: 13 Respirable: 14 PM_{10}: 14 Total: 15

Sample Location: Elmhurst Rd dead end

Sample Height (m): 1m

Meterological Data Source: PFHS KFLPENSA181

Latitude: N 30.496033 Longitude: W -87.285036

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:01	Test Length: 10 min	12:01	20.4	67	4.0	ENE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-009	# Data Points: 10					

Average Sound Level (dB): 56.6 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 11 $PM_{2.5}$: 11 Respirable: 12 PM_{10}: 12 Total: 13

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/16/21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 12/16/21 9:00
Sound Level Serial #: Scout N 803550	Sound Level Calibration Verified Date/Time (CST): 12/16/21 9:00
Other Equipment Used: Step ladder, cell phone	

Site: Saenger Brewer | Crushing: Yes ☐ No ☐

Sample Location: Saenger + Ludlow	Sample Height (m): 1M	Meterological Data Source: WFHS KFLPENSA87				
Latitude: N 30.491335	Longitude: W -87.284797	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:25	Test Length: 10 min	10:27	20.1	91	4	ESE
Data Logged: Yes ☐ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-018	# Data Points: 10					
Average Sound Level (dB): 55.0	When crushing - 3 x 2 min peak values at 5 ft (dB):	A:	B:	C:		
Particulates in Air: (Average µm/m³) PM$_1$: 15	PM$_{2.5}$: 16	Respirable: 17	PM$_{10}$: 18	Total: 19		

Sample Location: Wyman Rd	Sample Height (m): 1M	Meterological Data Source: WFHS KFLPENSA87				
Latitude: N 30.49907	Longitude: W -87.289543	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:47	Test Length: 60 min	10:51	20.6	90	7	E
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	11:20	21.2	89	8	ESE
Initial File Name: 1HR-60SAMPLE_	# Data Points: 60	11:45	21.1	89	6	ESE
Average Sound Level (dB):	When crushing - 3 x 2 min peak values at 5 ft (dB):	A:	B:	C:		
Particulates in Air: (Average µm/m³) PM$_1$: 14	PM$_{2.5}$: 15	Respirable: 15	PM$_{10}$: 17	Total: 18		

Sample Location:	Sample Height (m):	Meterological Data Source:				
Latitude: N	Longitude: W	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					
Average Sound Level (dB):	When crushing - 3 x 2 min peak values at 5 ft (dB):	A:	B:	C:		
Particulates in Air: (Average µm/m³) PM$_1$:	PM$_{2.5}$:	Respirable:	PM$_{10}$:	Total:		

Notes:

Sandpit not crushing

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 1/31/22

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak Drx model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 1/31/22 10:00
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 1/31/22 10:00
Other Equipment Used: Step ladder cellphone	

Site: Easter Beaver

Crushing: Yes ☐ No ☑

Sample Location: Wymit Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLTENSA55

Latitude: N 30.490941 Longitude: W -87.259490

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:26	Test Length: 10 min	11:31	17.1	58	6	W
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN_034	# Data Points: 10					

Average Sound Level (dB): 56.8

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 6 PM_{10}: 7 Total: 7

Sample Location: Ludlow + Saxon

Sample Height (m): 1m

Meterological Data Source: WFHS KFLTENSA55

Latitude: N 30.491429 Longitude: W -87.254985

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:48	Test Length: 60 min	11:49	17.3	57	4	W
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	12:13	18.1	50	3	W
Initial File Name: 1HR-60SAMPLE 035	# Data Points: 60	12:43	18.4	53	4	WNW

Average Sound Level (dB): ~~56.8~~

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 7 $PM_{2.5}$: 7 Respirable: 7 PM_{10}: 9 Total: 11

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/17/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10/2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	3/17/22 9:50
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	3/17/22 9:50
Other Equipment Used:	Step ladder, cell phone		

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Wyman Rd

Sample Height (m): 1M

Latitude: N 30.491280 Longitude: W -87.289460

Start Test (CST): 9:56 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1AR-60SAMPLE-050 # Data Points: 60

Average Sound Level (dB): 54.4 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 17 $PM_{2.5}$: 17 Respirable: 18 PM_{10}: 18 Total: 19

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:59	17.6	75	1.0	WSW
10:23	18.3	75	7.0	WSW
10:53	18.8	73	9.0	ESE

Sample Location: Sassafras Ludlow

Sample Height (m): 1M

Latitude: N 30.491271 Longitude: W -87.284818

Start Test (CST): 11:06 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN-051 # Data Points: 10

Average Sound Level (dB): 55.3 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 15 $PM_{2.5}$: 15 Respirable: 15 PM_{10}: 16 Total: 17

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:11	19.1	72	2.0	ESE

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sunbelt not coming during sampling

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 4/27/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10/2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	4/27/22 9:50
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	4/27/22 9:50
Other Equipment Used:	Step ladder, cell phone		

Site: Eager Power

Crushing: Yes ☐ No ☒

Sample Location: Elmhurst Rd dead end

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.496093 Longitude: W -87.284956

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:21	Test Length: 10min	11:25	21.4	54	3.0	NW
Data Logged: Yes ☐ No ☒	Log Interval: 1min					
Initial File Name: 10MINMEAN_016	# Data Points: 10					

Average Sound Level (dB): 53.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 4 $PM_{2.5}$: 4 Respirable: 5 PM_{10}: 6 Total: 7

Sample Location: Wymer Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.490523 Longitude: W -87.28958

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:40	Test Length: 60 min	11:43	22.1	50	7.0	WNW
Data Logged: Yes ☒ No ☐	Log Interval: 1min	12:13	23.4	46	4.0	NW
Initial File Name: 1HR-60SAMPLE_011	# Data Points: 60	12:37	23.4	43	4.0	WNW

Average Sound Level (dB): 49.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 4 $PM_{2.5}$: 4 Respirable: 5 PM_{10}: 6 Total: 8

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6/6/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10/2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	6/6/22 13:10
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	6/6/22 13:10
Other Equipment Used:	Step ladder, cell phone		

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Saxton Indian

Sample Height (m): 1m

Meterological Data Source:

Latitude: N 30.491477 Longitude: W -87.284827

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 14:39	Test Length: 10 min	14:41	30.2	68	10	5
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMCAN_020	# Data Points: 10					

Average Sound Level (dB): 53.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 7 $PM_{2.5}$: 8 Respirable: 8 PM_{10}: 9 Total: 9

Sample Location: Elmhurst ~~[illegible]~~ Rd

Sample Height (m): 1

Meterological Data Source:

Latitude: N 30.495990 Longitude: W -87.285101

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 15:10	Test Length: 60 min	15:12	30.2	69	9.0	SSE
Data Logged: Yes ☐ No ☐	Log Interval: 1 min	15:36	29.9	69	9.0	SSW
Initial File Name: 11MCOSAMPLE024	# Data Points: 60	16:05	30.0	72	5.0	SSE

Average Sound Level (dB): 56.6

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 10 $PM_{2.5}$: 11 Respirable: 11 PM_{10}: 12 Total: 13

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W Alum

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

Amber McCarver

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: ~~7.26.22~~ 7.26.22

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10.2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	7.26.22 1025
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	7.26.22 1025
Other Equipment Used:	Step ladder, cell phone		

Site: EAGER BEAVER Crushing: Yes ☐ No ☒

Sample Location: OFF LONGLEAF RD SE OF EAGER BEAVER ENTRANCE Sample Height (m): 1

Latitude: N 30.486068 Longitude: W 87.2849899

Start Test (CST): 1156 Test Length: 10 MIN

Data Logged: Yes ☑ No ☐ Log Interval: 1 MIN

Initial File Name: 10MIN MEAN 0034 # Data Points: 10

Average Sound Level (dB): 57.7 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 3 $PM_{2.5}$: 3 Respirable: 4 PM_{10}: 4 Total: 4

Meterological Data Source: KFLPENSA181

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1155	30.9	74	3	SSW

Sample Location: WYMART RD N OF SADDLEBROOK DR Sample Height (m): 1

Latitude: N 30.497440 Longitude: W 87.2893405

Start Test (CST): 1223 Test Length: 60 MIN

Data Logged: Yes ☑ No ☐ Log Interval: 1 MIN

Initial File Name: 1HR-60SAMPLE_0035 # Data Points: 60

Average Sound Level (dB): 52.8 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 2 $PM_{2.5}$: 3 Respirable: 4 PM_{10}: 4 Total: 5

Meterological Data Source: KFLPENSA181

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1225	31.1	73	5	S
1255	31.1	70	5	S
1325	31.3	69	1	S

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

- RECENT HEAVY RAIN
- MODERATE VEHICLE TRAFFIC ON WYMART RD

Sampler(s) Signature(s):

7.26.2022

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/14/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust Trak DRX model 8834	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 9/14/22 8:50
Sound Level Serial #: N 803580	Sound Level Calibration Verified Date/Time (CST): 9/14/22 8:50
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.490499 Longitude: W -87.289421

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:20	Test Length: 60 min	10:21	25.3	63	4.0	ENE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	10:57	26.5	55	11.0	NE
Initial File Name: 1HR-60SAMPLE-050	# Data Points: 60	11:21	26.4	55	4.0	NE

Average Sound Level (dB): 52.2

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 7 $PM_{2.5}$: 7 Respirable: 8 PM_{10}: 9 Total: 10

Sample Location: Elmhurst Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.495771 Longitude: W -87.285015

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:30	Test Length: 10 min	11:37	26.9	56	3.0	NE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-051	# Data Points: 10					

Average Sound Level (dB): 53.6

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 7 PM_{10}: 8 Total: 10

Notes:

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 10/24/22

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAK DRX model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 10/24/22 9:50
Sound Level Serial #: N403580	Sound Level Calibration Verified Date/Time (CST): 10/24/22 9:50
Other Equipment Used: Sampladder, cellphone	

Site: Eager Beaver

Crushing: Yes ☐ No ☑

Sample Location: Ludlow + Sawyer

Sample Height (m): 1M

Meterological Data Source:

Latitude: N 30.491303 Longitude: W -87.284804

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:19	Test Length: 10 min	11:24	22.5	73	17	E
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINFEAN-009	# Data Points: 10					

Average Sound Level (dB): 55.6

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 11 $PM_{2.5}$: 11 Respirable: 11 PM_{10}: 13 Total: 16

Sample Location: Wymart Rd North

Sample Height (m): 1M

Meterological Data Source:

Latitude: N 30.491087 Longitude: W -87.289564

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:43	Test Length: 60 min	11:48	22.7	73	10	ESE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	12:18	23.0	72	16	E
Initial File Name: HIR60SAMPLE-010	# Data Points: 60	12:42	23.5	72	10	ESE

Average Sound Level (dB): 47.1

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 9 $PM_{2.5}$: 10 Respirable: 10 PM_{10}: 12 Total: 18

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/15/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAIL DRX Model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 12/15/22 ~~12:35~~ 10:10
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 12/15/22 11:35
Other Equipment Used: Step ladder, cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☐

Sample Location: Wynnet Rd

Sample Height (m): 1m

Meterological Data Source: KFLPENSA85

Latitude: N 30.491660 Longitude: W -87.289594

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:55	Test Length: 10min	1256	15.3	55	7.0	WNW
Data Logged: Yes ☒ No ☐	Log Interval: 1min					
Initial File Name: 10min MEAN - 019	# Data Points: 10					
Average Sound Level (dB): 53.6	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:					

Particulates in Air: (Average µm/m³) PM₁: 3 PM₂.₅: 3 Respirable: 3 PM₁₀: 4 Total: 5

Sample Location: Ludlow + Saxon Rd

Sample Height (m): 1m

Meterological Data Source: KFLPENSA85

Latitude: N 30.491255 Longitude: W -87.284870

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:25	Test Length: 60min	1326	15.6	52	5.0	WNW
Data Logged: Yes ☒ No ☐	Log Interval: 10min	1356	15.9	48	12.0	WNW
Initial File Name: 1hr60sample 020	# Data Points: 1min	1426	16.4	49	10.0	NNW
Average Sound Level (dB): ~~53.6~~ 59.2	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:					

Particulates in Air: (Average µm/m³) PM₁: 3 PM₂.₅: 4 Respirable: 4 PM₁₀: 5 Total: 7

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					
Average Sound Level (dB):	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:					

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Notes:

Stumbels not crushing

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 1/25/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTRAK DRX Model 8534	Factory Calibration Date:	10/2022
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time:	1/25/23 11:25
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	1/25/23 11:25
Other Equipment Used:	Step ladder, Cell phone		

Site: Eagles Prayer

Crushing: Yes ☑ No ☐

Sample Location: Wymart Rd

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491021 Longitude: W -87.289521

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:51	Test Length: 10min	12:54	15.5	78	8.0	WSW
Data Logged: Yes ☑ No ☐	Log Interval: 1min					
Initial File Name: 10MINMEAN-034	# Data Points: 10					

Average Sound Level (dB): 59.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: 78.5 B: 58.6 C: 56.1

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 6 PM_{10}: 7 Total: 9

Sample Location: Ludlow + Saxon

Sample Height (m): 1M

Meterological Data Source: KFLPENSA85 WFHS

Latitude: N 30.491273 Longitude: W -87.284916

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:34	Test Length: 60min	13:30	15.9	78	8.0	W
Data Logged: Yes ☑ No ☐	Log Interval: 1min	14:00	16.1	74	9.0	WNW
Initial File Name: 1HR-60SAMPLE035	# Data Points: 60	14:30	16.2	68	18.0	WNW

Average Sound Level (dB): 52.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 7 $PM_{2.5}$: 7 Respirable: 8 PM_{10}: 9 Total: 11

Sample Location: Ludlow + Saxon

Sample Height (m): 1M

Meterological Data Source:

Latitude: N 30.491273 Longitude: W -87.284916

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 14:43	Test Length: 10 min					
Data Logged: Yes ☑ No ☐	Log Interval: 1min					
Initial File Name: 10MINMEAN-036	# Data Points: 10					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 9 $PM_{2.5}$: 9 Respirable: 9 PM_{10}: 10 Total: ~~9~~ 12

Notes:

Only 50 of 60 data points collected for 1 hr sample, an additional 10 points taken to confirm results

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/16/23

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 3/16/23 9:30
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 3/16/23 9:30
Other Equipment Used: Step ladder, Cell phone	

Site: Eager Beaver

Crushing: Yes ☒ No ☐

Sample Location: Landlow + Saxon

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491369 Longitude: W -87.284759

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:27	Test Length: 10 min	12:37	19.0	70	4	SSE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN_056	# Data Points: 10					

Average Sound Level (dB): 56.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 25 $PM_{2.5}$: 26 Respirable: 26 PM_{10}: 71 Total: 49

Sample Location: Wyman Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491676 Longitude: W -87.289473

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:55	Test Length: 60 min	12:56	19.2	70	10	SSE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	13:26	19.3	69	9	SSW
Initial File Name: 1HR-60SAMPLE_057	# Data Points: 60	13:56	19.9	67	14	SSE

Average Sound Level (dB): 51.4

When crushing - 3 x 2 min peak values at 5 ft (dB): A: 57.0 B: 53.7 C: 73.1

Particulates in Air: (Average µm/m³) PM_1: 13 $PM_{2.5}$: 13 Respirable: 13 PM_{10}: 14 Total: 16

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Subbed not crushing

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 4/20/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 4/20/23 11:00
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 4/20/23 11:00
Other Equipment Used: Step ladder, Cell phone	

Site: Eager Bauer

Crushing: Yes ☑ No ☐

Sample Location: Leadlow + Saxon

Sample Height (m): 1M

Meterological Data Source: WFHS 1LFLPENSA55

Latitude: N 30.491333 Longitude: W -87.284791

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:30	Test Length: 10 min	12:36	24.7	73	14.0	SSE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MNMEAN-009	# Data Points: 10					

Average Sound Level (dB): 55.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 18 $PM_{2.5}$: 19 Respirable: 20 PM_{10}: 28 Total: 52

Sample Location: Wymart Rd

Sample Height (m): 1M

Meterological Data Source: WFHS 1LFLPENSA55

Latitude: N 30.491818 Longitude: W -87.289509

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:50	Test Length: 60 min	12:54	24.5	74	9.0	SE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	13:24	24.7	74	13.0	SSE
Initial File Name: 1HR-60SAMPLE.010	# Data Points: 60	13:48	24.5	75	12.0	SE

Average Sound Level (dB): 52.0

When crushing - 3 x 2 min peak values at 5 ft (dB): A: 59.2 B: 68.4 C: 64.9

Particulates in Air: (Average µm/m³) PM_1: 11 $PM_{2.5}$: 12 Respirable: 13 PM_{10}: 15 Total: 18

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length: Alum					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6/7/23

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTRAK DRX Model 8534	Factory Calibration Date:	10/2022
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time:	6/7/23 10:45
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	6/7/23 10:45
Other Equipment Used:	Step ladder, Cell phone		

Site: Cyber Zenner

Crushing: Yes ☒ No ☐

Sample 1

Sample Location: Lyman Rd S — Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N	30.466911
Longitude: W	-87.289670
Start Test (CST):	12:06
Test Length:	10min
Data Logged:	Yes ☒ No ☐
Log Interval:	1 min
Initial File Name:	10MANMEAN-020
# Data Points:	10
Average Sound Level (dB):	59.7
When crushing - 3 x 2 min peak values at 5 ft (dB):	A: 58.1 Am B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:08	27.5	74	12.0	ESE

Particulates in Air: (Average µm/m³) PM$_1$: 12 PM$_{2.5}$: 12 Respirable: 13 PM$_{10}$: 15 Total: 21

Sample 2

Sample Location: Simmons Rd W — Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N	30.495955
Longitude: W	-87.284833
Start Test (CST):	13:40
Test Length:	60 min
Data Logged:	Yes ☒ No ☐
Log Interval:	1 min
Initial File Name:	1SR-60SAMPLE 02
# Data Points:	60
Average Sound Level (dB):	53.0
When crushing - 3 x 2 min peak values at 5 ft (dB):	A: 56.1 B: 52.9 C: 46.2

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
13:44	24.1	88	7.0	SW
14:08	24.5	88	6.0	SW
14:38	25.4	85	6.0	S

Particulates in Air: (Average µm/m³) PM$_1$: 16 PM$_{2.5}$: 17 Respirable: 17 PM$_{10}$: 19 Total: 21

Sample 3

Sample Location: — Sample Height (m):

Meterological Data Source:

Latitude: N	
Longitude: W	Akm
Start Test (CST):	
Test Length:	
Data Logged:	Yes ☐ No ☐
Log Interval:	
Initial File Name:	
# Data Points:	
Average Sound Level (dB):	
When crushing - 3 x 2 min peak values at 5 ft (dB):	A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Particulates in Air: (Average µm/m³) PM$_1$: PM$_{2.5}$: Respirable: PM$_{10}$: Total:

Notes:

Constant Bridge being replaced waste contribution access from there 29 Sunbelt Crushing — rain before sampling

Sampler(s) Signature(s): [signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/20/23

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 8/2023
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 9/20/23 10:00
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 9/20/23 10:00
Other Equipment Used: Step ladder, Cell phone	

Site: Eager Burns

Crushing: Yes ☐ No ☒

Sample Location: Ludlow + Scenic Sample Height (m): 1M

Latitude: N 30.491397 Longitude: W -87.284831

Meterological Data Source: iWFMS

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:44	27.1	67	11.0	E

Start Test (CST): 11:41 Test Length: 10min

Data Logged: Yes ☒ No ☐ Log Interval: 1min

Initial File Name: 10MINMEAN_052 # Data Points: 10

Average Sound Level (dB): 53.7 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 30 $PM_{2.5}$: 31 Respirable: 31 PM_{10}: 34 Total: 44

Sample Location: Wymore Rd Sample Height (m): 1M

Latitude: N 30.490661 Longitude: W -87.289507

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:08	26.9	72	15	E
12:32	27.0	74	17	ENE
13:02	26.9	73	12	E

Start Test (CST): 12:03 Test Length: 60min

Data Logged: Yes ☒ No ☐ Log Interval: 1min

Initial File Name: 1HR-60SAMPLE_053 # Data Points: 60

Average Sound Level (dB): 53.6 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 31 $PM_{2.5}$: 31 Respirable: 32 PM_{10}: 37 Total: 58

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Felt like wind was coming from West Northwest
Drizzle during Sampling

Sampler[s] Signature[s]:

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 10/10/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 8/2023
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 10/10/23 9:20
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 10/10/23 9:20
Other Equipment Used: Step ladder, Cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☑

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source: WFRS KFLPENSA55

Latitude: N 30.487197 Longitude: W -87.289649

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:48	Test Length: 10 min	10:54	24.7	61	2.0	W
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-004	# Data Points: 10					

Average Sound Level (dB): 58.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 11 $PM_{2.5}$: 11 Respirable: 12 PM_{10}: 16 Total: 47

Sample Location: Elmhurst Rd

Sample Height (m): 1M

Meterological Data Source: WFRS KFLPENSA55

Latitude: N 30.495576 Longitude: W -87.285259

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:13	Test Length: 60 min	11:18	24.9	59	1.0	S Stand
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	11:42	25.3	59	4.0	WNW
Initial File Name: TAIL-60 SAMPLE-005	# Data Points: 60	12:12	26.1	57	3.0	W

Average Sound Level (dB): 52.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 9 $PM_{2.5}$: 9 Respirable: 9 PM_{10}: 12 Total: 20

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sunbelt not crushing

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/29/23

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 8/2023
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 11/29/23 10:25
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 11/29/23 10:25
Other Equipment Used: Step ladder, Cell phone	

Site: Eager Beaver

Crushing: Yes ☐ No ☒

Sample Location: Elmhurst Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.495888 Longitude: W -87.285029

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:57 (11:57)	Test Length: 10 min	12:02	13.1	45	12.0	NNE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-OM	# Data Points: 10					

Average Sound Level (dB): 54.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 7 Respirable: 7 PM_{10}: 7 Total: 10

Sample Location: Wymart

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.491198 Longitude: W -87.289556

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:38 (12:38)	Test Length: 60 min	13:38	13.8	43	8.0	ENE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	14:08	14.3	42	4.0	NE
Initial File Name: 1HR-GOSAMPLE_015	# Data Points: 60	14:38	14.3	42	5.0	NE

Average Sound Level (dB): 49.2

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 7 PM_{10}: 7 Total: 11

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

DustTRAK 1 hr ahead
Not actively grinding during sampling - grinder broken but was grinding ~~that~~ in the morning

Sampler(s) Signature(s):

[signature]

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Date Modified: 5/6/2016

Field Report Form: Particulate Matter in Air

Date: 5/23/16

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX - Model 8534	Factory Calibration Date:	4/13/16
Field Meter Serial #:	853416l603	Zero Point Verification Date:	5/23/16
Other Equipment Used:	step ladder, cell phone	Zero Point Verification Time (CST):	9:15am

Sample:

Sample Location: ROW along Wymouth @ 2nd Power pole pole
Sample Height (m): 1m
Latitude: N 30.48715
Longitude: W 87.28969
Start Test (CST): 9:35am
Test Length: 60 min.
Data Logged: Yes ☒ No ☐
Log Interval: 1 min.
Initial File Name: IAK-60Sample_012
Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:35am	26°	47	~~SE~~ → 0	~~E~~
10:08am	26°	39	0	SSE
10:34am	26°	36	3	NE

Data Source: EOC weather station

Particulates in Air: (Average µm/m³) PM₁: 7 PM₂.₅: 12 Respirable: 12 PM₁₀: 15 Total: 26

Sample:

Sample Location:

Latitude: N

Start Test (CST):

Data Logged: Yes

Initial File Name:

Particulates in Air: (Average µm/m³)

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

PM₁₀: Total:

In Data Set
PM' = 11

Sample:

Sample Location:

Latitude: N

Start Test (CST):

Data Logged: Yes ☐ No ☐
Log Interval:

Initial File Name:
Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Approx. Crusher location N 30.47118 W 87.28889

Notes:

- met Michael Long (PE), consulting Engineer for Sunbelt onsite. He collect a sample at the same time in the same location with the same model meter. His Average PM2.5 was 13 ug/m³. Sound level was measured using cell phone App. Sound level was generally 50-60 db.

Sampler(s) Signature(s):

Brent Wipf, Environmental programs Manager / Tim Day also do side for the duration of the sample

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 7 June 2016

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX - Model 8534	Factory Calibration Date: 13 April 2016
Field Meter Serial #: 8.534/161603	Zero Point Verification Date: 7 June 2016
Other Equipment Used: step ladder, iphone	Zero Point Verification Time (CST): 0940

Sample:

Sample Location: Sunbelt Wymart ROW ~100ft N Longleaf Dr
Sample Height (m): 1 m
Latitude: N
Longitude: W
Start Test (CST): 0944
Test Length: 60 min
Data Logged: Yes ☒ No ☐
Log Interval: 1 min
Initial File Name: 014 (TD) 1HR-60SAMPLE-~~015~~
Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
0948	28.7	65	2.2	E
1018	29.3	62	2.2	SSE
1047	30.3	58	3.7	ENE

Data Source: WEATHER UNDERGROUND - zip 32505

Particulates in Air: (Average µm/m³)
PM_1: ~~0.013~~ (TD)
$PM_{2.5}$: ~~0.015~~ (TD)
Respirable: ~~0.015~~ (TD) 32
PM_{10}: ~~0.014~~ (TD) 43
Total: ~~0.014~~ (TD) 73

Sample: 29 30

Sample Location:
Sample Height (m):
Latitude: N
Longitude: W
Start Test (CST):
Test Length:
Data Logged: Yes ☐ No ☐
Log Interval:
File Name:
Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³)
PM_1:
$PM_{2.5}$:
Respirable: (TD)
PM_{10}:
Total:

Sample:

Sample Location:
Sample Height (m):
Latitude: N
Longitude: W
Start Test (CST):
Test Length:
Data Logged: Yes ☐ No ☐
Log Interval:
Initial File Name:
Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³)
PM_1:
$PM_{2.5}$:
Respirable:
PM_{10}:
Total:

Notes:

Sound level was generally 50-60 db (Decibel 10th Ap)
~10:20 til 10:24 UPS truck deployment on Longleaf

Sampler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 8/15/16

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

nent: DustTrak DRX

Field Meter Model #: 8534	Factory Calibration Date: 4/2016
Field Meter Serial #: 8534161603	Zero Point Verification Date: 8/15/16
Other Equipment Used: Step ladder	Zero Point Verification Time (CST): 13:21

Sample: Sunbelt

Sample Location: Sunbelt fenceline west Sample Height (m): 1m

Latitude: N 30.4870206 Longitude: W 87.2896067

Start Test (CST): 13:23 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60SAMPLE_018 # Data Points: 60

Meterological Data: From Wunderground

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
13:25	32	68	3/0	112
13:58	33	66	8/0	112
14:23	32	71	5/0	45

Data Source: Wunderground Bellview KFLPENSA86

Particulates in Air (Average µm/m³): PM_1: 8 $PM_{2.5}$: 9 Respirable: 10 PM_{10}: 11 Total: 16

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

oler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/2/16

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust Trak DRX - Model 8534	Factory Calibration Date: 4/13/2016
Field Meter Serial #: 8534161603	Zero Point Verification Date: 9/2/16
Other Equipment Used: Step ladder, cell phone	Zero Point Verification Time (CST): 12:50 pm

Sample:

Sample Location: Wyndham Row/East side; second power pole North of Long Leaf Dr.

Sample Height (m): 1m

Latitude: N 30.48715 Longitude: W 87.28966

Start Test (CST): 12:54 pm Test Length: 60 min.

Data Logged: Yes ☒ No ☐ Log Interval: 1 min.

Initial File Name: 1HR-60Sample-21 # Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:57 pm	32	57	7	NNW
1:27 pm	33	53	1	~~N~~ NNW
1:52 pm	33	55	4	NNW

Data Source: Weather station @ West Fl. High School

Particulates in Air: (Average µm/m³) PM₁: ~~13~~ 31 PM₂.₅: ~~13~~ 31 Respirable: ~~14~~ 31 PM₁₀: ~~16~~ 32 Total: ~~46~~ 35

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Notes:

Approximate sound intensity (db) determined to be ~75 db @ sample location. Sound intensity measured using "Physics Toolbox" app. Original measurements from the wrong file. Actual measurements stem with corrected data. $PM_{2.5}$ = 31 µm/m³.

Sampler(s) Signature(s):

[signature], Escambia County NRM, WQLM

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/17/16

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: 8534	Factory Calibration Date: 4/2016
Field Meter Serial #: 553416 1603	Zero Point Verification Date: 11/17/16
Other Equipment Used: Step ladder	Zero Point Verification Time (CST): 12:30

Sample: Lat: N 30.502482 Long W: 87.256082

Sample Location: Longleaf Dr facing fence ~~5~~ ft from speed limits sign (right side) Sample Height (m): ↑

Latitude: N ~~30.502482~~ Longitude: W ~~-87.256~~

Start Test (CST): ~~13:42:44~~ ~~15:32:56~~ See Note Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: ~~60 min~~ 1 min

Initial File Name: ~~022~~ 1HR-60SAMPLE-~~022~~ # Data Points: 60

Data Source: Wunderground Bellview KFLPENSA86

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:45	81.1	34	3.2	E
13:13	80.4	~~56~~ 47	5.8	SSW
13:46	79.2	51	1.7	ESE

Particulates in Air (Average µm/m³): PM1: 21 PM2.5: 21 Respirable: 21 PM10: 23 Total: 27

Sample: Zero point @ 14:30

Sample Location: Old Palafox 30 ft from telephone pole in front of green house (trailer right) Sample Height (m):

Latitude: N 30.502482 Longitude: W -87.256082

Start Test (CST): 15:32:56 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60SAMPLE-023 # Data Points: 60

Data Source: Wunderground Carlisle Subdivision KFLPENSA66

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
14:34	77.9	21	1.1	SW
15:05	77.2	24	2.7	SSW
15:36	76.8	24	1.8	S

Particulates in Air (Average µm/m³): PM1: 21 PM2.5: 22 Respirable: 22 PM10: 25 Total: 32

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Data Source:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Particulates in Air (Average µm/m³): PM1: PM2.5: Respirable: PM10: Total:

Notes:

Normal traffic patterns, neither facility in operation

Location and weather data filled out upon return to office.

Due to Daylight ~~saving~~ time, the time on SN5534161603 is one hour ahead of correct time

Sampler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/15/2016

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: 8534	Factory Calibration Date: 4/2016
Field Meter Serial #: 8534161603	Zero Point Verification Date: 12/15/2016
Other Equipment Used: Bungie Chord	Zero Point Verification Time (CST): 09:49

Sample:

Sample Location: Sunbelt — Sample Height (m):
Inside of fenceline on south chainlink fence in middle

Latitude: N 30.486450 Longitude: W -87.259959

Start Test (CST): 09:56 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60SAMPLE_026 # Data Points: 60

Particulates in Air (Average µm/m³): PM_1: 30 $PM_{2.5}$: 32 Respirable: 33 PM_{10}: 38 Total: 48

Meterological Data:

Data Source: Wunderground WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
09:57	51.1 F / 10.6 C	65	10	NW
~~09~~ 10:25	52 / 11.1	63	8	NNE
10:54	53.3 / 11.8	58	9	N

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data:

Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data:

Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sampler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/27/17

mple Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DuPoTrak DRx - model 8534	Factory Calibration Date: 4/13/16
Field Meter Serial #: 8534161603	Zero Point Verification Date: 3/27/17
Other Equipment Used: Step ladder, cell phone	Zero Point Verification Time (CST): 13:54

Sample: Sunbelt

Sample Location: Far end of Wymart Rd fenceline on

Sample Height (m): 1m

Latitude: N 30.489219 Longitude: W 87.289708

Start Test (CST): 15:33 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60 sample_004 # Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
15:36	23.9	74	9	SE
16:08	23.9	75	9	SSE
16:32	23.4	78	12	SE

Data Source: Wunderground WFHS KFL PENSA 85

Particulates in Air: (Average µm/m³) PM₁: 0.028 8 PM₂.₅: 0.009 9 Respirable: 0.010 10 PM₁₀: 0.010 10 Total: 0.021 11

9/3/17

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

ta Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points: Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points: Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

mpler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 5/16/17

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak Drx-model 8534	Factory Calibration Date: 4/2017
Field Meter Serial #: 8534161603	Zero Point Verification Date: 5/16/17
Other Equipment Used: Step ladder, cell phone	Zero Point Verification Time (CST): ~~14:04~~ 14:07

Sample: Sunbelt @ Longleaf

Sample Location: Wymer Rd

Sample Height (m):

Latitude: N 30.487188 Longitude: W -87.289665

Start Test (CST): 5/16/17 14:13

Test Length: 60 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: HIR-60SAMPLE_008

Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
14:16	30.9	48	9	SE
14:47	30.4	52	6	ESE
15:12	30.6	49	5	SSW

Data Source: Wunderground WFHS1CFLPENSA85

Particulates in Air: (Average µm/m³) PM_1: 17 $PM_{2.5}$: 17 Respirable: 18 PM_{10}: 19 Total: 20

Sample:

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Sample:

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

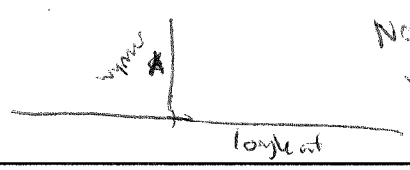
Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:



No consistent wind, slight gusts

Active crushing operations very close to crushing equipment

~~Some~~ bus traffic towards end of event

Sampler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 7/31/17

le Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX-model 8534	Factory Calibration Date: 6/2017
Field Meter Serial #: 8534161603	Zero Point Verification Date: 7/31/17
Other Equipment Used: Step ladder, cell phone, noise meter	Zero Point Verification Time (CST): 10:56

Sample: Sunbelt

Sample Location: Wymart Rd

Sample Height (m): 3m

Latitude: N 30.4868412 Longitude: W -87.2895973

Start Test (CST): 11:01 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60sample-004 # Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:04	30.1	54	2	E
11:34	30.7	52	2	SSW
11:58	31.3	51	8	NNE

Data Source: UFHS KFL PENSA 85

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 6 PM_{10}: 7 Total: 8

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Sample:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Background/ not crushing

Noise meter cal pass
Noise level 51.0 db.

ler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/7/17

·le Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust Trak DRX model 8533	Factory Calibration Date: 9/2017
Field Meter Serial #: 8533 1611 07	Zero Point Verification Date: 9/7/17
Other Equipment Used: Sound meter, cell phone	Zero Point Verification Time (CST): 9:40

Sample: Sunbelt @ Longleaf

Sample Location: Vyrnes Rd

Sample Height (m): 3m

Latitude: N 30.486766 Longitude: W -87.289612

Start Test (CST): 9/7/17 9:45

Test Length: 60 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: HA-60 sample-005

Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:46	21.1	61%	6	NE
10:28	23.1	54%	11	NNE
10:46	23 C	52%	8	E

Data Source: WFHS KFLPENSA 85

Particulates in Air: (Average µm/m³) PM$_1$: 15 PM$_{2.5}$: 16 Respirable: 17 PM$_{10}$: 19 Total: 31

Sample:

Meterological Data:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

·ogged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM$_1$: PM$_{2.5}$: Respirable: PM$_{10}$: Total:

Sample:

Meterological Data:

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM$_1$: PM$_{2.5}$: Respirable: PM$_{10}$: Total:

Notes:

Not washing, low wind
Calibration for noise meter @ 9:45
Average hourly noise 55.4 db

ler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/11/17

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

ment:

Field Meter Model #: DusTrak DRX - Model 8534	Factory Calibration Date: 4/20/17
Field Meter Serial #: 8534161603	Zero Point Verification Date: 9/11/17
Other Equipment Used: Stylhouse, cell phone, noise meter	Zero Point Verification Time (CST): 10:03

Sample: Sunbelt @ Longleaf

Sample Location: South Fenceline

Sample Height (m): 3m

Latitude: N 30.456591

Longitude: W -87.288913

Start Test (CST): 10:04

Test Length: 60 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: 11MAR60 Smk-006

Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:04	19.4	79	8	NW
10:34	19.3	80	12	N
11:04	19.6	81	11	NNW

Data Source: WFHS KFLPENSA 85

Particulates in Air: (Average µm/m³) PM_1: 28 $PM_{2.5}$: 30 Respirable: 32 PM_{10}: 43 Total: 56

Sample:

Sample Location:

Sample Height (m):

Latitude: N

Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Sample:

Sample Location:

Sample Height (m):

Latitude: N

Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Active crushing
High wind gusts
Average hourly noise = 62.3 db

Noise meter calibrated @ 10:03

Sampler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 10/17/17

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak - DRX - model 8534	Factory Calibration Date: 9/2017
Field Meter Serial #: 8534131503	Zero Point Verification Date: 10/17/17
Other Equipment Used: Stepladders, cell phone, noise meter	Zero Point Verification Time (CST): 14:00

Sample: Sun bett

Sample Location: Wymart Rd

Sample Height (m): 3m

Latitude: N 30.487157

Longitude: W -87.289978

Start Test (CST): 16:01 (17:01)

Test Length: 60 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: 1HR60-004

Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
16:01 ~~25.1~~	25.1	54	7	ENE
16:30	24.9	55	8	NNE
16:54	24.5	56	1	N

Data Source: UFHS KFLPENSA85

Particulates in Air: (Average µm/m³) PM_1: 29 $PM_{2.5}$: 29 Respirable: 29 PM_{10}: 30 Total: 34

Sample:

Sample Location:

Sample Height (m):

Latitude: N

Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Sample:

Sample Location:

Sample Height (m):

Latitude: N

Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Background
Noise level 53.3 db

Sampler(s) Signature(s):

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 10/30/17

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust TRAK DRX-model 8534	Factory Calibration Date: 10/2017
Field Meter Serial #: 8534161603	Zero Point Verification Date: 10/30/17
Other Equipment Used: step ladder, cell phone, noise meter	Zero Point Verification Time (CST): 10:40

Sample: Sunbelt ~~Q-6~~

Sample Location: Wymer Rd

Sample Height (m): 3m

Latitude: N 30.486815 Longitude: W -87.289716

Start Test (CST): 10/30/17 10:41

Test Length: 60min

Data Logged: Yes ☒ No ☐

Log Interval: 1min

Initial File Name: 14A-60 [illegible] 017

Data Points: 60

Data Source: WCHS 1 CLPENSA55

Particulates in Air: (Average µm/m³) PM₁: 9 PM₂.₅: 10 Respirable: 10 PM₁₀: 11 Total: 17

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:42	16.8	43	0	WNW
11:12	17.6	41	0	WNW
11:36	18.3	42	0	WNW

Sample:

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Sample:

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Noise Level 51.9 db

Background

Sampler(s) Signature(s):

[signature]

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/2/17

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Onsite AK DRX-Model 8534	Factory Calibration Date: 10/2017
Field Meter Serial #: 853416163	Zero Point Verification Date: 11/2/17
Other Equipment Used: Step ladder, cell phone, noise meter	Zero Point Verification Time (CST): 14:52

Sample: Sunbelt

Sample Location: downwind on site Sample Height (m): 3M

Latitude: N 30.458785 Longitude: W -87.288978

Start Test (CST): 14:54 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: IHR_60sample-018 # Data Points: 60

Particulates in Air (Average µm/m³): PM_1: 6 $PM_{2.5}$: 7 Respirable: 7 PM_{10}: 7 Total: 8

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
14:54	25.9	73	7	SSE
15:24	25.8	73	4	S
15:54	25.3	73	4	SE

Data Source: WFHS KCFLPENSA55

Sample: Sunbelt

Sample Location: upwind outside fence line Sample Height (m): 3 M

Latitude: N 30.486320 Longitude: W -87.288915

Start Test (CST): 16:03 Test Length:

Data Logged: Yes ☒ No ☐ Log Interval:

Initial File Name: 10MIN MEAN-019 # Data Points:

Particulates in Air (Average µm/m³): PM_1: 8 $PM_{2.5}$: 8 Respirable: 9 PM_{10}: 11 Total: 25

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
16:06	25.2	73	11	SSE

Data Source: WFHS KCFLPENSA55

Sample:

Sample Location: Sample Height (m): N/A

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

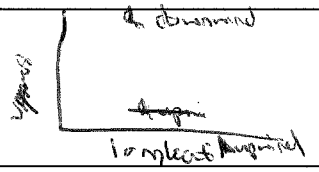
Data Source:

Notes:

Noise level = 50.3 (dB)

Noise @ background = 63.9

not conducting



Sampler(s) Signature(s):

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Date Modified: 5/6/2016

Field Report Form: Particulate Matter in Air

Date: 4/5/18

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Meter Model #: Dust Trak DRX-model 8534	Factory Calibration Date: 10/2017
Field Meter Serial #: 8534161603	Zero Point Verification Date: 4/5/18
Other Equipment Used: Cellphone, step-ladder, noise meter	Zero Point Verification Time (CST): 9:08

Sample: Sunbelt

Sample Location: Wymart Rd

Sample Height (m): 1 M

Latitude: N 30.486620 Longitude: W -87.289657

Start Test (CST): 9:10 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: IAR-COSAMPLE-051 # Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:12	11.8	60	0	N
9:43	13.2	53	0	NNE
10:07	14.4	48	0	NE

Data Source: WFHS KFLPENSA 85

Particulates in Air: (Average µm/m³) PM₁: 8 PM₂.₅: 8 Respirable: 8 PM₁₀: 8 Total: 10

Sample: Sunbelt

Sample Location: Background 52.1 dB

Sample Height (m): 1 M

Latitude: N 30.488259 Longitude: W -87.288879

Start Test (CST): 10:19 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

File Name: MINMEAN-052 # Data Points: 10

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:25	15.5	42	0	NE

Data Source: WFHS KFLPENSA 85

Particulates in Air: (Average µm/m³) PM₁: 5 PM₂.₅: 5 Respirable: 5 PM₁₀: 6 Total: 9

Sample:

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Notes:

Crushing not active
Noise 53.6 dB

Sampler(s) Signature(s):

[signature]

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6/4/18

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust TRAK DRX-model 8534	Factory Calibration Date: 10/2017
Field Meter Serial #: 8534161603	Zero Point Verification Date: 6/4/18
Other Equipment Used: Step ladder, cell phone, poisonmeter	Zero Point Verification Time (CST): 11:08

Sample: Sunbelt

Sample Location: Upwind Wynn Rd 51.7 dB

Sample Height (m): 1 m

Latitude: N 30.488757 Longitude: W -87.289606

Start Test (CST): ~~12:10~~ 11:02 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval:

Initial File Name: 1AMEN MEAN-001 # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:06	29.5	62	4	NNW

Data Source: WFHS KFLPENSA 85

Particulates in Air: (Average µm/m³) PM1: ~~0~~ 15 PM2.5: ~~0~~ 16 Respirable: ~~0~~ 16 PM10: ~~0~~ 18 Total: ~~0~~ 24

Sample:

Sample Location: Downwind Inside fuel by entry 64.3 dB

Sample Height (m): 1 m

Latitude: N 30.486441 Longitude: W -87.288835

Start Test (CST): ~~11:02~~ 12:10 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60sample-002 # Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:12	31.3	56	1	NNE
12:42	31.2	57	3	WNW
13:06	31.6	56	0	SW

Data Source: WFHS KFLPENSA85

Particulates in Air: (Average µm/m³) PM1: ~~3~~ 23 PM2.5: ~~3~~ 24 Respirable: 25 PM10: ~~4~~ 30 Total: 57

Sample:

Sample Location:

Sample Height (m): Arm

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM1: PM2.5: Respirable: PM10: Total:

Notes:

Active crushing during downwind sampling events

2-Min Max: 61.9 dB; 76.2 dB; 79.6 dB

Sampler(s) Signature(s):

[signature] [signature]

Date Modified: 5/6/2016

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/18/18

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust TRAIL DRX-Model 8534	Factory Calibration Date: 10/2017
Field Meter Serial #: 8534161603	Zero Point Verification Date: 9/18/18
Other Equipment Used: Stepladder, cell phone, noise meter	Zero Point Verification Time (CST): 10:25

Sample: Sunbelt

Sample Location: Wyman Rd 53.7 dB

Sample Height (m): 1m

Latitude: N 30.4869055 Longitude: W -87.2896494

Start Test (CST): 10:27 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 11TR-60SAMPLE_006 # Data Points: 60

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:31	32.28	72	0	N
11:00	35.56	63	0	ENE
11:24	34.00	64	1	S

Data Source: WFHS KFLPENSA 85

Particulates in Air: (Average µm/m³) PM₁: 18 PM₂.₅: 18 Respirable: 18 PM₁₀: 19 Total: 26

Sample: Upwind (Backgrowd)

Sample Location: onsite 49.6 dB

Sample Height (m): 1m

Latitude: N 30.488039 Longitude: W -87.288854

Start Test (CST): 11:35 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN-007 # Data Points: 10

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:36	33.22	64	~~8~~ 1	SSE

Data Source: WFHS KFLPENSA 85

Particulates in Air: (Average µm/m³) PM₁: 18 PM₂.₅: 18 Respirable: 18 PM₁₀: 19 Total: 20

Sample:

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Meterological Data:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Data Source:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Notes:

Not crushing; material being moved on site

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/4/18

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAK DRX-model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 12/4/18 9:14 time change
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 9:14 12/4/18
Other Equipment Used: Sampladder, cellphone	

Site: Sunbelt

Crushing: Yes ☑ No ☐

Sample Location: Inside front fence

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.486445 Longitude: W -87.288689

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 9:18 *	Test Length: 60 min	8:20	8.1	74	0	N
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	8:44	8.4	73	1	N
Initial File Name: 1HR-60SAMPLE_002	# Data Points: 60	9:14	9.4	71	0	N

Average Sound Level (dB): 57.0

When crushing - 3 x 2 min peak values at 5 ft (dB): A: 59.2 B: 60.2 C: 63.4

Particulates in Air: (Average µm/m³) PM_1: 13 $PM_{2.5}$: 13 Respirable: 14 PM_{10}: 17 Total: 20

Sample Location: Wymart Rd upwind

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.487815 Longitude: W -87.289665

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:37 *	Test Length: 10 min	9:38	9.7	68	2	NE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN_003	# Data Points: 10					

Average Sound Level (dB): 60.6

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 9 $PM_{2.5}$: 9 Respirable: 9 PM_{10}: 10 Total: 12

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

No discharge from site
* time change all times 1 hr later than actual

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/13/19

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust TRAK DRX - Model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 2/13/19 ~~10:0~~ 11:03
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 2/13/19 11:03
Other Equipment Used: Step ladder Cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☑

Sample Location: Upwind, by entrance

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486505 Longitude: W -87.288873

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:10	Test Length: 10 min	13:10	20.8	85	8	SSE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	~~13:40~~	~~21.1~~	84	12	SE
Initial File Name: 10MINMEAN - COS	# Data Points: 10	14:10	21.3	83	~~11~~	S

Average Sound Level (dB): 57.0

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 16 $PM_{2.5}$: 18 Respirable: 23 PM_{10}: 31 Total: 39

Sample Location: Downwind, Wymart Rd

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.487892 Longitude: W -87.289673

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:33	Test Length: 60 min	13:34	21.1	84	1	SSE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	14:04	21.1	84	0	SE
Initial File Name: KHR-GOSAMPLE_006	# Data Points: 60	14:28	21.4	82	8	ESE

Average Sound Level (dB): 52.8

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 19 $PM_{2.5}$: 22 Respirable: 27 PM_{10}: 44 Total: 65

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

High winds, some traffic on Wymart Rd. unannounced sampling

Pensacola airport registering wind speeds of 15-20mph

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 4-10-19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAX DRX-Model 8534	Factory Calibration Date: 10-2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 4-10-19 1015
Sound Level Serial #: N803560	Sound Level Calibration Verified Date/Time (CST): 4-10-19 1015
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt Crushing — Crushing: Yes ☐ No ☒

Sample Location: South fence, ~~Bradley~~ RC Downwind — Sample Height (m): 1

Latitude: N 30.4864796 — Longitude: W -87.2889227

Start Test (CST): 1016 — Test Length: 1 hour

Data Logged: Yes ☒ No ☐ — Log Interval: 1 min

Initial File Name: THR-60Sample_025 — # Data Points: 60

Average Sound Level (dB): 50.9 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 9 PM₂.₅: 9 Respirable: 10 PM₁₀: 12 Total: 15

Meterological Data Source: WFHS KFLPENSA 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:18	25.6	66	0	NNW
10:42	26.1	65	0	ENE
11:40	26.1	60	0	NE

Sample Location: North end of property, Background — Sample Height (m): 1

Latitude: N 30.4883685 — Longitude: W -87.2890191

Start Test (CST): 1126 — Test Length: 10 min

Data Logged: Yes ☒ No ☐ — Log Interval: 1 min

Initial File Name: 10Min Mean_026 — # Data Points: 10

Average Sound Level (dB): 48.0 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 8 PM₂.₅: 9 Respirable: 9 PM₁₀: 10 Total: 11

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:30	27.2	59	0	W

Sample Location: — Sample Height (m):

Latitude: N — Longitude: W

Start Test (CST): — Test Length:

Data Logged: Yes ☐ No ☐ — Log Interval:

Initial File Name: — # Data Points:

Average Sound Level (dB): — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 5/23/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust TRAK DRX - model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): ~~5/14~~ 5/23/19 9:15
Sound Level Serial #: N802580	Sound Level Calibration Verified Date/Time (CST): 5/23/19 9:15
Other Equipment Used: Step ladder, cell phone	

Site: SuAbett Crushing: Yes ☒ No ☐

Sample Location: Lymer Rd Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30486904 Longitude: W -87.289594

Start Test (CST): 9:16 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-GOSAMPLE.039 # Data Points: 60

Average Sound Level (dB): 62.8 When crushing - 3 x 2 min peak values at 5 ft (dB): A: 72.5 B: 70.5 C: 62.7

Particulates in Air: (Average µm/m³) PM_1: 20 $PM_{2.5}$: 21 Respirable: 24 PM_{10}: 38 Total: 59

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:20	28.9	78	0	E
9:44	29.4	74	0	SSE
10:11	29.4	74	0	ESE

Sample Location: Near entrance - inside fence Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486432 Longitude: W -87.288886

Start Test (CST): 10:33 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN-040 # Data Points: 10

Average Sound Level (dB): ~~10MIN MEAN~~ 64.3 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 12 $PM_{2.5}$: 13 Respirable: 14 PM_{10}: 17 Total: 21

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:38	30.6	71	0	SSW

Sample Location: Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

Start Test (CST): Test Length: ARM

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on upon arrival + through sampling

Sampler(s) Signature(s):

[signature] [signature] [signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 7/3/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DusTRAIL DRX - Model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 7/3/19 7:50
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 7/3/19 7:50
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1m

Latitude: N 30.486817

Longitude: W -87.289711

Start Test (CST): 7:55

Test Length: 10 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: 10MINMEAN_011

Data Points: 10

Average Sound Level (dB): 59.8

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 22 PM₂.₅: 22 Respirable: 24 PM₁₀: 26 Total: 28

Meterological Data Source: WFHS KFLPENSA 181

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
8:02	25.6	92	6	W

Sample Location: Treeline near entrance by dumpster

Sample Height (m): 1m

Latitude: N 30.486753

Longitude: W -87.288671

Start Test (CST): 8:10

Test Length: 60 min

Data Logged: Yes ☒ No ☐

Log Interval: 1 min

Initial File Name: 1HR60SAMPLE_012

Data Points: 60

Average Sound Level (dB): 53.4

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 24 PM₂.₅: 25 Respirable: 28 PM₁₀: 37 Total: 48

Meterological Data Source: WFHS KFLPENSA 181

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
8:14	25.6	92	5	WSW
8:38	26.1	90	0	WNW
9:08	26.1	90	4	WNW

Sample Location:

Sample Height (m):

Latitude: N

Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 8/27/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534/16160	Zero Point Verification Date/Time (CST): 8/27/19 15:00
Sound Level Serial #: N8035500	Sound Level Calibration Verified Date/Time (CST): 8/27/19 15:00
Other Equipment Used: Stop Watch cell phone	

Site: Sunbelt Crushing: Yes ☐ No ☒

Sample 1

Sample Location: Wynnes Rd Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.487228 Longitude: W -87.289561

Start Test (CST): 15:00 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MNMEAN-026 # Data Points: 10

Average Sound Level (dB): 60.6 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 14 $PM_{2.5}$: 14 Respirable: 15 PM_{10}: 17 Total: 17

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
15:02	27.9	85	6.0	NNE
			"	

Sample 2

Sample Location: Front corner by entrance inside fencline Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486375 Longitude: W -87.288734

Start Test (CST): 15:26 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60SAMPLE-027 # Data Points: 60

Average Sound Level (dB): 55.9 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 8 $PM_{2.5}$: 9 Respirable: 10 PM_{10}: 12 Total: 12

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
15:28	26.9	88	3	NNW
15:50	26.8	89	4	ENE
16:26	28.7	83	3	SE

Sample 3

Sample Location: Sample Height (m): A1M

Meterological Data Source:

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Rain Shower ~~before~~ before sampling event

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/16/19

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DWH TRAK DRX - model 8534	Factory Calibration Date: 10/2018
Field Meter Serial #: 8534/1616	Zero Point Verification Date/Time (CST): 9/16/19 11:10
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 9/16/19 11:10
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt Crushing: Yes ☒ No ☐

Sample 1

Sample Location: Wymore Rd Sample Height (m): 1m

Latitude: N 30.487548 Longitude: W -87.289635

Start Test (CST): 11:12 Test Length: 60min

Data Logged: Yes ☒ No ☐ Log Interval: 1min

Initial File Name: 1HR-60SAMPLE_045 # Data Points: 60

Average Sound Level (dB): 63.5 When crushing - 3 x 2 min peak values at 5 ft (dB): A: 65.6 B: 65.6 C: 66.4

Particulates in Air (Average µm/m³): PM_1: 13 $PM_{2.5}$: 13 Respirable: 14 PM_{10}: 19 Total: 24

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:16	31.6	67	11	ESE
11:40	31.3	71	9	S
12:10	31.7	67	5	SE

Sample 2

Sample Location: Front Entrance corner Sample Height (m): 1m

Latitude: N 30.487609 Longitude: W -87.285541

Start Test (CST): 12:29 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN-046 # Data Points: 10

Average Sound Level (dB): 63.9 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 16 $PM_{2.5}$: 17 Respirable: 19 PM_{10}: 32 Total: 54

Meterological Data Source: WFHS = KFLPENSA 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:34	31.9	69	3	SE

Sample 3

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on during crushing ~~Sunday~~

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/21/19

Sample Type: Ambient Air ☐ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX - Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 11/21/19 9:25
Sound Level Serial #: N&03540	Sound Level Calibration Verified Date/Time (CST): 11/21/19 9:25
Other Equipment Used: Step ladder, cell phone	

Site: Smabelt Crushing: Yes ☐ No ☒

Sample 1

Sample Location: Front Corner near entrance Sample Height (m): 1.7

Latitude: N 30.486565 Longitude: W -87.288777

Start Test (CST): 11:15 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1SAMENMEAN - 014 # Data Points: 10

Average Sound Level (dB): 56.7 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 35 $PM_{2.5}$: 36 Respirable: 39 PM_{10}: 57 Total: 82

Meterological Data Source: WFMS KFLPENSA55

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:16	19.9	76	12	E
			〃	

Sample 2

Sample Location: Wyman Rd Sample Height (m): 1.7

Latitude: N 30.488338 Longitude: W -87.289794

Start Test (CST): 11:30 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: HR-60SAMPLE 015 # Data Points: 60

Average Sound Level (dB): 53.5 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 21 $PM_{2.5}$: 21 Respirable: 22 PM_{10}: 25 Total: 28

Meterological Data Source: WFMS KFLPENSA55

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:28	19.9	76	13	ESE
11:58	20.0	77	11	ESE
12:28	20.1	78	12	ENE

Sample 3

Sample Location: Sample Height (m): Abort

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on; no discharge to creek

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 1/8/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust TRAK DRX Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 1/8/20 8:55
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 1/8/20 8:55
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt Crushing: Yes ☐ No ☒

Sample Location: Seymour Rd Sample Height (m): 1M

Latitude: N 30.486792 Longitude: W -87.289680

Start Test (CST): 9:00 Test Length: 60min

Data Logged: Yes ☒ No ☐ Log Interval: 1min

Initial File Name: 1HR-60SAMPLE 024 # Data Points: 60

Average Sound Level (dB): 56.9 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM1: 8 PM2.5: 8 Respirable: 8 PM10: 10 Total: 11

Meterological Data Source: WFHS KFLPENSA 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:02	9.4	56	5	NE
9:26	10.3	54	5	NE
9:56	12.0	48	3	E

Sample Location: Inside front fence by entrance Sample Height (m): 1M

Latitude: N 30.486397 Longitude: W -87.288746

Start Test (CST): 10:08 Test Length: 10min

Data Logged: Yes ☒ No ☐ Log Interval: 1min

Initial File Name: 10MINMEAN-025 # Data Points: 10

Average Sound Level (dB): 59.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM1: 8 PM2.5: 8 Respirable: 8 PM10: 11 Total: 13

Meterological Data Source: WFHS = KFLPENSA 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:08	12.4	46	8	E

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM1: PM2.5: Respirable: PM10: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on, back of property not accessable due to concrete.
No discharge to creek, no activity on site

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/2/20

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust Trak DRX Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 3/2/20 10:55
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 3/2/20 10:55
Other Equipment Used: Step ladder, wll prow	

Site: Sunbelt

Crushing: Yes ☐ No ☑

Sample Location: Wyman Rd	Sample Height (m): 1M	Meterological Data Source: WFHS KFLPENSA 85
Latitude: N 30.488781	Longitude: W -87.258674	
Start Test (CST): 11:00	Test Length: 60 min	
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	
Initial File Name: 1HR-LOSAMPLE 035	# Data Points: 60	
Average Sound Level (dB): 57.9	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:	

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:04	20.5	77	9	SE
11:28	20.8	79	9	SE
11:58	19.9	83	5	ESE

Particulates in Air: (Average µm/m³) PM_1: 13 $PM_{2.5}$: 14 Respirable: 16 PM_{10}: 18 Total: 19

Sample Location: Inside front fence Corner near wrench	Sample Height (m): 1M	Meterological Data Source: WFHS KFLPENSA 85
Latitude: N 30.486275	Longitude: W -87.288734	
Start Test (CST): 12:11	Test Length: 10 min	
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	
Initial File Name: 10MINMEAN-036	# Data Points: 10	
Average Sound Level (dB): 58.3	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:	

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:16	19.7	85	6	SSE

Particulates in Air: (Average µm/m³) PM_1: 13 $PM_{2.5}$: 15 Respirable: 16 PM_{10}: 18 Total: 20

Sample Location:	Sample Height (m):	Meterological Data Source:
Latitude: N	Longitude: W ARM	
Start Test (CST):	Test Length:	
Data Logged: Yes ☐ No ☐	Log Interval:	
Initial File Name:	# Data Points:	
Average Sound Level (dB):	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:	

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on, no discharge to creek, back of property N side near associate concrete pits

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 04.14.20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DWY TRAK ODX Model 6534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 04.14.20 / 1355
Sound Level Serial #: N8035560	Sound Level Calibration Verified Date/Time (CST): 04.14.20 / 1355
Other Equipment Used: Stop watches, cell phone	

Site: SUNBELT Crushing: Yes ☒ No ☐

Sample Location: NEXT TO ENTRANCE

Sample Height (m): 1

Meterological Data Source: KFLPENSA85

Latitude: N 30.486440 Longitude: W -87.288717

Start Test (CST): 1357 Test Length: 60 MIN

Data Logged: Yes ☒ No ☐ Log Interval: 1 MIN

Initial File Name: 1HR-60SAMPLE0419 # Data Points: 60

Average Sound Level (dB): 59.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: 65.5 B: 65.5 C: 70.5

Particulates in Air (Average µm/m³): PM_1: 31 $PM_{2.5}$: 33 Respirable: 36 PM_{10}: 47 Total: 57

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1358	26.3	56	4.0	NW
1428	26.6	59	3.0	NW
1458	26.4	58	6.0	NW

Sample Location: WYMART RD

Sample Height (m): 1

Meterological Data Source: KFLPENSA85

Latitude: N 30.487591 Longitude: W -87.289705

Start Test (CST): 1521 Test Length: 10 MIN

Data Logged: Yes ☒ No ☐ Log Interval: 1 MIN

Initial File Name: 10-MIN MEAN 0550 # Data Points: 10

Average Sound Level (dB): 63.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 18 $PM_{2.5}$: 18 Respirable: 18 PM_{10}: 19 Total: 20

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1522	26.1	61	4.0	NW

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

SPRINKLERS ARE ON & NO DISCHARGE INTO CREEK

Sampler(s) Signature(s):

TRAVIS MCLONY

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6/18/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUST SRAM DRX Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: #534161603	Zero Point Verification Date/Time (CST): 6/18/20 12:30
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 6/18/20 12:30
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.487713 Longitude: W -87.289671

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:34	Test Length: 60 min	12:34	29.7	52	1.0	NE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	13:04	29.3	58	2.0	E
Initial File Name: 1HR-GOSAMPLE_064	# Data Points: 60	13:34	29.2	67	7.0	SSE

Average Sound Level (dB): 53.1

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 20 $PM_{2.5}$: 20 Respirable: 20 PM_{10}: 21 Total: 22

Sample Location: Next to entrance

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486440 Longitude: W -87.288717

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:42	Test Length: 10 min	13:46	29.4	67	5.0	SSE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MIN MEAN065	# Data Points: 10					

Average Sound Level (dB): 57.1

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 30 $PM_{2.5}$: 30 Respirable: 30 PM_{10}: 32 Total: 34

Sample Location:

Sample Height (m): Arm

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on + no discharge to creek

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 8/10/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTTRAK Model 8534	Factory Calibration Date: 10/2019
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 8/10/20 11:40
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 8/10/20 11:40
Other Equipment Used: Stop ladder, cellphone	

Site: Sabatt

Crushing: Yes ☐ No ☒

Sample Location: Inside gate Wymat rd

Sample Height (m): 1M

Meterological Data Source: PFHS KFLPENSA181

Latitude: N 30.489506 Longitude: W -87.289568

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:43	Test Length: 60 min	11:44	31.6	68	2	NW
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	12:08	31.9	67	8	WSW
Initial File Name: 1HR-GOSAMPLE_083	# Data Points: 60	12:44	31.8	64	5	SSW

Average Sound Level (dB): 53.0

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 10 $PM_{2.5}$: 11 Respirable: 12 PM_{10}: 13 Total: 14

Sample Location: front [illegible], Longleaf rd

Sample Height (m): 1M

Meterological Data Source: PFHS KFLPENSA181

Latitude: N 30.486438 Longitude: W -87.288936

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:50	Test Length: 10 min	12:56	31.5	68	3	S
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10 MINMEAN - 084	# Data Points: 10					

Average Sound Level (dB): 60.8

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 22 $PM_{2.5}$: 23 Respirable: 26 PM_{10}: 35 Total: 45

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length: Ann					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on, started to rain during upwind sample
1MINMEAN - 082 @11:40 PM2.5 = 16

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/10/20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DusitRAK DRX Model 8834	Factory Calibration Date: 10/2019
Field Meter Serial #: #8534161603	Zero Point Verification Date/Time (CST): 9/10/20 8:10
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 9/10/20 8:10
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: SE corner near entrance

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.48C375 Longitude: W -87.288734

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:10	Test Length: 10 min	10:14	28.3	79	4	NE
Data Logged: Yes ☒ No ☐	Log Interval: 1min					
Initial File Name: 10MINMEAN-095	# Data Points: ~~60~~ 10					

Average Sound Level (dB): 60.4

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 15 $PM_{2.5}$: 15 Respirable: 16 PM_{10}: 21 Total: 26

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486874 Longitude: W -87.289644

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:29	Test Length: 60min	10:30	29.1	77	5	NE
Data Logged: Yes ☒ No ☐	Log Interval: 1min	10:58	29.3	75	2	NE
Initial File Name: 1HR-60SAMPLE-096	# Data Points: 60	11:28	29.7	74	10	E

Average Sound Level (dB): 55.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 10 $PM_{2.5}$: 11 Respirable: 11 PM_{10}: 14 Total: 16

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W Army

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: ~~10/20~~ 10/20/20

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX model 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 10/20/20 11:10
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 10/20/20 11:10
Other Equipment Used: Stepladder, cell phone	

Site: Sunbelt Crushing: Yes ☐ No ☑

Sample Location: ~~southwest~~ mgo southeast corner (fence by entrance)
Sample Height (m): 1m
Latitude: N 30.4864 Longitude: W -87.2887
Start Test (CST): 11:12
Test Length: 10minutes
Data Logged: Yes ☑ No ☐
Log Interval: 1min
Initial File Name: 10minmean_007
Data Points: 10
Average Sound Level (dB): 58.0
When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Meterological Data Source: WFHS KFL Pensa ~~mgo~~ 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:14	25.7	80%	11.0mph	east
~~11:50~~	~~mgo 26.7~~	~~79%~~	~~8.0~~	~~ENE~~ MGO
12:14	~~mgo 25.9~~	77%	13.0	ENE MGO

Particulates in Air: (Average µm/m³) PM_1: ~~mgo~~ 11 $PM_{2.5}$: 12 Respirable: 13 PM_{10}: 15 Total: 19

Sample Location: Wymart Road
Sample Height (m): 1m
Latitude: N 30.4870 Longitude: W -87.2896
Start Test (CST): 11:46
Test Length: 60min
Data Logged: Yes ☑ No ☐
Log Interval: 1min
Initial File Name: 1hr60sample_008
Data Points: 60
Average Sound Level (dB):
When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Sample Location: Wymart Road
Sample Height (m): 1m
Latitude: N ~~30.4864~~ 30.4870 Longitude: W ~~mgo 87~~ -87.2896
Start Test (CST): 12:54
Test Length: 60min
Data Logged: Yes ☑ No ☐
Log Interval: 1min
Initial File Name: 1hr60sample_009
Data Points: 60
Average Sound Level (dB): 57.7
When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Meterological Data Source: WFHS KFL Pensa 85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:56	27.6	75	5.0	ENE
13:26	28.2	69	12.0	ENE
13:56	28.4	65	12.0	ESE

Particulates in Air: (Average µm/m³) PM_1: 7 $PM_{2.5}$: 8 Respirable: 8 PM_{10}: 9 Total: ~~9~~ mgo 10

Notes:
@Wymart road: fence down, sprinklers on
1hr60sample_008; battery diet@ 0.54

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12-28-20

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dusttrak-DRX Model 8834	Factory Calibration Date: 9-2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 12-28-20
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 12-28-20 1010
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt Crushing — Crushing: Yes ☐ No ☒

Sample Location: Wymart, N.W corner of property — Sample Height (m): 1M

Latitude: N 30.4890806 — Longitude: W -87.2895473

Meterological Data Source: WFHS KFLPENSA85

Start Test (CST):	Test Length:	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1159	1HR	1202	18.4	66	1.0	SE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	1232	18.3	68	7.0	SE
Initial File Name: 1HR-60SAMPLE_026	# Data Points: 60	1256	18.2	68	4.0	SSE

Average Sound Level (dB): 51.8 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 2 $PM_{2.5}$: 2 Respirable: 2 PM_{10}: 3 Total: 3

Sample Location: Sunbelt property, SE corner by gate — Sample Height (m): 1m

Latitude: N 30.4866952 — Longitude: W -87.2886106

Meterological Data Source: WFHS KFLPENSA85

Start Test (CST):	Test Length:	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1311	10 min	1314	18.5	67	1.0	ESE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10 Min Mega-027	# Data Points: 10					

Average Sound Level (dB): 55.5 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 1 $PM_{2.5}$: 1 Respirable: 2 PM_{10}: 2 Total: 3

Sample Location: — Sample Height (m):

Latitude: N — Longitude: W

Meterological Data Source:

Start Test (CST):	Test Length:	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB): — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Light vehicle traffic on Wymart, same at Longleaf by gate

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 2/8/21

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTTRAIL DRX 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 2/8/21 11:30
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 2/8/21 11:30
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA55

Latitude: N 30.488918 Longitude: W -87.289452

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:31	Test Length: 60 min	11:32	12.9	81	19	SE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	12:02	13.6	80	14	E
Initial File Name: THR-GOSAMPLE_041	# Data Points: 60	12:26	13.9	77	12	E

Average Sound Level (dB): 52.2

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 6 PM_{10}: 7 Total: 7

Sample Location: SE Corner by entrance

Sample Height (m): 1m

Meterological Data Source: WFHS = KFLPENSA55

Latitude: N 30.486472 Longitude: W -87.288637

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:38	Test Length: 10 min	12:44	14.2	76	9	ESE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-042	# Data Points: 10					

Average Sound Level (dB): 59.9

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 6 $PM_{2.5}$: 6 Respirable: 7 PM_{10}: 8 Total: 10

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

No windscreen on noise meter. Well marking on Wymart along fenceline @ start of downwind sample. No cell sig on site, some of fenceline replaced

Sampler(s) Signature(s):

[signature] [signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3.29.2021

Sample Type: Ambient Air [X] Indoor Air [ ] Other:

Equipment:

Field Meter Model #:	Dusttrak - DRX Model 8834	Factory Calibration Date:	9-2020
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	3.29.2021 0930
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	3.29.2021 0932 / 1000
Other Equipment Used:	Step - ladder, Cell Phone		

Site: Sunbelt Crushing — Crushing: Yes [ ] No [X]

Sample Location: SW Corner of Property — Sample Height (m): 1m — Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.4870787 — Longitude: W -87.2896271

Start Test (CST): 1412 — Test Length: 60 min — Data Logged: Yes [X] No [ ] — Log Interval: 1 min — Initial File Name: 1HR-60Sample-062 — # Data Points: 60 — Average Sound Level (dB): 47.5 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1412	22.5	41	2	E/NE
1430	22.8	39	4	NE
1500	23.7	38	0	N

Particulates in Air (Average µm/m³): PM_1: 2 — $PM_{2.5}$: 2 — Respirable: 3 — PM_{10}: 4 — Total: 10

Sample Location: Sunbelt property, SE By the gate. — Sample Height (m): 1m — Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.4865329 — Longitude: W -87.2887487

Start Test (CST): 1003 — Test Length: 1HR — Data Logged: Yes [X] No [ ] — Log Interval: 1 min — Initial File Name: 1HR-60Sample-049 — # Data Points: 60 — Average Sound Level (dB): 50.6 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
1001	15.6	60	5	E/NE

Particulates in Air (Average µm/m³): PM_1: 8 — $PM_{2.5}$: 8 — Respirable: 9 — PM_{10}: 10 — Total: 14

Sample Location: — Sample Height (m): — Meterological Data Source:

Latitude: N — Longitude: W

Start Test (CST): — Test Length: — Data Logged: Yes [ ] No [ ] — Log Interval: — Initial File Name: — # Data Points: — Average Sound Level (dB): — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Particulates in Air (Average µm/m³): PM_1: — $PM_{2.5}$: — Respirable: — PM_{10}: — Total:

Notes:

Running Sprinklers upond arrival. Sound Meter Calibrated at 91.7

- ONE HOUR SAMPLE @ 10:03 WAS MISTAKENLY RUN AS 10 MIN SAMPLE... THE ONE HR 10:03 SAMPLE IS USED AS THE 10 MIN

Sampler(s) Signature(s):

Kaitlyn Price

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 5/13/21

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX model 8533	Factory Calibration Date: 9/2020
Field Meter Serial #: 8583116603	Zero Point Verification Date/Time (CST): 5/13/21 9:35
Sound Level Serial #: NC078580	Sound Level Calibration Verified Date/Time (CST): 5/13/21 9:35
Other Equipment Used: Stop watch, cell phone	

Site: Sunbelt Crushing: Yes ☒ No ☐

Sample Location: Wymart Rd Sample Height (m): 1m

Latitude: N 30.486828 Longitude: W -87.289685

Start Test (CST): 13:34 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 60MIN-60SAMPLE-067 # Data Points: 60

Average Sound Level (dB): 57.0 When crushing - 3 x 2 min peak values at 5 ft (dB): A: 64.8 B: 55.8 C: 52.4

Particulates in Air (Average µm/m³): PM_1: 7 $PM_{2.5}$: 7 Respirable: 7 PM_{10}: 9 Total: 11

Meterological Data Source: WFHS KFLPENSA95

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
13:34	19.6	87	5.0	ENE
13:58	19.4	87	6.0	NNE
14:28	19.3	88	6.0	ENE

Sample Location: front entrance corner Sample Height (m): 1M

Latitude: N 30.486490 Longitude: W -87.288755

Start Test (CST): 14:49 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN-068 # Data Points: 10

Average Sound Level (dB): 60.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 5 $PM_{2.5}$: 5 Respirable: 6 PM_{10}: 7 Total: 9

Meterological Data Source: WFHS KFLPENSA95

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
14:53	19.8	87	10.0	ENE

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on, fence repaired

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6.28.2021

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Quest Dlx - Model 8533	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161663	Zero Point Verification Date/Time (CST): 6.28.2021 14:05
Sound Level Serial #: N8035580	Sound Level Calibration Verified Date/Time (CST): 6.28.2021 14:05
Other Equipment Used: Sand whistle, cell phone	

Site: SUNBELT Crushing: Yes ☐ No ☑

Sample Location: WYMAAT RD MIDWAY ALONG SUNBELT PROPERTY Sample Height (m): 1

Latitude: N 30.4882094 Longitude: W -87.2895896

Meterological Data Source: Wunderground WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
14:06	29.2	74	13	ESE
14:37	28.4	77	10	ESE
15:06	28.0	79	9	ESE

Start Test (CST): 14:08 Test Length: 60 MIN

Data Logged: Yes ☑ No ☐ Log Interval: 1 MIN

Initial File Name: 1HR-60SAMP_078 # Data Points: 60

Average Sound Level (dB): 52.8 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 9 $PM_{2.5}$: 9 Respirable: 10 PM_{10}: 11 Total: 13

Sample Location: ENTRANCE TO SUNBELT ON LONGLEAF RD Sample Height (m): 1

Latitude: N 30.4864465 Longitude: W -87.2887132

Meterological Data Source: Wunderground ~~KFL~~ WFHS KFLPENSA85 NGO

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
15:13	27.9	79	8	E

Start Test (CST): 15:14 Test Length: 10 MIN

Data Logged: Yes ☑ No ☐ Log Interval: 1 MIN

Initial File Name: 10 MIN MEAN_078 # Data Points: 10

Average Sound Level (dB): 59.3 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 12 $PM_{2.5}$: 12 Respirable: 13 PM_{10}: 17 Total: 21

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

• SPRINKLERS ON ON ARRIVAL

Sampler(s) Signature(s):

(7.1.21)

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 8/5/21

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: Dust TRAK DRX Model 8534	Factory Calibration Date: 9/2020
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 8/5/21 8:30
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 8/5/21 8:30
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486948 Longitude: W -87.289677

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:44	Test Length: 60 min	10:44	28.8	80	8	ENE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	11:10	29.1	78	5	ENE
Initial File Name: 1HR-60SAMPLE095	# Data Points: 60	11:40	29.6	73	9	E

Average Sound Level (dB): 56.4

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 19 $PM_{2.5}$: 19 Respirable: 20 PM_{10}: 21 Total: 22

Sample Location: front corner by entrance inside fence

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486375 Longitude: W -87.288734

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:46	Test Length: 10 min	11:53	29.7	69	9	ENE
Data Logged: Yes ☐ No ☐	Log Interval: 1 min					
Initial File Name: 1BMINMEAN-096	# Data Points: 10					

Average Sound Level (dB): 57.3

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 15 $PM_{2.5}$: 15 Respirable: 16 PM_{10}: 17 Total: 18

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on; light bus traffic on Wymart Rd
roads wetted No activity on site

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/7/21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX model 8533	Factory Calibration Date: 9/2020
Field Meter Serial #: 8533161603	Zero Point Verification Date/Time (CST): ~~12~~ 9/7/21 12:26
Sound Level Serial #: NS035580	Sound Level Calibration Verified Date/Time (CST): 9/7/21 12:26
Other Equipment Used: Sony ladder, cellphone	

Site: Sunbelt Crushing: Yes ☐ No ☑

Sample 1

Sample Location: By front gate
Sample Height (m): 1m 1m
Latitude: N 30.486352 Longitude: W -87.288723
Start Test (CST): 12:28 Test Length: 10 min
Data Logged: Yes ☑ No ☐ Log Interval: 1
Initial File Name: 10 MIN MEAN_103 # Data Points: 10
Average Sound Level (dB): 58.9 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 34 $PM_{2.5}$: 34 Respirable: 36 PM_{10}: 41 Total: 54.0

Meterological Data Source: WFHS KFL PENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:27	28.2	80	11	E
~~12:45~~	~~27.9~~	~~79~~	~~12~~	~~SE~~
~~13:14~~	~~27.8~~	~~81~~	~~7~~	~~SSE~~

MGD

Sample 2

Sample Location: Wymart by fence
Sample Height (m): 1m
Latitude: N 30.488041 Longitude: W -87.289633
Start Test (CST): 12:45 Test Length: 60 min
Data Logged: Yes ☑ No ☐ Log Interval: 1 min
Initial File Name: 1HR-60SAMPLE_104 # Data Points: 60
Average Sound Level (dB): 56.9 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 2 $PM_{2.5}$: 2 Respirable: 3 PM_{10}: 4 Total: 10

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:45	27.9	79	12	SE
13:14	27.8	81	7	SSE
13:45	28.4	80	13	SE

Sample 3

Sample Location: Sample Height (m):
Latitude: N Longitude: W
Start Test (CST): Test Length:
Data Logged: Yes ☐ No ☐ Log Interval:
Initial File Name: # Data Points:
Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:
Sprinklers on; multiple trucks drove by + kicked up dirt during 10 minute sample

Sampler(s) Signature(s):
Madison Poole

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/1/21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DUSTRAK Model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161607	Zero Point Verification Date/Time (CST): 11/1/21 8:50
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 11/1/21 8:50
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☑

Sample Location: Wyoming Sample Height (m): 1M

Meterological Data Source: PFHS ~~WFHS~~ KFLPENSA86181

Latitude: N 30.486882 Longitude: W -87.289710

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 8:55	Test Length: 60 min	8:55	15.43	86	3.0	NNE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	9:25	16.4	81	5.0	NNE
Initial File Name: 1MA-COSAMPLE-OX	# Data Points: 60	9:55	17.4	79	3.0	NE

Average Sound Level (dB): 57.7 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 20 $PM_{2.5}$: 21 Respirable: 21 PM_{10}: 23 Total: 25

Sample Location: Free Sample Height (m): 1M

Meterological Data Source: PFHS ~~WFHS~~ KFLPENSA86181

Latitude: N 30.486473 Longitude: W -87.288770

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:18	Test Length: 10 min	10:19	18.6	77	4.0	ENE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-001	# Data Points: 10					

Average Sound Level (dB): 59.1 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 15 $PM_{2.5}$: 15 Respirable: 16 PM_{10}: 17 Total: 18

Sample Location: Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Many sprinklers; some heavy traffic on Wyoming

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/16/21

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRx Model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 12/16/21 9:00
Sound Level Serial #: N803550	Sound Level Calibration Verified Date/Time (CST): 12/16/21 9:00
Other Equipment Used: Step ladder, cell phone	

Site: Sumtech

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1m

Latitude: N 30.487146 Longitude: W -87.289688

Start Test (CST): 9:01 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1HX-60 SAMPLE 016 # Data Points: 60

Average Sound Level (dB): 55.3 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 18 $PM_{2.5}$: 19 Respirable: 20 PM_{10}: 23 Total: 25

Meterological Data Source: WFHS KFLPENSATS

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:03	16.8	97	7	E
9:27	17.9	96	8	E
9:56	19.4	94	2	ESE

Sample Location: Inside front entrance

Sample Height (m): 1M

Latitude: N 30.486430 Longitude: W -87.288646

Start Test (CST): 10:08 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10 MIN MEANS 017 # Data Points: 10

Average Sound Level (dB): 55.4 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 15 $PM_{2.5}$: 16 Respirable: 17 PM_{10}: 19 Total: 20

Meterological Data Source: WFHS KFLPENSATS

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:09	19.9	93	8	ESE

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/21/21

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 85341616 03	Zero Point Verification Date/Time (CST): 12/21/21 9:05
Sound Level Serial #: N 803 580	Sound Level Calibration Verified Date/Time (CST): 12/21/21 9:05
Other Equipment Used: Seep ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☑ No ☐

Sample Location: Front Entrance

Sample Height (m): 1 m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.486410 Longitude: W -87.288977

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 9:07	Test Length: 60 min	9:07	8.3	92	2.0	NNW
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	9:31	8.6	91	8.0	NW
Initial File Name: AIR-60SAMPLE_022	# Data Points: 60	10:02	9.3	90	5.0	NNW

Average Sound Level (dB): 59.7 When crushing - 3 x 2 min peak values at 5 ft (dB): A: 52.1 B: 59.0 C: 50.2

Particulates in Air: (Average µm/m³) PM_1: 16 $PM_{2.5}$: 16 Respirable: 17 PM_{10}: 18 Total: 19

Sample Location: Wymore Rd

Sample Height (m): 1 m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.488110 Longitude: W -87.289647

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:27	Test Length: 10 min	10:31	9.8	88	5.0	NNW
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-023	# Data Points: 10					

Average Sound Level (dB): 57.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 17 $PM_{2.5}$: 17 Respirable: 17 PM_{10}: 18 Total: 18

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers OA, roads wetted
Crusher broke at end of sampling event

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 1/31/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161653	Zero Point Verification Date/Time (CST): 1/31/22 10:00
Sound Level Serial #: N103580	Sound Level Calibration Verified Date/Time (CST): 1/31/22 10:00
Other Equipment Used: Stopwatch, cellphone	

Site: Sunbelt Crushing: Yes ☐ No ☒

Sample 1

Sample Location: East side property behind pond Sample Height (m): 1M

Latitude: N 30.487354 Longitude: W -87.28865

Start Test (CST): 10:04 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: INSTACOSAMPLE_032 # Data Points: 60

Average Sound Level (dB): 57.4 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 5 $PM_{2.5}$: 5 Respirable: 5 PM_{10}: 6 Total: 6

Meterological Data Source: KFLPENSACOLA WFHS

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:07	15.3	68	10	W
10:31	15.6	66	5	WNW
11:01	16.6	65	9	WNW

Sample 2

Sample Location: Hymix Rd. Sample Height (m): 1M

Latitude: N 30.487078 Longitude: W -87.289652

Start Test (CST): 11:11 Test Length: 10 MIN

Data Logged: Yes ☒ No ☐ Log Interval: 1 MIN

Initial File Name: 10MINMEAN-033 # Data Points: 10

Average Sound Level (dB): 57.9 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 7 $PM_{2.5}$: 7 Respirable: 7 PM_{10}: 9 Total: 10

Meterological Data Source: WFHS KFLPENSACOLA

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:13	16.7	59	4	NW

Sample 3

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length: ~~ATM~~

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Roads wetted, sprinklers on

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/17/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10/2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	3/17/22 9:50
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	3/17/22 9:50
Other Equipment Used:	Step ladder, cell phone		

Site: Sunbelt

Crushing: Yes ☒ No ☐

Sample Location: Wymart Rd

Sample Height (m): 1M

Latitude: N 30.488792 Longitude: W -87.284584

Start Test (CST): 12:59 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1142-60SAMPLE.052 # Data Points: 60

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: 65.5 B: 60.6 C: 55.4

Particulates in Air: (Average µm/m³) PM_1: 12 $PM_{2.5}$: 12 Respirable: 12 PM_{10}: 13 Total: 14

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:59	20.4	67	2.0	SSE
13:29	20.7	66	11.0	SW
13:59	21.1	69	4.0	S

Sample Location: Inside front gate corner

Sample Height (m): 1M

Latitude: N 30.486522 Longitude: W -87.288774

Start Test (CST): 14:11 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 63.0 # Data Points: 10

Average Sound Level (dB): 10MINMGAIN.053 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 12 $PM_{2.5}$: 12 Respirable: 12 PM_{10}: 13 Total: 14

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
14:17	21.2	68	10.0	SE

Sample Location:

Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Crusher broken during morning activity began again ~13:00
Sprinklers on, roads wetted

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 4/27/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10/2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	4/27/22 9:50
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	4/27/22 9:50
Other Equipment Used:	Step ladder, cell phone		

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: Wymore Rd Sample Height (m): 1m

Latitude: N 30.480908 Longitude: W -87.289701

Start Test (CST): 9:52 Test Length: 60 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 1MIN-60SAMPLE_014 # Data Points: 60

Average Sound Level (dB): 57.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 9 $PM_{2.5}$: 9 Respirable: 9 PM_{10}: 12 Total: 14

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
9:55	18.5	61	4.0	NNE
10:20	19.3	60	7.0	N
10:49	20.7	55	8.0	NNW

Sample Location: Inside front entrance Sample Height (m): 1M

Latitude: N 30.486479 Longitude: W -87.288837

Start Test (CST): 10:57 Test Length: 10 min

Data Logged: Yes ☒ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN-015 # Data Points: 10

Average Sound Level (dB): 55.2 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 7 $PM_{2.5}$: 8 Respirable: 8 PM_{10}: 11 Total: 14

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:02	21.1	57	9.0	NW

Sample Location: ALVM Sample Height (m):

Latitude: N Longitude: W

Start Test (CST): Test Length:

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6/6/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10/2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	6/6/22 13:10
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	6/6/22 13:10
Other Equipment Used:	Step ladder, cell phone		

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source:

Latitude: N 30.489283 Longitude: W -87.289592

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:13	Test Length: 60 min	13:18	29.8	75	SSE ↔	8.0
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	13:48	29.7	75	SSW ↔	10.0
Initial File Name: 1HR-COSAMPLE-018	# Data Points: 60	14:12	29.6	73	S ↔	14

Average Sound Level (dB): 48.8

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 12 $PM_{2.5}$: 12 Respirable: 12 PM_{10}: 13 Total: 13

Sample Location: Inside front gate

Sample Height (m): 1m

Meterological Data Source:

Latitude: N 30.486478 Longitude: W -87.288811

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 14:20	Test Length: 10 min	14:23	30.2	73	12	SSE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-019	# Data Points: 10					

Average Sound Level (dB): 58.3

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 8 $PM_{2.5}$: 9 Respirable: 9 PM_{10}: 11 Total: 11

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W DRM

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 7.26.22

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTrak DRX Model 8534	Factory Calibration Date:	10.2021
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time (CST):	7.26.22 ~~1030~~ 1025
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	7.26.22 ~~1030~~ 1025
Other Equipment Used:	Step ladder, cell phone		

Site: SUNBELT

Crushing: Yes ☐ No ☑

Sample Location: SE CORNER INSIDE FRONT GATE

Sample Height (m): 1

Meterological Data Source: KFLPENSA181

Latitude: N 30.4864541 Longitude: W 87.2887269

Start Test (CST): 1028	Test Length: 10 MIN	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Data Logged: Yes ☑ No ☐	Log Interval: 1 MIN	1031	29.4	82	5	SE
Initial File Name: 10 MIN MEAN ~~033~~ ~~032~~ 032	# Data Points: 10					
Average Sound Level (dB): 55.8	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:					

Particulates in Air: (Average µm/m³) PM₁: 15 PM₂.₅: 16 Respirable: 17 PM₁₀: 18 Total: 19

Sample Location: WYMART RD NW ~~CON~~ CORNER OF SUNBELT PROPERTY

Sample Height (m): 1

Meterological Data Source: KFLPENSA181

Latitude: N 30.4898977 Longitude: W 87.2895916

Start Test (CST): 1046	Test Length: 60 MIN	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Data Logged: Yes ☑ No ☐	Log Interval: 1 MIN	1049	29.3	81	3	SE
Initial File Name: 1HR-60SAMPLE_033	# Data Points: 60	1119	29.9	79	1	SE
Average Sound Level (dB): 51.6	When crushing - 3 x 2 min peak values at 5 ft (dB): A:	~~1149~~	~~30.0~~			
		1143	B: 30.8	73 C:	4	SE

Particulates in Air: (Average µm/m³) PM₁: 8 PM₂.₅: 9 Respirable: 9 PM₁₀: 10 Total: 11

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

Start Test (CST):	Test Length:	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					
Average Sound Level (dB):	When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:					

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Notes:

- RECENT HEAVY RAIN
- SPRINKLERS ON UPON ARRIVAL

Sampler(s) Signature(s):

7.26.2022

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/14/22

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRx Model 8534	Factory Calibration Date: 10/2021
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 9/14/22 8:50
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 9/14/22 8:50
Other Equipment Used: Stop lakeline, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☑

Sample Location: Wymart Rd South

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA55

Latitude: N 30.486793 Longitude: W -87.289625

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 8:58	Test Length: 60 min	8:57	21.8	72	7.0	NE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	9:27	23.4	69	1.0	NE
Initial File Name: 1HR-60SAMPLEout	# Data Points: 60	9:57	24.8	65	4.0	ENE

Average Sound Level (dB): 54.2

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 12 $PM_{2.5}$: 12 Respirable: 12 PM_{10}: 15 Total: 17

Sample Location: Wymart Rd North

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA55

Latitude: N 30.490499 Longitude: W -87.289421

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:09	Test Length: 10 min	10:11	24.9	62	3.0	NNE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-049	# Data Points: 60					

Average Sound Level (dB): 55.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 8 $PM_{2.5}$: 9 Respirable: 9 PM_{10}: 11 Total: 13

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 10/24/22

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTrak DRX model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 10/24/22 9:50
Sound Level Serial #: N503540	Sound Level Calibration Verified Date/Time (CST): 10/24/22 9:50
Other Equipment Used: Stop ladder, cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: Wymart Rd South

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.487086 Longitude: W -87.289699

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 9:51	Test Length: 60min	9:54	21.4	71	10	ESE
Data Logged: Yes ☒ No ☐	Log Interval: 1min	10:24	21.7	72	13	E
Initial File Name: 1AIR-60SAMPLE-007	# Data Points: 60	10:54	22.2	72	16	ESE

Average Sound Level (dB): 55.4 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 14 $PM_{2.5}$: 14 Respirable: 15 PM_{10}: 17 Total: 24

Sample Location: SW corner

Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA 85

Latitude: N 30.486417 Longitude: W -87.288757

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:59	Test Length: 10 min	11:06	22.2	73	7	SE
Data Logged: Yes ☒ No ☐	Log Interval: 1min					
Initial File Name: 10MINMEAN-008	# Data Points: 10					

Average Sound Level (dB): 54.6 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 14 $PM_{2.5}$: 15 Respirable: 15 PM_{10}: 20 Total: 39

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 12/15/22

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161607	Zero Point Verification Date/Time (CST): 12/15/22 10:10
Sound Level Serial #: NS075880	Sound Level Calibration Verified Date/Time (CST): 12/15/22 10:10
Other Equipment Used: Step ladder, cell phone	

Site: Sunbelt Crushing: Yes ☐ No ☑

Sample Location: SE corner by arborvitae	Sample Height (m): 1m	Meterological Data Source: KFLPENSA85				
Latitude: N 30.486361	Longitude: W -87.288810	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:25 (11:25)	Test Length: 60min	1128	13.8	64	9.0	WNW
Data Logged: Yes ☑ No ☐	Log Interval: 1min	1156	14.6	58	6.0	NNW
Initial File Name: TAMCO SAMPLE_017	# Data Points: 60	1226	14.8	55	6.0	NW
Average Sound Level (dB): 42.9	When crushing - 3 x 2 min peak values at 5 ft (dB): A:	B:		C:		
Particulates in Air: (Average µm/m³) PM₁: 4	PM₂.₅: 4	Respirable: 4		PM₁₀: 5	Total: 7	

Sample Location: Wymart Rd	Sample Height (m): 1m	Meterological Data Source: KFLPENSA85				
Latitude: N 30.488813	Longitude: W -87.289660	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 13:39 (12:39)	Test Length: 10min	1338	15.9	48	3.0	WNW
Data Logged: Yes ☑ No ☐	Log Interval: 1min					
Initial File Name: TAMCOWYMART_018	# Data Points: 10					
Average Sound Level (dB): 58.4	When crushing - 3 x 2 min peak values at 5 ft (dB): A:	B:		C:		
Particulates in Air: (Average µm/m³) PM₁: 4	PM₂.₅: 4	Respirable: 4		PM₁₀: 4	Total: 5	

Sample Location:	Sample Height (m):	Meterological Data Source:				
Latitude: N	Longitude: W	Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					
Average Sound Level (dB):	When crushing - 3 x 2 min peak values at 5 ft (dB): A:	B:		C:		
Particulates in Air: (Average µm/m³) PM₁:	PM₂.₅:	Respirable:		PM₁₀:	Total:	

Notes:

Time change test time is 1 hr ahead Sprinklers on roads noticed
Batteries in noise meter cut ... @ 12:35

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 1/25/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 1/25/23 11:25
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 1/25/23 11:25
Other Equipment Used: Step ladder, Cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☑

Sample Location: W Sicer property

Sample Height (m): 1m

Latitude: N 30.487263

Longitude: W -87.288864

Start Test (CST): 11:27

Test Length: 60min

Data Logged: Yes ☑ No ☐

Log Interval: 1min

Initial File Name: 1HR-60 SAMPLE-032

Data Points: 60

Average Sound Level (dB): 58.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 6 PM₂.₅: 6 Respirable: 6 PM₁₀: 6 Total: 8

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:30	15.1	79	7.0	WSW
12:00	15.2	79	9.0	WSW
12:30	15.5	77	7.0	W

Sample Location: Wymart W

Sample Height (m): 1m

Latitude: N 30.487579

Longitude: W -87.289647

Start Test (CST): 12:34

Test Length: 10 min

Data Logged: Yes ☑ No ☐

Log Interval: 1min

Initial File Name: 10M INMEAN0038

Data Points: 10

Average Sound Level (dB): 58.4

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: 6 PM₂.₅: 7 Respirable: 7 PM₁₀: 7 Total: 8

Meterological Data Source: WFHS KFLPENSA85

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:36	15.4	78	5.0	WSW

Sample Location:

Sample Height (m):

Latitude: N

Longitude: W

Start Test (CST):

Test Length:

Data Logged: Yes ☐ No ☐

Log Interval:

Initial File Name:

Data Points:

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM₁: PM₂.₅: Respirable: PM₁₀: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 3/16/23

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 3/16/23 9:30
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 3/16/23 9:30
Other Equipment Used: Step ladder, Cell phone	

Site: Sunbelt Crushing: Yes ☐ No ☒

Sample 1

Sample Location: Lynn Rd Sample Height (m): 1M

Latitude: N 30.484224 Longitude: W -87.284650

Meterological Data Source: WFHS ICFLPENSA85

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 11:04	Test Length: 60min	11:08	18.9	69	17	ESE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min	11:32	18.9	69	17	ESE
Initial File Name: THR=60SAMPLE 054	# Data Points: 60	12:02	18.9	70	14	E

Average Sound Level (dB): 52.4 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 20 $PM_{2.5}$: 21 Respirable: 4 PM_{10}: 24 Total: 30

Sample 2

Sample Location: Front corner entrance Sample Height (m): 1M

Latitude: N 30.486455 Longitude: W -87.288719

Meterological Data Source: WFHS ICFLPENSA85

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:09	Test Length: 10 min	12:14	18.7	71	12	SE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINWKEND-055	# Data Points: 10					

Average Sound Level (dB): 54.8 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 34 $PM_{2.5}$: 35 Respirable: 37 PM_{10}: 52 Total: 96

Sample 3

Sample Location: Sample Height (m):

Latitude: N Longitude: W

Meterological Data Source:

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Sprinklers on

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 4/20/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time (CST): 4/20/23 11:00
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 4/20/23 11:00
Other Equipment Used: Step ladder, Cell phone	

Site: Summit — Crushing: Yes ☐ No ☑

Sample Location: Wyman Rd — Sample Height (m): 1M

Latitude: N 30.494076 — Longitude: W -87.289595

Start Test (CST): 11:03 — Test Length: 60 min

Data Logged: Yes ☑ No ☐ — Log Interval: 1 MIN

Initial File Name: MR-LOGSAMPLE-007 — # Data Points: 60

Average Sound Level (dB): 57.5 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 14 $PM_{2.5}$: 15 Respirable: 16 PM_{10}: 18 Total: 23

Meterological Data Source: WFAS KFLPENSACS

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:06	23.8	75	19.0	SE
11:30	24.2	76	12.0	ESE
12:00	24.4	74	12.0	SE

Sample Location: SE From entrance corner — Sample Height (m): 1M

Latitude: N 30.486473 — Longitude: W -87.288679

Start Test (CST): 12:10 — Test Length: 10 min

Data Logged: Yes ☑ No ☐ — Log Interval: 1 MIN

Initial File Name: 10MINMEAN_008 — # Data Points: 10

Average Sound Level (dB): 57.7 — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: 16 $PM_{2.5}$: 17 Respirable: 18 PM_{10}: 24 Total: 40

Meterological Data Source: WFAS KFLPENSACS

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
12:12	24.5	74	12.0	SE

Sample Location: — Sample Height (m):

Latitude: N — Longitude: W

Start Test (CST): — Test Length:

Data Logged: Yes ☐ No ☐ — Log Interval:

Initial File Name: — # Data Points:

Average Sound Level (dB): — When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air (Average µm/m³): PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Meterological Data Source:

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Notes:

Sprinklers on

Sampler(s) Signature(s):

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 6/7/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 10/2022
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 6/7/23 10:45
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 6/7/23 10:45
Other Equipment Used: Step ladder, Cell phone	

Site: Sunbelt

Crushing: Yes ☑ No ☐

Sample Location: Wymer Rd N

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.489769 Longitude: W -87.289585

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:50	Test Length: 60 min	10:50	28.3	67	1.0	NW
Data Logged: Yes ☑ No ☐	Log Interval: 1 min	11:20	28.4	64	4.0	SSW
Initial File Name: 1HR-60 SAMPLE_0/9	# Data Points: 60	11:50	27.9	72	11.0	SE

Average Sound Level (dB): 53.8

When crushing - 3 x 2 min peak values at 5 ft (dB): A: 64.2 B: 50.7 C: 69.2

Particulates in Air: (Average µm/m³) PM_1: 11 $PM_{2.5}$: 12 Respirable: 12 PM_{10}: 13 Total: 16

Sample Location: Wymer Rd S

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.486911 Longitude: W -87.289630

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 12:02	Test Length: 10 min	12:08	27.5	74	12.0	ESE
Data Logged: Yes ☑ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN-020	# Data Points: 10					

Average Sound Level (dB): 59.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 12 $PM_{2.5}$: 12 Respirable: 13 PM_{10}: 15 Total: 21

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length: ARM					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Longleaf Bridge being replaced, active construction
Sprinklers on Actively crushing during sampling - crushing allowed
Rain after sampling

Sampler(s) Signature(s):

[signature] 11

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 9/20/23

Sample Type: Ambient Air ☒ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 8/2023
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 9/20/23 10:00
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 9/20/23 10:00
Other Equipment Used: Step ladder, Cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☒

Sample Location: E Property

Sample Height (m): 1m

Meterological Data Source: WFHS KFLPENSA 88

Latitude: N 30.487178 Longitude: W -87.288765

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:04	Test Length: 60 10 min	10:08	25.4	64	6.0	ENE
Data Logged: Yes ☒ No ☐	Log Interval: 1 min					
Initial File Name: 10MINMEAN 050	# Data Points: 60 10					

Average Sound Level (dB): 53.7

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 33 $PM_{2.5}$: 33 Respirable: 34 PM_{10}: 37 Total: 50

Sample Location: Wymart Rd

Sample Height (m): 1m

Meterological Data Source: KFLPENSA 85 WFHS

Latitude: N 30.487470 Longitude: W -87.289677

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:25	Test Length: 60 min	10:26	25.9	64	7.0	E
Data Logged: Yes ☐ No ☐	Log Interval: 1 min	10:56	26.8	61	14.0	E
Initial File Name: 1HRIGGSAMPLE 051	# Data Points: 60	11:20	26.9	64	7.0	E

Average Sound Level (dB): 57.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 35 $PM_{2.5}$: 35 Respirable: 36 PM_{10}: 44 Total: 72

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length:					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

ALM

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Longleaf Construction
~~very little wind~~ ALM

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 10/10/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #:	DustTRAK DRX Model 8534	Factory Calibration Date:	8/2023
Field Meter Serial #:	8534161603	Zero Point Verification Date/Time:	10/10/23 9:20
Sound Level Serial #:	N803580	Sound Level Calibration Verified Date/Time (CST):	10/10/23 9:20
Other Equipment Used:	Step ladder, Cell phone		

Site: Sunbelt

Crushing: Yes ☐ No ☑

Sample Location: Bottom pond + circle

Sample Height (m): 1M

Meterological Data Source: WFHS KELPENSASS

Latitude: N 30.487457 Longitude: W -87.288686

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 9:24	Test Length: 60min	9:24	21.8	73	5.0	WNW
Data Logged: Yes ☑ No ☐	Log Interval: 1min	9:54	22.4	72	3.0	WNW
Initial File Name: 1HR-COSAMPLE-003	# Data Points: 60	10:24	24.1	65	4.0	WSW

Average Sound Level (dB): 58.4

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 15 $PM_{2.5}$: 16 Respirable: 16 PM_{10}: 20 Total: 35

Sample Location: Wymont Rd

Sample Height (m): 1M

Meterological Data Source: KELPENSASS WFHS

Latitude: N 30.487197 Longitude: W -87.289649

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST): 10:48	Test Length: 10min	10:54	24.7	61	2.0	W
Data Logged: Yes ☑ No ☐	Log Interval: 1min					
Initial File Name: 10MINMEAN-004	# Data Points: 10					

Average Sound Level (dB): 58.5

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 11 $PM_{2.5}$: 11 Respirable: 12 PM_{10}: 16 Total: 47

Sample Location:

Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

		Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
Start Test (CST):	Test Length: Aem					
Data Logged: Yes ☐ No ☐	Log Interval:					
Initial File Name:	# Data Points:					

Average Sound Level (dB):

When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Roads wetted, sprinklers on, longleaf construction

Sampler(s) Signature(s):

[signature]

Date Modified: 5/10/2018

Escambia County Natural Resources Management Department
Water Quality & Land Management Division

Field Report Form: Particulate Matter in Air

Date: 11/29/23

Sample Type: Ambient Air ☑ Indoor Air ☐ Other:

Equipment:

Field Meter Model #: DustTRAK DRX Model 8534	Factory Calibration Date: 8/2023
Field Meter Serial #: 8534161603	Zero Point Verification Date/Time: 11/29/23 10:25
Sound Level Serial #: N803580	Sound Level Calibration Verified Date/Time (CST): 11/29/23 10:25
Other Equipment Used: Step ladder, Cell phone	

Site: Sunbelt

Crushing: Yes ☐ No ☑

Sample Location: [illegible] Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.487431 Longitude: W -87.289764

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
10:26	10.9	49	5.0	NE
10:56	11.6	49	3.0	N
11:26	12.7	45	2.0	ESE

Start Test (CST): 11:27 (10:27) Test Length: 60 min

Data Logged: Yes ☑ No ☐ Log Interval: 1 min

Initial File Name: 1HR-60SAMPLE_012 # Data Points: 60

Average Sound Level (dB): 55.7 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 8 $PM_{2.5}$: 8 Respirable: 8 PM_{10}: 10 Total: 18

Sample Location: [illegible] pond + creek Sample Height (m): 1M

Meterological Data Source: WFHS KFLPENSA85

Latitude: N 30.487187 Longitude: W -87.288808

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)
11:32	13.2	45	5.0	NW

Start Test (CST): 12:31 (11:31) Test Length: 10 min

Data Logged: Yes ☑ No ☐ Log Interval: 1 min

Initial File Name: 10MINMEAN_013 # Data Points: 10

Average Sound Level (dB): 52.6 When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: 9 $PM_{2.5}$: 9 Respirable: 9 PM_{10}: 11 Total: 19

Sample Location: Sample Height (m):

Meterological Data Source:

Latitude: N Longitude: W

Time (CST)	Temperature (°C)	Relative Humidity (%)	Wind Speed (mph)	Wind Direction Wind (°)

Start Test (CST): Test Length: NA

Data Logged: Yes ☐ No ☐ Log Interval:

Initial File Name: # Data Points:

Average Sound Level (dB): When crushing - 3 x 2 min peak values at 5 ft (dB): A: B: C:

Particulates in Air: (Average µm/m³) PM_1: $PM_{2.5}$: Respirable: PM_{10}: Total:

Notes:

Construction equipment corner of Wymart + Longleaf
[illegible] data points
Time [illegible] - dustTRAK [illegible]

Sampler(s) Signature(s):

[signature]

Appendix 5

Particulate Monitoring

Equipment Calibration Records

500 Cardigan Road
Shoreview, MN 55126
USA
EIN 41-0843524

Tel:(800)680-1220
Fax:(651)490-3824
Web:www.TSI.com
Email:answers@TSI.com

10/31/2018
07:27:43

Delivery Note

Shipping Address
Escambia County
3363 West Park Place
Pensacola, FL 32505-5250
USA

Contact Information
Matthew Kelly
Tel: 8505951871 **Fax:**

Sold To Address
ESCAMBIA COUNTY
CLERK OF THE COURT & COMPTROLLER
221 PALAFOX PL STE 140
PENSACOLA, FL 32502-5833
USA

Information

Document Number	80915829
Document Date	10/31/2018
Purchase Order No.	CC-MATTHEW KELLY
Purchase Order Date	10/26/2018
Sales Order Number	755336
Sales Order Date	10/26/2018
Customer Number	5290824
Shipping Conditions	Standard
Incoterms	2010 CPT: Prepay & Add Consignee's Premises
BOL/Tracking #	
Ship Via	UPS Ground

Item	Material/Description	Quantity	St Loc	Bin
Purchase Order No.				
1	8534	1 EA	0060	
	DustTrak DRX Handheld			
	***** Contains Lithium Batteries *****			
	Serial numbers: (8534161603) RMA: 800545759			

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For RMA 800545759

Date Received: 23 Oct 2018

Date Completed: 31 Oct 2018

Customer: 5021773

ESCAMBIA COUNTY
CLERK OF THE COURT & COMPTROLLER
221 PALAFOX PL STE 140
PENSACOLA FL 32502-5833
USA

Shipping Address: 5290824

Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Customer PO: CC-MATTHEW KELLY
Model Number: 8534 DustTrak DRX Handheld
Serial Number: 8534161603

Customer Return Reason:
ANNUAL CALIBRATION

Findings:
Unit sent in for clean and calibration. The unit failed as found. Optic block was dirty.

Actions:
The unit was cleaned, calibrated, and a complete operational checkout was performed.

Thank you for the opportunity to service your instrument.

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

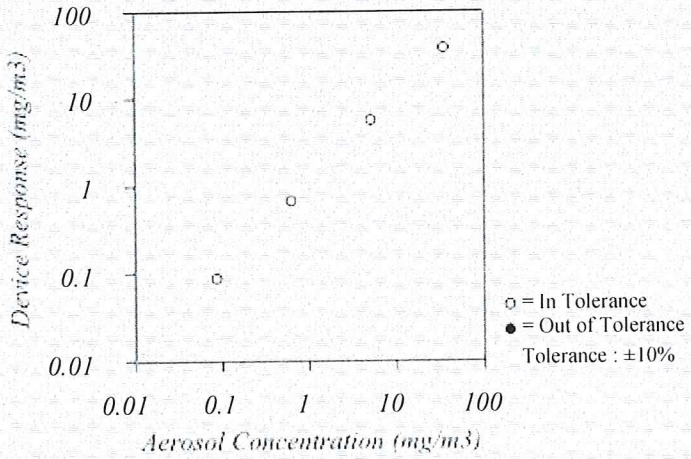
Environment Conditions		
Temperature	73.40 (23.0)	°F (°C)
Relative Humidity	26.7	%RH
Barometric Pressure	28.95 (980.4)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☒ As Left ☐ As Found

☒ In Tolerance ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.0	3.0	2.85 ~ 3.15	Pressure kPa	98.1	98.1	93.17 ~ 102.97

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due
Temp/Humidity	E005657	02-28-18	02-28-19
DC Voltage	E003314	05-02-18	05-31-19
Photometer	E003319	07-31-18	01-31-19
1 um PSL	698880	n/a	n/a
10 um PSL	198441	n/a	n/a
Flowmeter	E004025	06-06-18	06-30-19

Measurement Variable	System ID	Last Cal.	Cal. Due
Temp/Humidity	E005656	03-01-18	03-31-19
DC Voltage	E003315	05-17-18	05-31-19
Microbalance	M001324	10-03-18	10-31-20
3 um PSL	180387	n/a	n/a
Pressure	E003511	10-29-18	10-31-19

Calibrated

October 30, 2018
Date

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

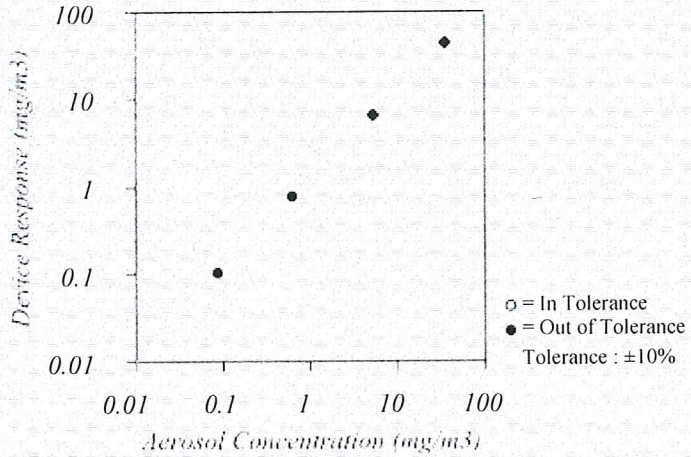
Environment Conditions		
Temperature	73.15 (22.9)	°F (°C)
Relative Humidity	27.7	%RH
Barometric Pressure	28.84 (976.6)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☐ As Left ☒ As Found

☐ In Tolerance ☒ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.0	3.0	2.85 ~ 3.15	Pressure kPa	97.7	97.7	92.82 ~ 102.59

Pump run time: 75 Hours, Pump voltage: 571 Bits

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due
Temp/Humidity	E005657	02-28-18	02-28-19
DC Voltage	E003314	05-02-18	05-31-19
Photometer	E003319	07-31-18	01-31-19
1 um PSL	698880	n/a	n/a
10 um PSL	198441	n/a	n/a
Flowmeter	E004025	06-06-18	06-30-19

Measurement Variable	System ID	Last Cal.	Cal. Due
Temp/Humidity	E005656	03-01-18	03-31-19
DC Voltage	E003315	05-17-18	05-31-19
Microbalance	M001324	10-03-18	10-31-20
3 um PSL	180387	n/a	n/a
Pressure	E003511	10-29-18	10-31-19

Verified

October 30, 2018
Date

500 Cardigan Road
Shoreview, MN 55126
USA
EIN 41-0843524

Tel:(800)680-1220
Fax:(651)490-3824
Web:www.TSI.com
Email:answers@TSI.com

Delivery Note

Shipping Address
Escambia County
3363 West Park Place
Pensacola, FL 32505-5250
USA

Contact Information
Matthew Kelly
Tel: 850-595-1871 **Fax:**

Sold To Address
ESCAMBIA COUNTY
CLERK OF THE COURT & COMPTROLLER
221 PALAFOX PL STE 140
PENSACOLA, FL 32502-5833
USA

Information

Document Number	81010568
Document Date	10/23/2019
Purchase Order No.	CC-Matthew Kelly
Purchase Order Date	10/17/2019
Sales Order Number	826644
Sales Order Date	10/17/2019
Customer Number	5290824
Shipping Conditions	Standard
Incoterms	2010 CPT: Prepay & Add Consignee's Premises
BOL/Tracking #	
Ship Via	UPS Ground

Item	Material/Description	Quantity	St Loc	Bin
Purchase Order No.				
1	8534	1 EA	0060	
	DustTrak DRX Handheld			
	***** Contains Lithium Batteries *****			
	Serial numbers: (8534161603) RMA: 300224544			

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report For RMA 300224544

Date Received: 07 Oct 2019

Date Completed: 23 Oct 2019

Customer: 5021773

ESCAMBIA COUNTY
CLERK OF THE COURT & COMPTROLLER
221 PALAFOX PL STE 140
PENSACOLA FL 32502-5833
USA

Shipping Address: 5290824

Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Customer PO: CC-Matthew Kelly
Model Number: 8534 DustTrak DRX Handheld
Serial Number: 8534161603

Customer Return Reason:
Calibrate

Findings:
Unit sent in for clean and calibration. The unit failed as found. The spherical mirror is cracked.

Actions:
The spherical mirror was replaced. The firmware was updated to the latest version. The unit was cleaned, calibrated and a complete operational checkout was performed.

Thank you for the opportunity to service your instrument.

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

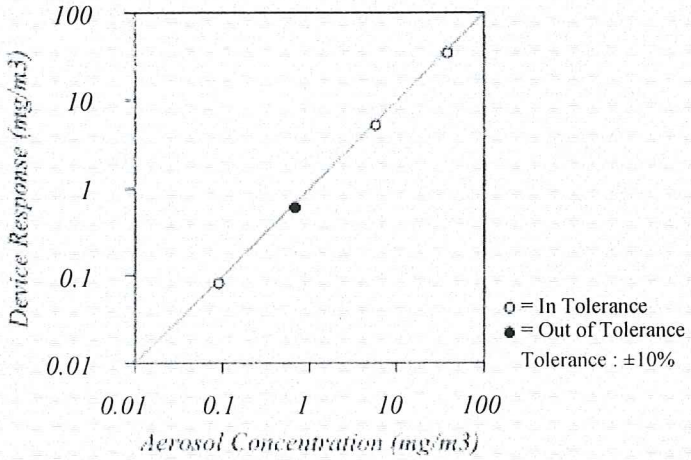
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	74.53 (23.6)	°F (°C)
Relative Humidity	41.0	%RH
Barometric Pressure	28.18 (954.3)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☐ As Left ☐ In Tolerance
☒ As Found ☒ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	2.96	2.85 ~ 3.15	Pressure kPa	95.4	95.4	90.65 ~ 100.19
Full Flow lpm	N/A	5.13	>3.80				

Pump run time: 142 Hours, Pump voltage: 570 Bits

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	02-25-19	02-29-20
Photometer	E005612	08-29-19	02-29-20
1 um PSL	698880	n/a	n/a
10 um PSL	212455	n/a	n/a
Flowmeter	E003769	04-03-19	04-30-20

Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003315	02-25-19	02-29-20
Microbalance	M001324	10-03-18	10-31-20
3 um PSL	180387	n/a	n/a
Pressure	E003511	10-04-19	10-31-20

Verified

October 21, 2019
Date

CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

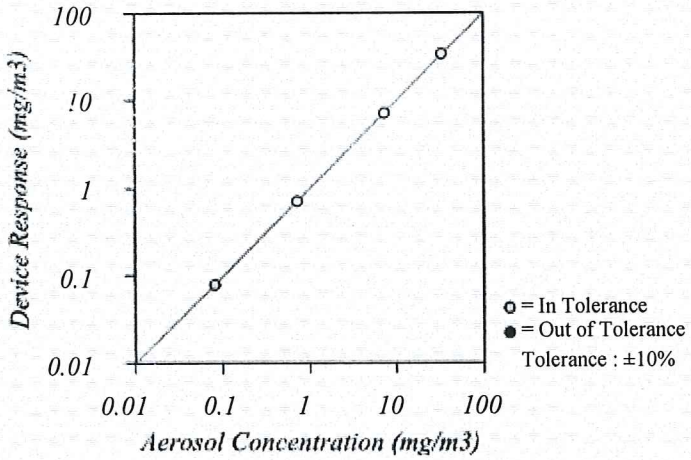
Environment Conditions		
Temperature	73.7 (23.2)	°F (°C)
Relative Humidity	27	%RH
Barometric Pressure	28.68 (971.2)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☒ As Left ☐ As Found

☒ In Tolerance ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-01

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-01**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.07	2.91 ~ 3.09	Pressure kPa	97.1	97.1	92.21 ~ 101.92
Full Flow lpm	N/A	5.06	>3.80				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003433	09-17-19	03-31-20	Flowmeter	E004570	06-13-19	06-30-20
DC Voltage(Keithley)	E002859	08-15-19	08-31-20	Microbalance	M001324	10-03-18	10-31-20
Pressure	E005651	07-18-19	07-31-20	1 um PSL	698880	n/a	n/a
3 um PSL	206030	n/a	n/a	10 um PSL	212455	n/a	n/a

Calibrated

October 22, 2019
Date

TSI P/N 2300157

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For Request 300293759

Date Received: 14 Sep 2020

Date Completed: 23 Sep 2020

Sold-To Customer: 5290824
Matthew Kelly
Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Ship-To Customer: 5290824
Matthew Kelly
Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Customer PO: CC-Matthew T Kelly
Service Performed: CL-8534 Clean and Calibrate Model 8534
Model Serviced: 8534 DustTrak DRX Handheld
Serial Number: 8534161603

CUSTOMER RETURN REASON:
Annual Calibration

CUSTOMER RETURN REASON CONFIRMED: YES

AS FOUND RESULT: FAIL

FINDINGS:
Optics block is contaminated

RESOLUTION:
The following action items were taken to ensure proper operation:
The unit was cleaned, calibrated and a complete operational checkout was performed.

TSI STANDARD TASKS PERFORMED:
Through our quality policy we ensure that the best services are available to our customers. Below is a checklist of standard tasks that are performed on your instrument:

- ☒ Multipoint "verification" of instrument measurements
- ☒ Clean nozzle, mirrors, & optics block
- ☒ Replace tubing & filters
- ☒ Align laser diode
- ☒ End-to-end leak check
- ☒ Adjust pump flows to original equipment design
- ☒ Update instrument firmware & software (if applicable)
- ☒ Clean filter cap, cassette, & beam dump
- ☒ Replace and/or regrease o-rings
- ☒ Perform function check on rechargeable battery
- ☒ Test against NIST traceable standards
- ☒ As-Left calibration with NIST/UKAS traceable calibration, including performance evaluation against proprietary TSI calibration bench

LIST OF ACCESSORIES SENT IN WITH INSTRUMENT:
Carrying Case

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

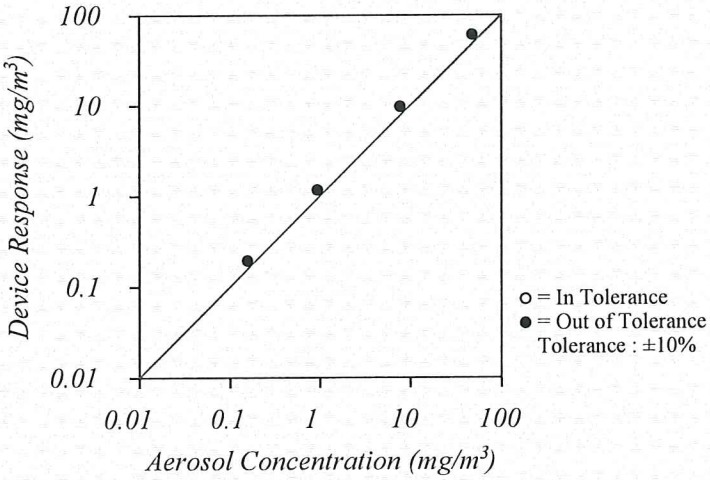
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	73.9 (23.3)	°F (°C)
Relative Humidity	47	%RH
Barometric Pressure	29.02 (982.7)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☐ As Left ☐ In Tolerance
☒ As Found ☒ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	2.97	2.85 ~ 3.15	Pressure kPa	98.3	98.1	93.38 ~ 103.21
Full Flow lpm	N/A	5.14	>3.80				

Pump run time: 194 Hours, Pump voltage: 558 Bits

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Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	01-15-20	01-31-21
Microbalance	M001324	10-03-18	10-31-20
3 um PSL	221853	n/a	n/a
Pressure	E003511	10-04-19	10-31-20
DC Voltage	E003315	01-15-20	01-31-21

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E005612	08-19-20	02-28-21
1 um PSL	698880	n/a	n/a
10 um PSL	212455	n/a	n/a
Flowmeter	E005140	01-09-20	01-31-21

Maynhia Vang

Verified

September 22, 2020

Date

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

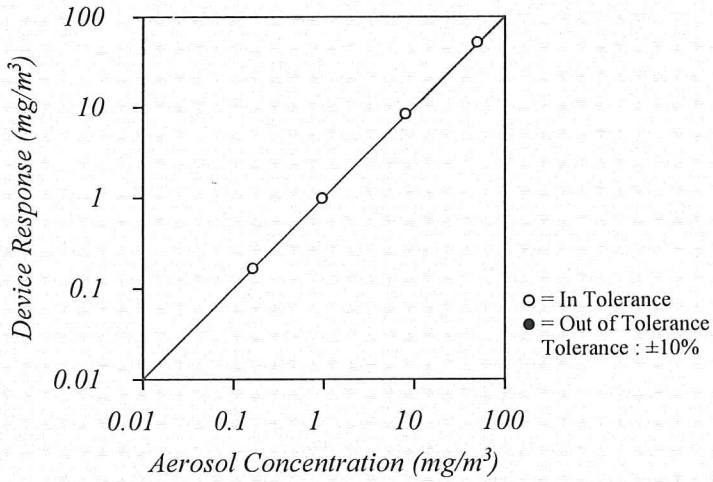
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	75.64 (24.2)	°F (°C)
Relative Humidity	46.6	%RH
Barometric Pressure	29.02 (982.7)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☒ As Left ☐ As Found ☒ In Tolerance ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.06	2.88 ~ 3.12	Pressure kPa	98.3	98.3	93.40 ~ 103.23
Full Flow lpm	N/A	4.97	>3.80				

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Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	01-15-20	01-31-21	Photometer	E005612	08-19-20	02-28-21
Microbalance	M001324	10-03-18	10-31-20	1 um PSL	698880	n/a	n/a
3 um PSL	221853	n/a	n/a	10 um PSL	212455	n/a	n/a
Pressure	E003511	10-04-19	10-31-20	Flowmeter	E005140	01-09-20	01-31-21
DC Voltage	E003315	01-15-20	01-31-21				

Amy VanSomman

Calibrated

September 22, 2020

Date

500 Cardigan Road
Shoreview, MN 55126
USA
EIN 41-0843524

Tel:(800)680-1220
Fax:(651)490-3824
Web:www.TSI.com
Email:answers@TSI.com

RG Delivery Note

Shipping Address

Escambia County
3363 West Park Place
Pensacola, FL 32505-5250
USA

Contact Information

Matthew Kelly
Tel: 850-595-1871 **Fax:**

Sold To Address

Escambia County
3363 West Park Place
Pensacola, FL 32505-5250
USA

Information

Document Number	81095728
Document Date	09/23/2020
Purchase Order No.	CC-Matthew T Kelly
Purchase Order Date	09/21/2020
Sales Order Number	894289
Sales Order Date	09/21/2020
Customer Number	5290824
Shipping Conditions	Standard
Incoterms	2010 CPT: Prepay & Add Consignee's Premises
BOL/Tracking #	
Ship Via	UPS Ground

Item	Material/Description	Quantity	St Loc	Bin
Purchase Order No.				
1	8534 **DustTrak DRX Handheld** ***** Contains Lithium Batteries ***** Serial numbers: (8534161603) RMA: 300293759	1 EA	0060	

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For Request 300293759

TSI QUALITY COMMITMENT

TSI VISION
Creating a better world by helping protect people, products and the environment, and by optimizing research and industrial processes.

TSI MISSION
TSI provides trusted measurement, application guidance, and data analytics solutions that enable our customers to make informed decisions.

OUR QUALITY POLICY
The employees of TSI are committed to meet and, where possible, exceed our customer's requirements for application guidance, precision measurement solutions and data management through the continual improvement of our products and processess.

Thank you for the opportunity to service your instrument.

500 Cardigan Road
Shoreview, MN 55126
USA
EIN 41-0843524

Tel:(800)680-1220
Fax:(651)490-3824
Web:www.TSI.com
Email:answers@TSI.com

RG Delivery Note

Shipping Address

Escambia County
3363 West Park Place
Pensacola, FL 32505-5250
USA

Contact Information

Matthew Kelly
Tel: 850-595-1871 **Fax:**

Sold To Address

Escambia County
3363 West Park Place
Pensacola, FL 32505-5250
USA

Information

Document Number	81199082
Document Date	10/06/2021
Purchase Order No.	CC-Matthew Kelly
Purchase Order Date	09/27/2021
Sales Order Number	970579
Sales Order Date	09/27/2021
Customer Number	5290824
Shipping Conditions	Standard
Incoterms	2010 CPT: Prepay & Add Consignee's Premises
BOL/Tracking #	
Ship Via	FedEx Ground

Item	Material/Description	Quantity	St Loc	Bin
Purchase Order No.				
1	8534	1 EA	0060	
	DustTrak DRX Handheld			
	***** Contains Lithium Ion Batteries, Packed with Equipment *****			
	Serial numbers: (8534161603) RMA: 300370426			

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500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For Request 300370426

Date Received: 10 Sep 2021

Date Completed: 06 Oct 2021

Sold-To Customer: 5290824
Matthew Kelly
Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Ship-To Customer: 5290824
Matthew Kelly
Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Customer PO: CC-Matthew Kelly
Service Performed: RP-8534 REPAIR and Calibrate Model 8534
Model Serviced: 8534 DustTrak DRX Handheld
Serial Number: 8534161603

CUSTOMER RETURN REASON:
Calibrate

CUSTOMER RETURN REASON CONFIRMED: YES

AS FOUND RESULT: FAIL

FINDINGS:
Main board is defective
Firmware is outdated
Optics block is contaminated

RESOLUTION:
The following action items were taken to ensure proper operation:
Main board was replaced

TSI STANDARD TASKS PERFORMED:
Through our quality policy we ensure that the best services are available to our customers. Below is a checklist of standard tasks that are performed on your instrument:

- ☒ Multipoint "verification" of instrument measurements
- ☒ Clean nozzle, mirrors, & optics block
- ☒ Replace tubing & filters
- ☒ Align laser diode
- ☒ Adjust pump flows to original equipment design
- ☒ Update instrument firmware & software (if applicable)
- ☒ End-to-end leak check
- ☒ Clean filter cap, cassette, & beam dump
- ☒ Replace and/or re-grease o-rings
- ☒ Perform function check on rechargeable battery
- ☒ Test against NIST traceable standards
- ☒ As-Left calibration with NIST/UKAS traceable calibration, including performance evaluation against proprietary TSI calibration bench

LIST OF ACCESSORIES SENT IN WITH INSTRUMENT:
Carrying Case

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For Request 300370426

TSI QUALITY COMMITMENT

TSI VISION
Creating a better world by helping protect people, products and the environment, and by optimizing research and industrial processes.

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Thank you for the opportunity to service your instrument.

CERTIFICATE OF CALIBRATION AND TESTING

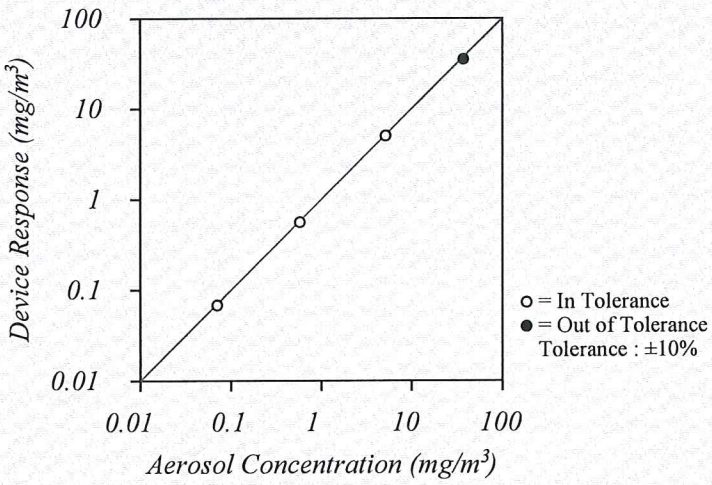
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	76.57 (24.8)	°F (°C)
Relative Humidity	46.2	%RH
Barometric Pressure	29.14 (986.8)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☐ As Left ☐ In Tolerance
☒ As Found ☒ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.06	2.85 ~ 3.15	Pressure kPa	98.6	98.5	93.69 ~ 103.56
Full Flow lpm	N/A	5.31	>3.80				

Pump run time: 262 Hours, Pump voltage: 563 Bits

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Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	01-11-21	01-31-22
Microbalance	M001324	01-29-21	01-31-23
3 um PSL	221853	n/a	n/a
Pressure	E003511	10-26-20	10-31-21
DC Voltage	E003315	01-11-21	01-31-22

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003319	08-30-21	02-28-22
1 um PSL	698880	n/a	n/a
10 um PSL	234230	n/a	n/a
Flowmeter	E005626	03-09-21	03-31-22

Amy yanxonminak

Verified

October 1, 2021

Date

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

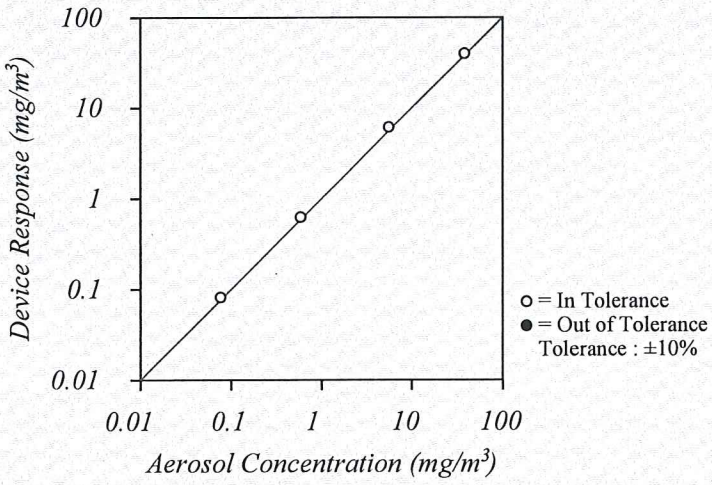
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	76.99 (25.0)	°F (°C)
Relative Humidity	47.0	%RH
Barometric Pressure	29.14 (986.8)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☒ As Left ☒ In Tolerance
☐ As Found ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.11	2.88 ~ 3.12	Pressure kPa	98.6	98.6	93.69 ~ 103.56
Full Flow lpm	N/A	5.29	>3.80				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	01-11-21	01-31-22
Microbalance	M001324	01-29-21	01-31-23
3 um PSL	221853	n/a	n/a
Pressure	E003511	10-26-20	10-31-21
DC Voltage	E003315	01-11-21	01-31-22

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003319	08-30-21	02-28-22
1 um PSL	698880	n/a	n/a
10 um PSL	234230	n/a	n/a
Flowmeter	E005626	03-09-21	03-31-22

Amy yanxonminak

Calibrated

October 1, 2021

Date

TSI P/N 2300157

TSI Incorporated
500 Cardigan Road
Shoreview MN 55126
U.S.A.

Tel: *+1-800-680-1220*
Web: *www.tsi.com*
Email: *answers@tsi.com*

09/20/2022
18:33:05

Service Request Submission

* PLEASE INCLUDE THIS COPY OF THE SERVICE REQUEST PRINTOUT WITH YOUR INSTRUMENT ON THE INSIDE OF THE SHIPPING PACKAGE. *

Service Request # 300454043

Estimated Total 895.00 USD

Typical turnaround for this service is 5 business days once the unit arrives at TSI. If you chose FastTrak™ service your turn around will be shorter.

Customer Number: 5021773

Bill To Information

Attn:	Susan Holt
Org:	ESCAMBIA COUNTY
Addr 1:	221 PALAFOX PL STE 140
Addr 2:	
Addr 3:	
City:	PENSACOLA
Region:	FL
Zip:	32502-5833
Country:	USA
Phone:	850-595-4579
Fax:	
Email:	srholt@myescambia.com

Ship To Information

Attn:	Amber McCarver
Org:	ESCAMBIA COUNTY
Addr 1:	3363 West Park Place
Addr 2:	
Addr 3:	
City:	Pensacola
Region:	FL
Zip:	32505
Country:	USA
Phone:	8505953449
Fax:	
Email:	armccarver@myescambia.com

Method of Payment

Type: Credit Card
PO#: CC-Amber McCarver
CC#: VISA 1131

Shipping Information

Via: 06-FedEx Std Overnight
Type: Add to Invoice
Acct:

Product Information - Item # 1

Service Request - 300454043

Service Type: CL-8534 Clean and Calibrate Model 8534
Serial Number: 8534161603 Material: 8534 Equipment: 1283941
Quote Price: 895.00 USD FastTrak: NO (0.00) Repair Pre Authorization: NO

Reason for Return
Calibrate

*** PLEASE RETURN THIS PAGE WITH YOUR INSTRUMENT AND SEND TO THE ADDRESS BELOW ***

TSI Incorporated
500 Cardigan Road
Shoreview MN 55126
U.S.A.

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For Request 300454043

Date Received: 20 Sep 2022

Date Completed: 04 Oct 2022

Sold-To Customer: 5021773
Susan Holt
ESCAMBIA COUNTY
CLERK OF THE COURT & COMPTROLLER
221 PALAFOX PL STE 140
PENSACOLA FL 32502-5833
USA

Ship-To Customer: 5290824
Amber Mccarver
Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Customer PO: CC-Amber McCarver
Service Performed: CL-8534 Clean and Calibrate Model 8534
Model Serviced: 8534 DustTrak DRX Handheld
Serial Number: 8534161603

CUSTOMER RETURN REASON:
Calibrate

CUSTOMER RETURN REASON CONFIRMED: YES

AS FOUND RESULT: PASS

FINDINGS:
No findings observed.

RESOLUTION:
The following action items were taken to ensure proper operation:
The unit was cleaned, calibrated and a complete operational checkout was performed.

TSI STANDARD TASKS PERFORMED:
Through our quality policy we ensure that the best services are available to our customers. Below is a checklist of standard tasks that are performed on your instrument:

- Multipoint "verification" of instrument measurements
- Clean nozzle, mirrors, & optics block
- Replace tubing & filters
- Align laser diode
- Adjust pump flows to original equipment design
- Update instrument firmware & software (if applicable)
- End-to-end leak check
- Clean filter cap, cassette, & beam dump
- Replace and/or re-grease o-rings
- Perform function check on rechargeable battery
- Test against NIST traceable standards
- As-Left calibration with NIST/UKAS traceable calibration, including performance evaluation against proprietary TSI calibration bench

LIST OF ACCESSORIES SENT IN WITH INSTRUMENT:
Carrying Case

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For Request 300454043

TSI QUALITY COMMITMENT

TSI VISION
Creating a better world by helping protect people, products and the environment, and by optimizing research and industrial processes.

TSI MISSION
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Thank you for the opportunity to service your instrument.

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

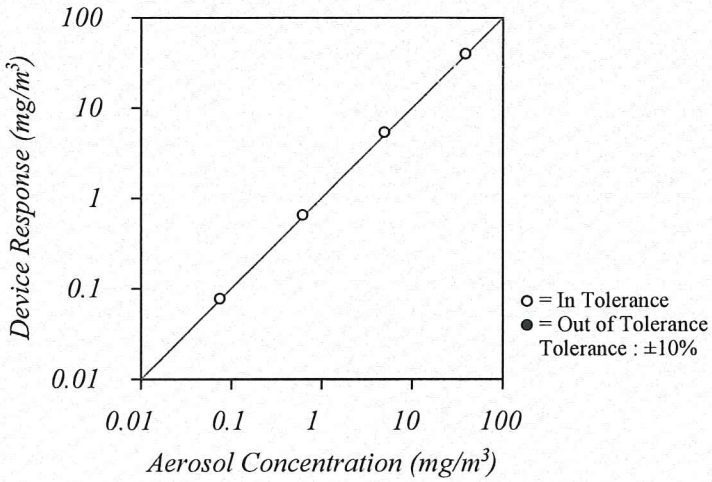
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	74.1 (23.4)	°F (°C)
Relative Humidity	39	%RH
Barometric Pressure	29.16 (987.5)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☒ As Left ☒ In Tolerance
☐ As Found ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION

SYSTEM DTII01-02

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.06	2.88 ~ 3.12	Pressure kPa	98.8	98.8	93.82 ~ 103.70
Full Flow lpm	N/A	5.21	>3.80				

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Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	01-11-22	01-31-23
Microbalance	M001324	01-29-21	01-31-23
3 um PSL	221853	n/a	n/a
Pressure	E003511	10-26-21	10-31-22
DC Voltage	E003315	01-11-22	01-31-23

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003319	08-30-22	02-28-23
1 um PSL	698880	n/a	n/a
10 um PSL	234230	n/a	n/a
Flowmeter	E004025	06-24-22	06-30-23

Calibrated

October 4, 2022
Date

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

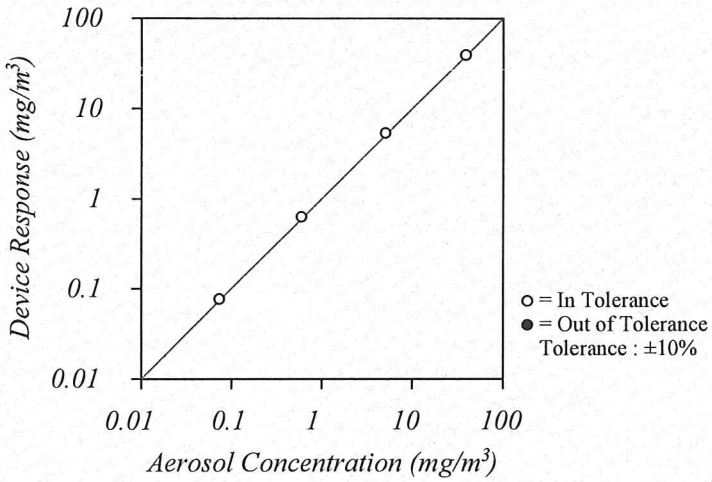
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	75.41 (24.1)	°F (°C)
Relative Humidity	42.8	%RH
Barometric Pressure	29.21 (989.2)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☐ As Left ☒ In Tolerance
☒ As Found ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-02**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	2.93	2.85 ~ 3.15	Pressure kPa	98.9	98.8	93.91 ~ 103.80
Full Flow lpm	N/A	5.22	>3.80				

Pump run time: 322 Hours, Pump voltage: 561 Bits

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E003314	01-11-22	01-31-23
Microbalance	M001324	01-29-21	01-31-23
3 um PSL	221853	n/a	n/a
Pressure	E003511	10-26-21	10-31-22
DC Voltage	E003315	01-11-22	01-31-23

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003319	08-30-22	02-28-23
1 um PSL	698880	n/a	n/a
10 um PSL	234230	n/a	n/a
Flowmeter	E004025	06-24-22	06-30-23

Certificat

Verified

October 4, 2022

Date

TSI Incorporated
500 Cardigan Road
Shoreview MN 55126
U.S.A.

Tel: *+1-800-680-1220*
Web: *www.tsi.com*
Email: *answers@tsi.com*

08/07/2023
13:02:14

Service Request Submission

* PLEASE INCLUDE THIS COPY OF THE SERVICE REQUEST PRINTOUT WITH YOUR INSTRUMENT ON THE INSIDE OF THE SHIPPING PACKAGE. *

Service Request # 300530495

Estimated Total 1,145.00 USD

Typical turnaround for this service is 10 business days once the unit arrives at TSI. If you chose FastTrak™ service your turn around will be shorter.

Customer Number: 5021773

Bill To Information

Attn:	Susan Holt
Org:	ESCAMBIA COUNTY
Addr 1:	221 PALAFOX PL STE 140
Addr 2:	
Addr 3:	
City:	PENSACOLA
Region:	FL
Zip:	32502-5833
Country:	USA
Phone:	850-595-4579
Fax:	
Email:	srholt@myescambia.com

Ship To Information

Attn:	Amber McCarver
Org:	ESCAMBIA COUNTY
Addr 1:	3363 West Park Place
Addr 2:	
Addr 3:	
City:	Pensacola
Region:	FL
Zip:	32505
Country:	USA
Phone:	8505951873
Fax:	
Email:	armccarver@myescambia.com

Method of Payment

Type: Credit Card
PO#: CC-Amber McCarver
CC#: VISA 1131

Shipping Information

Via: 06-FedEx Std Overnight
Type: Add to Invoice
Acct:

Product Information - Item # 1

Service Request - 300530495

Service Type: RP-8534 Repair and Calibration Model 8534
Serial Number: 8534161603 Material: 8534 Equipment: 1283941
Quote Price: 1145.00 USD FastTrak: NO (0.00) Repair Pre Authorization: NO

Reason for Return
Gives an error when running a zero cal.

*** PLEASE RETURN THIS PAGE WITH YOUR INSTRUMENT AND SEND TO THE ADDRESS BELOW ***

TSI Incorporated
500 Cardigan Road
Shoreview MN 55126
U.S.A.

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report For Request 300530495

Date Received: 15 Aug 2023

Date Completed: 16 Aug 2023

Sold-To Customer: 5021773
Susan Holt
ESCAMBIA COUNTY
CLERK OF THE COURT & COMPTROLLER
221 PALAFOX PL STE 140
PENSACOLA FL 32502-5833
USA

Ship-To Customer: 5290824
Amber Mccarver
Escambia County
3363 West Park Place
Pensacola FL 32505-5250
USA

Customer PO: CC-Amber McCarver
Service Performed: RP-8534 Repair and Calibration Model 8534
Model Serviced: 8534 DustTrak DRX Handheld
Serial Number: 8534161603

CUSTOMER RETURN REASON:
Gives an error when running a zero cal.

CUSTOMER RETURN REASON CONFIRMED: YES

AS FOUND RESULT: FAIL

FINDINGS:
No findings observed.

RESOLUTION:
The following action items were taken to ensure proper operation:
The unit was cleaned, calibrated and a complete operational checkout was performed.

TSI STANDARD TASKS PERFORMED:
Through our quality policy we ensure that the best services are available to our customers. Below is a checklist of standard tasks that are performed on your instrument:

- *Multipoint* "verification" of instrument measurements
- Clean nozzle, mirrors, & optics block
- Replace tubing & filters
- Align laser diode
- Adjust pump flows to original equipment design
- Update instrument firmware & software (if applicable)
- End-to-end leak check
- Clean filter cap, cassette, & beam dump
- Replace and/or re-grease o-rings
- Perform function check on rechargeable battery
- Test against NIST traceable standards
- As-Left calibration with NIST/UKAS traceable calibration, including performance evaluation against proprietary TSI calibration bench

LIST OF ACCESSORIES SENT IN WITH INSTRUMENT:
Carrying Case

500 Cardigan Road
Shoreview, MN 55126-3996
USA
EIN 41-0843524

Service Report
For Request 300530495

TSI QUALITY COMMITMENT

TSI VISION
Creating a better world by helping protect people, products and the environment, and by optimizing research and industrial processes.

TSI MISSION
TSI provides trusted measurement, application guidance, and data analytics solutions that enable our customers to make informed decisions.

OUR QUALITY POLICY
The employees of TSI are committed to meet and, where possible, exceed our customer's requirements for application guidance, precision measurement solutions and data management through the continual improvement of our products and processess.

Thank you for the opportunity to service your instrument.

CERTIFICATE OF CALIBRATION AND TESTING

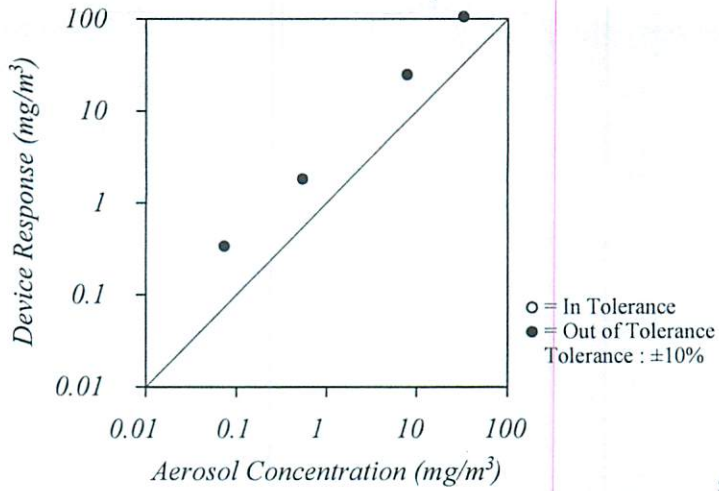
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	72.9 (22.7)	°F (°C)
Relative Humidity	52	%RH
Barometric Pressure	29.03 (983.1)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☐ As Left ☐ In Tolerance
☒ As Found ☒ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-02

FLOW AND PRESSURE VERIFICATION — ***SYSTEM DTII01-02***

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.05	2.85 ~ 3.15	Pressure kPa	98.2	98.2	93.33 ~ 103.15
Full Flow lpm	N/A	5.20	>3.80				

Pump run time: 369 Hours, Pump voltage: 537 Bits

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Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E010539	12-05-22	06-30-24
Microbalance	M001324	01-09-23	01-31-25
3 um PSL	264877	n/a	n/a
Pressure	E003511	10-25-22	10-31-23
DC Voltage	E003315	01-09-23	01-31-24

Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003433	03-21-23	09-30-23
1 um PSL	A817797	n/a	n/a
10 um PSL	266995	n/a	n/a
Flowmeter	E011301	07-21-23	07-31-24

Verified

August 15, 2023
Date

TSI P/N 2300157

TSI P/N 2300157

CERTIFICATE OF CALIBRATION AND TESTING

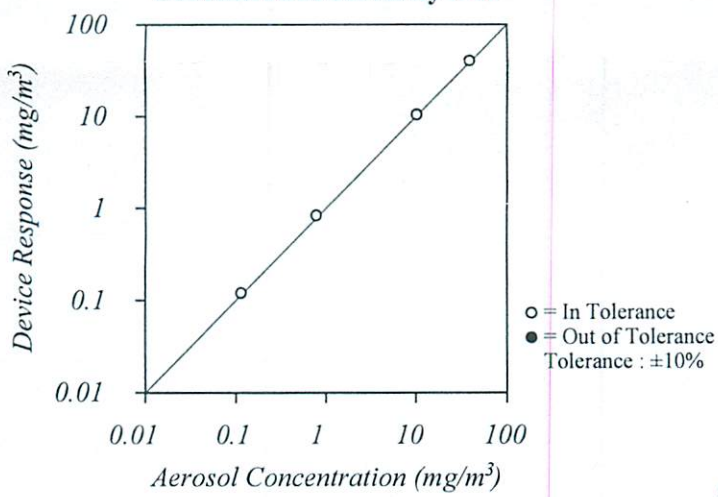
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

Environment Conditions		
Temperature	73.4 (23.0)	°F (°C)
Relative Humidity	54	%RH
Barometric Pressure	28.90 (978.7)	inHg (hPa)

Model	**8534**
Serial Number	**8534161603**

☒ As Left ☒ In Tolerance
☐ As Found ☐ Out of Tolerance

Concentration Linearity Plot



System ID: DTII01-01

FLOW AND PRESSURE VERIFICATION — **SYSTEM DTII01-01**

Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.04	2.88 ~ 3.12	Pressure kPa	97.7	97.7	92.84 ~ 102.61
Full Flow lpm	N/A	5.13	>3.80				

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Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
Photometer	E003319	03-17-23	09-30-23	Flowmeter	E004570	06-05-23	06-30-24
DC Voltage(Keithley)	E002455	06-13-23	06-30-24	Microbalance	M001324	01-09-23	01-31-25
Pressure	E005651	07-24-23	07-31-24	1 um PSL	698880	n/a	n/a
3 um PSL	702200	n/a	n/a	10 um PSL	266995	n/a	n/a

Calibrated

August 16, 2023
Date

Appendix 6

Surface Water Monitoring

Field Documentation

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station ECSW-1	Date 3.25.2019	Time of Grab Sample 1115 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode		
Surface Water ☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	*by Boat*
Ground Water ☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐	Canoe
Waste Water ☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐	Gas Motor
Other:	Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmartTrall	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Residual Intermediate ~~#~~ MSMSD

LOCATION

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	20.24			
Conductivity Field	UMHO	94	93.1			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	10.65			
DO % Saturation	Percent	301	117.1			
pH Field	Std. Unit	400	7.97			
ORP	mV	90	375.3			
Turbidity, HACH	NTU	76	3.35			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32				

Sample Taken By: RC SW	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station EC SW-2	Date 3.25.2021	Time of Grab Sample 1230 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmarTroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Rob Phelps Course Superintd. 850-324-8281 Cell

LOCATION Golf Course Hole 1 Bridge

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	19.63			
Conductivity Field	UMHO	94	105.8			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	9.88			
DO % Saturation	Percent	301	107.5			
pH Field	Std. Unit	400	7.63			
ORP	mV	90	304.7			
Turbidity, HACH	NTU	76	3.18			
Temp. Air	°C	20	—			
Secchi	Meters	78	—			
Water Depth, Max	Meters	82903	—			
Tide Stage	Code	67	—			
Precipitation (24hr)	Inches	45	—			
Cloud Cover	Percent	32	—			

Sample Taken By: RC/SW/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station EC SW-3	Date 3.25.2019	Time of Grab Sample 1400 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmarTroll	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: BOC as intermed: LL Hg dried

LOCATION

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	19.49			
Conductivity Field	UMHO	94	96.5			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	8.31			
DO % Saturation	Percent	301	90.3			
pH Field	Std. Unit	400	7.48			
ORP	mV	90	389.2			
Turbidity, HACH	NTU	76	4.22			
Temp. Air	°C	20	—			
Secchi	Meters	78	—			
Water Depth, Max	Meters	82903	—			
Tide Stage	Code	67	—			
Precipitation (24hr)	Inches	45	—			
Cloud Cover	Percent	32	—			

Sample Taken By: RC/SW	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ECSW-4	Date 3-25-2019	Time of Grab Sample 1645 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: heavy traffic on Longleaf Dr

LOCATION

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	21.33			
Conductivity Field	UMHO	94	76.5			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	8.18			
DO % Saturation	Percent	301	93.2			
pH Field	Std. Unit	400	7.35			
ORP	mV	90	382.9			
Turbidity, HACH	NTU	76	3.53			
Temp. Air	°C	20	—			
Secchi	Meters	78	—			
Water Depth, Max	Meters	82903	—			
Tide Stage	Code	67	—			
Precipitation (24hr)	Inches	45	—			
Cloud Cover	Percent	32	—			

Sample Taken By: DM/RC/SW	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ECSM-5	Date 3.25.2019	Time of Grab Sample 1600 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: New LDPE Bottle

LOCATION

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	23.91			
Conductivity Field	UMHO	94	77.6			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	6.77			
DO % Saturation	Percent	301	80.5			
pH Field	Std. Unit	400	7.35			
ORP	mV	90	384.1			
Turbidity, HACH	NTU	76	3.58			
Temp. Air	°C	20	—			
Secchi	Meters	78	—			
Water Depth, Max	Meters	82903	—			
Tide Stage	Code	67	—			
Precipitation (24hr)	Inches	45	—			
Cloud Cover	Percent	32	—			

Sample Taken By: DM/RC-SW	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station EC.SW-6	Date 3.25.2019	Time of Grab Sample 1430 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmarTroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: S,W, on the pole

LOCATION

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	19.89			
Conductivity Field	UMHO	94	179.9			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	6.53			
DO % Saturation	Percent	301	71.5			
pH Field	Std. Unit	400	7.15			
ORP	mV	90	380.8			
Turbidity, HACH	NTU	76	3.94			
Temp. Air	°C	20	—			
Secchi	Meters	78	—			
Water Depth, Max	Meters	82903	—			
Tide Stage	Code	67	—			
Precipitation (24hr)	Inches	45	—			
Cloud Cover	Percent	32	—			

Sample Taken By: SW/RC	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		*Collection Container Triple Rinsed* ☒
Agency 21FLESC	**Station** ECSW-7	**Date** 3.25.2019	**Time of Grab Sample** 1505 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	20.49			
Conductivity Field	UMHO	94	267.1			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	6.98			
DO % Saturation	Percent	301	77.5			
pH Field	Std. Unit	400	7.24			
ORP	mV	90	504.0			
Turbidity, HACH	NTU	76	6.20			
Temp. Air	°C	20	—			
Secchi	Meters	78	—			
Water Depth, Max	Meters	82903	—			
Tide Stage	Code	67	—			
Precipitation (24hr)	Inches	45	—			
Cloud Cover	Percent	32	—			

Sample Taken By: DM/RC/SW	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

NO

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ESCSW-1	Date 4-24-2019	Time of Grab Sample 1045 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmartTroll	**Equipmt Used:** Sample Container ☒ Pole ☒ NO Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: FDup 1050 (LLHg MSMSD & Field Blank) FLEQ Blank 1055

LOCATION Crescent Lake Dam BOD Intermed

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	23.08	23.08		
Conductivity Field	UMHO	94	95.3			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	9.65			
DO % Saturation	Percent	301	112.3			
pH Field	Std. Unit	400	8.19			
ORP	mV	90	381.1			* No pre-calib
Turbidity, HACH	NTU	76	2.98			
Temp. Air	°C	20	\			
Secchi	Meters	78	\			
Water Depth, Max	Meters	82903	\			
Tide Stage	Code	67	\			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: RC	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ESC SW-2	Date 4.23.2019	Time of Grab Sample 1200 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☒TOC ☐Other:	☐Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: SmonTrol1	Equipmt Used: Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	Equipmt ID Num: ☐ Field Cleaned

Remarks:

LOCATION
Marcus Pl. Golf Club bridge over West Boch
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	21.79			
Conductivity Field	UMHO	94	90.9			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	7.93			
DO % Saturation	Percent	301	90.1			
pH Field	Std. Unit	400	7.8			
ORP	mV	90	408.1			* Post cal
Turbidity, HACH	NTU	76	3.08			
Temp. Air	°C	20	\			
Secchi	Meters	78	\			
Water Depth, Max	Meters	82903	\			
Tide Stage	Code	67	\			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: RC/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station ECSW-3	Date 9.24.2019	Time of Grab Sample 1330 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☒	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☐	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☐Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SonTek	Equipmt Used: Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	Equipmt ID Num: ☐ Field Cleaned

Remarks: BOD intermed.

LOCATION West Branch @ Marais Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	21.12			
Conductivity Field	UMHO	94	86.8			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	7.21			
DO % Saturation	Percent	301	86.6			
pH Field	Std. Unit	400	7.73			
ORP	mV	90	372.7			post calib
Turbidity, HACH	NTU	76	3.66			
Temp. Air	°C	20	\			
Secchi	Meters	78	\			
Water Depth, Max	Meters	82903	\			
Tide Stage	Code	67	\			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: RE	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ESC SW-4	Date 9/22/2019	Time of Grab Sample 1425 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☐TOC ☐Other:	☐Ice ☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: SmarTroll	Equipmt Used: Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	Equipmt ID Num: ☐ Field Cleaned

Remarks:

LOCATION
Longleaf Dr
West Branch
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	21.76			
Conductivity Field	UMHO	94	73.7			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	7.34			
DO % Saturation	Percent	301	85.5			
pH Field	Std. Unit	400	7.63			
ORP	mV	90	369.7			+ Post Cal. 6
Turbidity, HACH	NTU	76	3.22			
Temp. Air	°C	20	\			
Secchi	Meters	78	\			
Water Depth, Max	Meters	82903	\			
Tide Stage	Code	67	\			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: DM/RC	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ESC SW-5	Date 9.24.2019	Time of Grab Sample 1510 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒Ice ☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: Smart Troll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION Upper West Branch @ Rolling Hills Rd

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	21.59			
Conductivity Field	UMHO	94	78.8			
Salinity	PPTH	480	0			
DO Probe	mg/L	299	4.51			
DO % Saturation	Percent	301	51.2			
pH Field	Std. Unit	400	7.13			
ORP	mV	90	386.9			* Post Cal: 5
Turbidity, HACH	NTU	76	4.52			
Temp. Air	°C	20	\			
Secchi	Meters	78	\			
Water Depth, Max	Meters	82903	\			
Tide Stage	Code	67	\			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: RC	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ESC SW-6	Date 9.29.2019	Time of Grab Sample 1550 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☒TOC ☐Other:	☐Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTroll	Equipmt Used: Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	Equipmt ID Num: ☐ Field Cleaned

Remarks:

LOCATION East Branch @ Marcus Point Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	20.69			
Conductivity Field	UMHO	94	159.9			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	4.45			
DO % Saturation	Percent	301	49.6			
pH Field	Std. Unit	400	6.89			
ORP	mV	90	335.0			*post calib
Turbidity, HACH	NTU	76	3.39			
Temp. Air	°C	20	/			
Secchi	Meters	78	/			
Water Depth, Max	Meters	82903	/			
Tide Stage	Code	67	/			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: RC	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ESC SW-7	Date 4.24.2019	Time of Grab Sample 1640 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartRoll	Equipmt Used: Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	Equipmt ID Num: ☐ Field Cleaned

Remarks: Significant Biological Sheen

LOCATION East Branch @ Marcus Point Arts Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	21.35			
Conductivity Field	UMHO	94	255.1			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	5.62			
DO % Saturation	Percent	301	63.5			
pH Field	Std. Unit	400	7.08			
ORP	mV	90	312.6			
Turbidity, HACH	NTU	76	4.87			
Temp. Air	°C	20	\			
Secchi	Meters	78	\			
Water Depth, Max	Meters	82903	?			
Tide Stage	Code	67	\			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: DM \ RC	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** ECSW-1	**Date** 5.20.2019	Time of Grab Sample 1040 (CST/EST)

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☐	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: * FD 1050 Used Residuals as intermediate
* EQBLK 1100 Tree Canopy 0%
* MSMSD LLHgBLK 1105

LOCATION Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	27.93			
Conductivity Field	UMHO	94	93.7			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	9.26			
DO % Saturation	Percent	301	117.8			
pH Field	Std. Unit	400	8.13			
ORP	mV	90	354.1			
Turbidity, HACH	NTU	76	4.80			
Temp. Air	°C	20				
Secchi	Meters	78	0.25			
Water Depth, Max	Meters	82903	0.25			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	50			

Sample Taken By: D. Morton, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒	
Agency 21FLESC	**Station** ECSW-2	**Date** 5-20-2019		Time of Grab Sample 1215	CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☐NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Biological Sheen; BOD & Residual used as intermediate

Tree canopy 30%.

LOCATION Bayou Marcus Cr. West Branch

Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.53			
Conductivity Field	UMHO	94	99.4			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	9.70			
DO % Saturation	Percent	301	124.8			
pH Field	Std. Unit	400	7.65			
ORP	mV	90	389.9			
Turbidity, HACH	NTU	76	4.61			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	75			

Sample Taken By: D. Morton, S. Williams

Report Prepared By: Samantha Williams

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC / **Station** ECSW-3		**Date** 5-20-2019	Time of Grab Sample 1345 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

Tree Canopy 100%
BOD + Residuals used as intermediate.

LOCATION Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	26.88			
Conductivity Field	UMHO	94	83.7			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	6.65			
DO % Saturation	Percent	301	83.2			
pH Field	Std. Unit	400	7.42			
ORP	mV	90	379.5			
Turbidity, HACH	NTU	76	4.93			
Temp. Air	°C	20				
Secchi	Meters	78	0.34			
Water Depth, Max	Meters	82903	0.34			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	20			

Sample Taken By: D. Morton, S. Williams

Report Verified By:

Report Prepared By: Samantha Williams

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-4	**Date** 5-20-2019	Time of Grab Sample 1600 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☒Other:	☐H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Put new bottle on Pole. Tree Canopy 40%

LOCATION Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	30.28			
Conductivity Field	UMHO	94	76.4			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	6.48			
DO % Saturation	Percent	301	86.2			
pH Field	Std. Unit	400	7.45			
ORP	mV	90	394.6			
Turbidity, HACH	NTU	76	4.66			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	40			

Sample Taken By: D.Morton, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-5	**Date** 5-20-2019	Time of Grab Sample 1650 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☐H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 0%

LOCATION Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	32.24			
Conductivity Field	UMHO	94	80.1			
Salinity	PPTH	480	0.6			
DO Probe	mg/L	299	4.05			
DO % Saturation	Percent	301	55.8			
pH Field	Std. Unit	400	6.96			
ORP	mV	90	411.3			
Turbidity, HACH	NTU	76	5.56			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	25%			

Sample Taken By: D. Morton, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC / **Station** ECSW-6	**Date** 5-20-2019	Time of Grab Sample 1430	CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☐ / by Boat ☐
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ / Canoe ☐
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ / Gas Motor ☐
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 70%
Residuals & BOD used as intermediates
Metals for ESCWQLM had PH > 2

LOCATION Bayou Marcus Cr. East Branch
@ Marcus Pt. Blvd
Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	25.41			
Conductivity Field	UMHO	94	166.6			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	3.57			
DO % Saturation	Percent	301	43.5			
pH Field	Std. Unit	400	6.96			
ORP	mV	90	257.4			
Turbidity, HACH	NTU	76	5.55			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	0			

Sample Taken By: D. Morton, S. Williams

Report Prepared By: Samantha Williams

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-7	**Date** 5-20-2019	Time of Grab Sample 1515 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Biological Sheen
Tree Canopy ~40%
Used BOD + Residuals as intermediats

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.30			
Conductivity Field	UMHO	94	253.3			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	6.91			
DO % Saturation	Percent	301	88.8			
pH Field	Std. Unit	400	7.17			
ORP	mV	90	419.5			
Turbidity, HACH	NTU	76	6.48			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	0			

Sample Taken By: D. Morton, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** ECSW-1	**Date** 6-11-2019	Time of Grab Sample 9:25 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☑	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: BOD used as intermediate FD@9:30 Residuals used as intermediate Tree Canopy 0%

LOCATION Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.63			
Conductivity Field	UMHO	94	87.1			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	8.29			
DO % Saturation	Percent	301	106.7			
pH Field	Std. Unit	400	8.10			
ORP	mV	90	383.4			
Turbidity, HACH	NTU	76	3.75			
Temp. Air	°C	20				
Secchi	Meters	78	0.25			
Water Depth, Max	Meters	82903	0.25			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	0			

Sample Taken By: R. Cumming; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency: 21FLESC	Station:	Date: 6-11-2019	Time of Grab Sample: 1005 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☐	Equip Blank ☑	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☐	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☑NH3 ☐TOC ☐Other:	☐Ice ☑H2SO4 2ml			☐ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐				

Meter ID Num:	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Done @ EC-SW1 Crescent Lake.

LOCATION Equip BLANK

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98				
Temp. Water	°C	10				
Conductivity Field	UMHO	94				
Salinity	PPTH	480				
DO Probe	mg/L	299				
DO % Saturation	Percent	301				
pH Field	Std. Unit	400				
ORP	mV	90				
Turbidity, HACH	NTU	76				
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32				

Sample Taken By: R. Cummins, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-2	**Date** 10-11-2019	Time of Grab Sample 1110 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☐NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: ~~BOD used as intermediate~~ SW

Tree Canopy 0%

LOCATION Bayou Marcus Cr. West Branch

Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.02			
Conductivity Field	UMHO	94	93.7			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	7.62			
DO % Saturation	Percent	301	97.3			
pH Field	Std. Unit	400	7.58			
ORP	mV	90	395.2			
Turbidity, HACH	NTU	76	3.65			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903	1.10			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	0			

Sample Taken By: R. Cummins; S. Williams

Report Prepared By: Samantha Williams

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** ECSW-3	**Date** 6-11-2019	Time of Grab Sample 12:20 (CST)/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☑	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☑NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: BOD as intermediate

Tree Canopy 100%

LOCATION Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	~~27.24~~	0.20		
Temp. Water	°C	10	27.24			
Conductivity Field	UMHO	94	90.2			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	6.18			
DO % Saturation	Percent	301	77.9			
pH Field	Std. Unit	400	7.26			
ORP	mV	90	379.2			
Turbidity, HACH	NTU	76	5.28			
Temp. Air	°C	20				
Secchi	Meters	78	70.25			
Water Depth, Max	Meters	82903	0.25			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	50			

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-4	**Date** 10-11-2019	Time of Grab Sample 1325 (CST)/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Heavy Truck Traffic nearby.

Tree Canopy 30%

LOCATION Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20	~~0.20~~ SW 0.39		
Temp. Water	°C	10	29.94	29.60		
Conductivity Field	UMHO	94	76.0	156.4		
Salinity	PPTH	480	0.0	0.1		
DO Probe	mg/L	299	5.97	5.35		
DO % Saturation	Percent	301	79.0	70.4		
pH Field	Std. Unit	400	7.15	6.75		
ORP	mV	90	392.4	123.7		
Turbidity, HACH	NTU	76	7.10	—		
Temp. Air	°C	20				
Secchi	Meters	78	0.39			
Water Depth, Max	Meters	82903	0.39			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	40			

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC / **Station** ECSW-5		**Date** 6-11-2019	Time of Grab Sample 1405 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

Tree Canopy 0%

LOCATION Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	30.90			
Conductivity Field	UMHO	94	86.2			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	3.47			
DO % Saturation	Percent	301	46.8			
pH Field	Std. Unit	400	6.60			
ORP	mV	90	490.2			
Turbidity, HACH	NTU	76	4.59			
Temp. Air	°C	20				
Secchi	Meters	78	70.45			
Water Depth, Max	Meters	82903	0.45			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	50			

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-6	**Date** 6-11-2019	Time of Grab Sample 1450	CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ ≤2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

Tree Canopy 100%

LOCATION Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	27.21			
Conductivity Field	UMHO	94	147.1			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	3.64			
DO % Saturation	Percent	301	46.0			
pH Field	Std. Unit	400	6.77			
ORP	mV	90	450.0			
Turbidity, HACH	NTU	76	3.01			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903	0.90			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	80			

Sample Taken By: K. Cummins; S. Williams

Report Verified By:

Report Prepared By: Samantha Williams

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-7	**Date** 6.11.2019	Time of Grab Sample 1530 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☐H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

Tree Canopy 30%

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.72			
Conductivity Field	UMHO	94	210.5			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	2.84			
DO % Saturation	Percent	301	36.9			
pH Field	Std. Unit	400	6.86			
ORP	mV	90	428.3			
Turbidity, HACH	NTU	76	6.08			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903	1.10			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	50			

Sample Taken By: R. Cummins, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** ECSW-1	**Date** 7-23-2019	Time of Grab Sample 9:50 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☑	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Field Duplicate @ 1000
Field Blank @ 9:55 Tree Canopy 0%
Residuals used as intermediate

LOCATION Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	31.18			
Conductivity Field	UMHO	94	92.6			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	8.77			
DO % Saturation	Percent	301	118.4			
pH Field	Std. Unit	400	6.95			
ORP	mV	90	367.3			
Turbidity, HACH	NTU	76	3.60			
Temp. Air	°C	20				
Secchi	Meters	78	70.4			
Water Depth, Max	Meters	82903	0.4			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	50			

Sample Taken By: R. Cummins; S. Williams

Report Verified By:

Report Prepared By: Samantha Williams

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-1	**Date** 7-23-2019	Time of Grab Sample 1005 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☐	Equip Blank	☑	Terrestrial	☐	Fish ☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☐NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num:	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: EQUIP. BLANK @ 1005

LOCATION Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98				
Temp. Water	°C	10				
Conductivity Field	UMHO	94				
Salinity	PPTH	480				
DO Probe	mg/L	299				
DO % Saturation	Percent	301				
pH Field	Std. Unit	400				
ORP	mV	90				
Turbidity, HACH	NTU	76				
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903				
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32				

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-2	**Date** 7-23-2019	Time of Grab Sample 1125 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 0%

LOCATION Bayou Marcus Cr. West Branch

Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.11			
Conductivity Field	UMHO	94	99.4			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	4.77			
DO % Saturation	Percent	301	61.2			
pH Field	Std. Unit	400	6.69			
ORP	mV	90	390.8			
Turbidity, HACH	NTU	76	2.77			
Temp. Air	°C	20				
Secchi	Meters	78	>1.0			
Water Depth, Max	Meters	82903	1.0			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	75			

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** ECSW-3	**Date** 7-23-2019	Time of Grab Sample 1240 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☑	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 100%
BOD for intermediate

LOCATION Bayou Marcus Cr. West Branch
@ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.32			
Conductivity Field	UMHO	94	52.8			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	6.22			
DO % Saturation	Percent	301	80.2			
pH Field	Std. Unit	400	6.83			
ORP	mV	90	418.0			
Turbidity, HACH	NTU	76	5.02			
Temp. Air	°C	20				
Secchi	Meters	78	70.3			
Water Depth, Max	Meters	82903	0.30			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	75			

Sample Taken By: R. Cummins; S. Williams

Report Prepared By: Samantha Williams

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-4	**Date** 7-23-2019	Time of Grab Sample 1330 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 50% Heavy Truck Traffic nearby throughout Sampling. Bottom parameters Similar.

LOCATION Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	30.45			
Conductivity Field	UMHO	94	77.9			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	6.12			
DO % Saturation	Percent	301	81.9			
pH Field	Std. Unit	400	6.77			
ORP	mV	90	385.3			
Turbidity, HACH	NTU	76	2.51			
Temp. Air	°C	20				
Secchi	Meters	78	0.43			
Water Depth, Max	Meters	82903	0.43			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: R. Cummins, S. Williams

Report Prepared By: Samantha Williams

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-5	**Date:** 7-23-2019	Time of Grab Sample 1410 CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 0%

LOCATION Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	30.65			
Conductivity Field	UMHO	94	77.2			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	2.82			
DO % Saturation	Percent	301	37.9			
pH Field	Std. Unit	400	6.42			
ORP	mV	90	421.2			
Turbidity, HACH	NTU	76	3.52			
Temp. Air	°C	20				
Secchi	Meters	78	0.48			
Water Depth, Max	Meters	82903	0.48			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	100			

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-6	**Date** 7-23-2019	Time of Grab Sample 1450 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 100%
Raining throughout Sample.
Traffic nearby.

LOCATION Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	25.84			
Conductivity Field	UMHO	94	145.5			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	3.82			
DO % Saturation	Percent	301	47.0			
pH Field	Std. Unit	400	6.48			
ORP	mV	90	264.2			
Turbidity, HACH	NTU	76	8.30			
Temp. Air	°C	20				
Secchi	Meters	78	0.54			
Water Depth, Max	Meters	82903	0.54			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	Y			
Cloud Cover	Percent	32	100			

Sample Taken By: R. Cummins, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW-7	**Date** 7-23-2019	Time of Grab Sample 1530	CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Tree Canopy 25%
Raining throughout sample.

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	27.50			
Conductivity Field	UMHO	94	034.4			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	3.20			
DO % Saturation	Percent	301	40.7			
pH Field	Std. Unit	400	6.76			
ORP	mV	90	326.1			
Turbidity, HACH	NTU	76	6.81			
Temp. Air	°C	20				
Secchi	Meters	78	70.67			
Water Depth, Max	Meters	82903	0.67			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	1			
Cloud Cover	Percent	32	100			

Sample Taken By: R.Cummins, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-1	**Date** 8.13.2019	Time of Grab Sample 1015 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: Smarttrol	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: FD 1020
EQBLK 1030
Intermediate - BOD bottle

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.28				
Conductivity Field	UMHO	94	89.1				
Salinity	PPTH	480	0				
DO Probe	mg/L	299	7.34				
DO % Saturation	Percent	301	97.6				
pH Field	Std. Unit	400	6.96				
ORP	mV	90	483.0				
Turbidity, HACH	NTU	76	2.98				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	\				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	80				

Sample Taken By: DM/TM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 8/13/2019	Time of Grab Sample 1145 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: Smart Troll	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.07				
Conductivity Field	UMHO	94	88.2				
Salinity	PPTH	480	0				
DO Probe	mg/L	299	5.38				
DO % Saturation	Percent	301	69.0				
pH Field	Std. Unit	400	6.99				
ORP	mV	90	477.8	477.8			
Turbidity, HACH	NTU	76	7.37				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	\				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/TM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-3	**Date** 8.13.2019	Time of Grab Sample 1315 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☒	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☐	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: Sman Troll	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: interm med - BOD bottle

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.20				
Conductivity Field	UMHO	94	89.6				
Salinity	PPTH	480	0				
DO Probe	mg/L	299	5.63				
DO % Saturation	Percent	301	72.3				
pH Field	Std. Unit	400	6.84				
ORP	mV	90	452.2				
Turbidity, HACH	NTU	76	7.42				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	/				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: TM/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-4	**Date** 8.13.2019	Time of Grab Sample 1400 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.10				
Conductivity Field	UMHO	94	76.5				
Salinity	PPTH	480	0				
DO Probe	mg/L	299	5.42				
DO % Saturation	Percent	301	70.8				
pH Field	Std. Unit	400	6.81				
ORP	mV	90	443.3				
Turbidity, HACH	NTU	76	5.46				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: TM/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☐0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-5	**Date** 8.13.2019	Time of Grab Sample 1450	CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: Smart Tool	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.1				
Conductivity Field	UMHO	94	72.7				
Salinity	PPTH	480	0				
DO Probe	mg/L	299	2.33				
DO % Saturation	Percent	301	30.4				
pH Field	Std. Unit	400	6.45				
ORP	mV	90	432.6				
Turbidity, HACH	NTU	76	2.28				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	7				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: TM/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-6	**Date** 8.13.2019	Time of Grab Sample 1545 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: SmarTro 1	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.63				
Conductivity Field	UMHO	94	123.1				
Salinity	PPTH	480	0				
DO Probe	mg/L	299	9.35				
DO % Saturation	Percent	301	54.4				
pH Field	Std. Unit	400	6.6				
ORP	mV	90	342.9				
Turbidity, HACH	NTU	76	2.43				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: TM/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: Station ECSW-7	Date: 8-13-2019	Time of Grab Sample: 1625 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmarTroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.23				
Conductivity Field	UMHO	94	125.4				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	2.55				
DO % Saturation	Percent	301	32.3				
pH Field	Std. Unit	400	6.63				
ORP	mV	90	398.7				
Turbidity, HACH	NTU	76	5.92				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: TM/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-1	**Date** 9-18-2019	Time of Grab Sample 1000 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☑	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Used BOD 3 Residuals as intermediate
Field Duplicate @ 1005
MS/MSD Performed

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	29.96				
Conductivity Field	UMHO	94	94.8				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	9.35				
DO % Saturation	Percent	301	123.5				
pH Field	Std. Unit	400	7.49				
ORP	mV	90	346.3				
Turbidity, HACH	NTU	76	3.21				
Temp. Air	°C	20	—				
Secchi	Meters	78	70.14				
Water Depth, Max	Meters	82903	0.14				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: R. Cummins, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-2	**Date** 9-18-2019	Time of Grab Sample 1110 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	28.76				
Conductivity Field	UMHO	94	102.4				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.52				
DO % Saturation	Percent	301	84.4				
pH Field	Std. Unit	400	7.18				
ORP	mV	90	388.1				
Turbidity, HACH	NTU	76	1.95				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	1.10				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station **Station ECSW-3**	Date 9-18-2019	Time of Grab Sample 1235 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☑	by Boat ☐
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☑	Canoe ☐
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☐	Gas Motor ☐
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☐NO2NO3 ☐NH3 ☐TOC ☑Other:	☐H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: BOD 3, Residuals used as intermediate.

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	28.25				
Conductivity Field	UMHO	94	84.5				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.05				
DO % Saturation	Percent	301	77.6				
pH Field	Std. Unit	400	7.26				
ORP	mV	90	488.2				
Turbidity, HACH	NTU	76	1.84				
Temp. Air	°C	20					
Secchi	Meters	78	70.5				
Water Depth, Max	Meters	82903	0.50				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By: R. Cummins; S. Williams

Report Prepared By: Samantha Williams

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station: Station ECSW-4	Date: 9-18-2019	Time of Grab Sample: 1325 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Conductivity similar on bottom.

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	30.29				
Conductivity Field	UMHO	94	80.5				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.86				
DO % Saturation	Percent	301	78.0				
pH Field	Std. Unit	400	7.33				
ORP	mV	90	330.0				
Turbidity, HACH	NTU	76	2.16				
Temp. Air	°C	20	—				
Secchi	Meters	78	0.48				
Water Depth, Max	Meters	82903	0.48				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	75				

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency: 21FLESC	Station: Station ECSW-5	Date: 9-18-2019	Time of Grab Sample: 1405 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: LL Hg Field Blank @ 1410
Biological Sheen - Slight orange color

LOCATION
Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	29.28				
Conductivity Field	UMHO	94	69.8				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	1.26				
DO % Saturation	Percent	301	16.6				
pH Field	Std. Unit	400	6.23				
ORP	mV	90	492.0				
Turbidity, HACH	NTU	76	9.27				
Temp. Air	°C	20	—				
Secchi	Meters	78	70.5				
Water Depth, Max	Meters	82903	0.50				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	10				

Sample Taken By: R. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station: **Station ECSW-6**	Date: 9-18-2019	Time of Grab Sample: 1450 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ ≤2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Leaf Litter on top 3, Biological sheen

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	27.28				
Conductivity Field	UMHO	94	175.3				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	2.83				
DO % Saturation	Percent	301	35.8				
pH Field	Std. Unit	400	6.80 SU				
ORP	mV	90	293.6				
Turbidity, HACH	NTU	76	3.85				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	0.84				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	10				

Sample Taken By: B. Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC / **Station** ECSW-7	**Date** 9-18-2019	Time of Grab Sample 1530	CST/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmartROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Milky Orange Color

Tree Canopy 25%

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	28.67			
Conductivity Field	UMHO	94	280.2			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	2.54			
DO % Saturation	Percent	301	32.8			
pH Field	Std. Unit	400	6.96			
ORP	mV	90	320.8			
Turbidity, HACH	NTU	76	12.67			
Temp. Air	°C	20	—			
Secchi	Meters	78	—			
Water Depth, Max	Meters	82903	0.91			
Tide Stage	Code	67	—			
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	10			

Sample Taken By: R.Cummins; S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-1	**Date** 10-22-2019	Time of Grab Sample 1422 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☒Other:	☒H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Field Dup. @ 0930
Field Blank @ 0935
Strong wind ~ 13 mph coming from North
Used Residuals 3, BOD for intermediate

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.63				
Conductivity Field	UMHO	94	98.4				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.59				
DO % Saturation	Percent	301	87.5				
pH Field	Std. Unit	400	7.17				
ORP	mV	90	286.7				
Turbidity, HACH	NTU	76	4.42				
Temp. Air	°C	20	—				
Secchi	Meters	78	70.3				
Water Depth, Max	Meters	82903	0.30				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	50				

Sample Taken By: R. Cummins; T. Molony, S. Williams	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 10.22.2019	Time of Grab Sample 1035 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.50				
Conductivity Field	UMHO	94	104.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.35				
DO % Saturation	Percent	301	61.6				
pH Field	Std. Unit	400	6.57				
ORP	mV	90	233.7				
Turbidity, HACH	NTU	76	2.85				
Temp. Air	°C	20	—				
Secchi	Meters	78	NM				
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	50				

Sample Taken By: TM; RC; SW	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station: Station ECSW-3	Date: 10-22-2019	Time of Grab Sample: 1130 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: TSS + BOD as intermediate Construction nearby; Pulling in gas line.

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.34				
Conductivity Field	UMHO	94	104.6				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.55				
DO % Saturation	Percent	301	75.2				
pH Field	Std. Unit	400	6.81				
ORP	mV	90	197.7				
Turbidity, HACH	NTU	76	4.54				
Temp. Air	°C	20	—				
Secchi	Meters	78	70.3				
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	40				

Sample Taken By: KC, TM, SW	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station **Station ECSW-4**	Date 10-22-2019	Time of Grab Sample 1300 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Heavy truck traffic nearby throughout sampling.

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.80				
Conductivity Field	UMHO	94	83.3				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.69				
DO % Saturation	Percent	301	79.0				
pH Field	Std. Unit	400	6.64				
ORP	mV	90	219.6				
Turbidity, HACH	NTU	76	3.44				
Temp. Air	°C	20	—				
Secchi	Meters	78	0.5				
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	30				
Cloud Cover	Percent	32	30				

Sample Taken By: BC, SW, TM	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-5	**Date** 10-22-2019	Time of Grab Sample 1330 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Beaver dam @ site

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	24.64				
Conductivity Field	UMHO	94	75.3				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	4.21				
DO % Saturation	Percent	301	50.6				
pH Field	Std. Unit	400	6.33				
ORP	mV	90	190.8				
Turbidity, HACH	NTU	76	3.30				
Temp. Air	°C	20	—				
Secchi	Meters	78	7.044				
Water Depth, Max	Meters	82903	0.44				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	25				

Sample Taken By: RC, TM, SW	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-6	**Date** 10-22-2019	Time of Grab Sample 1410 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☐NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.28				
Conductivity Field	UMHO	94	150.2				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.38				
DO % Saturation	Percent	301	50.3				
pH Field	Std. Unit	400	6.64				
ORP	mV	90	124.0				
Turbidity, HACH	NTU	76	3.74				
Temp. Air	°C	20	—				
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.68				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	1				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	80				

Sample Taken By: KC, SW, TM	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-7	**Date** 10.22.2019	Time of Grab Sample 1445 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SmarTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.06				
Conductivity Field	UMHO	94	233.9				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	3.93				
DO % Saturation	Percent	301	45.9				
pH Field	Std. Unit	400	7.05				
ORP	mV	90	184.9				
Turbidity, HACH	NTU	76	SW 3.7	8.63			
Temp. Air	°C	20	—				
Secchi	Meters	78	70.98				
Water Depth, Max	Meters	82903	0.98				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	30				
Cloud Cover	Percent	32	50				

Sample Taken By: RC; SW; TM	Report Verified By:
Report Prepared By: Samantha Williams	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-1	**Date** 11-12-19	Time of Grab Sample 1000 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: High Winds, sampled off Spillway

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	17.32				
Conductivity Field	UMHO	94	92.5				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	9.03				
DO % Saturation	Percent	301	93.4				
pH Field	Std. Unit	400	7.42				
ORP	mV	90	221.7				
Turbidity, HACH	NTU	76	12.25				
Temp. Air	°C	20					
Secchi	Meters	78	>0.65				
Water Depth, Max	Meters	82903	0.65				
Tide Stage	Code	67	N/A				
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: RC, TM	Report Verified By:
Report Prepared By: RC	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 11-12-19	Time of Grab Sample 1130 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: High winds

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	16.46				
Conductivity Field	UMHO	94	101.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.64				
DO % Saturation	Percent	301	87.8				
pH Field	Std. Unit	400	7.09				
ORP	mV	90	177.6				
Turbidity, HACH	NTU	76	9.84				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.94				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: RL+TM	Report Verified By:
Report Prepared By: RL	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-3	**Date** 11-12-19	Time of Grab Sample 1305 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank	☒ RL	FW Sed	☐	Shellfish	☐	Wading ☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: FD @ 1310

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.34				
Conductivity Field	UMHO	94	89.8				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.30				
DO % Saturation	Percent	301	82.4				
pH Field	Std. Unit	400	6.89				
ORP	mV	90	136.2				
Turbidity, HACH	NTU	76	11.7				
Temp. Air	°C	20					
Secchi	Meters	78	>0.25				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67	N/A				
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	85				

Sample Taken By: RL + TM	Report Verified By:
Report Prepared By: RL	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-4	**Date** 11-12-19	Time of Grab Sample 1415 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Truck traffic throughout

LOCATION Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	15.19			
Conductivity Field	UMHO	94	78.3			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	8.22			
DO % Saturation	Percent	301	81.4			
pH Field	Std. Unit	400	6.88			
ORP	mV	90	162.8			
Turbidity, HACH	NTU	76	15.8			
Temp. Air	°C	20				
Secchi	Meters	78	>0.4			
Water Depth, Max	Meters	82903	0.4			
Tide Stage	Code	67	n/A			
Precipitation (24hr)	Inches	45	Y			
Cloud Cover	Percent	32	50			

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: RC	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ~~ECSW-6~~ ECSW-5	**Date** 11-12-17	Time of Grab Sample 1500 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☐NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☑HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: Smarroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. ~~East~~ West Branch @ ~~Marcus Pt. Blvd.~~ Rolling Hills Rd

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.11				
Conductivity Field	UMHO	94	69.5				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.95				
DO % Saturation	Percent	301	78.6				
pH Field	Std. Unit	400	6.68				
ORP	mV	90	137.9				
Turbidity, HACH	NTU	76	11.8				
Temp. Air	°C	20					
Secchi	Meters	78	>0.4				
Water Depth, Max	Meters	82903	0.4				
Tide Stage	Code	67	n/A				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: RL+TM	Report Verified By:
Report Prepared By: RL	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-6	**Date** 11-12-19	Time of Grab Sample 1545 (CST)/EST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	☐ Field Cleaned

Remarks: Tree canopy 100

LOCATION Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Notes**
Meter Sample Depth	Meters	98	0.2			
Temp. Water	°C	10	14.12			
Conductivity Field	UMHO	94	155.0			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	6.22			
DO % Saturation	Percent	301	60.1			
pH Field	Std. Unit	400	6.70			
ORP	mV	90	86.2			
Turbidity, HACH	NTU	76	10.8			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903	0.8			
Tide Stage	Code	67	n/A			
Precipitation (24hr)	Inches	45				
Cloud Cover	Percent	32	10			

Sample Taken By: RL + TM	Report Verified By:
Report Prepared By: RL	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-7	**Date** 11-12-19	Time of Grab Sample 1625 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☒Ice RC			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: Smartroll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	14.07				
Conductivity Field	UMHO	94	223.4				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	5.89				
DO % Saturation	Percent	301	56.9				
pH Field	Std. Unit	400	7.10				
ORP	mV	90	132.1				
Turbidity, HACH	NTU	76	14.0				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67	n/A				
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	35				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: RC	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-1	**Date** 12.17.19	Time of Grab Sample 9:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☒	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
FIELD DUP @ 9:50
FIELD BLANK @ 9:55
TRIP BLANK

LOCATION
Bayou Marcus Crescent Lake Dam
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	17.47				
Conductivity Field	UMHO	94	91.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.96				
DO % Saturation	Percent	301	93.6				
pH Field	Std. Unit	400	7.26				
ORP	mV	90	363.3				
Turbidity, HACH	NTU	76	2.06				
Temp. Air	°C	20					
Secchi	Meters	78	~~0.46~~ 108				
Water Depth, Max	Meters	82903	0.46				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 12.17.19	Time of Grab Sample 11:10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	18.33				
Conductivity Field	UMHO	94	102.3				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.33				
DO % Saturation	Percent	301	67.2				
pH Field	Std. Unit	400	6.88				
ORP	mV	90	265.7				
Turbidity, HACH	NTU	76	2.67				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.51				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: BC FM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-3	**Date** 12.17.19	Time of Grab Sample 12:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	17.66				
Conductivity Field	UMHO	94	96.0				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.34				
DO % Saturation	Percent	301	77.0				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	206.2				
Turbidity, HACH	NTU	76	4.21				
Temp. Air	°C	20	/				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-4	**Date** 12.17.19	Time of Grab Sample 13:45 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	17.35				
Conductivity Field	UMHO	94	77.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.39				
DO % Saturation	Percent	301	76.9				
pH Field	Std. Unit	400	6.76				
ORP	mV	90	250.7				
Turbidity, HACH	NTU	76	4.33				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.4				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	95				

Sample Taken By: BC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-5	**Date** 12.17.19	Time of Grab Sample 14:20 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	16.47				
Conductivity Field	UMHO	94	81.0				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.22				
DO % Saturation	Percent	301	~~63.2~~ 63.6				
pH Field	Std. Unit	400	6.42				
ORP	mV	90	177.3				
Turbidity, HACH	NTU	76	4.15				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.35				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	100				

Sample Taken By: RC FTM	Report Verified By:
Report Prepared By: FTM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-6	**Date** 12.17.19	Time of Grab Sample 15:10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	16.29				
Conductivity Field	UMHO	94	152.6				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	5.72				
DO % Saturation	Percent	301	58.3				
pH Field	Std. Unit	400	6.64				
ORP	mV	90	136.1				
Turbidity, HACH	NTU	76	3.07				
Temp. Air	°C	20	/				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.54				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-7	**Date** 12.17.19	Time of Grab Sample 15:55 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: SMARTBall	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	16.24				
Conductivity Field	UMHO	94	215.9				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	5.71				
DO % Saturation	Percent	301	58.0				
pH Field	Std. Unit	400	7.05				
ORP	mV	90	204.3				
Turbidity, HACH	NTU	76	5.98				
Temp. Air	°C	20	/				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.62				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	100				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-1	**Date** 1.21.20	Time of Grab Sample 10:10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTPOLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	12.48				
Conductivity Field	UMHO	94	89.2				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	9.54				
DO % Saturation	Percent	301	87.9				
pH Field	Std. Unit	400	7.24				
ORP	mV	90	221.4				
Turbidity, HACH	NTU	76	3.40				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.55				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-2	**Date** 1.21.20	Time of Grab Sample 11:25 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION Bayou Marcus Cr. West Branch

Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	10.63			
Conductivity Field	UMHO	94	107.7			
Salinity	PPTH	480	0.1			
DO Probe	mg/L	299	9.08			
DO % Saturation	Percent	301	80.3			
pH Field	Std. Unit	400	7.17			
ORP	mV	90	198.6			
Turbidity, HACH	NTU	76	2.83			
Temp. Air	°C	20				
Secchi	Meters	78				
Water Depth, Max	Meters	82903	0.85			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	0			

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** ECSW-3	**Date** 1.21.20	Time of Grab Sample 12:40 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☒	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: FIELD DUP @ 12:45

LOCATION Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	9.08			
Conductivity Field	UMHO	94	83.2			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	10.01			
DO % Saturation	Percent	301	85.5			
pH Field	Std. Unit	400	7.22			
ORP	mV	90	162.9			
Turbidity, HACH	NTU	76	3.89			
Temp. Air	°C	20	/			
Secchi	Meters	78				
Water Depth, Max	Meters	82903	0.40			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	0			

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-4	**Date** 1.21.20	Time of Grab Sample 14:10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	10.21				
Conductivity Field	UMHO	94	87.7				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	10.18				
DO % Saturation	Percent	301	89.4				
pH Field	Std. Unit	400	7.10				
ORP	mV	90	187.2				
Turbidity, HACH	NTU	76	4.97				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.33				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-5	**Date** 1.21.20	Time of Grab Sample 14:55 CST/EST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Notes
Meter Sample Depth	Meters	98	0.20			
Temp. Water	°C	10	12.47			
Conductivity Field	UMHO	94	91.9			
Salinity	PPTH	480	0.0			
DO Probe	mg/L	299	9.06			
DO % Saturation	Percent	301	83.9			
pH Field	Std. Unit	400	7.00			
ORP	mV	90	138.4			
Turbidity, HACH	NTU	76	2.93			
Temp. Air	°C	20	/			
Secchi	Meters	78				
Water Depth, Max	Meters	82903	0.35			
Tide Stage	Code	67				
Precipitation (24hr)	Inches	45	N			
Cloud Cover	Percent	32	0			

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **Station ECSW-6**	Date 1.21.20	Time of Grab Sample 15:45 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	10.25				
Conductivity Field	UMHO	94	146.6				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	7.58				
DO % Saturation	Percent	301	66.6				
pH Field	Std. Unit	400	6.99				
ORP	mV	90	132.4				
Turbidity, HACH	NTU	76	4.95				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.55				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	0				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-7	**Date** 1.21.20	Time of Grab Sample 1630 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	9.50				
Conductivity Field	UMHO	94	210.5				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	~~6.3.0~~ 7.29 tm				
DO % Saturation	Percent	301	63.0				
pH Field	Std. Unit	400	7.08				
ORP	mV	90	117.1				
Turbidity, HACH	NTU	76	9.27				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.66				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-1	**Date** 2.11.20	Time of Grab Sample 9:45 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted TSS, NO_2		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
- LL Hg DUP @ 9:50
- FIELD BLANK @ 9:55
- BOD INTERMEDIATE

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	18.07				
Conductivity Field	UMHO	94	89.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.96				
DO % Saturation	Percent	301	94.3				
pH Field	Std. Unit	400	7.35				
ORP	mV	90	417.5				
Turbidity, HACH	NTU	76	3.91				
Temp. Air	°C	20	—				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: BC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station: Station ECSW-2	Date: 2.11.20	Time of Grab Sample: 1100 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☒NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☒HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO_2	☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.89				
Conductivity Field	UMHO	94	100.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.24				
DO % Saturation	Percent	301	79.1				
pH Field	Std. Unit	400	7.11				
ORP	mV	90	404.3				
Turbidity, HACH	NTU	76	3.63				
Temp. Air	°C	20	~				
Secchi	Meters	78	VCB				
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67	~				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: RCFTM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-3	**Date** 2.11.20	Time of Grab Sample 12:10 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO2	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: FIELD DUP @ 12:15

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.49				
Conductivity Field	UMHO	94	89.3				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.47				
DO % Saturation	Percent	301	81.0				
pH Field	Std. Unit	400	7.00				
ORP	mV	90	254.5				
Turbidity, HACH	NTU	76	5.39				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: BC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-4	**Date** 2.11.20	Time of Grab Sample 13:00 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO_2	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	20.22				
Conductivity Field	UMHO	94	86.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.14				
DO % Saturation	Percent	301	78.7				
pH Field	Std. Unit	400	6.97				
ORP	mV	90	318.0				
Turbidity, HACH	NTU	76	7.11				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.55				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: BC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-5	**Date** 2, 11, 20	Time of Grab Sample 13:35 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS NO_2	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	21.30				
Conductivity Field	UMHO	94	87.5				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.07				
DO % Saturation	Percent	301	56.7				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	343.1				
Turbidity, HACH	NTU	76	2.82				
Temp. Air	°C	20	✓				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.47				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	100				

Sample Taken By: BC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-6	**Date** 2.11.20	Time of Grab Sample 14:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒P ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO3	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
- VEGETATION CLEARED
- BIOLOGICAL SHEEN

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	20.74				
Conductivity Field	UMHO	94	146.2				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.99				
DO % Saturation	Percent	301	55.6				
pH Field	Std. Unit	400	6.91				
ORP	mV	90	161.9				
Turbidity, HACH	NTU	76	3.16				
Temp. Air	°C	20	—				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.61				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: BC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-7	**Date** 2,11,20	Time of Grab Sample 15:00 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO_2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0,20				
Temp. Water	°C	10	20,92				
Conductivity Field	UMHO	94	219,3				
Salinity	PPTH	480	0,1				
DO Probe	mg/L	299	4,98				
DO % Saturation	Percent	301	55,6				
pH Field	Std. Unit	400	7,02				
ORP	mV	90	249,4				
Turbidity, HACH	NTU	76	4,89				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	,98				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: BC, TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-1	**Date** 5-12-2020	Time of Grab Sample 0920 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: Sonde	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: SMALL OUTBOARD ENGINE - PWC IN AREA RECENTLY

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.54				
Conductivity Field	UMHO	94	97.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	9.02				
DO % Saturation	Percent	301	105.2				
pH Field	Std. Unit	400	7.04				
ORP	mV	90	282.7				
Turbidity, HACH	NTU	76	3.95				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	50%				

Sample Taken By: DM+TM	Report Verified By:
Report Prepared By: DM+TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: Station ECSW-2	Date: 3.12.2020	Time of Grab Sample: 1045 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: Smart 2.11	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.79				
Conductivity Field	UMHO	94	105.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.60				
DO % Saturation	Percent	301	87.6				
pH Field	Std. Unit	400	7.14				
ORP	mV	90	309.4				
Turbidity, HACH	NTU	76	2.06				
Temp. Air	°C	20	—				
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	75				

Sample Taken By: DM TM	Report Verified By:
Report Prepared By: DM TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station **Station ECSW-3**		Date 3,18,20	Time of Grab Sample 11:30 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐ ☐ Gas Motor
Other:		Duplicate	☒	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
FD = 11:35 BOD: Intermed. Pace
Res: A. Intermed ESC

LOCATION
Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	21.85				
Conductivity Field	UMHO	94	89.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.73				
DO % Saturation	Percent	301	76.0				
pH Field	Std. Unit	400	7.11				
ORP	mV	90	299.7				
Turbidity, HACH	NTU	76	3.39				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	75				

Sample Taken By: TM / DM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-4	**Date** 3.18.2020	Time of Grab Sample 1320 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: Smart Troll	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: heavy truck traffic

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.09				
Conductivity Field	UMHO	94	87.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.12				
DO % Saturation	Percent	301	70.8				
pH Field	Std. Unit	400	7.09				
ORP	mV	90	372.9				
Turbidity, HACH	NTU	76	3.62				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	80				

Sample Taken By: DM TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-5	**Date** 3.18.20	Time of Grab Sample 14:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☐ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.32				
Conductivity Field	UMHO	94	80.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	4.36				
DO % Saturation	Percent	301	50.8				
pH Field	Std. Unit	400	6.78				
ORP	mV	90	303.6				
Turbidity, HACH	NTU	76	3.26				
Temp. Air	°C	20	—				
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	90				

Sample Taken By: DM + TM	Report Verified By:
Report Prepared By: DM + TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station **Station ECSW-6**	Date 3.18.20	Time of Grab Sample 1445 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.57				
Conductivity Field	UMHO	94	150.2				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.79				
DO % Saturation	Percent	301	55.0				
pH Field	Std. Unit	400	6.68				
ORP	mV	90	164.5				
Turbidity, HACH	NTU	76	3.31				
Temp. Air	°C	20	—				
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	90				

Sample Taken By: DM TM	Report Verified By:
Report Prepared By: DM TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-7	**Date** 3.18.20	Time of Grab Sample 15:55 CST 15:25

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☐TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.09				
Conductivity Field	UMHO	94	255.1				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.57				
DO % Saturation	Percent	301	52.1				
pH Field	Std. Unit	400	7.02				
ORP	mV	90	272.2				
Turbidity, HACH	NTU	76	7.29				
Temp. Air	°C	20	—				
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	60				

Sample Taken By: DM FTM	Report Verified By:
Report Prepared By: DM FTM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-1	**Date** 4.27.20	Time of Grab Sample 9:50 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
- LL Hg BLANK @ 10:00
- WQLM TSS INTERMEDIATE FOR NUTRIENTS/METALS
- PACE ANAYTICAL LL INTERMEDIATE FOR LL Hg, 8011, 8260, & TOC & 410.4 RED 52103

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.91				
Conductivity Field	UMHO	94	95.6				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.36				
DO % Saturation	Percent	301	98.1				
pH Field	Std. Unit	400	7.37				
ORP	mV	90	407.6				
Turbidity, HACH	NTU	76	2.89				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 4.27.20	Time of Grab Sample 11:00 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	22.61				
Conductivity Field	UMHO	94	103.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.80				
DO % Saturation	Percent	301	101.0				
pH Field	Std. Unit	400	6.86				
ORP	mV	90	494.9				
Turbidity, HACH	NTU	76	1.16				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.04				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: B. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station: Station ECSW-3	Date: 4.27.20	Time of Grab Sample: 12:00 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
- FD @ 12:05
- LL Hg dup @ 12:05
- BOD (5210B) INTERMEDIATE FOR LL Hg, 410.4, 8011, 8260
- WQLM TSS INTERMEDIATE FOR LL Hg dup

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	20.31				
Conductivity Field	UMHO	94	90.2				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.64				
DO % Saturation	Percent	301	72.8				
pH Field	Std. Unit	400	6.84				
ORP	mV	90	525.0				
Turbidity, HACH	NTU	76	2.01				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.30				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By:	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-4	**Date** 4.27.20	Time of Grab Sample 13:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: Resampled mercury 4-28-20 Due to lab accident

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	24.91				
Conductivity Field	UMHO	94	79.2				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.65				
DO % Saturation	Percent	301	67.9				
pH Field	Std. Unit	400	6.84				
ORP	mV	90	549.0				
Turbidity, HACH	NTU	76	2.23				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.63				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	5				

Sample Taken By: R.CUMMINS, T.MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-5	**Date** 4,27,20	Time of Grab Sample 14:25 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0,20				
Temp. Water	°C	10	22.79				
Conductivity Field	UMHO	94	71.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	1,87				
DO % Saturation	Percent	301	21,6				
pH Field	Std. Unit	400	6,41				
ORP	mV	90	596,1				
Turbidity, HACH	NTU	76	1,84				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0,71				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	5				

Sample Taken By: B.CUMMINS, T.MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-6	**Date** 4.27.20	Time of Grab Sample 15:10 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☑ <2 pH
Metals		☒HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	21.65				
Conductivity Field	UMHO	94	119.3				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	3.57				
DO % Saturation	Percent	301	40.4				
pH Field	Std. Unit	400	6.58				
ORP	mV	90	512.0				
Turbidity, HACH	NTU	76	1.85				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.77				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒ 0.20m ☐ Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** tms 7	**Date** 4.27.20	Time of Grab Sample 15:45 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	21.94				
Conductivity Field	UMHO	94	207.1				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	6.76				
DO % Saturation	Percent	301	76.8				
pH Field	Std. Unit	400	7.21				
ORP	mV	90	493.5				
Turbidity, HACH	NTU	76	5.65				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.86				
Tide Stage	Code	67	n/a				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	0				

Sample Taken By: B. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-1	**Date** 5.19.2020	Time of Grab Sample 0935 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☐	☐	Gas Motor
Other:		Duplicate ☒	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS 2.1 & 2.2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

- FD @ 0940
- LL Hg BLANK @ 0945
- BOD 5210B USED AS INTERMEDIATE FOR 5310B, 8011, 8260, 410.4, & LL Hg 1631
- TSS 2.1 USED AS INTERMEDIATE FOR ALL WQLM FD

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	26.000				
Conductivity Field	UMHO	94	91.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.99				
DO % Saturation	Percent	301	111.1				
pH Field	Std. Unit	400	7.50				
ORP	mV	90	374.9				
Turbidity, HACH	NTU	76	4.01				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 5,19,2020	Time of Grab Sample 10:50 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	24.58				
Conductivity Field	UMHO	94	93.3				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.14				
DO % Saturation	Percent	301	74.1				
pH Field	Std. Unit	400	6.69				
ORP	mV	90	545.9				
Turbidity, HACH	NTU	76	1.95				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.17				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	5				

Sample Taken By: R.CUMMINS, T.MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-3	**Date** 5.19.2020	Time of Grab Sample 11:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒ TKN ☒ TP ☒ NO2NO3 ☒ NH3 ☒ TOC ☐ Other:	☒ H2SO4 2ml ☒ ICE			☒ <2 pH
Metals		☒ HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Filtered Nutrients	☐ PO4 ☐ Field Filtered .45 um filter	☐ Ice			
All Other Samples unless otherwise noted	TSS	☒ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

- ~~IDS~~ tsm TSS INTERMEDIATE FOR WQLM NUTRIENTS & METALS
- BOD 5210B INTERMEDIATE FOR PACE 5310B, 8011, 8260, 410.4 & 1631

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.05				
Conductivity Field	UMHO	94	87.0				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.13				
DO % Saturation	Percent	301	71.9				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	428.4				
Turbidity, HACH	NTU	76	2.70				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.35				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	5				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-4	**Date** 5.19.2020	Time of Grab Sample 13:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☐HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	26.00				
Conductivity Field	UMHO	94	81.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.29				
DO % Saturation	Percent	301	65.5				
pH Field	Std. Unit	400	6.68				
ORP	mV	90	608.6				
Turbidity, HACH	NTU	76					
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-5	**Date** 5.19.2020	Time of Grab Sample 13:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.11				
Conductivity Field	UMHO	94	74.8				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	1.04				
DO % Saturation	Percent	301	12.3				
pH Field	Std. Unit	400	6.18				
ORP	mV	90	576.0				
Turbidity, HACH	NTU	76	2.18				
Temp. Air	°C	20					
Secchi	Meters	78	<1.01				
Water Depth, Max	Meters	82903	1.01				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	25				

Sample Taken By: R.CUMMINS, T.MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-6	**Date** 5.19.2020	Time of Grab Sample 14:35 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

LOCATION

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	23.46				
Conductivity Field	UMHO	94	135.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	3.03				
DO % Saturation	Percent	301	35.8				
pH Field	Std. Unit	400	6.66				
ORP	mV	90	556.8				
Turbidity, HACH	NTU	76	2.08				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.92				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	70				

Sample Taken By: R.CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ~~8~~ ECSW-7	**Date** 5.19.2020	Time of Grab Sample CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

- WIDESPREAD BIOSHEEN

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	25.22				
Conductivity Field	UMHO	94	219.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	6.52				
DO % Saturation	Percent	301	79.8				
pH Field	Std. Unit	400	7.18				
ORP	mV	90	499.8				
Turbidity, HACH	NTU	76	5.19				
Temp. Air	°C	20					
Secchi	Meters	78	<0.81				
Water Depth, Max	Meters	82903	0.81				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	50				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-1	**Date** 6.15.2020	Time of Grab Sample 10:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☒	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☐ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTPOLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
- LL Hg BLANK @ 10:10 TID 19112490
- PACE IL BOD USED AS INTERMEDIATE FOR PACE LL Hg, 8011, 8260, 5310B, 410.4 & WQLM METALS/NUTRIENTS
- TDS 1.1 INTERMEDIATE FOR FIELD DUP (WQLM) NUTRIENTS/METALS/NO_2/PACE LL Hg DUP
- FIELD DUP @ 10:05
- JET SKI IN AREA

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.89				
Conductivity Field	UMHO	94	91.4				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.24				
DO % Saturation	Percent	301	108.0				
pH Field	Std. Unit	400	7.41				
ORP	mV	90	380.6				
Turbidity, HACH	NTU	76	3.98				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	5				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 6.15.20	Time of Grab Sample 11:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: TID 19112490

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.72				
Conductivity Field	UMHO	94	118.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	7.54				
DO % Saturation	Percent	301	97.2				
pH Field	Std. Unit	400	6.81				
ORP	mV	90	405.7				
Turbidity, HACH	NTU	76	1.46				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.02				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	5				

Sample Taken By: R.CUMMINS, T.MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency: 21FLESC	Station: Station ECSW-3	Date: 6.15.2020	Time of Grab Sample: 12:45 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:
- PACE 1L BOD USED AS INTERMEDIATE FOR LL Hg, 8260, 8011, 5310B, 410.4
- TSS INTERMEDIATE FOR WQLM NUTRIENTS & METALS

TID 19112490

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.05				
Conductivity Field	UMHO	94	87.0				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.13				
DO % Saturation	Percent	301	71.9				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	428.4				
Turbidity, HACH	NTU	76	3.61				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	20				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station **Station ECSW-4**	Date 6.15.2020	Time of Grab Sample 13:35 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml ☒ICE			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: TID 19112490

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.37				
Conductivity Field	UMHO	94	93.7				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	4.45				
DO % Saturation	Percent	301	59.0				
pH Field	Std. Unit	400	6.67				
ORP	mV	90	352.2				
Turbidity, HACH	NTU	76	3.36				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.42				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	20				

Sample Taken By: R.CUMMINS T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-5	**Date** 6.15.2020	Time of Grab Sample 14:10 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: TID 19112490

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.07				
Conductivity Field	UMHO	94	87.5				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	0.72				
DO % Saturation	Percent	301	9.5				
pH Field	Std. Unit	400	6.16				
ORP	mV	90	115.3				
Turbidity, HACH	NTU	76	4.46				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.75				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	20				

Sample Taken By: R.CUMMINS, T.MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station: Station ECSW-6	Date: 6.15.2020	Time of Grab Sample: 14:55 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒TCE			☒ <2 pH
Metals		☐HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: TID 19112490

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.04				
Conductivity Field	UMHO	94	113.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	2.41				
DO % Saturation	Percent	301	29.7				
pH Field	Std. Unit	400	6.48				
ORP	mV	90	250.6				
Turbidity, HACH	NTU	76	3.88				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.79				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	20				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-7	**Date** 6.15.2020	Time of Grab Sample 15:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☐HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: SMARTROLL	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks: TID 19112490

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.33				
Conductivity Field	UMHO	94	171.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	6.69				
DO % Saturation	Percent	301	84.2				
pH Field	Std. Unit	400	6.93				
ORP	mV	90	347.8				
Turbidity, HACH	NTU	76	8.99				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	10				

Sample Taken By: B. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☐
Agency: 21FLESC	Station: Station ECSW-1	Date: 7.14.2020	Time of Grab Sample: 10:10 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☒	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☒	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS,	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT600 537460	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:
- 5210B INTERMEDIATE USED FOR ALL PACE SAMPLE BOTTLES.
- TSS 2.1 USED FOR WQLM NUTRIENTS AND METALS
- TSS DUP BOTTLE USED FOR WQLM NUTRIENTS AND METALS DUPS AS WELL AS PACE LLHg DUP. 10:20
- FIELD DUP @ 10:15 • EQUIP BLANK @ 10:15

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	33.44				
Conductivity Field	UMHO	94	85.19				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.26				
DO % Saturation	Percent	301	115.59				
pH Field	Std. Unit	400	7.27				
ORP	mV	90	167.68				
Turbidity, HACH	NTU	76	2.86				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	20				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-2	**Date** 7.14.2020	Time of Grab Sample 11:25 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml ☒ICE			☐ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 600 537460	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	~~29.8~~ 29.09				
Conductivity Field	UMHO	94	102.15				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	7.29				
DO % Saturation	Percent	301	93.36				
pH Field	Std. Unit	400	6.25				
ORP	mV	90	169.97				
Turbidity, HACH	NTU	76	1.26				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-3	**Date** 7.14.2020	Time of Grab Sample 12:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT600 537460	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks: • 5210B USED AS INTERMEDIATE FOR ALL PACE SAMPLES

• TSS USED AS INTERMEDIATE FOR WQLM NUTRIENTS AND METALS

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98					
Temp. Water	°C	10	29.10				
Conductivity Field	UMHO	94	90.69				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	4.99				
DO % Saturation	Percent	301	64.83				
pH Field	Std. Unit	400	6.38				
ORP	mV	90	161.96				
Turbidity, HACH	NTU	76	2.62				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	60				

Sample Taken By: RJTM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-4	**Date** 7.14.2020	Time of Grab Sample 13:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 600 537460	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	32.39				
Conductivity Field	UMHO	94	58.26				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	3.53				
DO % Saturation	Percent	301	48.06				
pH Field	Std. Unit	400	6.32				
ORP	mV	90	66.22				
Turbidity, HACH	NTU	76	3.57				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	40				

Sample Taken By: RCTM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** Station ECSW-5	**Date** 7.14.2020	Time of Grab Sample 13:55 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT600 537460	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	32.11				
Conductivity Field	UMHO	94	59.03				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	0.59				
DO % Saturation	Percent	301	8.03				
pH Field	Std. Unit	400	5.98				
ORP	mV	90	138.99				
Turbidity, HACH	NTU	76	2.72				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	20				

Sample Taken By: RCTJM	Report Verified By:
Report Prepared By: TJM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ECSW 6	**Date** 7,14,2020	Time of Grab Sample 14:30 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT600 537460	**Equipmt Used:** Sample Container ☐ Pole ☒NA Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0,2				
Temp. Water	°C	10	28,65				
Conductivity Field	UMHO	94	34,37				
Salinity	PPTH	480	0,01				
DO Probe	mg/L	299	2,94				
DO % Saturation	Percent	301	36,97				
pH Field	Std. Unit	400	6,30				
ORP	mV	90	62,17				
Turbidity, HACH	NTU	76	2,14				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1,1				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	20				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ECSW-7 X 7	**Date** 7.14.2020	Time of Grab Sample 15:00 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: AT600 537460	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ~~AQT~~ tm 19112490	☐ Field Cleaned

Remarks:
• LIGHT RAIN

LOCATION
Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.48				
Conductivity Field	UMHO	94	111.77				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	4.10				
DO % Saturation	Percent	301	53.12				
pH Field	Std. Unit	400	6.70				
ORP	mV	90	195.65				
Turbidity, HACH	NTU	76	5.84				
Temp. Air	°C	20					
Secchi	Meters	78	0.6				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	20				

Sample Taken By: BLr TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 8/12/20	Time of Grab Sample 9:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒Ice ☐H2SO4 2ml			☑ <2 pH
Metals		☒HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19/12490 ☐ Field Cleaned

Remarks:
DO @ 10':10
LLHg Blank @ 10:15
ULHg DUP @ 10:10

LOCATION
Crescent Lake @ Dam
EC SW-1
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.73				
Conductivity Field	UMHO	94	82.34				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.78				
DO % Saturation	Percent	301	90.53				
pH Field	Std. Unit	400	6.77			J	
ORP	mV	90	300.65				
Turbidity, HACH	NTU	76	3.50				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	10				

Sample Taken By: D. Morton, A. McLaurin	Report Verified By:
Report Prepared By: A. McLaurin	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: CRESCENTLAKE20	Date: 6/12/20	Time of Grab Sample: 11:20 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☒Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 191249C ☐ Field Cleaned

Remarks:

LOCATION

Crescent Lake West Branch @ Golf Cart Bridge

EC SM-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.12				
Conductivity Field	UMHO	94	58.55				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.31				
DO % Saturation	Percent	301	91.67				
pH Field	Std. Unit	400	6.68			J	
ORP	mV	90	305.58				
Turbidity, HACH	NTU	76	9.99				
Temp. Air	°C	20					
Secchi	Meters	78	0.65				
Water Depth, Max	Meters	82903	1.1				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	75				

Sample Taken By: D. Martin, A. McLean	Report Verified By:
Report Prepared By: A. McLean	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station MARCUSCRKW203		Date 8/12/20	Time of Grab Sample 12:45 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☐TOC ☐Other:	☑Ice ☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 191/2490 ☐ Field Cleaned

Remarks: Direct Grab

LOCATION

Bayou Marcus Creek West Branch @ Marcus Pointe Blvd.

EC Sta-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.01				
Conductivity Field	UMHO	94	96.34				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.67				
DO % Saturation	Percent	301	71.0				
pH Field	Std. Unit	400	6.58			J	
ORP	mV	90	255.1				
Turbidity, HACH	NTU	76	13.7				
Temp. Air	°C	20					
Secchi	Meters	78	VOA				
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	20				

Sample Taken By: D. Morton, A. McCarver	Report Verified By:
Report Prepared By: A. McCarver	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency: 21FLESC	Station: MARCUSCRKW340	Date: 8/2/00	Time of Grab Sample: 11:45 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑Ice ☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 500	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19/2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Longleaf Rd.

FC SW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.54				
Conductivity Field	UMHO	94	84.45				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.21				
DO % Saturation	Percent	301	68.26				
pH Field	Std. Unit	400	6.47			J	
ORP	mV	90	284.42				
Turbidity, HACH	NTU	76	17.9				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	10				

Sample Taken By: D. Morton, A. McCarver	Report Verified By:
Report Prepared By: A. McCarver	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKW50	Date 8/12/20	Time of Grab Sample 14:30	CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☑Other:	☑Ice ☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500	**Equipmt Used:** Sample Container ☐ Pole ☑A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 191124490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

EC SW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.42				
Conductivity Field	UMHO	94	65.04				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	0.68				
DO % Saturation	Percent	301	8.70				
pH Field	Std. Unit	400	6.04			J	
ORP	mV	90	259.46				
Turbidity, HACH	NTU	76	2.75				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.0				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	20				

Sample Taken By: D. Morton, A. McCamey	Report Verified By:
Report Prepared By: A. McCamey	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency: 21FLESC	Station: MARCUSCRKE10	Date: 5/12/26	Time of Grab Sample: 15:10 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☑	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑Ice ☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.

EC SU-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.36				
Conductivity Field	UMHO	94	85.71				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	4.69				
DO % Saturation	Percent	301	58.14				
pH Field	Std. Unit	400	6.41			J	
ORP	mV	90	214.7				
Turbidity, HACH	NTU	76	3.68				
Temp. Air	°C	20					
Secchi	Meters	78	VOS				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	10				

Sample Taken By: D. Morton, A. Melanson	Report Verified By:
Report Prepared By: A. Melanson	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency: 21FLESC	Station: MARCUSCRKE20	Date: 8/12/20	Time of Grab Sample: 15:45 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☑ <2 pH
Metals		☒HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

EC SU-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.31				
Conductivity Field	UMHO	94	102.7				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	4.17				
DO % Saturation	Percent	301	52.6				
pH Field	Std. Unit	400	6.73			J	
ORP	mV	90	225.4				
Turbidity, HACH	NTU	76	12.0				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	10				

Sample Taken By: O. Morton, A. McCune	Report Verified By:
Report Prepared By: A. McCune	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 9/30/20	Time of Grab Sample 10:05 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☒	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒N Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 20120505 ☐ Field Cleaned

Remarks: FD @ 10:15
LL Hg bmp @ 10:05
LL Hg Blank @ 10:20

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	25.34				
Conductivity Field	UMHO	94	108.69				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	9.85				
DO % Saturation	Percent	301	119.19				
pH Field	Std. Unit	400	7.43				
ORP	mV	90	\	246.19		J	
Turbidity, HACH	NTU	76	3.31				
Temp. Air	°C	20					
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: D. Morton, M. O'Toole, A. McCrum	Report Verified By:
Report Prepared By: D. McCrum	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 9/30/16	Time of Grab Sample 11:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☑ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: ATSCG 738999	**Equipmt Used:** Sample Container ☐ Pole ☒N/A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 20120605 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.75				
Conductivity Field	UMHO	94	99.60				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.70				
DO % Saturation	Percent	301	83.03				
pH Field	Std. Unit	400	6.37				
ORP	mV	90	261.93 -K.P.			J	
Turbidity, HACH	NTU	76	2.22				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.15				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: D. Morgan, M. O'Toole, A. McCranie	Report Verified By:
Report Prepared By: A. McCranie	( ) CHANGE

ESCWQLM
Water Quality Report Form MARCUSCRK 20

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** ok MARCUSCRKW20	**Date** 9/30/20	Time of Grab Sample 12:30 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☐H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 738991	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 20120502 5 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.
Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	31.49				
Conductivity Field	UMHO	94	10285				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.39				
DO % Saturation	Percent	301	71.98				
pH Field	Std. Unit	400	6.38				
ORP	mV	90	156.37 -K.P.			J	
Turbidity, HACH	NTU	76	3.98				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.4				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	0				

Sample Taken By: D. Morton, A. McClaren, M. O'Toole	Report Verified By:
Report Prepared By: A. McClaren	( ) CHANGE

ESCWQLM MARCUSCRKW30

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ok ~~MARCUSCRKW30~~	**Date** 9/30/20	Time of Grab Sample 13:20 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 20120 5065 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.55				
Conductivity Field	UMHO	94	89.70				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.63				
DO % Saturation	Percent	301	66.07				
pH Field	Std. Unit	400	6.24				
ORP	mV	90	180.54 -K.P			J	
Turbidity, HACH	NTU	76	6.35				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	0				

Sample Taken By: D. Morton, A. McCarver, M. O'Toole	Report Verified By:
Report Prepared By: A. McCarver	( ) CHANGE

ESCWQLM
Water Quality Report Form MARCUSCRKW50

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** ok MARCUSCRKW50	**Date** 9/30/26	Time of Grab Sample 13:55 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AT500 738499	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 201205065 ☐ Field Cleaned

Remarks:

LOCATION
Bayou Marcus Cr. Upper West Branch
@ Rolling Hills Rd.
Station ECSW-5
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	25.37				
Conductivity Field	UMHO	94	73.32				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	3.54				
DO % Saturation	Percent	301	43.44				
pH Field	Std. Unit	400	5.87				
ORP	mV	90	222.07 -K.P.			J	
Turbidity, HACH	NTU	76	1.62				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: D. Mottor, A. McLaurer, M. O'Toole	Report Verified By:
Report Prepared By: A. McLaurer	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 9/30/26	Time of Grab Sample 14:40 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: DISCO 738999	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 20120505 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.06				
Conductivity Field	UMHO	94	184.39				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.12				
DO % Saturation	Percent	301	47.07				
pH Field	Std. Unit	400	6.54				
ORP	mV	90	71.86 -K.P.			J	
Turbidity, HACH	NTU	76	16.83				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	0				

Sample Taken By: B. Mosher, A. McClure, M.O 'Toole	Report Verified By:
Report Prepared By: A. McClure	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 9/30/20	Time of Grab Sample 15:10 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: ATS00 738999	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 20120608 5 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.29				
Conductivity Field	UMHO	94	266.73				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.09				
DO % Saturation	Percent	301	48.8				
pH Field	Std. Unit	400	6.84				
ORP	mV	90	183.11 -K.P.			J	
Turbidity, HACH	NTU	76	37.07				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	0				

Sample Taken By: D. Morton, A. McCarter, M. O'Toole	Report Verified By:
Report Prepared By: A. McCarter	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 10.21.2020	Time of Grab Sample 9:30 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS,	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490	☐ Field Cleaned

Remarks:
- TSS USED AS INTERMEDIATES FOR WQLM METALS, NUTRIENTS RESPECTIVELY
- BOD USED AS INTERMEDIATE FOR PACE LLHg & ALL 40mL VIALS + 250mL NH3
- WQLM TSS USED AS INTERMEDIATE FOR PACE LLHg DUP → BLANK @ 9:45
- FIELD DUP @ 9:35 • LLHg DUP @ 9:40 • LLHg

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

RECORDED: CRESCENT LAKE10

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.59				
Conductivity Field	UMHO	94	93.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.19				
DO % Saturation	Percent	301	85.84				
pH Field	Std. Unit	400	6.89				
ORP	mV	90	228.16 -K.P.				
Turbidity, HACH	NTU	76	3.86				
Temp. Air	°C	20					
Secchi	Meters	78	VOID				
Water Depth, Max	Meters	82903	0.35				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: Station ECSW-2	Date: 10.21.2020	Time of Grab Sample: 10:50 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

- SLIGHT BIOLOGICAL SHEEN
- RECORDED UNDER "GOLF CART BRIDGE"
- "CRESENTLAKE20"

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.26				
Conductivity Field	UMHO	94	99.3				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	3.58				
DO % Saturation	Percent	301	41.72				
pH Field	Std. Unit	400	6.36				
ORP	mV	90	264.26 -K.P.				
Turbidity, HACH	NTU	76	2.80				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.17				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station **Station ECSW-3**	Date 10.21.2020	Time of Grab Sample 11:25 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:
- TSS USED AS INTERMEDIATE FOR WQLM NUTRIENTS & METALS
- BOD INTERMEDIATE FOR ALL PACE SAMPLES

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

- RECORDED UNDER: "MARCUSBAY30"

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.91				
Conductivity Field	UMHO	94	103.2				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.36				
DO % Saturation	Percent	301	73.69				
pH Field	Std. Unit	400	6.66				
ORP	mV	90	121.31 -K.P.				
Turbidity, HACH	NTU	76	3.09				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	20				

Sample Taken By: RC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 10.21.2020	Time of Grab Sample 12:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☑	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml ☑ICE			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 7389999	**Equipmt Used:** Sample Container ☐ Pole ☑NA Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490	☐ Field Cleaned

Remarks:

• RECORDED UNDER: "MARCUSBAY40"

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.93				
Conductivity Field	UMHO	94	87.2				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.42				
DO % Saturation	Percent	301	77.4				
pH Field	Std. Unit	400	6.59				
ORP	mV	90	190.87 -K.P.				
Turbidity, HACH	NTU	76	3.84				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.51				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	30				

Sample Taken By: BC + TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW50	Date: 10.21.2020	Time of Grab Sample: 13:30 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

RECORDED UNDER: "MARCUSBAY50"

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.52				
Conductivity Field	UMHO	94	86.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	1.86				
DO % Saturation	Percent	301	21.49				
pH Field	Std. Unit	400	6.14				
ORP	mV	90	231.93 -K.P.				
Turbidity, HACH	NTU	76	2.07				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.50				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	15				

Sample Taken By: BC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 10.21.2020	Time of Grab Sample 14:10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

RECORDED UNDER "MARCUS PT BLVD WEST" "MARCUSCR10"

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.72				
Conductivity Field	UMHO	94	152.6				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.13				
DO % Saturation	Percent	301	48.84				
pH Field	Std. Unit	400	6.64				
ORP	mV	90	81.24 -K.P.				
Turbidity, HACH	NTU	76	3.67				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.81				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	30				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20		**Date** 10.21.2020	Time of Grab Sample 14:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490	☐ Field Cleaned

Remarks:

RECORDED UNDER "GOLF CART XING" "MARCUSCR200"

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.14				
Conductivity Field	UMHO	94	211.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	2.85				
DO % Saturation	Percent	301	33.88				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	146.31 -K.P.				
Turbidity, HACH	NTU	76	8.84				
Temp. Air	°C	20					
Secchi	Meters	78	<1.03				
Water Depth, Max	Meters	82903	1.03				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	40				

Sample Taken By: RC+TM	Report Verified By:
Report Prepared By: ~~RC~~ TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 11.10.2020	Time of Grab Sample 09:45 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:
- FIELD DUPLICATE + LLHg DUP @ 9:50
- LLHg BLANK @ 9:55
- 1L CROD INTERMEDIATE FOR ALL PACE PRESERVED SAMPLES
- 1LTSS FOR ALL WQLM PRESERVED SAMPLES + LLHg DUP

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.28				
Conductivity Field	UMHO	94	94.67				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.16				
DO % Saturation	Percent	301	107.45				
pH Field	Std. Unit	400	7.08				
ORP	mV	90	201.36				
Turbidity, HACH	NTU	76	3.45				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.25				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: R.CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 11.10.2020	Time of Grab Sample 11:00 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:
- BIOLOGICAL SHEEN

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.26				
Conductivity Field	UMHO	94	102.30				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	5.39				
DO % Saturation	Percent	301	63.22				
pH Field	Std. Unit	400	6.39				
ORP	mV	90	234.82				
Turbidity, HACH	NTU	76	2.50				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.0				MEASURED W/ SECCHI
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

Marcus ck W 30

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** Station ECSW-3	**Date** 11.10.2020	Time of Grab Sample 11:50 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

- 1 L CROD INTERMEDIATE FOR ALL PACE PRESERVED SAMPLES
- 1 L TSS INTERMEDIATE FOR ALL WQLM PRESERVED SAMPLES.

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.81				
Conductivity Field	UMHO	94	89.74				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.47				
DO % Saturation	Percent	301	75.33				
pH Field	Std. Unit	400	6.52				
ORP	mV	90	126.11				
Turbidity, HACH	NTU	76	1.90				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.36				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW30 40	**Date** 11.10.2020	Time of Grab Sample 13:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☑ <2 pH
Metals		☐HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.49				
Conductivity Field	UMHO	94	84.58				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.38				
DO % Saturation	Percent	301	75.38				
pH Field	Std. Unit	400	6.47				
ORP	mV	90	183.15				
Turbidity, HACH	NTU	76	2.65				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.55				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	95				

Sample Taken By: R. CUMMINS T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 11.10.2020	Time of Grab Sample 13:55 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.73				
Conductivity Field	UMHO	94	102.04				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	1.76				
DO % Saturation	Percent	301	20.59				
pH Field	Std. Unit	400	6.24				
ORP	mV	90	231.16				
Turbidity, HACH	NTU	76	1.62				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.75				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	75				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 11.10.2020	Time of Grab Sample 14:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.19				
Conductivity Field	UMHO	94	152.54				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	4.02				
DO % Saturation	Percent	301	47.27				
pH Field	Std. Unit	400	6.58				
ORP	mV	90	78.98				
Turbidity, HACH	NTU	76	3.28				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.85				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	75				

Sample Taken By: R.CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 11.10.2020	Time of Grab Sample 15:25 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒PCE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.97				
Conductivity Field	UMHO	94	~~222.47~~ from	222.31			
Salinity	PPTH	480	0.11				
DO Probe	mg/L	299	2.53				
DO % Saturation	Percent	301	~~30.05~~ from	30.15			
pH Field	Std. Unit	400	6.84				
ORP	mV	90	78.11				
Turbidity, HACH	NTU	76	7.63				
Temp. Air	°C	20					
Secchi	Meters	78	<0.88				
Water Depth, Max	Meters	82903	0.88				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	50				

Sample Taken By: R. CUMMINS, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station CRESCENTLAKE10	Date 12.09.2020	Time of Grab Sample 10:15 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks: • FIELD DUPLICATE @ 10:20 CST • 1L PACE BOD INTERMEDIATE FOR ALL PACE SAMPLES • FIELD BLANK @ 10:25 • WQLM TSS INTERMEDIATE FOR ALL PRESERVED WQLM SAMPLES & DUPLICATES

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	14.38				
Conductivity Field	UMHO	94	91.2				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	9.36				
DO % Saturation	Percent	301	90.78				
pH Field	Std. Unit	400	7.01				
ORP	mV	90	185.78				
Turbidity, HACH	NTU	76	3.79				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.33				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, K. SAINATA	Report Verified By:
Report Prepared By: T. MELONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station CRESCENTLAKE20	Date 12.09.2020	Time of Grab Sample 11:25 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☒	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 7388999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:
- WATER LEVEL VERY LOW

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.56				
Conductivity Field	UMHO	94	95.2				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.70				
DO % Saturation	Percent	301	86.63				
pH Field	Std. Unit	400	6.52				
ORP	mV	90	159.74				
Turbidity, HACH	NTU	76	3.02				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.33				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, K. SAINATA	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station MARCUSCRKW20	Date 12.09.2020	Time of Grab Sample 12:20 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks:
- RECORDED AS "MARCUSBAY30 MARCUS POINT WEST"
- 1 L BOD INTERMEDIATE FOR ALL PACE SAMPLES
- WQLM TSS INTERMEDIATE FOR NUTS + METALS

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	12.05				
Conductivity Field	UMHO	94	85.1				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	9.24				
DO % Saturation	Percent	301	85.30				
pH Field	Std. Unit	400	6.49				
ORP	mV	90	146.65				
Turbidity, HACH	NTU	76	2.55				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.36				
Tide Stage	Code	67	~~NA~~				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, K. SPINATA	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKW30	Date 12.09.2020	Time of Grab Sample 14:15 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☑	Marine Sed	☐	Other ☐	On Shore ☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 9112490 ☐ Field Cleaned

Remarks: • RECORDED AS "MARCUS BAY 40 LONGLEAF RD"

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	14.23				
Conductivity Field	UMHO	94	79.0				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	8.90				
DO % Saturation	Percent	301	86.38				
pH Field	Std. Unit	400	6.55				
ORP	mV	90	159.89				
Turbidity, HACH	NTU	76	2.54				
Temp. Air	°C	20					
Secchi	Meters	78	VOD				
Water Depth, Max	Meters	82903	0.58				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, K. SAINATA	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 12.09.2020	Time of Grab Sample 14:50 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☑	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml ☑ICE			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks: RECORDED AS "MARCUSBAY50 ROLLING HILLS RD"

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	12.77				
Conductivity Field	UMHO	94	82.9				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.49				
DO % Saturation	Percent	301	51.65				
pH Field	Std. Unit	400	6.17				
ORP	mV	90	183.34				
Turbidity, HACH	NTU	76	1.00				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.67				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, K. SAINATA	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 12.09.2020	Time of Grab Sample 15:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT600 735999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks: RECORDED AS "MARCUSCRIK MARCUS POINT BLVD"

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	13.90				
Conductivity Field	UMHO	94	136.8				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	6.93				
DO % Saturation	Percent	301	66.82				
pH Field	Std. Unit	400	6.63				
ORP	mV	90	110.14				
Turbidity, HACH	NTU	76	2.42				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.78				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, K. SAINATA	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 12.09.2020	Time of Grab Sample 16:10 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 19112490 ☐ Field Cleaned

Remarks: RECORDED AS MARCUSCR2D GOLF CART XING

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	13.31				
Conductivity Field	UMHO	94	164.1				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	5.91				
DO % Saturation	Percent	301	56.28				
pH Field	Std. Unit	400	6.95				
ORP	mV	90	114.26				
Turbidity, HACH	NTU	76	4.15				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.95				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: R. CUMMINS, K. SAINATA	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 1/13/2021	Time of Grab Sample 1100 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

lake level extremely low

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	11.15				
Conductivity Field	UMHO	94	93.14				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.87				
DO % Saturation	Percent	301	89.09				
pH Field	Std. Unit	400	6.91				
ORP	mV	90	170.42				
Turbidity, HACH	NTU	76	4.00				
Temp. Air	°C	20	~~V.O.B~~				
Secchi	Meters	78	V.O.B				
Water Depth, Max	Meters	82903	1				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0%				
Cloud Cover	Percent	32	20%				

Sample Taken By: OM	Report Verified By:
Report Prepared By: K3	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 6/13/2021	Time of Grab Sample 1230 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☐TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: Water level is extremely low. One bottle looked dirty. Walked to edge of creek below bridge (NO2)

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	13.67				
Conductivity Field	UMHO	94	100.94				
Salinity	PPTH	480	0.047				
DO Probe	mg/L	299	9.8				
DO % Saturation	Percent	301	93.85				
pH Field	Std. Unit	400	6.311				
ORP	mV	90	132.82				
Turbidity, HACH	NTU	76	2.41				
Temp. Air	°C	20					
Secchi	Meters	78	V.U.B				
Water Depth, Max	Meters	82903	1.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	5%				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 1/13/21	Time of Grab Sample 1410 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☑	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☑	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

B.O.D bottle was the intermediate.

(meter data in marcuscrkE10 file)

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	10.65				
Conductivity Field	UMHO	94	83.88				
Salinity	PPTH	480	0.038				
DO Probe	mg/L	299	10.17				
DO % Saturation	Percent	301	91.05				
pH Field	Std. Unit	400	6.56				
ORP	mV	90	124.96				
Turbidity, HACH	NTU	76	1.68				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B				
Water Depth, Max	Meters	82903	0.36				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100%				
Cloud Cover	Percent	32	0%				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKW30	Date 1/13/21	Time of Grab Sample 1450 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☑	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 7384999	**Equipmt Used:** Sample Container ☐ Pole ☑B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	12.38				
Conductivity Field	UMHO	94	80.26				
Salinity	PPTH	480	0.037				
DO Probe	mg/L	299	9.76				
DO % Saturation	Percent	301	90.89				
pH Field	Std. Unit	400	6.62				
ORP	mV	90	121.23				
Turbidity, HACH	NTU	76	2.24				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B				
Water Depth, Max	Meters	82903	0.71				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	70%				
Cloud Cover	Percent	32	0%				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 1/13/21	Time of Grab Sample 1530 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	11.40				
Conductivity Field	UMHO	94	91.7				
Salinity	PPTH	480	0.042				
DO Probe	mg/L	299	7.91				
DO % Saturation	Percent	301	72.18				
pH Field	Std. Unit	400	6.47				
ORP	mV	90	132.26				
Turbidity, HACH	NTU	76	1.55				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.2				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	10%				
Cloud Cover	Percent	32	0%				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 1/13/21	Time of Grab Sample 1625 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738959	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	11.54				
Conductivity Field	UMHO	94	146.01				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	7.74				
DO % Saturation	Percent	301	70.6				
pH Field	Std. Unit	400	6.72				
ORP	mV	90	92.27				
Turbidity, HACH	NTU	76	2.30				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.71				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	>0%				
Cloud Cover	Percent	32	0%				

Sample Taken By: DM	Report Verified By:
Report Prepared By: JAS	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKE20	Date 1-13-2021	Time of Grab Sample 1700	CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☒	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☒	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☐E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 738799	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

Field Dup 1705

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	9.5				
Conductivity Field	UMHO	94	211.34				
Salinity	PPTH	480	0.099				
DO Probe	mg/L	299	7.8				
DO % Saturation	Percent	301	67.85				
pH Field	Std. Unit	400	7.04				
ORP	mV	90	128.6				
Turbidity, HACH	NTU	76	4.35				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	1.5				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	70				
Cloud Cover	Percent	32	0				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 2/24/21	Time of Grab Sample 915 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	16.35				
Conductivity Field	UMHO	94	58.10				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.70				
DO % Saturation	Percent	301	98.22				
pH Field	Std. Unit	400	6.72				
ORP	mV	90	190.75				
Turbidity, HACH	NTU	76	5.00				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.40				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: KS	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 2/24/21	Time of Grab Sample 1030 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☑	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☑	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: 738944	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	16.58				
Conductivity Field	UMHO	94	9>14				
Salinity	PPTH	480	0.64				
DO Probe	mg/L	299	8.72				
DO % Saturation	Percent	301	88.61				
pH Field	Std. Unit	400	6.22				
ORP	mV	90	124.93				
Turbidity, HACH	NTU	76	2.34				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKW20	Date 2/24/21	Time of Grab Sample 1130 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☑ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 7358949	**Equipmt Used:** Sample Container ☑ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks: B.O.D. is the intermediate bottle

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	14.20				
Conductivity Field	UMHO	94	82.31				
Salinity	PPTH	480	0.038				
DO Probe	mg/L	299	8.84				
DO % Saturation	Percent	301	85.57				
pH Field	Std. Unit	400	6.44				
ORP	mV	90	95.88				
Turbidity, HACH	NTU	76	2.91				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.46				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	90				
Cloud Cover	Percent	32	0				

Sample Taken By: D.M	Report Verified By:
Report Prepared By: LS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKW30	Date 2/24/21	Time of Grab Sample 1225 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 7389999	**Equipmt Used:** Sample Container ☐ Pole ☑B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	15.74				
Conductivity Field	UMHO	94	81.98				
Salinity	PPTH	480	0.037				
DO Probe	mg/L	299	8.37				
DO % Saturation	Percent	301	83.98				
pH Field	Std. Unit	400	6.40				
ORP	mV	90	87.31				
Turbidity, HACH	NTU	76	3.66				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.63				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	60				
Cloud Cover	Percent	32	0				

Sample Taken By: DM	Report Verified By:
Report Prepared By: LS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 2/24/21	Time of Grab Sample 1310 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☑	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: Field duplicate here

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	16.79				
Conductivity Field	UMHO	94	95.55				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.6				
DO % Saturation	Percent	301	57.56				
pH Field	Std. Unit	400	6.19				
ORP	mV	90	48.58				
Turbidity, HACH	NTU	76	1.99				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.68				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 2/24/21	Time of Grab Sample 1410 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	16.91				
Conductivity Field	UMHO	94	145.29				
Salinity	PPTH	480	0.068				
DO Probe	mg/L	299	7.10				
DO % Saturation	Percent	301	73.05				
pH Field	Std. Unit	400	6.54				
ORP	mV	90	62.75				
Turbidity, HACH	NTU	76	2.68				
Temp. Air	°C	20					
Secchi	Meters	78	S.O.B.				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	60				
Cloud Cover	Percent	32	0				

Sample Taken By: BS	Report Verified By:
Report Prepared By: BS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 2/24/21	Time of Grab Sample 1455 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☑	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☐ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	17.99				
Conductivity Field	UMHO	94	17.98				
Salinity	PPTH	480	0.084				
DO Probe	mg/L	299	6.28				
DO % Saturation	Percent	301	66.12				
pH Field	Std. Unit	400	6.79				
ORP	mV	90	58.52				
Turbidity, HACH	NTU	76	5.35				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM	Report Verified By:
Report Prepared By: KS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 3-23-2021	Time of Grab Sample 1020 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ~~2450~~ KP ☐ Field Cleaned

Remarks: SW 1 sample was checked @ SW 2

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.92				
Conductivity Field	UMHO	94	92.08				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.35				
DO % Saturation	Percent	301	102.55				
pH Field	Std. Unit	400	6.75				
ORP	mV	90	164.40 -K.P.				
Turbidity, HACH	NTU	76	3.18				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.45				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: TM, NW, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 3-23-2021	Time of Grab Sample 1145 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☐H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ~~2245~~ KP	☐ Field Cleaned

Remarks: Biological sheen

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.91				
Conductivity Field	UMHO	94	98.48				
Salinity	PPTH	480	0.046				
DO Probe	mg/L	299	7.83				
DO % Saturation	Percent	301	85.93				
pH Field	Std. Unit	400	6.25				
ORP	mV	90	104.84 -K.P.				
Turbidity, HACH	NTU	76	2.28				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.47				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	100				

Sample Taken By: TM, KP, NW	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station MARCUSCRKW20	Date 3-23-21	Time of Grab Sample 1230 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☒H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☒ Pole ☒ KP Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ☐ Field Cleaned

Remarks: Field duplicate @ 1235

1 Liter cBOD - intermediate for TA Samples

TSS intermediates for W&LM sample & duplicate

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.15				
Conductivity Field	UMHO	94	82.43				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	7.25				
DO % Saturation	Percent	301	78.44				
pH Field	Std. Unit	400	6.45				
ORP	mV	90	78.16 -K.P.				
Turbidity, HACH	NTU	76	1.74				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.27				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	90				
Cloud Cover	Percent	32	100				

Sample Taken By: TM, NW, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 3-23-2021	Time of Grab Sample 1410 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num:	738999	**Equipmt Used:**	Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	5065 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.31				
Conductivity Field	UMHO	94	83.82				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	6.78				
DO % Saturation	Percent	301	73.86				
pH Field	Std. Unit	400	6.42				
ORP	mV	90	141.76 -K.P.				
Turbidity, HACH	NTU	76	2.44				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.68				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	V				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: TM, NW, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 3-23-2021	Time of Grab Sample 1440 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.95				
Conductivity Field	UMHO	94	65.93				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	6.38				
DO % Saturation	Percent	301	70.45				
pH Field	Std. Unit	400	6.09				
ORP	mV	90	126.94 -K.P.				
Turbidity, HACH	NTU	76	1.44				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.64				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	30				
Cloud Cover	Percent	32	100				

Sample Taken By: TM, LP, NW	Report Verified By:
Report Prepared By: LP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 3-23-2021	Time of Grab Sample 1510 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 7389999	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065	☐ Field Cleaned

Remarks: Biological sheen

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.72				
Conductivity Field	UMHO	94	158.89				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	5.92				
DO % Saturation	Percent	301	65.04				
pH Field	Std. Unit	400	6.55				
ORP	mV	90	54.56 -K.P.				
Turbidity, HACH	NTU	76	1.98				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.64				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	100				

Sample Taken By: TM, NW, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKE20	Date 3-23-2021	Time of Grab Sample 1545 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ☐ Field Cleaned

Remarks: Biological sheen

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	20.12				
Conductivity Field	UMHO	94	229.47				
Salinity	PPTH	480	0.10				
DO Probe	mg/L	299	6.19				
DO % Saturation	Percent	301	68.6				
pH Field	Std. Unit	400	6.94				
ORP	mV	90	84.20 -K.P.				
Turbidity, HACH	NTU	76	4.84				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.74				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: TM, MW, ICP	Report Verified By:
Report Prepared By: ICP	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** CRESCENTLAKE10		**Date** 4.21.2021	Time of Grab Sample 10:05 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: F83933	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:
- FD@ 10:10 CST
- FB@ 10:15 CST
- 1L CBOD INTERMEDIATE FOR ALL T.A. VOAS & NH3
- TSS INTERMEDIATES FOR WQLM SAMPLE & DUP
- STRONG WINDS OUT OF NORTH

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

- WATER LEVEL RETURNED TO NORMAL

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.06				
Conductivity Field	UMHO	94	79.31				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.65				
DO % Saturation	Percent	301	85.4				
pH Field	Std. Unit	400	6.75				
ORP	mV	90	211.4				
Turbidity, HACH	NTU	76	6.15				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.95				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: D. MORTON, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 4.21.2021	Time of Grab Sample 11:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ D Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:
- WATER LEVEL RETURNED TO NORMAL

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.13				
Conductivity Field	UMHO	94	97.96				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	6.06				
DO % Saturation	Percent	301	67.8				
pH Field	Std. Unit	400	6.27				
ORP	mV	90	192.2				
Turbidity, HACH	NTU	76	2.75				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.19				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: D. MORTON, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 4.21.2021	Time of Grab Sample 12:35 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:
- CBOD INTERMEDIATE FOR T.A. SAMPLES
- TSS INTERMEDIATE FOR WQLM PRESERVED SAMPLES

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.04				
Conductivity Field	UMHO	94	82.04				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.30				
DO % Saturation	Percent	301	80.0				
pH Field	Std. Unit	400	6.38				
ORP	mV	90	130.0				
Turbidity, HACH	NTU	76	2.73				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.34				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By: D. MORTON, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 4.21.2021	Time of Grab Sample 13:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒ TKN ☒ TP ☒ NO2NO3 ☒ NH3 ☒ TOC ☐ Other:	☒ H2SO4 2ml ☒ ICE			☒ <2 pH
Metals		☒ HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Filtered Nutrients	☐ PO4 ☐ Field Filtered .45 um filter	☐ Ice			
All Other Samples unless otherwise noted	TSS	☒ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: F83933	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.32				
Conductivity Field	UMHO	94	92.34				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	4.83				
DO % Saturation	Percent	301	55.4				
pH Field	Std. Unit	400	6.36				
ORP	mV	90	177.0				
Turbidity, HACH	NTU	76	6.33				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.8			METER	
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: D. MORTON, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 4.21.2021	Time of Grab Sample 14:25 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.51				
Conductivity Field	UMHO	94	74.11				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	6.46				
DO % Saturation	Percent	301	77.3				
pH Field	Std. Unit	400	6.31				
ORP	mV	90	164.9				
Turbidity, HACH	NTU	76	1.57				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: D. MORTON, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 4.21.2021	Time of Grab Sample 15:10 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐				

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.78				
Conductivity Field	UMHO	94	152.5				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	6.11				
DO % Saturation	Percent	301	69.4				
pH Field	Std. Unit	400	6.60				
ORP	mV	90	95.3				
Turbidity, HACH	NTU	76	3.55				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.81			METER	
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	5				

Sample Taken By: D. MORTON, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 4.21.2021	Time of Grab Sample 15:50 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ 3 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: Turbidity done 4-26-21 from NO_2 Bottle

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.33				
Conductivity Field	UMHO	94	211.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.83				
DO % Saturation	Percent	301	56.5				
pH Field	Std. Unit	400	6.85				
ORP	mV	90	93.8				
Turbidity, HACH	NTU	76	8.33			J	
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.79				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	0				

Sample Taken By: D. MORTON, T. MOLONY	Report Verified By:
Report Prepared By: T. MOLONY	( ) CHANGE

ESCWQLM

Water Quality Report Form

RC

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 5.18.21	Time of Grab Sample 9:35 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☒	FW Sed	☐	Shellfish	☐	Wading ☒	☐	Canoe
Waste Water	☐	Trip Blank ☒	Marine Sed	☐	Other	☐	On Shore ☐	☐	Gas Motor
Other:		Duplicate ☒	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 500 RENTAL 783933	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:
- Field Duplicate @ 9:40
- Field BLANK @ 9:55
- TSS USED AS INTERMEDIATE FOR Nutrients & METALS
- CBOD USED FOR T.A.
- VOA VIALS.

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.82				
Conductivity Field	UMHO	94	81.20				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.28				
DO % Saturation	Percent	301	97.23				
pH Field	Std. Unit	400	6.65				
ORP	mV	90	203.23				
Turbidity, HACH	NTU	76	4.84				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.3	METER			
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	95				

Sample Taken By: NW + RC	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 5.18.21	Time of Grab Sample 10:50 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.61				
Conductivity Field	UMHO	94	94.11				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.57				
DO % Saturation	Percent	301	77.07				
pH Field	Std. Unit	400	6.48				
ORP	mV	90	206.19				
Turbidity, HACH	NTU	76	~~30~~ 3.60 NW				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	1.13				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	95				

Sample Taken By: NW + RC	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

RC

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 5.18.21	Time of Grab Sample 11:50 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☐	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 7839333	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:

- TSS USED AS INTERMEDIATE FOR NUTRIENTS
- CBOD USED AS INTERMEDIATE FOR T.A. VOA VIALS.

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.
Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.89				
Conductivity Field	UMHO	94	91.83				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.13				
DO % Saturation	Percent	301	70.85				
pH Field	Std. Unit	400	6.56				
ORP	mV	90	177.52				
Turbidity, HACH	NTU	76	2.97				
Temp. Air	°C	20					
Secchi	Meters	78	V013				
Water Depth, Max	Meters	82903	0.39	METER			
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	95				

Sample Taken By: RC + NW	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 5.18.21	Time of Grab Sample 12:55 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:
- Heavy Truck Traffic

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.69				
Conductivity Field	UMHO	94	88.28				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	4.57				
DO % Saturation	Percent	301	53.66				
pH Field	Std. Unit	400	6.35				
ORP	mV	90	158.86				
Turbidity, HACH	NTU	76	5.87				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.63	METER			
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: NW + RC	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 5.18.21	Time of Grab Sample 13:35 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 500 1783933	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.19				
Conductivity Field	UMHO	94	83.83				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	3.28				
DO % Saturation	Percent	301	37.56				
pH Field	Std. Unit	400	6.14				
ORP	mV	90	182.46				
Turbidity, HACH	NTU	76	1.78				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.65				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: NW + RC	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 5.18.21	Time of Grab Sample 14:15 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.08				
Conductivity Field	UMHO	94	16752				
Salinity	PPTH	480	0.08				
DO Probe	mg/L	299	5.35				
DO % Saturation	Percent	301	62.25				
pH Field	Std. Unit	400	6.74				
ORP	mV	90	100.30				
Turbidity, HACH	NTU	76	3.75				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.89	METER			
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	95				

Sample Taken By: NW + RC	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 5.18.21	Time of Grab Sample 1450 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AT 500 1783933	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☒ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.61				
Conductivity Field	UMHO	94	200.06				
Salinity	PPTH	480	0.11				
DO Probe	mg/L	299	4.18				
DO % Saturation	Percent	301	50.08				
pH Field	Std. Unit	400	6.89				
ORP	mV	90	113.75				
Turbidity, HACH	NTU	76	7.16				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	0.93	METER			
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	75				

Sample Taken By: MW + RC	Report Verified By:
Report Prepared By: MW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 6.22.21	Time of Grab Sample 10:10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Terrestrial	☐	Fish	☐	by Foot ☒	by Boat ☐
Ground Water	☐	FW Sed	☐	Shellfish	☐	Wading ☒	Canoe ☐
Waste Water	☐	Marine Sed	☐	Other	☐	On Shore ☐	Gas Motor ☐
Other:		Sludge	☐				
Equip Blank	☐						
Field Blank	☒						
Trip Blank	☒						
Duplicate	☒						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ D Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2440	☒ Field Cleaned

Remarks: •DIPPER :D USED AS INTERMEDIATE FOR ALL T.A. AND WQLM BOTTLES
• FD@ ~~12:15~~ 10:15 NW • Field BLANK @10:20 NW ~~12:20~~

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.95				
Conductivity Field	UMHO	94	60.94				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	6.25				
DO % Saturation	Percent	301	79.74				
pH Field	Std. Unit	400	6.66				
ORP	mV	90	293.64				
Turbidity, HACH	NTU	76	36.5				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	0.92				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	60				

Sample Taken By: NW + TM	Report Verified By:
Report Prepared By: NW + PS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 6.22.21	Time of Grab Sample 12:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT 500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ D Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.08				
Conductivity Field	UMHO	94	56.29				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	6.22				
DO % Saturation	Percent	301	78.19				
pH Field	Std. Unit	400	6.63				
ORP	mV	90	149.86				
Turbidity, HACH	NTU	76	16.8				
Temp. Air	°C	20					
Secchi	Meters	78	0.8				
Water Depth, Max	Meters	82903	1.24				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	60				

Sample Taken By: NW+TM+PS	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 6.22.21	Time of Grab Sample 13:05 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml ☒ICE			☒ <2 pH
Metals		☐HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT 500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ D Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

- WATER LEVEL HIGH
- SAMPLE TAKEN AT HIGHEST FLOW

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.
Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.80				
Conductivity Field	UMHO	94	59.08				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	6.29				
DO % Saturation	Percent	301	78.57				
pH Field	Std. Unit	400	6.68				
ORP	mV	90	149.9				
Turbidity, HACH	NTU	76	17.3				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	90				

Sample Taken By: NW+TM+PS	Report Verified By:
Report Prepared By: NW+TM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 6.22.21	Time of Grab Sample 14:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒D Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.94				
Conductivity Field	UMHO	94	62.37				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	5.93				
DO % Saturation	Percent	301	75.74				
pH Field	Std. Unit	400	6.55				
ORP	mV	90	120.24				
Turbidity, HACH	NTU	76	15.8				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	0.88				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	95				

Sample Taken By: NW+TM+PS	Report Verified By:
Report Prepared By: NW+PS	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 6.22.21	Time of Grab Sample 14:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT 500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ D Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☒ Field Cleaned

Remarks:
- HEAVY RAIN
- ONLY 44 READINGS ON AQUATROLL

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.19				
Conductivity Field	UMHO	94	64.87				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	5.18				
DO % Saturation	Percent	301	66.59				
pH Field	Std. Unit	400	6.39				
ORP	mV	90	174.4				
Turbidity, HACH	NTU	76	7.26				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	100				

Sample Taken By: NW+TM+PS	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 6.22.21	Time of Grab Sample 15:30 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: AT500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ P Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:
• ORP & SALINITY SWAP PLACES ON CSV.

LOCATION
Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	25.63				
Conductivity Field	UMHO	94	78.35				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.50				
DO % Saturation	Percent	301	67.70				
pH Field	Std. Unit	400	6.52				
ORP	mV	90	93.14				
Turbidity, HACH	NTU	76	4.61				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	0.91				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	100				

Sample Taken By: NW+TM+PS	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 6.22.21	Time of Grab Sample 16:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT 500 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ D Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☒ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.04				
Conductivity Field	UMHO	94	97.44				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	4.90				
DO % Saturation	Percent	301	61.59				
pH Field	Std. Unit	400	6.75				
ORP	mV	90	121.69				
Turbidity, HACH	NTU	76	68.3				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	0.82				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	75				

Sample Taken By: NW+TM+PS	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 7.14.21	Time of Grab Sample 10:30	CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☒	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO2	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 400	**Equipmt Used:** Sample Container ☐ Pole ☑B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065	☐ Field Cleaned

Remarks:

Field DUP @ 10:35
LLHg Blank @ 10:40

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.49				
Conductivity Field	UMHO	94	96.59				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.98				
DO % Saturation	Percent	301	118.88				
pH Field	Std. Unit	400	6.85				
ORP	mV	90					
Turbidity, HACH	NTU	76	5.84				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.57	METER			
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: NW + KP	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 7.14.21	Time of Grab Sample 11:50 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS NO3	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 400	**Equipmt Used:** Sample Container ☐ Pole ☒3 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	31.26				
Conductivity Field	UMHO	94	92.19				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.86				
DO % Saturation	Percent	301	105.0				
pH Field	Std. Unit	400	6.77				
ORP	mV	90					
Turbidity, HACH	NTU	76	5.06				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.35				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	50				

Sample Taken By: NW + ICP	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 7-14-21	Time of Grab Sample 12:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☑	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	FW Sed	☐	Shellfish	☐	Wading ☑	☐ Canoe
Waste Water	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ 5 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ~~2490~~ HP	☐ Field Cleaned

Remarks: Bod used as intermediate for voa vites. TSS used as intermediate for AlK & nutrients, metals.

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	28.17				
Conductivity Field	UMHO	94	83.37				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.51				
DO % Saturation	Percent	301	69.82				
pH Field	Std. Unit	400	6.52				
ORP	mV	90					
Turbidity, HACH	NTU	76	6.17				
Temp. Air	°C	20					
Secchi	Meters	78	J.0.13.				
Water Depth, Max	Meters	82903	0.35				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	50				

Sample Taken By: NW, HP	Report Verified By:
Report Prepared By: HP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW30	Date 7-14-21	Time of Grab Sample 13:25 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO2	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065	☐ Field Cleaned

Remarks:
- MICROBAG HAD A HOLE - CONTENTS WERE TRANSFERED INTO NEW/LABELED BAG.

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	30.4				
Conductivity Field	UMHO	94	74.47				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	5.87				
DO % Saturation	Percent	301	77.52				
pH Field	Std. Unit	400	6.4				
ORP	mV	90					
Turbidity, HACH	NTU	76	8.77				
Temp. Air	°C	20					
Secchi	Meters	78	V0.B.				
Water Depth, Max	Meters	82903	0.68				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	60				
Cloud Cover	Percent	32	60				

Sample Taken By: NW	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 7.14.21	Time of Grab Sample 14:14 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO2	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 4000 821852	**Equipmt Used:** Sample Container ☐ Pole ☒B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ☐ Field Cleaned

Remarks:
BIO SHEEN

LOCATION
Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.
Station ECSW-5
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.31				
Conductivity Field	UMHO	94	133.54				
Salinity	PPTH	480	0.06				
DO Probe	mg/L	299	1.08				
DO % Saturation	Percent	301	13.74				
pH Field	Std. Unit	400	6.33				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.76				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.98	METER			
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	35				

Sample Taken By: NW+KP	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 5-14-21	Time of Grab Sample 1455 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☑B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 56-KP	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	28.12				
Conductivity Field	UMHO	94	152.18				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	4.76				
DO % Saturation	Percent	301	60.3				
pH Field	Std. Unit	400	6.65				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.44				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.94				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	70				
Cloud Cover	Percent	32	90				

Sample Taken By: NW	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 7.14.21	Time of Grab Sample 15:35 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, NO2	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: AT 400 821852	**Equipmt Used:** Sample Container ☐ Pole ☒B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 5065 ☒ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.22				
Conductivity Field	UMHO	94	198.61				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	3.41				
DO % Saturation	Percent	301	44.86				
pH Field	Std. Unit	400	6.72				
ORP	mV	90					
Turbidity, HACH	NTU	76	11.00				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.82				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: NW + KP	Report Verified By:
Report Prepared By: NW	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 8.17.21	Time of Grab Sample 1015 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate ☒	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals	DM	☒HNO3 1ml			☐ <2 pH
Bacterial	☒Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ 13 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Rental 1454 ☐ Field Cleaned

Remarks: FD 1025

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.01				
Conductivity Field	UMHO	94	94.21				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.17				
DO % Saturation	Percent	301	108.08				
pH Field	Std. Unit	400	6.91				
ORP	mV	90	–				
Turbidity, HACH	NTU	76	4.91				
Temp. Air	°C	20					
Secchi	Meters	78	V0B				
Water Depth, Max	Meters	82903	0.43				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/RK	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 6.17.21	Time of Grab Sample 11:35 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐Enterrococcus ☐E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Rental 1454 ☐ Field Cleaned

Remarks:
- Water was 1-2 ft lower than normal
- Visible algae

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.47				
Conductivity Field	UMHO	94	97.53				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	7.12				
DO % Saturation	Percent	301	88.70				
pH Field	Std. Unit	400	6.59				
ORP	mV	90	–				
Turbidity, HACH	NTU	76	1.89				
Temp. Air	°C	20					
Secchi	Meters	78	VOID				
Water Depth, Max	Meters	82903	1.28				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	0				

Sample Taken By: DM / RR	Report Verified By:
Report Prepared By: RR	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 8.17.21	Time of Grab Sample 1315 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial ☐	Fish ☐		by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed ☐	Shellfish ☐		Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed ☐	Other ☐		On Shore ☐	☐ Gas Motor
Other:		Duplicate ☐	Sludge ☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 763933	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Rental 1454	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.38				
Conductivity Field	UMHO	94	98.28				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	5.95				
DO % Saturation	Percent	301	75.23				
pH Field	Std. Unit	400	6.78				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	3.25				
Temp. Air	°C	20					
Secchi	Meters	78	V013				
Water Depth, Max	Meters	82903	0.66				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	15				

Sample Taken By: RR/DM	Report Verified By:
Report Prepared By: RC	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 8.17.21	Time of Grab Sample 1425 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☒Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Rental 1454	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.74				
Conductivity Field	UMHO	94	79.84				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.42				
DO % Saturation	Percent	301	84.65				
pH Field	Std. Unit	400	6.56				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	10.9				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.65				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	15				

Sample Taken By: DM/RK	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 8.17.21	Time of Grab Sample 1505 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☒ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Rental 1454	☐ Field Cleaned

Remarks: New Beaver Dam, downstream levels have dropped 2 ft

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.90				
Conductivity Field	UMHO	94	71.5				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	5.11				
DO % Saturation	Percent	301	67.74				
pH Field	Std. Unit	400	6.22				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	2.64				
Temp. Air	°C	20					
Secchi	Meters	78	1013				
Water Depth, Max	Meters	82903	0.56				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	5				
Cloud Cover	Percent	32	25				

Sample Taken By: DM/RK	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE10	Date: 6.17.21	Time of Grab Sample: 1550 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☒ Enterrococcus DM ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 7839733	**Equipmt Used:** Sample Container ☐ Pole ☒13 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Rental 1454	☐ Field Cleaned

Remarks: FD-1555 (Micro only)

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.65				
Conductivity Field	UMHO	94	174.94				
Salinity	PPTH	480	0.08				
DO Probe	mg/L	299	4.36				
DO % Saturation	Percent	301	54.41				
pH Field	Std. Unit	400	6.75				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	2.26				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.91				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	40				

Sample Taken By: DM/RR	Report Verified By:
Report Prepared By: RR	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 8.17.21	Time of Grab Sample 1635 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☒ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Rental 1454 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.63				
Conductivity Field	UMHO	94	237.72				
Salinity	PPTH	480	0.11				
DO Probe	mg/L	299	2.31				
DO % Saturation	Percent	301	29.95				
pH Field	Std. Unit	400	6.79				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	9.17				
Temp. Air	°C	20					
Secchi	Meters	78	WOB				
Water Depth, Max	Meters	82903	0.95				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	40				

Sample Taken By: DM/RK	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 9/21/21	Time of Grab Sample 0910 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 1454	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.78				
Conductivity Field	UMHO	94	83.04				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.50				
DO % Saturation	Percent	301	94.98				
pH Field	Std. Unit	400	6.60				
~~ORP~~	~~mV~~	~~90~~					
Turbidity, HACH	NTU	76	3.92				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.69				
~~Tide Stage~~	~~Code~~	~~67~~					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0%				
Cloud Cover	Percent	32	60%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: RK, MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 9/21/21	Time of Grab Sample 10:10 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☑A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 1454 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.77				
Conductivity Field	UMHO	94	110.27				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	4.91				
DO % Saturation	Percent	301	61.11				
pH Field	Std. Unit	400	~~6.57~~ 6.57				
ORP	mV	90	MGD				
Turbidity, HACH	NTU	76	2.56	-			
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	1.86				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	10%				
Cloud Cover	Percent	32	60%				

Sample Taken By: RK, MGD	Report Verified By:
Report Prepared By: RK, MGD	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 9/21/21	Time of Grab Sample 11:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☑A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 1454 ☐ Field Cleaned

Remarks:
accidentally recorded in-situ field parameters under MARCUSCRKE10
Field Dup: 1105
Trip Blank: 1055

LOCATION
Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.
Station ECSW-3
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.37	~~26.37~~			
Conductivity Field	UMHO	94	98.51	~~98.51~~			
Salinity	PPTH	480	0.05	~~0.05~~ MGO			
DO Probe	mg/L	299	4.86	~~4.86~~			
DO % Saturation	Percent	301	60.0	~~60.0~~			
pH Field	Std. Unit	400	6.47	~~6.59~~			
ORP	mV	90	—				
Turbidity, HACH	NTU	76	5.31				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	0.52				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	75%				
Cloud Cover	Percent	32	60%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: RK, MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 9/21/21	Time of Grab Sample 1215 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☑	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☑	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☑A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 1454	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.89				
Conductivity Field	UMHO	94	80.25				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	4.92				
DO % Saturation	Percent	301	62.55				
pH Field	Std. Unit	400	6.38				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	6.84				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	0.71				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50%				
Cloud Cover	Percent	32	50%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: RK, MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 9/21/21	Time of Grab Sample 12:45 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☑A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 1454	☐ Field Cleaned

Remarks:

70-75% of water was covered by lily pads*

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	25.7				
Conductivity Field	UMHO	94	121.73				
Salinity	PPTH	480	0.06				
DO Probe	mg/L	299	1.31				
DO % Saturation	Percent	301	16.07				
pH Field	Std. Unit	400	6.22				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	2.10				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	1.09				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0% *				
Cloud Cover	Percent	32	80%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: RK, MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 9/21/21	Time of Grab Sample 13:30 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 1454 ☐ Field Cleaned

Remarks:
~~Chunky~~ biofilm/biosheen
MGO

LOCATION
Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.
Station ECSW-6
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	25.81				
Conductivity Field	UMHO	94	186.72				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	4.09				
DO % Saturation	Percent	301	50.16				
pH Field	Std. Unit	400	6.72				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	3.51				
Temp. Air	°C	20	—				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.83				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	65%				
Cloud Cover	Percent	32	95%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: RK, MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 9/21/21	Time of Grab Sample 14:15 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☑	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☑Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: 783933	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ☐ Field Cleaned

Remarks:

Heavy rain during sampling

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.94				
Conductivity Field	UMHO	94	236.00				
Salinity	PPTH	480	0.11				
DO Probe	mg/L	299	2.99				
DO % Saturation	Percent	301	37.60				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	11.4				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	0.89				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	~~20~~ Y				
Tree Canopy	Percent	83515	20%				
Cloud Cover	Percent	32	80%				

Sample Taken By:	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 11.02.21	Time of Grab Sample 9:35 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

~~210939~~ 21063321

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ~~0939~~ ~~2490~~ KP ☐ Field Cleaned

Remarks: Field duplicate @ 9:40
Field ~~dup~~ Blank @ 9:40

LOCATION
Bayou Marcus Crescent Lake Dam
ECSW-1
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.94				
Conductivity Field	UMHO	94	97.63				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	8.18				
DO % Saturation	Percent	301	88.84				
pH Field	Std. Unit	400	6.85				
ORP	mV	90	306.05				
Turbidity, HACH	NTU	76	2.81				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.86				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: RK, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 11.02.21	Time of Grab Sample 10:50 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num:	821852	**Equipmt Used:**	Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	2106 3321 ~~0939~~ ~~2490~~ ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.10				
Conductivity Field	UMHO	94	106.10				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	6.53				
DO % Saturation	Percent	301	70.0				
pH Field	Std. Unit	400	6.70				
ORP	mV	90	277.17				
Turbidity, HACH	NTU	76	2.66				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	QKP 1.36				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: RK, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 11.02.21	Time of Grab Sample 11:35 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☒ Pole ☒ KP Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ~~0939~~ 3321 ~~2440~~	☐ Field Cleaned

Remarks: CBOD used as intermediate for all preserved bottles.

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	18.10				
Conductivity Field	UMHO	94	97.28				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.52				
DO % Saturation	Percent	301	78-83				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	192.74				
Turbidity, HACH	NTU	76	3.62				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.70				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32					

Sample Taken By: RK, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 11.02.21	Time of Grab Sample 12:30 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ~~0939~~ 3321 ~~2490~~	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	20.46				
Conductivity Field	UMHO	94	74.28				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	8.27				
DO % Saturation	Percent	301	91.11				
pH Field	Std. Unit	400	6.72				
ORP	mV	90	250.5				
Turbidity, HACH	NTU	76	2.95				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B				
Water Depth, Max	Meters	82903	0.65				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	60%				
Cloud Cover	Percent	32	0%				

Sample Taken By: RK, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 11.02.21	Time of Grab Sample 13:10 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ~~0939~~ 3321 ~~2~~ KP	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.38				
Conductivity Field	UMHO	94	74.0				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	4.58				
DO % Saturation	Percent	301	49.42				
pH Field	Std. Unit	400	6.18				
ORP	mV	90	278.85				
Turbidity, HACH	NTU	76	2.50				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	1.0				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: KP, RK	Report Verified By:
Report Prepared By: LP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 11.02.21	Time of Grab Sample 13:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 0939	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	19.84				
Conductivity Field	UMHO	94	180.51				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	5.35				
DO % Saturation	Percent	301	58.17				
pH Field	Std. Unit	400	6.61				
ORP	mV	90	160.62				
Turbidity, HACH	NTU	76	2.76				
Temp. Air	°C	20					
Secchi	Meters	78	V.O.B.				
Water Depth, Max	Meters	82903	0.96				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	60				
Cloud Cover	Percent	32	0				

Sample Taken By: AL & KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 11.02.21	Time of Grab Sample 1435 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** ~~0939~~ 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	20.16				
Conductivity Field	UMHO	94	241.30				
Salinity	PPTH	480	0.11				
DO Probe	mg/L	299	3.53				
DO % Saturation	Percent	301	38.7				
pH Field	Std. Unit	400	6.76				
ORP	mV	90	123.38				
Turbidity, HACH	NTU	76	7.11				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.96				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: KK, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station CRESCENTLAKE10	Date 11/17/21	Time of Grab Sample 9:05 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐	by Boat
Ground Water	☐	Field Blank	☑	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml	INV210463-2		☑ <2 pH
Metals		☑HNO3 1ml	INV		☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☑ MGO Pole ☑ Pole A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 MGO ☑ Field Cleaned

Remarks: Field Dup @ 9:10 Pungent odor
Mercury Dup @ 9:15
Trip blank labeled
Film on water surface

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.35				
Conductivity Field	UMHO	94	103.44				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	8.92				
DO % Saturation	Percent	301	93.92				
pH Field	Std. Unit	400	6.61				
ORP	mV	90	184.37				
Turbidity, HACH	NTU	76	1.58				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.78				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: AK, MGO	Report Verified By:
Report Prepared By: MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 11/17/21	Time of Grab Sample 10:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ N/A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	MGO ☑ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.32				
Conductivity Field	UMHO	94	110.56				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	7.39				
DO % Saturation	Percent	301	77.86				
pH Field	Std. Unit	400	6.52				
ORP	mV	90	181.89				
Turbidity, HACH	NTU	76	1.62				
Temp. Air	°C	20	MGO				
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.73				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	10%				
Cloud Cover	Percent	32	5%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 11/17/21	Time of Grab Sample 11:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☑ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☑ MGO ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☑ Pole ☑ MGO Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	16.67				
Conductivity Field	UMHO	94	108.56				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	8.01				
DO % Saturation	Percent	301	81.62				
pH Field	Std. Unit	400	6.73				
ORP	mV	90	87.23				
Turbidity, HACH	NTU	76	3.55				
Temp. Air	°C	20					
Secchi	Meters	78	VOID				
Water Depth, Max	Meters	82903	0.47				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	70 o/o				
Cloud Cover	Percent	32	20 o/o				

Sample Taken By: BR, MGO	Report Verified By:
Report Prepared By: MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 11/17/21	Time of Grab Sample 12:05 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☑	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 MGO ☑ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.41				
Conductivity Field	UMHO	94	77.28				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.47				
DO % Saturation	Percent	301	91.40				
pH Field	Std. Unit	400	6.60				
ORP	mV	90	114.27				
Turbidity, HACH	NTU	76	2.33				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.58				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	40%				
Cloud Cover	Percent	32	40%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 11/17/21	Time of Grab Sample 12:35 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☑	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	16.91				
Conductivity Field	UMHO	94	82.88				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.03				
DO % Saturation	Percent	301	51.70				
pH Field	Std. Unit	400	6.09				
ORP	mV	90	139.93				
Turbidity, HACH	NTU	76	1.08				
Temp. Air	°C	20					
Secchi	Meters	78	VOID				
Water Depth, Max	Meters	82903	1.19				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0%				
Cloud Cover	Percent	32	35%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 11/17/21	Time of Grab Sample 13:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 738979	**Equipmt Used:** Sample Container ☐ Pole ☑A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.12				
Conductivity Field	UMHO	94	189.99				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	5.97				
DO % Saturation	Percent	301	62.83				
pH Field	Std. Unit	400	6.66				
ORP	mV	90	78.46				
Turbidity, HACH	NTU	76	2.27				
Temp. Air	°C	20					
Secchi	Meters	78	VOS				
Water Depth, Max	Meters	82903	0.87				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50%				
Cloud Cover	Percent	32	40%				

Sample Taken By: RK, MGO	Report Verified By:
Report Prepared By: MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 11/17/21	Time of Grab Sample 13:50 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☑	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 738999	**Equipmt Used:** Sample Container ☐ Pole ☑ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

Chunky biosheen

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.60				
Conductivity Field	UMHO	94	262.34				
Salinity	PPTH	480	0~~.13~~ mo 0.13				
DO Probe	mg/L	299	3.86				
DO % Saturation	Percent	301	41.07				
pH Field	Std. Unit	400	6.84				
ORP	mV	90	63.57				
Turbidity, HACH	NTU	76	5.76				
Temp. Air	°C	20					
Secchi	Meters	78	<				
Water Depth, Max	Meters	82903	0.83				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25%				
Cloud Cover	Percent	32	30%				

Sample Taken By: BK, MGO	Report Verified By:
Report Prepared By: MGO	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 12/8/4	Time of Grab Sample 9:35 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☒	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AT4CO ~~[illegible]~~ 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks: FD @ 9:45
LH, Blank @ 10:15
Raining during Sampling

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.81				
Conductivity Field	UMHO	94	104.5				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.96				
DO % Saturation	Percent	301	85.2				
pH Field	Std. Unit	400	6.60				
ORP	mV	90	200.5				
Turbidity, HACH	NTU	76	3.23				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: R. Kirby A. McGarver	Report Verified By:
Report Prepared By: A. McGarver	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 12/8/21	Time of Grab Sample 10:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: ~~621652~~ AA 738959	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 334 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.07				
Conductivity Field	UMHO	94	109.7				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.67				
DO % Saturation	Percent	301	61.1				
pH Field	Std. Unit	400	6.43				
ORP	mV	90	182.5				
Turbidity, HACH	NTU	76	1.81				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: K. Kirby, A. McGrew	Report Verified By:
Report Prepared By: A McGrew	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 12/4/21	Time of Grab Sample 11:35 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: ATS 738999	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.86				
Conductivity Field	UMHO	94	101.02				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.20				
DO % Saturation	Percent	301	77.1				
pH Field	Std. Unit	400	6.62				
ORP	mV	90	76.4				
Turbidity, HACH	NTU	76	4.09				
Temp. Air	°C	20					
Secchi	Meters	78	VCB				
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	40				
Cloud Cover	Percent	32	80				

Sample Taken By: R. Kirby, A. McCarter	Report Verified By:
Report Prepared By: A. McCarter	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☑0.20m ☐Other:	Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 12/8/21	Time of Grab Sample 12:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: AT500 738995	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.37				
Conductivity Field	UMHO	94	78.41				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.65				
DO % Saturation	Percent	301	82.9				
pH Field	Std. Unit	400	6.67				
ORP	mV	90	131.0				
Turbidity, HACH	NTU	76	3.02				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	70				

Sample Taken By: A. Kirby, A. McCosar	Report Verified By:
Report Prepared By: A. McCosar	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☑0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKW50	Date 12/8/21	Time of Grab Sample 12:50 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☑	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☑NH3 ☑TOC ☐Other:	☑H2SO4 2ml			☑ <2 pH
Metals		☑HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AT500 738499	**Equipmt Used:** Sample Container ☐ Pole ☑ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2	0.2			
Temp. Water	°C	10	18.95	19.05			
Conductivity Field	UMHO	94	74.4	73.8			
Salinity	PPTH	480	0.0	0.0			
DO Probe	mg/L	299	3.82	4.09			
DO % Saturation	Percent	301	Any	44.14			
pH Field	Std. Unit	400	6.17	6.17			
ORP	mV	90	154.7	160.06			
Turbidity, HACH	NTU	76	1.72				
Temp. Air	°C	20					
Secchi	Meters	78	~~0.0~~ < 1.1				
Water Depth, Max	Meters	82903	~~0.26~~ Any				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	100				

Sample Taken By: L. Kirby, A. McCarter	Report Verified By:
Report Prepared By: A. McCarter	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 12/8/21	Time of Grab Sample 13:30 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AT500 738999	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3324 ☐ Field Cleaned

Remarks:

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LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.08				
Conductivity Field	UMHO	94	182.6				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	5.48				
DO % Saturation	Percent	301	59.1				
pH Field	Std. Unit	400	6.65				
ORP	mV	90	82.6				
Turbidity, HACH	NTU	76	1.62				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	60				
Cloud Cover	Percent	32	90				

Sample Taken By: R. Kirby, A. McCarver	Report Verified By:
Report Prepared By: A. McCarver	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 12/8/21	Time of Grab Sample 14:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: YSI 556 734999	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:
Bioshem

LOCATION
Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.05				
Conductivity Field	UMHO	94	251.6				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.25				
DO % Saturation	Percent	301	45.9				
pH Field	Std. Unit	400	6.89				
ORP	mV	90	76.5				
Turbidity, HACH	NTU	76	5.62				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	90				

Sample Taken By: L. Kirby M. McCraw	Report Verified By:
Report Prepared By: A. McCraw	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 9/12/22	Time of Grab Sample 1105 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	11.48728				
Conductivity Field	UMHO	94	88.80138				
Salinity	PPTH	480	0.04109165				
DO Probe	mg/L	299	10.57029				
DO % Saturation	Percent	301	97.36015				
pH Field	Std. Unit	400	6.912487				
ORP	mV	90	200.1649				
Turbidity, HACH	NTU	76	1.37				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.878				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: DMK AM	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 01124122	Time of Grab Sample 11:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	11.57				
Conductivity Field	UMHO	94	95.14				
Salinity	PPTH	480	0.044				
DO Probe	mg/L	299	8.73				
DO % Saturation	Percent	301	79.84				
pH Field	Std. Unit	400	6.72				
ORP	mV	90	212.58				
Turbidity, HACH	NTU	76	1.38				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	1.27				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: DM/RK/AM	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 01/24/22	Time of Grab Sample 12:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	~~On Shore~~ ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ 4 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: Intermediate CBOD

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	9.36				
Conductivity Field	UMHO	94	85.22				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	10.30				
DO % Saturation	Percent	301	89.60				
pH Field	Std. Unit	400	6.73				
ORP	mV	90	157.52				
Turbidity, HACH	NTU	76	1.85				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	0.48				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	70				
Cloud Cover	Percent	32	80				

Sample Taken By: DM/RK/AM	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 01/24/22	Time of Grab Sample 12:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 824852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	11.25				
Conductivity Field	UMHO	94	69.54				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	10.48				
DO % Saturation	Percent	301	95.40				
pH Field	Std. Unit	400	6.85				
ORP	mV	90	186.93				
Turbidity, HACH	NTU	76	2.47				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	0.67				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	90				

Sample Taken By: DM/RK/HM	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 1/24/22	Time of Grab Sample 13:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ YA Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	9.96				
Conductivity Field	UMHO	94	60.87				
Salinity	PPTH	480	0.027				
DO Probe	mg/L	299	7.62				
DO % Saturation	Percent	301	67.31				
pH Field	Std. Unit	400	6.73				
ORP	mV	90	200.50				
Turbidity, HACH	NTU	76	1.26				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	1.32				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	30				
Cloud Cover	Percent	32	50				

Sample Taken By: DM/RK/AM	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 1/24/22	Time of Grab Sample 14:15 CST

(check as appropriate)		**Soils/Sediment**	**Tissue**	**Collection Mode**
Surface Water ☒	Equip Blank ☐	Terrestrial ☐	Fish ☐	by Foot ☐ ☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 321852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	12.12				
Conductivity Field	UMHO	94	155.74				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	8.16				
DO % Saturation	Percent	301	75.88				
pH Field	Std. Unit	400	6.72				
ORP	mV	90	142.18				
Turbidity, HACH	NTU	76	1.62				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	0.95				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	40				
Cloud Cover	Percent	32	50				

Sample Taken By: DM/RK/AM	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 1/24/22	Time of Grab Sample 14:45 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ 4A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: Biological Sheen

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	11.88				
Conductivity Field	UMHO	94	215.79				
Salinity	PPTH	480	0.10				
DO Probe	mg/L	299	7.24				
DO % Saturation	Percent	301	66.93				
pH Field	Std. Unit	400	6.85				
ORP	mV	90	121.33				
Turbidity, HACH	NTU	76	4.73				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	0.88				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	50				

Sample Taken By: DM/RK/AM	Report Verified By:
Report Prepared By:	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station CRESCENTLAKE10	Date 2.9.22	Time of Grab Sample 0935 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank ☒	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 921952	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	13.94				
Conductivity Field	UMHO	94	94.70				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.63				
DO % Saturation	Percent	301	94.41				
pH Field	Std. Unit	400	6.93				
ORP	mV	90	182.72				
Turbidity, HACH	NTU	76	2.89				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.69				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/AM/RK	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 2.9.22	Time of Grab Sample 1040 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 421452	**Equipmt Used:** Sample Container ☐ Pole ☒ 3 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.7				
Temp. Water	°C	10	13.26				
Conductivity Field	UMHO	94	106.44				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	7.94				
DO % Saturation	Percent	301	75.20				
pH Field	Std. Unit	400	6.77				
ORP	mV	90	183.06				
Turbidity, HACH	NTU	76	2.15				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.37				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	0				

Sample Taken By: RK/DM/AM	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 2.9.22	Time of Grab Sample 1020 RR CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☒	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
		☒HNO3 1ml			☒ <2 pH
Metals		☒Ice			
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted					

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821457	**Equipmt Used:** Sample Container ☒ Pole ☒ 8m Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	11.00				
Conductivity Field	UMHO	94	98.13				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	9.77				
DO % Saturation	Percent	301	87.84				
pH Field	Std. Unit	400	6.71				
ORP	mV	90	152.92				
Turbidity, HACH	NTU	76	2.83				
Temp. Air	°C	20					
Secchi	Meters	78	VOID				
Water Depth, Max	Meters	82903	0.53				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	√				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	0				

Sample Taken By: RR 10m AM

Report Prepared By: RR

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 2.9.22	Time of Grab Sample 1210 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
		☒HNO3 1ml			☒ <2 pH
Metals					
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821452	**Equipmt Used:** Sample Container ☐ Pole ☐ 15 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	13.66				
Conductivity Field	UMHO	94	60.12				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	92.14 DO				
DO % Saturation	Percent	301	9.63				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	150.00				
Turbidity, HACH	NTU	76	3.00				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.72				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	0				

Sample Taken By: DM | AM | RK

Report Prepared By: RK

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW50	Date 2.9.22	Time of Grab Sample 1235 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	by Boat ☐
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	Canoe ☐
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	Gas Motor ☐
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 921852	**Equipmt Used:** Sample Container ☐ Pole ☒ 3 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	11.64				
Conductivity Field	UMHO	94	80.61				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.31				
DO % Saturation	Percent	301	66.99				
pH Field	Std. Unit	400	6.49				
ORP	mV	90	171.52				
Turbidity, HACH	NTU	76	1.48				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	1.09				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/RK AM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 07.09.22	Time of Grab Sample 1315 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	by Boat ☐
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	Canoe ☐
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	Gas Motor ☐
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821452	**Equipmt Used:** Sample Container ☐ Pole ☒ 13 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2496 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	13.81				
Conductivity Field	UMHO	94	163.67				
Salinity	PPTH	480	0.08				
DO Probe	mg/L	299	8.08				
DO % Saturation	Percent	301	77.63				
pH Field	Std. Unit	400	13.81				
ORP	mV	90	8.08				
Turbidity, HACH	NTU	76	2.41				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.85				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

pH = 6.66 SU
ORP = 119.71

Sample Taken By: DM/RK/AM	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKE20	Date 02.09.22	Time of Grab Sample 1345 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☒TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 7496 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	14.4				
Conductivity Field	UMHO	94	220.89				
Salinity	PPTH	480	0.10				
DO Probe	mg/L	299	6.85				
DO % Saturation	Percent	301	66.5				
pH Field	Std. Unit	400	6.87				
ORP	mV	90	121.65				
Turbidity, HACH	NTU	76	5.16				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.76				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	0				

Sample Taken By: RK/DM/AM	Report Verified By:
Report Prepared By: RK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 3.22.2022	Time of Grab Sample 1045 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.57				
Conductivity Field	UMHO	94	96.24				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.27				
DO % Saturation	Percent	301	103.24				
pH Field	Std. Unit	400	7.24				
ORP	mV	90	214.88				
Turbidity, HACH	NTU	76	2.17				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	.73				
Tide Stage	Code	67	1				
Precipitation (24hr)	Inches	45	1				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: DM, MK	Report Verified By:
Report Prepared By: DM, KP	( ) CHANGE

3/30/22

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 5.22.2022	Time of Grab Sample 1200 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	by Boat ☐
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	Canoe ☐
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	Gas Motor ☐
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☐TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ 3 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.83				
Conductivity Field	UMHO	94	98.01				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	8.86				
DO % Saturation	Percent	301	97.2 KP				
pH Field	Std. Unit	400	7.22				
ORP	mV	90	206.6				
Turbidity, HACH	NTU	76	1.97				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.0				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	\				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: DM, MC	Report Verified By:
Report Prepared By: DM, KP 3/30/22	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 3.22.2022	Time of Grab Sample 1320 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	.2				
Temp. Water	°C	10	19.60				
Conductivity Field	UMHO	94	81.26				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.23				
DO % Saturation	Percent	301	80.0				
pH Field	Std. Unit	400	7.03				
ORP	mV	90	172.81				
Turbidity, HACH	NTU	76	2,47				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.70				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	\				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: DM \ MK	Report Verified By:
Report Prepared By: DM, KP 3/30/22	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW30	Date: 3-30-2022	Time of Grab Sample: 1420 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☐	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.13				
Conductivity Field	UMHO	94	78.31				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.80				
DO % Saturation	Percent	301	86.30				
pH Field	Std. Unit	400	6.94				
ORP	mV	90	174.10				
Turbidity, HACH	NTU	76	5.11				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.70				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/MK	Report Verified By:
Report Prepared By: DM, KP 3/30/22	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 3.22.2022	Time of Grab Sample 1605 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.60				
Conductivity Field	UMHO	94	106.14				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	4.07				
DO % Saturation	Percent	301	44.60				
pH Field	Std. Unit	400	6.57				
ORP	mV	90	185.0				
Turbidity, HACH	NTU	76	1.51				
Temp. Air	°C	20					
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67	↑				
Precipitation (24hr)	Inches	45	↓				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/MK	Report Verified By:
Report Prepared By: DM, KP	( ) CHANGE

↓ 3/30/22

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKE10	Date 3.22.2022	Time of Grab Sample 1555 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.48 20.8				
Conductivity Field	UMHO	94	154.03				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	5.73				
DO % Saturation	Percent	301	63.20				
pH Field	Std. Unit	400	6.62				
ORP	mV	90	107.30				
Turbidity, HACH	NTU	76	1.71				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	.78				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By: DM/MK	Report Verified By:
Report Prepared By: DM, KP 3/30/22	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 3.22.2022	Time of Grab Sample 1640 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	155	☒☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: 821252	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.20				
Conductivity Field	UMHO	94	222.02				
Salinity	PPTH	480	0.11				
DO Probe	mg/L	299	4.78				
DO % Saturation	Percent	301	53.0				
pH Field	Std. Unit	400	6.90				
ORP	mV	90	109.54				
Turbidity, HACH	NTU	76	3.58				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.0				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/MK	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: CRESCENTLAKE10	Date: 4/19/2022	Time of Grab Sample: 10:10 CST

(check as appropriate)				Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☒ N/A	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☒	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	Eurofins BOD & NH3	☒Ice	✓ <2pH		
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐		AGP ☐

Meter ID Num: 021852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Pole A	☒ Field Cleaned

Remarks:
Turb SN: 2490
Second gate had No locks and was open.

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.7				
Conductivity Field	UMHO	94	90.8				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.65				
DO % Saturation	Percent	301	99.3				
pH Field	Std. Unit	400	7.4				
ORP	mV	90	245.8				
Turbidity, HACH	NTU	76	2.5				
Temp. Air	°C	20	–				
Secchi	Meters	78	–				
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	–				
Tree Canopy	Percent	83515	–				
Cloud Cover	Percent	32	–				

Sample Taken By: KP JM MK	Report Verified By:
Report Prepared By: MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 4/19/22	Time of Grab Sample 1240 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted + Eurofins BOD NH_3		☒Ice	✓ pH<2		
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 82 1852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Pole A ☐ Field Cleaned

Remarks: Turb: 2490

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	23.1				
Conductivity Field	UMHO	94	93.7				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.90				
DO % Saturation	Percent	301	103.0				
pH Field	Std. Unit	400	7.1				
ORP	mV	90	171.7				
Turbidity, HACH	NTU	76	3.02				
Temp. Air	°C	20	–				
Secchi	Meters	78	–				
Water Depth, Max	Meters	82903	1.3				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	–				
Tree Canopy	Percent	83515	–				
Cloud Cover	Percent	32	–				

Sample Taken By: KP JM MK	Report Verified By:
Report Prepared By: MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 4/19/22	Time of Grab Sample 1345 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted + Eurofins BOD TNH3		☒Ice	v pH <2		
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 521952	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Pole A	☒ Field Cleaned

Remarks: Turb SN: 2490

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.
Station ECSW-3

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.3				
Conductivity Field	UMHO	94	53.5				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.12				
DO % Saturation	Percent	301	79.7				
pH Field	Std. Unit	400	6.9				
ORP	mV	90	153.9				
Turbidity, HACH	NTU	76	3.40				
Temp. Air	°C	20	–				
Secchi	Meters	78	–				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	–				
Tree Canopy	Percent	83515	–				
Cloud Cover	Percent	32	–				

Sample Taken By: KP JM MK	Report Verified By:
Report Prepared By: MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 4/19/22	Time of Grab Sample 1435 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted + Eurofins BOD NH3		☒Ice	√ pH<2		
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Pole A ☒ Field Cleaned

Remarks: Turb SN: 2490

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.2				
Conductivity Field	UMHO	94	78.59				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.64				
DO % Saturation	Percent	301	90.43				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	188.3				
Turbidity, HACH	NTU	76	6.50				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	—				
Tree Canopy	Percent	83515	—				
Cloud Cover	Percent	32	—				

Sample Taken By: KP JM MK	Report Verified By:
Report Prepared By: MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 4/19/22	Time of Grab Sample 1510 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals	☒	☑HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	EDTA Fins NH3 & BOD	☒Ice	pH<2		
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐		AGP ☐

Meter ID Num: 621852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Pole A ☒ Field Cleaned

Remarks: TWD SN: 2490

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	24.3				
Conductivity Field	UMHO	94	73.9				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	4.30				
DO % Saturation	Percent	301	~~4.30~~ 53.7				
pH Field	Std. Unit	400	6.53				
ORP	mV	90	196.6				
Turbidity, HACH	NTU	76	2.42				
Temp. Air	°C	20	–				
Secchi	Meters	78	–				
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	–				
Tree Canopy	Percent	83515	–				
Cloud Cover	Percent	32	–				

Sample Taken By: KP JM MK	Report Verified By:
Report Prepared By: MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 4/19/22	Time of Grab Sample 11 10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted + Eurofins BOD + NH3		☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

✓ pH <2

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** PDR A ☑ Field Cleaned

Remarks: Turb ## : 2490

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.9				
Conductivity Field	UMHO	94	138.6				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	5.57				
DO % Saturation	Percent	301	66.6				
pH Field	Std. Unit	400	7.0				
ORP	mV	90	138.0				
Turbidity, HACH	NTU	76	2.09				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	—				
Tree Canopy	Percent	83515	—				
Cloud Cover	Percent	32	—				

Sample Taken By: KP JM MK	Report Verified By:
Report Prepared By: MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 4/19/22	Time of Grab Sample 1150 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	+ Eurofins BOD NH3	☒Ice	V pH<2		
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 621852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** Pole A ☒ Field Cleaned

Remarks: Turb SN: 2490

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.3				
Conductivity Field	UMHO	94	186.3				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	4.39				
DO % Saturation	Percent	301	48.2				
pH Field	Std. Unit	400	7.0				
ORP	mV	90	146.7				
Turbidity, HACH	NTU	76	5.29				
Temp. Air	°C	20	–				
Secchi	Meters	78	–				
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67	–				
Precipitation (24hr)	Inches	45	–				
Tree Canopy	Percent	83515	–				
Cloud Cover	Percent	32	–				

Sample Taken By: RP JM MK	Report Verified By:
Report Prepared By: MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 5.18.22	Time of Grab Sample 1000 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, metals, NO2	☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 824852	**Equipmt Used:** Sample Container ☐ Pole ☒ 6' Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: Field blank: 1025 Trip Blank: 955

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	28.43				
Conductivity Field	UMHO	94	98.52				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	9.74				
DO % Saturation	Percent	301	124.96				
pH Field	Std. Unit	400	6.90				
ORP	mV	90	246.34				
Turbidity, HACH	NTU	76	1.66				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	90				

Sample Taken By: KP, JO, MK	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 5.18.22	Time of Grab Sample 12:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, metals, NO2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	28.95				
Conductivity Field	UMHO	94	10262				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	9.17				
DO % Saturation	Percent	301	119.20				
pH Field	Std. Unit	400	6.80				
ORP	mV	90	200.60				
Turbidity, HACH	NTU	76	1.57				
Temp. Air	°C	20					
Secchi	Meters	78	UUB				
Water Depth, Max	Meters	82903	1.2				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	50				

Sample Taken By: KP, JC, MF	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 5-18-22	Time of Grab Sample 1350 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, metals, NO2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 521852	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks: COD* - intermediate CB00

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.
Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	27.70				
Conductivity Field	UMHO	94	59.57				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.23				
DO % Saturation	Percent	301	66.25				
pH Field	Std. Unit	400	6.52				
ORP	mV	90	144.63				
Turbidity, HACH	NTU	76	2.20				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	95				
Cloud Cover	Percent	32	40				

Sample Taken By: KP, JO, MK	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 5.18.22	Time of Grab Sample 14:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO2NO3 ☐NH3 ☐TOC ☐Other:	☑H2SO4 2ml			☒ <2 pH
Metals		☑HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, Metals, NO2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	30.31				
Conductivity Field	UMHO	94	83.13				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.62				
DO % Saturation	Percent	301	88.0				
pH Field	Std. Unit	400	6.54				
ORP	mV	90	161.03				
Turbidity, HACH	NTU	76	3.69				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	60				
Cloud Cover	Percent	32	40				

Sample Taken By: JO, KP, MK	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 5.18.22	Time of Grab Sample 15:25 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, metals, NO2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num:	82852	**Equipmt Used:**	Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	2490 ☐ Field Cleaned

Remarks: Recently broken down Beaver dam.

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	29.80				
Conductivity Field	UMHO	94	57.71				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	2.09				
DO % Saturation	Percent	301	27.54				
pH Field	Std. Unit	400	6.00				
ORP	mV	90	195.40				
Turbidity, HACH	NTU	76	<.02				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	30				
Cloud Cover	Percent	32	30				

Sample Taken By: JO, MK, KP	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 5.18.22	Time of Grab Sample 1100 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, Metals, NO2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 82852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	25.08				
Conductivity Field	UMHO	94	136.85				
Salinity	PPTH	480	0.06				
DO Probe	mg/L	299	3.85				
DO % Saturation	Percent	301	46.52				
pH Field	Std. Unit	400	6.56				
ORP	mV	90	138.72				
Turbidity, HACH	NTU	76	2.25				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	65				
Cloud Cover	Percent	32	100				

Sample Taken By: KP, JO, MK	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 5.18.22	Time of Grab Sample 1135 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS, metals, NO2	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks: B. Oshom

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	26.60				
Conductivity Field	UMHO	94	181.95				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	3.60				
DO % Saturation	Percent	301	44.64				
pH Field	Std. Unit	400	6.63				
ORP	mV	90	147.48				
Turbidity, HACH	NTU	76	6.59				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: KP, JO, MK	Report Verified By:
Report Prepared By: KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 6.15.2022	Time of Grab Sample 1020 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☑ <2 pH
Metals		☒HNO3 1ml			☑ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ 5 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.89				
Conductivity Field	UMHO	94	90.66				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	7.15				
DO % Saturation	Percent	301	95.6				
pH Field	Std. Unit	400	6.78				
ORP	mV	90	253.8			J	
Turbidity, HACH	NTU	76	2.20				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By: JO/DM/RC	Report Verified By:
Report Prepared By: DM + fm	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 6-15-2022	Time of Grab Sample 1145 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.29				
Conductivity Field	UMHO	94	96.34				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.99				
DO % Saturation	Percent	301	89.3				
pH Field	Std. Unit	400	6.76				
ORP	mV	90	214.6			J	
Turbidity, HACH	NTU	76	1.63				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: DM JD RC	Report Verified By:
Report Prepared By: DM + tm	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 6-15-2022	Time of Grab Sample 1315 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 221852	**Equipmt Used:** Sample Container ☒ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.
Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.55				
Conductivity Field	UMHO	94	90.98				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	5.25				
DO % Saturation	Percent	301	66.2				
pH Field	Std. Unit	400	6.67				
ORP	mV	90	161.9			J	
Turbidity, HACH	NTU	76	3.01				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	20				

Sample Taken By: DM/JO/RC	Report Verified By:
Report Prepared By: DM + fm	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 6.15.2022	Time of Grab Sample 1420 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ 13 Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.76				
Conductivity Field	UMHO	94	82.37				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	6.70				
DO % Saturation	Percent	301	89.5				
pH Field	Std. Unit	400	6.74				
ORP	mV	90	197.9			J	
Turbidity, HACH	NTU	76	3.90				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	30				

Sample Taken By: DM/JO/RC	Report Verified By:
Report Prepared By: DM + tm	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 6.15.2022	Time of Grab Sample 1510 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	755	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.01				
Conductivity Field	UMHO	94	73.67				
Salinity	PPTH	480	0.0				
DO Probe	mg/L	299	0.84				
DO % Saturation	Percent	301	11.0				
pH Field	Std. Unit	400	6.31				
ORP	mV	90	227.2			J	
Turbidity, HACH	NTU	76	6.47				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	90				

Sample Taken By: DM JO RC	Report Verified By:
Report Prepared By: DM + JM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 6.15.2022	Time of Grab Sample 1540 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 21852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 02190 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.53				
Conductivity Field	UMHO	94	162.58				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.41				
DO % Saturation	Percent	301	55.7				
pH Field	Std. Unit	400	6.69				
ORP	mV	90	95.1			J	
Turbidity, HACH	NTU	76	2.78				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67	1				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	40				

Sample Taken By: DM\SO\RC	Report Verified By:
Report Prepared By: DM + km	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE20	Date: 6.15.2022	Time of Grab Sample: 1615	CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821252	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 240 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.94				
Conductivity Field	UMHO	94	219.34				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	4.12				
DO % Saturation	Percent	301	54.3				
pH Field	Std. Unit	400	6.84				
ORP	mV	90	77.8			J	
Turbidity, HACH	NTU	76	7.99				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	40				

Sample Taken By: DM/JO/RC	Report Verified By:
Report Prepared By: DM + fm	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-1	**Date** 7.12.2022	Time of Grab Sample 1000 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	30.84				
Conductivity Field	UMHO	94	84.86				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.78				
DO % Saturation	Percent	301	90.07				
pH Field	Std. Unit	400	6.61				
ORP	mV	90	252.41				
Turbidity, HACH	NTU	76	224				
Temp. Air	°C	20					
Secchi	Meters	78	———				
Water Depth, Max	Meters	82903	0.71				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: JOPS/DM	Report Verified By:
Report Prepared By: DM 1/19	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-2	**Date** 7.12.2022	Time of Grab Sample 1105 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.43				
Conductivity Field	UMHO	94	84.82				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.29				
DO % Saturation	Percent	301	93.92				
pH Field	Std. Unit	400	6.67				
ORP	mV	90	DM 9	217.4			
Turbidity, HACH	NTU	76	7.81				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	1.3				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	60				

Sample Taken By: DM/SOLIS	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-3	**Date** 7.12.2022	Time of Grab Sample 1205 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 321852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	28.43				
Conductivity Field	UMHO	94	84.16				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.84				
DO % Saturation	Percent	301	75.25				
pH Field	Std. Unit	400	6.54				
ORP	mV	90	172.17				
Turbidity, HACH	NTU	76	9.90				
Temp. Air	°C	20					
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	80				

Sample Taken By: DM/JOPS	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station: Station ECSW-4	Date: 7.12.2022	Time of Grab Sample: 1300 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: ~~852821~~ DM	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: 821852

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.94				
Conductivity Field	UMHO	94	76.45				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.45				
DO % Saturation	Percent	301	85.43				
pH Field	Std. Unit	400	6.54				
ORP	mV	90	180.96				
Turbidity, HACH	NTU	76	13.3				
Temp. Air	°C	20					
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.4				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/JO/PS	Report Verified By:
Report Prepared By: DM 1149	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-5	**Date** 7.12.2022	Time of Grab Sample 1340 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.22				
Conductivity Field	UMHO	94	55.94				
Salinity	PPTH	480	0.02				
DO Probe	mg/L	299	0.47				
DO % Saturation	Percent	301	5.46				
pH Field	Std. Unit	400	5.97				
ORP	mV	90	215.88				
Turbidity, HACH	NTU	76	5.91				
Temp. Air	°C	20					
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.87				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	80				

Sample Taken By: DM/JO/PS	Report Verified By:
Report Prepared By: DM/KP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-6	**Date** 7/12/22	Time of Grab Sample 1420 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.74				
Conductivity Field	UMHO	94	126.89				
Salinity	PPTH	480	0.06				
DO Probe	mg/L	299	4.40				
DO % Saturation	Percent	301	54.95				
pH Field	Std. Unit	400	6.35				
ORP	mV	90	100.92				
Turbidity, HACH	NTU	76	2.43				
Temp. Air	°C	20					
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.80				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/JO/PS	Report Verified By:
Report Prepared By: DM JP	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** Station ECSW-7	**Date** 7.12.2022	Time of Grab Sample 1455 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.80				
Conductivity Field	UMHO	94	163.90				
Salinity	PPTH	480	0.08				
DO Probe	mg/L	299	2.57				
DO % Saturation	Percent	301	32.23				
pH Field	Std. Unit	400	6.49				
ORP	mV	90	68.12				
Turbidity, HACH	NTU	76	5.07				
Temp. Air	°C	20					
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.89				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/SO/PS	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 8-2-2022	Time of Grab Sample 1500 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐ A	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.1				
Conductivity Field	UMHO	94	206.6				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	2.24				
DO % Saturation	Percent	301	27.8				
pH Field	Std. Unit	400	6.69				
ORP	mV	90	75.2				
Turbidity, HACH	NTU	76	8.94				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.67				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/JO	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 8-2-2022	Time of Grab Sample 1420 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	by Boat ☐
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	Canoe ☐
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	Gas Motor ☐
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2190 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	25.8				
Conductivity Field	UMHO	94	151.09				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	4.11				
DO % Saturation	Percent	301	50.3				
pH Field	Std. Unit	400	6.44				
ORP	mV	90	75.4				
Turbidity, HACH	NTU	76	3.75				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.65				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/SO	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 8.2.2022	Time of Grab Sample 1340 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 321852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks: lossed in 5:1 data accidentally in truck used second set of data

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.89				
Conductivity Field	UMHO	94	80.01				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	2.15				
DO % Saturation	Percent	301	28.51				
pH Field	Std. Unit	400	6.20				
ORP	mV	90	163.4				
Turbidity, HACH	NTU	76	6.85				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: DM JO	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 8.3.2022	Time of Grab Sample 1300 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒NA Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.7				
Conductivity Field	UMHO	94	84.5				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	6.51				
DO % Saturation	Percent	301	82.3				
pH Field	Std. Unit	400	6.59				
ORP	mV	90	149.6				
Turbidity, HACH	NTU	76	6.07				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	100				

Sample Taken By: DM JO	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 8-2-2022	Time of Grab Sample 1215 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 82 1352	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.3				
Conductivity Field	UMHO	94	93.7				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.7				
DO % Saturation	Percent	301	71.7				
pH Field	Std. Unit	400	6.61				
ORP	mV	90	113.7				
Turbidity, HACH	NTU	76	4.16				
Temp. Air	°C	20	1				
Secchi	Meters	78	1				
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67	1				
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	100				

Sample Taken By: DM JO	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 8/2/2022	Time of Grab Sample 1115 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	31.1				
Conductivity Field	UMHO	94	93.0				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.53				
DO % Saturation	Percent	301	101.05				
pH Field	Std. Unit	400	6.83				
ORP	mV	90	143.5				
Turbidity, HACH	NTU	76	2.70				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: DM/JO	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date**	Time of Grab Sample 1010 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank ☐	Terrestrial ☐	Fish ☐		by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed ☐	Shellfish ☐		Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed ☐	Other ☐		On Shore ☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge ☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 92252	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: LL Hg FB/bmk 1030

LOCATION

Bayou Marcus Crescent Lake Dam

ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	31.2				
Conductivity Field	UMHO	94	82.8				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	8.56				
DO % Saturation	Percent	301	115.05				
pH Field	Std. Unit	400	6.82				
ORP	mV	90	211.82				
Turbidity, HACH	NTU	76	287				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	50				

Sample Taken By: DM/JO	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station CRESCENTLAKE10	Date 9.20.2022	Time of Grab Sample 945 CST

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐						

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☐ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks: Heavy algae mat along Shore.

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	29.00				
Conductivity Field	UMHO	94	53.31				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.49				
DO % Saturation	Percent	301	122.74				
pH Field	Std. Unit	400	6.50				
ORP	mV	90	\				
Turbidity, HACH	NTU	76	2.93				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.98				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM / MK	Report Verified By:
Report Prepared By: DM MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 9.20.2022	Time of Grab Sample 1235 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 332 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	28.69				
Conductivity Field	UMHO	94	100.3				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	6.43				
DO % Saturation	Percent	301	82.16				
pH Field	Std. Unit	400	6.71				
ORP	mV	90	—				
Turbidity, HACH	NTU	76	1.97				
Temp. Air	°C	20	—				
Secchi	Meters	78	—				
Water Depth, Max	Meters	82903	1.06				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/MK	Report Verified By:
Report Prepared By: DM MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 9.20.2022	Time of Grab Sample 1425 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	755	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.68				
Conductivity Field	UMHO	94	84.77				
Salinity	PPTH	480	6.04				
DO Probe	mg/L	299	6.15				
DO % Saturation	Percent	301	78.0%				
pH Field	Std. Unit	400	6.91				
ORP	mV	90	-				
Turbidity, HACH	NTU	76	3.66				
Temp. Air	°C	20	✓				
Secchi	Meters	78	✓				
Water Depth, Max	Meters	82903	0.51				
Tide Stage	Code	67	-				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/MK	Report Verified By:
Report Prepared By: DM MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 9.20.2022	Time of Grab Sample 1525 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☐TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☒Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821 852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	29.25				
Conductivity Field	UMHO	94	61.58				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.95				
DO % Saturation	Percent	301	90.72				
pH Field	Std. Unit	400	6.75				
ORP	mV	90	/				
Turbidity, HACH	NTU	76	4.59				
Temp. Air	°C	20	/				
Secchi	Meters	78	/				
Water Depth, Max	Meters	82903	0.42				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/MK	Report Verified By:
Report Prepared By: DM/MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 9.20.2022	Time of Grab Sample 1610 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☐	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☐	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 5ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch

@ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	27.71				
Conductivity Field	UMHO	94	85.47				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	1.90				
DO % Saturation	Percent	301	24.2				
pH Field	Std. Unit	400	6.26				
ORP	mV	90	\				
Turbidity, HACH	NTU	76	3.83				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.81				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM MK	Report Verified By:
Report Prepared By: DM MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 9.20.2022	Time of Grab Sample 1110 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☐	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.20				
Temp. Water	°C	10	24.67				
Conductivity Field	UMHO	94	152.73				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	4.09				
DO % Saturation	Percent	301	49.17				
pH Field	Std. Unit	400	6.51				
ORP	mV	90	\				
Turbidity, HACH	NTU	76	2.78				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.78				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: DM MK	Report Verified By:
Report Prepared By: DM MK	( ) CHANGE

3

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 9.20.2023	Time of Grab Sample 1150 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☐	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 221852	**Equipmt Used:** Sample Container ☐ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 1321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	26.81				
Conductivity Field	UMHO	94	212.77				
Salinity	PPTH	480	0.10				
DO Probe	mg/L	299	2.06				
DO % Saturation	Percent	301	25.90				
pH Field	Std. Unit	400	6.62				
ORP	mV	90	\				
Turbidity, HACH	NTU	76	9.52				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.74				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: DM MK	Report Verified By:
Report Prepared By: DM MK	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSBAYOU40	Date 10-10-22	Time of Grab Sample 9:45 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☒Other: TDS	☒Ice ☒H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Marcus Bayou Creek @ Hwy. 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.73				
Conductivity Field	UMHO	94	75.37				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.70				
DO % Saturation	Percent	301	73.9				
pH Field	Std. Unit	400	6.8				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.24				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.08				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KB	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 10-10-22	Time of Grab Sample 10:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml ☒Ice			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num:	821852	**Equipmt Used:**	Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	22.76				
Conductivity Field	UMHO	94	89.09				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.87				
DO % Saturation	Percent	301	113.3				
pH Field	Std. Unit	400	6.8				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.11				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KB	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 10-10-22	Time of Grab Sample 11:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml ☒Ice			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.9				
Conductivity Field	UMHO	94	96.6				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	6.16				
DO % Saturation	Percent	301	68.2				
pH Field	Std. Unit	400	6.9				
ORP	mV	90					
Turbidity, HACH	NTU	76	1.82				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.1				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KB	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** ME 10-10-22 ~~11:30~~	Time of Grab Sample 11:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml ☒Ice			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Marcus Pt. Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.85				
Conductivity Field	UMHO	94	85.37				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.03				
DO % Saturation	Percent	301	76.25				
pH Field	Std. Unit	400	6.8				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.83				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KB	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 10-10-22	Time of Grab Sample 12:05 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml ☒Ice			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks: Bio Sheen visible

LOCATION

Bayou Marcus Cr. West Branch @ Longleaf Dr.

Station ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.78				
Conductivity Field	UMHO	94	78.50				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.13				
DO % Saturation	Percent	301	78.68				
pH Field	Std. Unit	400	6.9				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.50				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	55				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME ~~ME~~ KB	Report Verified By: TM ME
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 10-10-22	Time of Grab Sample 12:25 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐ by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml ☒Ice			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.9				
Conductivity Field	UMHO	94	62.4				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	4.61				
DO % Saturation	Percent	301	52.2				
pH Field	Std. Unit	400	6.7				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.69				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.91				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KB	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 10-10-22	Time of Grab Sample ~~12:05~~ ME 12:50 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml ☒Ice			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num:	821852	**Equipmt Used:**	Sample Container ☐ Pole ☒B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:**	2490 ☐ Field Cleaned

Remarks: Bio Sheen Visible

LOCATION

Bayou Marcus Cr. East Branch @ Marcus Pt. Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.83				
Conductivity Field	UMHO	94	146.2				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	5.39				
DO % Saturation	Percent	301	59.73				
pH Field	Std. Unit	400	6.7				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.70				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	85				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KB	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 10-10-22	Time of Grab Sample 13:05 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml ~~☒Ice~~			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ B Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.34				
Conductivity Field	UMHO	94	200.99				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	3.33				
DO % Saturation	Percent	301	37.12				
pH Field	Std. Unit	400	6.8				
ORP	mV	90					
Turbidity, HACH	NTU	76	5.29				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.95				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	15				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KB	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSBAYOU40	Date: 11-16-22	Time of Grab Sample: 9:35 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Marcus Bayou Creek @ Hwy. 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.9				
Conductivity Field	UMHO	94	81.1				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.1				
DO % Saturation	Percent	301	80.7				
pH Field	Std. Unit	400	6.69				
ORP	mV	90					
Turbidity, HACH	NTU	76	4.63				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.92				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	45				
Cloud Cover	Percent	32	100				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 11-16-22	Time of Grab Sample 9:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	16.5				
Conductivity Field	UMHO	94	94.2				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.32				
DO % Saturation	Percent	301	94.2				
pH Field	Std. Unit	400	7.1				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.73				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.85				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	95				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 11-16-22	Time of Grab Sample 10:55 CST

(check as appropriate)			**Soils/Sediment**		**Tissue**		**Collection Mode**		
Surface Water	☒	Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐	by Boat
Ground Water	☐	Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐	Canoe
Waste Water	☐	Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐	Gas Motor
Other:		Duplicate ☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 871852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing

Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.9				
Conductivity Field	UMHO	94	101.2				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	8.87				
DO % Saturation	Percent	301	88.7				
pH Field	Std. Unit	400	7.2				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.28				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.03				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 11-16-22	Time of Grab Sample 11:10 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:**	Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned	

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Marcus Pointe Blvd.

Station ~~ECSW5~~ ECSW-3 ME 03-09-23

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	14.5				
Conductivity Field	UMHO	94	87.2				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.03				
DO % Saturation	Percent	301	77.9				
pH Field	Std. Unit	400	7.1				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.75				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.53				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	85				
Cloud Cover	Percent	32	90				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 11-16-22	Time of Grab Sample 11:25 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:**	Sample Container ☐ Pole ☒ C		**Equipmt ID Num:** 2490	☐ Field Cleaned
		Syringe ☐ Van Dorn ☐ Other ☐			

Remarks: Bio Sheen

LOCATION

Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.

Sattion ~~ECSW3~~ ECSW-6 ME 03-08-23

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.5				
Conductivity Field	UMHO	94	148.6				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	6.59				
DO % Saturation	Percent	301	65.3				
pH Field	Std. Unit	400	6.8				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.84				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.74				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	90				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE20	Date: 11-16-2022	Time of Grab Sample: 11:40 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Station ~~ECSW4~~ ME 03-08-23

ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	14.9				
Conductivity Field	UMHO	94	207.8				
Salinity	PPTH	480	0.09				
DO Probe	mg/L	299	5.74				
DO % Saturation	Percent	301	52.3				
pH Field	Std. Unit	400	6.6				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.89				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.92				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	85				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW30	Date: 11-16-22	Time of Grab Sample: 12:10 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Longleaf Rd.

Station ~~ECSW6~~ ECSW-4 ME 03-08-23

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.2				
Conductivity Field	UMHO	94	82.1				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.2				
DO % Saturation	Percent	301	80.5				
pH Field	Std. Unit	400	6.7				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.26				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.62				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	45				
Cloud Cover	Percent	32	80				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 11-16-22	Time of Grab Sample 12:25 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ~~ECSW7~~ ME 03-08-23

ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	15.5				
Conductivity Field	UMHO	94	67.5				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.4				
DO % Saturation	Percent	301	63.5				
pH Field	Std. Unit	400	6.6				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.36				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	85				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSBAYOU40	Date: 12-7-22	Time of Grab Sample: 9:50 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus @ HWY 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	19.9				
Conductivity Field	UMHO	94	79.6				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.2				
DO % Saturation	Percent	301	77.97				
pH Field	Std. Unit	400	6.2				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.76				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.04				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	65				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 12-7-22	Time of Grab Sample 10:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Crescent Lake Dam
ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.8				
Conductivity Field	UMHO	94	91.4				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.8				
DO % Saturation	Percent	301	108.3				
pH Field	Std. Unit	400	6.4				
ORP	mV	90					
Turbidity, HACH	NTU	76	1.09				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.96				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 12-7-22	Time of Grab Sample 10:55 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒	☐	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐	Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐						

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks: Bio Sheen
Lots of underwater vegetation

LOCATION

Bayou Marcus Cr. West Branch @ Golf Cart Crossing
Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.7				
Conductivity Field	UMHO	94	109.1				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	6.9				
DO % Saturation	Percent	301	77.5				
pH Field	Std. Unit	400	6.3				
ORP	mV	90					
Turbidity, HACH	NTU	76	1.87				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.1				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW20	Date 12-7-22	Time of Grab Sample 11:25 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Marcus Pointe Blvd.

Station ~~ECSW5~~ ME 03-03-23
ECSW-3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.6				
Conductivity Field	UMHO	94	92.9				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.8				
DO % Saturation	Percent	301	74.1				
pH Field	Std. Unit	400	6.4				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.05				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	25				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 12-7-22	Time of Grab Sample 11:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒ TKN ☒ TP ☒ NO2NO3 ☐ NH3 ☐ TOC ☐ Other:	☒ Ice ☒ H2SO4 2ml			☒ <2 pH
Metals		☐ HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Filtered Nutrients	☐ PO4 ☐ Field Filtered .45 um filter	☐ Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:
Bio Sheen
Brown Bio Foam

LOCATION
Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.
~~Sattion ECSW3~~ ME 03-07-23
Station ECSW-6
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.8				
Conductivity Field	UMHO	94	146.7				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	5.2				
DO % Saturation	Percent	301	58.1				
pH Field	Std. Unit	400	6.4				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.87				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	55				
Cloud Cover	Percent	32	35				

Sample Taken By: TH ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE20	Date: 12-7-22	Time of Grab Sample: 12:05 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Station ~~ECSW4~~ ME 03-08-23

ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.3				
Conductivity Field	UMHO	94	201.3				
Salinity	PPTH	480	0.096				
DO Probe	mg/L	299	3.6				
DO % Saturation	Percent	301	40.8				
pH Field	Std. Unit	400	6.4				
ORP	mV	90					
Turbidity, HACH	NTU	76	6.01				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	35				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW30	Date: 12-7-22	Time of Grab Sample: 12:35 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Longleaf Rd.

Station ~~ECSW6~~ ME 03-08-23

ECSW-4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	21.8				
Conductivity Field	UMHO	94	82.7				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	6.6				
DO % Saturation	Percent	301	73.97				
pH Field	Std. Unit	400	6.7				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.93				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67	4 ME				
Precipitation (24hr)	Inches	45	4				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	35				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 12-7-22	Time of Grab Sample 12:55 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS + Chlorophyll	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ C Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ~~ECSW7~~ ME 08-08-23
ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	20.8				
Conductivity Field	UMHO	94	69.7				
Salinity	PPTH	480	0.03				
DO Probe	mg/L	299	3.9				
DO % Saturation	Percent	301	42.7				
pH Field	Std. Unit	400	6.4				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.38				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	45				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSBAYOU40	Date 01/11/23	Time of Grab Sample 10:05 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus @ HWY 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	17.2				
Conductivity Field	UMHO	94	78.5				
Salinity	PPTH	480	6.04				
DO Probe	mg/L	299	7.93				
DO % Saturation	Percent	301	81.9				
pH Field	Std. Unit	400	6.16				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.31				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.78				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 01/11/23	Time of Grab Sample 10:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Crescent Lake @ Dam

ME ECSW 1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	17.5				
Conductivity Field	UMHO	94	89.5				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	9.67				
DO % Saturation	Percent	301	100.7				
pH Field	Std. Unit	400	6.30				
ORP	mV	90					
Turbidity, HACH	NTU	76	1.77				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.43				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	35				

Sample Taken By: JM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 01/11/23	Time of Grab Sample 11:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**		**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: 12th reading not marked

LOCATION

Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	17.8				
Conductivity Field	UMHO	94	103.3				
Salinity	PPTH	480	0.05				
DO Probe	mg/L	299	8.03				
DO % Saturation	Percent	301	84.3				
pH Field	Std. Unit	400	6.33				
ORP	mV	90					
Turbidity, HACH	NTU	76	1.95				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.6				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	ME 65				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW20	Date 01/11/23	Time of Grab Sample 11:30 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Marcus Pointe Blvd.

Station ~~ECSW5~~ ME

ECSW 3

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	16.3				
Conductivity Field	UMHO	94	85.9				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	8.18				
DO % Saturation	Percent	301	82.9				
pH Field	Std. Unit	400	6.43				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.08				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	30				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE10	Date: 01-11-23	Time of Grab Sample: 11:45 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks: Bio Sheen Present

LOCATION

Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.

~~Sattion ECSW3~~ ME

Station ECSW 6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	17.4				
Conductivity Field	UMHO	94	149.4				
Salinity	PPTH	480	0.07				
DO Probe	mg/L	299	6.14				
DO % Saturation	Percent	301	63.9				
pH Field	Std. Unit	400	6.39				
ORP	mV	90					
Turbidity, HACH	NTU	76	2.80				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	45				
Cloud Cover	Percent	32	25				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKE20	Date 01/11/23	Time of Grab Sample 12:05 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks: Bio Sheen present

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Station ~~ECSW4~~ ME

ECSW 7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	17.5				
Conductivity Field	UMHO	94	213.2				
Salinity	PPTH	480	0.10				
DO Probe	mg/L	299	5.37				
DO % Saturation	Percent	301	56.05				
pH Field	Std. Unit	400	6.45				
ORP	mV	90					
Turbidity, HACH	NTU	76	4.92				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.0				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	25				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW30	Date 01/11/23	Time of Grab Sample 12:30 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Longleaf Rd.

Station ~~ECSW6~~ ME
ECSW4

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	17.05				
Conductivity Field	UMHO	94	83.9				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	7.94				
DO % Saturation	Percent	301	81.98				
pH Field	Std. Unit	400	6.5				
ORP	mV	90					
Turbidity, HACH	NTU	76	3.55				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	30				
Cloud Cover	Percent	32	25				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW50	Date: 01/11/23	Time of Grab Sample: 12:50 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☐H2SO4 2ml			☐ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted		☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ~~ECSW7~~ ECSW5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	16.8				
Conductivity Field	UMHO	94	82.9				
Salinity	PPTH	480	0.04				
DO Probe	mg/L	299	5.14				
DO % Saturation	Percent	301	52.9				
pH Field	Std. Unit	400	6.31				
ORP	mV	90					
Turbidity, HACH	NTU	76	1.65				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.20m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSBAYOU40	**Date** 2-7-2023	Time of Grab Sample 1000 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ YSI Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus @ HWY 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	16.808				
Conductivity Field	UMHO	94	79.169				
Salinity	PPTH	480	0.036				
DO Probe	mg/L	299	8.252				
DO % Saturation	Percent	301	84.191				
pH Field	Std. Unit	400	6.401				
ORP	mV	90					
Turbidity, HACH	NTU	76	1.28				
Temp. Air	°C	20	\				
Secchi	Meters	78	\				
Water Depth, Max	Meters	82903	0.76				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	80				

Sample Taken By: DM/DV	Report Verified By:
Report Prepared By: DV	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: CRESCENTLAKE10	Date: 2-07-2023	Time of Grab Sample: 1040 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot ☒	☐ by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Canoe
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☒NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Crescent Lake @ Dam

EC SW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	.2				
Temp. Water	°C	10	17.916				
Conductivity Field	UMHO	94	89.47				
Salinity	PPTH	480	0.417				
DO Probe	mg/L	299	9.75				
DO % Saturation	Percent	301	101.91				
pH Field	Std. Unit	400	6.55				
ORP	mV	90	217.75				
Turbidity, HACH	NTU	76	1.04				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.91				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	80%				

Sample Taken By: PM/DV

Report Prepared By: DV

Report Verified By:

( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station CRESCENTLAKE20	Date 2.7.2023	Time of Grab Sample 1205	CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	Equipmt Used: Sample Container ☐ Pole ☒ Syringe ☐ Van Dorn ☐ Other ☐	Equipmt ID Num: 5321 ☐ Field Cleaned

Remarks:

LOCATION

Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.54				
Conductivity Field	UMHO	94	96.82				
Salinity	PPTH	480	0.046				
DO Probe	mg/L	299	9.87				
DO % Saturation	Percent	301	104.46				
pH Field	Std. Unit	400 DV	7.59				
ORP	mV	90	209.71				
Turbidity, HACH	NTU	76	1.09				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.70				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	80%				

Sample Taken By: DV/DM	Report Verified By:
Report Prepared By: DV	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW20	Date 2/7/23	Time of Grab Sample 1330 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☒ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☐HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☐Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 82852	**Equipmt Used:** Sample Container ☒ Pole ☐ Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks: CBOD Intermediate for preserved samples

LOCATION

Bayou Marcus Creek West Branch @ Marcus Pointe Blvd.

Station ~~ECBW5~~ ESCW-3 PM

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	.2				
Temp. Water	°C	10	17.17				
Conductivity Field	UMHO	94	104.36				
Salinity	PPTH	480	0.049				
DO Probe	mg/L	299	8.80				
DO % Saturation	Percent	301	90.62				
pH Field	Std. Unit	400	6.51				
ORP	mV	90	163.9				
Turbidity, HACH	NTU	76	1.58				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.78				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	80				

Sample Taken By: DM/DM	Report Verified By:
Report Prepared By: DM	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW30	Date 2.1.2023	Time of Grab Sample 1435 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☐Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852 / 852821	**Equipmt Used:** Sample Container ☐ Pole ☒YA Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @ Longleaf Rd.

Station ~~ECSW6~~ ESCSW-4 ON

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	.2				
Temp. Water	°C	10	18.37				
Conductivity Field	UMHO	94	81.475				
Salinity	PPTH	480	0.038				
DO Probe	mg/L	299	8.79				
DO % Saturation	Percent	301	~~196.58~~ 92.9				
pH Field	Std. Unit	400	6.60				
ORP	mV	90	196.58				
Turbidity, HACH	NTU	76	1.95				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.320				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	80				

Sample Taken By: DV/DM	Report Verified By:
Report Prepared By: DV	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW50	Date 2/7/23	Time of Grab Sample 15:15 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot ☒	☐ by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Canoe
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ECSW7

ESCSW5 DM

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	.2				
Temp. Water	°C	10	18.95				
Conductivity Field	UMHO	94	87.8				
Salinity	PPTH	480	0.040				
DO Probe	mg/L	299	6.14				
DO % Saturation	Percent	301					
pH Field	Std. Unit	400	6.47				
ORP	mV	90	207.2				
Turbidity, HACH	NTU	76	1.50				
Temp. Air	°C	20					
Secchi	Meters	78	VOB				
Water Depth, Max	Meters	82903	0.97				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	80				

Sample Taken By: DV/DM	Report Verified By:
Report Prepared By: DV	( ) CHANGE

ESCWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKE10	Date 2.7.2023	Time of Grab Sample 1555	CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	by Foot ☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore ☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐		

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☒ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☐Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	755	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	**Equipmt Used:** Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.

Sattion ~~ECSW3~~ ESCSW-CO DM

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
Temp. Water	°C	10	18.122				
Conductivity Field	UMHO	94	15H.9H				
Salinity	PPTH	480	0.0733				
DO Probe	mg/L	299	6.794				
DO % Saturation	Percent	301	71.45				
pH Field	Std. Unit	400	6.55				
ORP	mV	90	128.9 DM				
Turbidity, HACH	NTU	76	1.99				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.878				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	80				

Sample Taken By: DM/DV	Report Verified By:
Report Prepared By: DV	( ) CHANGE

ESCWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.20m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE20	Date: 2.7.2023	Time of Grab Sample: 1630 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	☒ ☐ by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐ ☐ Canoe
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒ ☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO2NO3 ☐NH3 ☐TOC ☐Other:	☒Ice ☒H2SO4 2ml			☒ <2 pH
Metals		☒HNO3 1ml			☐ <2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒Ice			
Filtered Nutrients	☐PO4 ☐Field Filtered .45 um filter	☐Ice			
All Other Samples unless otherwise noted	TSS	☒Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

See remark

Meter ID Num: 821852	Equipmt Used: Sample Container ☐ Pole ☒ A Syringe ☐ Van Dorn ☐ Other ☐	Equipmt ID Num: 3321 ☐ Field Cleaned

Remarks:
Metals EC SW-7 not pres. <2 pH, need more acid.

LOCATION
Bayou Marcus Creek East Branch @ Old Golf Cart Crossing
Station ~~ECSW4~~ ESLSW-7 DM
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	.2				
Temp. Water	°C	10	18.1HH				
Conductivity Field	UMHO	94	223.0				
Salinity	PPTH	480	0.1				
DO Probe	mg/L	299	6.69				
DO % Saturation	Percent	301	64.8				
pH Field	Std. Unit	400	6.69				
ORP	mV	90	90.8				
Turbidity, HACH	NTU	76	4.87				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.329				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	20				

Sample Taken By:	Report Verified By:
Report Prepared By:	( ) CHANGE

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: RH-SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT	06-02-22											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	CCV	MAINT	ME	3-22-23	8:51	30.19	19.5	9.27	30.17	9.24	100.28	19.66		Pass Fail
CAL	ICV	CCV	MAINT	ME	3-22-23	13:14	30.19	19.5	9.27	30.17	9.20	100.13	19.84		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	CCV	MAINT	ME	3-22-23	8:55	100	05/2024	INV220727	19.68	102.66				Pass Fail
CAL	ICV	CCV	MAINT	ME	3-22-23	13:17	1,000	05/2024	INV220429	20.02	1,001.6				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	CCV	MAINT	ME	3-22-23	8:57	7	11/2024	INV230010	-85.7	7.10				Pass Fail
CAL	ICV	CCV	MAINT	ME	3-22-23	13:20	4	02/2024	INV230011	82.2	4.18				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSBAYOU40	**Date** 3-22-23	Time of Grab Sample 10:20 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490	☐ Field Cleaned
Remarks:	**LOCATION** Bayou Marcus @ HWY 90 Lat: N Long: W		

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.43				
Temp. Water	°C	10	16.4				
Conductivity Field	µS/cm	94	78.95				
DO Probe	mg/L	299	8.37				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	84.6				
Turbidity, HACH	NTU	76	2.09				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	35				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 3-22-23	Time of Grab Sample 10:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION
Crescent lake @ Dam
Station ECSW-1

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.48				
Temp. Water	°C	10	17.1				
Conductivity Field	µS/cm	94	92.5				
DO Probe	mg/L	299	10.1				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	104.05				
Turbidity, HACH	NTU	76	1.37				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.95				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	10				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 3-22-23	Time of Grab Sample 11:10 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION
Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.41				
Temp. Water	°C	10	17.3				
Conductivity Field	µS/cm	94	129.9				
DO Probe	mg/L	299	6.46				
ORP	mV	90					
Salinity	PPTH	480	0.06				
DO % Saturation	Percent	301	66.5				
Turbidity, HACH	NTU	76	1.71				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.08				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	45				
Cloud Cover	Percent	32	10				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

		Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 3-22-23	Time of Grab Sample 11:25 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION
Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.32				
Temp. Water	°C	10	17.3				
Conductivity Field	µS/cm	94	98.4				
DO Probe	mg/L	299	8.28				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	85.3				
Turbidity, HACH	NTU	76	1.41				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.2				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 3-22-23	Time of Grab Sample 11:55 CST

(check as appropriate)		**Solls/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial ☐	Fish ☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed ☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed ☐	Other ☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge ☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION
Bayou Marcus Creek West Branch @Marcus Pointe Blvd.
Station ECSW-3
Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.36				
Temp. Water	°C	10	16.2				
Conductivity Field	µS/cm	94	76.7				
DO Probe	mg/L	299	8.03				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	80.7				
Turbidity, HACH	NTU	76	1.84				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 3-22-23	Time of Grab Sample 12:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.43				
Temp. Water	°C	10	16.5				
Conductivity Field	µS/cm	94	187.5				
DO Probe	mg/L	299	5.47				
ORP	mV	90					
Salinity	PPTH	480	0.09				
DO % Saturation	Percent	301	55.4				
Turbidity, HACH	NTU	76	3.79				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

		Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 3-22-23	Time of Grab Sample 12:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

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Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned
Remarks:	**LOCATION** Bayou Marcus Creek West Branch @ Longleaf Rd. Station ECSW-4 Lat: N Long: W	

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.53				
Temp. Water	°C	10	17.1				
Conductivity Field	µS/cm	94	85.4				
DO Probe	mg/L	299	7.40				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	76.1				
Turbidity, HACH	NTU	76	2.84				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.69				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	35				
Cloud Cover	Percent	32	0				

Sample Taken By:	TM ME	Report Verified By:	
Report Prepared By:	ME	( ) CHANGE	

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 3-22-23	Time of Grab Sample 13:00 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish ☐	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other ☐	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.43				
Temp. Water	°C	10	15.9				
Conductivity Field	µS/cm	94	66.1				
DO Probe	mg/L	299	5.86				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	58.8				
Turbidity, HACH	NTU	76	2.68				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By:	TM ME	Report Verified By:	
Report Prepared By:	ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSBAYOU40	**Date** 4.12.23	Time of Grab Sample 0915 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus @ HWY 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.64				
Temp. Water	°C	10	19.96				
Conductivity Field	µS/cm	94	75.58				
DO Probe	mg/L	299	7.20				
ORP	mV	90					
Salinity	PPTH	480	0.03				
DO % Saturation	Percent	301	78.7				
Turbidity, HACH	NTU	76	3.09				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	90				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: TM	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 4.12.23	Time of Grab Sample 0940 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☑ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☒ Ice			
Other Samples	☒TSS ☐ TDS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:
- low water level

LOCATION
Crescent lake @ Dam
Station ECSW-1
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.70				
Temp. Water	°C	10	20.65				
Conductivity Field	µS/cm	94	93.94				
DO Probe	mg/L	299	8.28				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	91.9				
Turbidity, HACH	NTU	76	2.32				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	80				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: TM ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 4.12.23	Time of Grab Sample 1010 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish ☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank ☐		FW Sed ☐		Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☑ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☑ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:
- slight biological sheen

LOCATION
Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.52				
Temp. Water	°C	10	19.78				
Conductivity Field	µS/cm	94	143.80				
DO Probe	mg/L	299	5.03				
ORP	mV	90					
Salinity	PPTH	480	0.06				
DO % Saturation	Percent	301	54.9				
Turbidity, HACH	NTU	76	2.10				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.0				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	75				
Cloud Cover	Percent	32	90				

Sample Taken By:	TM ME	Report Verified By:	
Report Prepared By:	TM ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 4.12.23	Time of Grab Sample 1045 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:
- slight biological sheen

LOCATION
Bayou Marcus Creek East Branch @ Old Golf Cart Crossing
Station ECSW-7
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.58				
Temp. Water	°C	10	19.84				
Conductivity Field	µS/cm	94	208.20				
DO Probe	mg/L	299	4.04				
ORP	mV	90	0.1				
Salinity	PPTH	480	0				
DO % Saturation	Percent	301	44.1				
Turbidity, HACH	NTU	76	5.98				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	90				

Sample Taken By:	TM ME	Report Verified By:	
Report Prepared By:	TM ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☒

Agency	Station	Date	Time of Grab Sample
21FLESC	CRESCENTLAKE20	4.12.23	1129 CST

(check as appropriate)		Soils/Sediment		Tissue	Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	by Foot	by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☐ TDS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num: 821852	Equipmt Used: ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	Equipmt ID Num: 2490	☐ Field Cleaned

Remarks:
- moderate biological sheen

LOCATION
Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.86				
Temp. Water	°C	10	20.65				
Conductivity Field	µS/cm	94	102.29				
DO Probe	mg/L	299	10.19				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	113.1				
Turbidity, HACH	NTU	76	1.70				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	90				

Sample Taken By: TM MTE	Report Verified By:
Report Prepared By: TM	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 4.12.23	Time of Grab Sample 1145 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek West Branch @Marcus Pointe Blvd.

Station ECSW-3

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.72				
Temp. Water	°C	10	20.64				
Conductivity Field	µS/cm	94	96.49				
DO Probe	mg/L	299	6.95				
ORP	mV	90	C				
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	77.0				
Turbidity, HACH	NTU	76	3.41				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	90				

Sample Taken By:	TM ME	Report Verified By:	
Report Prepared By:	TM ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 4.12.23
		Time of Grab Sample 1215 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION
Bayou Marcus Creek West Branch @ Longleaf Rd.
Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98					
pH Field	Std. Unit	400	6.72				
Temp. Water	°C	10	19.75				
Conductivity Field	µS/cm	94	88.36				
DO Probe	mg/L	299	5.83				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	63.6				
Turbidity, HACH	NTU	76	2.90				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	90				

Sample Taken By:	TM ME	Report Verified By:	
Report Prepared By:	TM ME	( ) CHANGE	

	Water Collection Depth: ☑0.2m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 4.12.2023	Time of Grab Sample 1235 CST

(check as appropriate)						**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☑	Equip Blank	☐			Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐			FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐			Marine Sed	☐	Other	On Shore	☑	☐	Gas Motor
Other:		Duplicate	☐			Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☑TKN ☑TP ☑NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☑ Ice ☑ H_2SO_4			☑ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑ Ice			
Other Samples	☑ TSS ☐ TDS ☑ Chl-a ☐ Other:	☑ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐	AGP ☐		

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☑ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 2490 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.57				
Temp. Water	°C	10	29.03				
Conductivity Field	µS/cm	94	72.88				
DO Probe	mg/L	299	4.26				
ORP	mV	90					
Salinity	PPTH	480	0.03				
DO % Saturation	Percent	301	46.8				
Turbidity, HACH	NTU	76	4.22				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	90				

Sample Taken By: TM ME	Report Verified By:
Report Prepared By: TM ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSBAYOU40	**Date** 5-17-23	Time of Grab Sample 9:55 CST

(check as appropriate)				Soils/Sediment		Tissue	Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus @ HWY 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.77				
Temp. Water	°C	10	27.3				
Conductivity Field	µS/cm	94	83.7				
DO Probe	mg/L	299	5.82				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	73.6				
Turbidity, HACH	NTU	76	3.23				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.09				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	40				

Sample Taken By:	TM ME CT	Report Verified By:	
Report Prepared By:	ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 5-17-23	Time of Grab Sample 10:10 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION
Crescent lake @ Dam
Station ECSW-1
Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.78				
Temp. Water	°C	10	29.6				
Conductivity Field	µS/cm	94	92.5				
DO Probe	mg/L	299	7.50				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	98.99				
Turbidity, HACH	NTU	76	1.50				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.97				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	25				

Sample Taken By: TM ME CT	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 5-17-23	Time of Grab Sample 10:45 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks:

LOCATION
Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.77				
Temp. Water	°C	10	26.1				
Conductivity Field	µS/cm	94	86.3				
DO Probe	mg/L	299	6.27				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	77.9				
Turbidity, HACH	NTU	76	4.09				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.22				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: TM ME CT	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 5-17-23	Time of Grab Sample 11:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** ME 24	☐ Field Cleaned
Remarks:	**LOCATION** 3321 Bayou Marcus Creek West Branch @Marcus Pointe Blvd. Station ECSW-3 Lat: N Long: W		

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.72				
Temp. Water	°C	10	25.3				
Conductivity Field	µS/cm	94	89.3				
DO Probe	mg/L	299	5.87				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	71.8				
Turbidity, HACH	NTU	76	4.40				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.72				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	40				

Sample Taken By: TM ME CT	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 5-17-23	Time of Grab Sample 11:30 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks:

LOCATION
Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.68				
Temp. Water	°C	10	25.08				
Conductivity Field	µS/cm	94	113.4				
DO Probe	mg/L	299	4.79				
ORP	mV	90					
Salinity	PPTH	480	0.06				
DO % Saturation	Percent	301	58.3				
Turbidity, HACH	NTU	76	2.31				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.84				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	55				

Sample Taken By:	TM ME CT	Report Verified By:	
Report Prepared By:	ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 5-17-23	Time of Grab Sample 11:45 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek East Branch @ Old Golf Cart Crossing

Station ECSW-7

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.65				
Temp. Water	°C	10	25.4				
Conductivity Field	µS/cm	94	136.3				
DO Probe	mg/L	299	3.41				
ORP	mV	90					
Salinity	PPTH	480	0.07				
DO % Saturation	Percent	301	41.9				
Turbidity, HACH	NTU	76	ME ~~3~~ 4.13				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	45				

Sample Taken By: TM ME CT	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 5-17-23	Time of Grab Sample 12:20 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks: Construction / vegetation clearing at site

LOCATION
Bayou Marcus Creek West Branch @ Longleaf Rd.
Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.86				
Temp. Water	°C	10	27.6				
Conductivity Field	µS/cm	94	78.7				
DO Probe	mg/L	299	6.05				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	77.2				
Turbidity, HACH	NTU	76	3.70				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.73				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	70				

Sample Taken By: TM ME CT	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW50	**Date** 5-17-23	Time of Grab Sample 12:30 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.37				
Temp. Water	°C	10	25.5				
Conductivity Field	µS/cm	94	78.3				
DO Probe	mg/L	299	0.48				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	5.96				
Turbidity, HACH	NTU	76	10.8				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.72				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	100				

Sample Taken By: TM ME CT	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSBAYOU40	**Date** 6-22-23	Time of Grab Sample 9:50 CST

(check as appropriate)						Soils/Sediment		Tissue	Collection Mode			
Surface Water	☒	Equip Blank	☐			Terrestrial	☐	Fish	by Foot		by Boat	
Ground Water	☐	Field Blank	☐			FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐			Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐			Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☐ Field Cleaned
Remarks:	**LOCATION** Bayou Marcus @ HWY 90 Lat: N Long: W		

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.52				
Temp. Water	°C	10	25.94				
Conductivity Field	µS/cm	94	71.57				
DO Probe	mg/L	299	5.71				
ORP	mV	90	305.93				
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	71.57				
Turbidity, HACH	NTU	76	6.13				
Temp. Air	°C	20	33				
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	15				

Sample Taken By:	TM ME KP CN	Report Verified By:	
Report Prepared By:	ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 6-22-23
		Time of Grab Sample 10:05 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION
Crescent lake @ Dam
Station ECSW-1
Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.56				
Temp. Water	°C	10	29.10				
Conductivity Field	µS/cm	94	74.33				
DO Probe	mg/L	299	6.85				
ORP	mV	90	284.40				
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	89.56				
Turbidity, HACH	NTU	76	2.95				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.27				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	15				

Sample Taken By: TM ME KP CN	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 6-22-23	Time of Grab Sample 10:40 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒ TKN ☒ TP ☒ NO_2NO_3 ☐ NH_3 ☐ TOC ☐ Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐ PO_4 ☐ Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks:

LOCATION
Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW-2

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.52				
Temp. Water	°C	10	27.19				
Conductivity Field	µS/cm	94	102.23				
DO Probe	mg/L	299	5.90				
ORP	mV	90	274.8				
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	74.63				
Turbidity, HACH	NTU	76	3.59				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.23				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	50				

Sample Taken By: TM ME DLP CN	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 6-22-23
		Time of Grab Sample 12:05 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☐ Ice			
Other Samples	☒ TSS ☐ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☑ Dipper: A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION
Bayou Marcus Creek West Branch @Marcus Pointe Blvd.
Station ECSW-3
Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.54				
Temp. Water	°C	10	27.51				
Conductivity Field	µS/cm	94	117.16				
DO Probe	mg/L	299	6.22				
ORP	mV	90	199.24				
Salinity	PPTH	480	0.06				
DO % Saturation	Percent	301	79.16				
Turbidity, HACH	NTU	76	9.46				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.35				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	75				

Sample Taken By: TM ME CN KP	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 6-22-23	Time of Grab Sample 12:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☐ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks: No Access, No sample

LOCATION
Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.
Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400					
Temp. Water	°C	10					
Conductivity Field	µS/cm	94					
DO Probe	mg/L	299					
ORP	mV	90					
Salinity	PPTH	480					
DO % Saturation	Percent	301					
Turbidity, HACH	NTU	76					
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By:	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKE20	Date 6-22-23	Time of Grab Sample 12:25 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coll	☐ Ice			
Other Samples	☒TSS ☒ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek East Branch @ Old Golf Ca

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.48290277 Long: W -87.269872

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.59				
Temp. Water	°C	10	26.70				
Conductivity Field	µmhos/cm	94	178.87				
DO Probe	mg/L	299	3.18				
ORP	mV	90	169.13				
Salinity	PPTH	480	0.09				
DO % Saturation	Percent	301	38.09				
Turbidity, HACH	NTU	76	11.5				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	0.34				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	45				

Sample Taken By: TM ME KP CN	Report Verified By:
Report Prepared By: ME	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW530	**Date** 4-22-23	Time of Grab Sample 13:00 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☐ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

No Access, No Sample

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400					
Temp. Water	°C	10					
Conductivity Field	µS/cm	94					
DO Probe	mg/L	299					
ORP	mV	90					
Salinity	PPTH	480					
DO % Saturation	Percent	301					
Turbidity, HACH	NTU	76					
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By:		Report Verified By:	
Report Prepared By:	ME	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW30 50	**Date** 6-22-23
		Time of Grab Sample 12:50 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☐ TDS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks: Beaver beav beav blow blow

LOCATION
Bayou Marcus Creek West Branch @ Longleaf Rd.
Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	~~6.59~~ 6.33				
Temp. Water	°C	10	~~26.79~~ 27.19				
Conductivity Field	µS/cm	94	92.82				
DO Probe	mg/L	299	0.97				
ORP	mV	90	238.04				
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	12.33				
Turbidity, HACH	NTU	76	7.10				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.17				
Tide Stage	Code	67	↗ ME				
Precipitation (24hr)	Inches	45	Y				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	50				

Sample Taken By:	TM ME KP CN	Report Verified By:	
Report Prepared By:	ME	( ) CHANGE	

		Water Collection Depth: ☑0.2m ☐Other:	Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** MARCUSBAYOU40	**Date** 7.18.23	Time of Grab Sample 1000 CST

(check as appropriate)		**Soils/Sediment**	**Tissue**	**Collection Mode**	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐	Fish ☐	**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐	Other	On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐			

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 821862	**Equipmt Used:** ☐ Sample Container ☑ Dipper: 1L ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☑ Field Cleaned

Remarks:

LOCATION

Bayou Marcus @ HWY 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.43				
Temp. Water	°C	10	27.55				
Conductivity Field	µS/cm	94	70.80				
DO Probe	mg/L	299	5.74				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	72.9				
Turbidity, HACH	NTU	76	3.80				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.9				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	0				

Sample Taken By: TM ME KP	Report Verified By:
Report Prepared By: TM	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 7.18.23	Time of Grab Sample 1020 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☑ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒Dipper ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☑ Field Cleaned

Remarks:	**LOCATION** Crescent lake @ Dam Station ECSW-1 Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.54				
Temp. Water	°C	10	31.03				
Conductivity Field	µS/cm	94	78.60				
DO Probe	mg/L	299	7.95				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	106.0				
Turbidity, HACH	NTU	76	4.62				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.0				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By:	TM ME KP	Report Verified By:	
Report Prepared By:	TM	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 7.18.23	Time of Grab Sample 1055 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☒ Field Cleaned

Remarks:

LOCATION
Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.56				
Temp. Water	°C	10	28.66				
Conductivity Field	µS/cm	94	104.9				
DO Probe	mg/L	299	7.06				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	90.9				
Turbidity, HACH	NTU	76	4.07				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	1.2				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: ME KP	Report Verified By:
Report Prepared By: TM	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 7.18.23	Time of Grab Sample 1110 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☒Dipper:A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☒ Field Cleaned
Remarks:	**LOCATION** Bayou Marcus Creek West Branch @Marcus Pointe Blvd. Station ECSW-3 Lat: N Long: W		

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98					
pH Field	Std. Unit	400	6.41				
Temp. Water	°C	10	28.16				
Conductivity Field	µS/cm	94	101.4				
DO Probe	mg/L	299	5.82				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	74.3				
Turbidity, HACH	NTU	76	7.64				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By:	TM ME KP	Report Verified By:	
Report Prepared By:	TM	( ) CHANGE	

	Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** MARCUSCRKE10	**Date** 7.18.23	Time of Grab Sample CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water ☐	Equip Blank ☐	Terrestrial ☐		Fish ☐	**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐	Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐	On Shore ☐	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐				

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num:	**Equipmt Used:** ☐ Sample Container ☐ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:**	☐ Field Cleaned

Remarks:

NO SAMPLE

NO ACCESS

LOCATION

Bayou Marcus Creek East Branch @ Marcus Pointe Blvd.

Station ECSW-6

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98					
pH Field	Std. Unit	400					
Temp. Water	°C	10					
Conductivity Field	µS/cm	94					
DO Probe	mg/L	299					
ORP	mV	90					
Salinity	PPTH	480					
DO % Saturation	Percent	301					
Turbidity, HACH	NTU	76					
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By:		Report Verified By:	
Report Prepared By:	TM	( ) CHANGE	

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **MARCUSCRKE20**	Date 7.18.23	Time of Grab Sample 1125 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☐ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321 ☒ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek East Branch @ Old Golf Ca

Paper Folder Name **Marcus_AWQ**
Sampling Run Marcus/AWQ
Project AWQ\MC
Lat: N 30.48290277 Long: W -87.269872

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.49				
Temp. Water	°C	10	27.61				
Conductivity Field	µmhos/cm	94	159.6				
DO Probe	mg/L	299	2.41				
ORP	mV	90					
Salinity	PPTH	480	0.08				
DO % Saturation	Percent	301	30.5				
Turbidity, HACH	NTU	76	13.3				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	25				
Cloud Cover	Percent	32	9				

Sample Taken By: ME KP	Report Verified By:
Report Prepared By: TM	( ) CHANGE

	Water Collection Depth: ☑0.2m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKW50	Date 7.18.23	Time of Grab Sample 1150 CST

(check as appropriate)		Soils/Sediment		Tissue	Collection Mode	
Surface Water	☑ Equip Blank ☐	Terrestrial	☐	Fish	by Foot	by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☑	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821852	**Equipmt Used:** ☐ Sample Container ☑ Dipper: A ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☑ Field Cleaned

Remarks:
- low D.O.

LOCATION
Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.
Station ECSW-5
Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	Φ.2				
pH Field	Std. Unit	400	6.29				
Temp. Water	°C	10	27.85				
Conductivity Field	µS/cm	94	87.8				
DO Probe	mg/L	299	Φ.75				
ORP	mV	90	~~1.55~~				
Salinity	PPTH	480					
DO % Saturation	Percent	301	~~9.55~~	9.6			
Turbidity, HACH	NTU	76	5.39				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	Φ.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	Φ				
Cloud Cover	Percent	32	Φ				

Sample Taken By:	TM ME KP	Report Verified By:	
Report Prepared By:	TM	( ) CHANGE	

	Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	**Station** MARCUSCRKW30	**Date** 7.18.23	Time of Grab Sample CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**	
Surface Water	☐ Equip Blank ☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	On Shore ☐	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐ Ice			
Other Samples	☐ TSS ☐ TDS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num:	**Equipmt Used:** ☐ Sample Container ☐ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:**	☐ Field Cleaned

Remarks:

- NO ACCESS DUE TO BRIDGE CONSTRUCTION
- NO SAMPLE

LOCATION

Bayou Marcus Creek West Branch @ Longleaf Rd.
Station ECSW-4

Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98					
pH Field	Std. Unit	400					
Temp. Water	°C	10					
Conductivity Field	µS/cm	94					
DO Probe	mg/L	299					
ORP	mV	90					
Salinity	PPTH	480					
DO % Saturation	Percent	301					
Turbidity, HACH	NTU	76					
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By:		Report Verified By:	
Report Prepared By:	TM	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSBAYOU40	Date: 8/23/23	Time of Grab Sample: 9:25 CST

(check as appropriate)		Soils/Sediment		Tissue	Collection Mode	
Surface Water ☑	Equip Blank ☐	Terrestrial ☐		Fish ☐	**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐	Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☑TKN ☑TP ☑NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☑ Ice ☑ H_2SO_4			☑ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☑E.coli	☑ Ice			
Other Samples	☑TSS ☐ TDS ☑Chl-a ☐ Other:	☑ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: 821452	**Equipmt Used:** ☐ Sample Container ☒ Dipper: N ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321	☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus @ HWY 90

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.7				
pH Field	Std. Unit	400	6.26				
Temp. Water	°C	10	27.33				
Conductivity Field	µS/cm	94	90.4				
DO Probe	mg/L	299	5.36				
ORP	mV	90	401.5				
Salinity	PPTH	480	0.0				
DO % Saturation	Percent	301	67.6				
Turbidity, HACH	NTU	76	3.41				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.67				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: AJM / ME	Report Verified By:
Report Prepared By: AJM	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE10	**Date** 8/23/23	Time of Grab Sample 9:55 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☒	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☒NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☒ Ice ☒ HNO_3			☒ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒TSS ☒TDS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: 8400 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:
MS LLHg MS/MSD + Blank

LOCATION
Crescent lake @ Dam
Station ECSW-1

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.56				
Temp. Water	°C	10	32.03				
Conductivity Field	µS/cm	94	100.75				
DO Probe	mg/L	299	7.82				
ORP	mV	90	407.7				
Salinity	PPTH	480	0.1				
DO % Saturation	Percent	301	107.1				
Turbidity, HACH	NTU	76	4.06				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: AM/ME		Report Verified By:	
Report Prepared By:	AM	( ) CHANGE	

	Water Collection Depth: ☒0.2m ☐Other:	Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** CRESCENTLAKE20	**Date** 8/23/23
		Time of Grab Sample 10:55 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☐NO_2NO_3 ☒NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☒ Ice ☒ HNO_3			☒ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☒TDS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AP-450 621652	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION
Crescent Lake West Branch @ Golf Cart Bridge
Station ECSW-2

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.69				
Temp. Water	°C	10	31.6				
Conductivity Field	µS/cm	94	103.6				
DO Probe	mg/L	299	9.83				
ORP	mV	90	365.1				
Salinity	PPTH	480	0.1				
DO % Saturation	Percent	301	133.65				
Turbidity, HACH	NTU	76	1.15				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.94				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	0				

Sample Taken By: AM ME	Report Verified By:
Report Prepared By: AM	( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKW20	**Date** 8/23/23	Time of Grab Sample 12:15 CST

(check as appropriate)		**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐			

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒ TKN ☒ TP ☒ NO_2NO_3 ☐ NH_3 ☐ TOC ☐ Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☒ Ice ☒ HNO_3			☒ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☒ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐ PO_4 ☐ Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐		AGP ☐	

Meter ID Num: YSI 952	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION
Bayou Marcus Creek West Branch @Marcus Pointe Blvd.
Station ECSW-3
Lat: N Long: W

Parameter	**Unit**	**Code**	**Field Depth 1**	**Field Depth 2**	**Field Depth 3**	**Qualifier**	**Notes**
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.66				
Temp. Water	°C	10	29.85				
Conductivity Field	µS/cm	94	88.5				
DO Probe	mg/L	299	5.35				
ORP	mV	90	320.7				
Salinity	PPTH	480	0.0				
DO % Saturation	Percent	301	70.6				
Turbidity, HACH	NTU	76	2.85				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.3				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	70				
Cloud Cover	Percent	32	10				

Sample Taken By: DM/ME	Report Verified By:
Report Prepared By: AM	( ) CHANGE

EscWQLM

Water Quality Report Form NS

		Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☐	
Agency: 21FLESC	Station: MARCUSCRKE10	Date: 8/8/23	Time of Grab Sample: 12:46 CST		

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot		by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num	**Equipmt Used:** ☐ Sample Container ☐ Dipper: ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num**	☐ 3x rinsed

Remarks:
No access NC sample

LOCATION Bayou Marcus Creek East Branch @ Marcus Poi

Paper Folder Name: **Marcus_AWQ**
Sampling Run: Marcus/AWQ
Project: AWQ\MC
Lat: N 30.47874041 Long: W -87.268763

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400					
Temp. Water	°C	10					
Conductivity Field	µmhos/cm	94					
DO Probe	mg/L	299					
ORP	mV	90					
Salinity	PPTH	480					
DO % Saturation	Percent	301					
Turbidity, HACH	NTU	76					
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By: MF/AM
Report Prepared By: AM

Report Verified By:
( ) CHANGE

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	**Station** MARCUSCRKE20	**Date** 8/23/23	Time of Grab Sample 12:50 CST

(check as appropriate)				**Soils/Sediment**		**Tissue**	**Collection Mode**			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	**by Foot**		**by Boat**	
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish ☐	Wading	☐	☐	Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	On Shore	☒	☐	Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	**Parameter(s)**	**Preservation**	**Acid Lot**	**Expiration**	**Check pH**
Preserved Nutrients	☒ TKN ☒ TP ☒ NO_2NO_3 ☒ NH_3 ☐ TOC ☐ Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☒ Ice ☒ HNO_3			☒ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☒ TDS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐ PO_4 ☐ Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: ATMCO 8L185L	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other:	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:
Extreme orange, turbid
bioshen

LOCATION
Bayou Marcus Creek East Branch @ Old Golf Cart Crossing
Station ECSW-7

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.57				
Temp. Water	°C	10	29.85				
Conductivity Field	µS/cm	94	248.12				
DO Probe	mg/L	299	0.39				
ORP	mV	90	289.3				
Salinity	PPTH	480	0.1				
DO % Saturation	Percent	301	5.21				
Turbidity, HACH	NTU	76	35.7				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.76				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	20				
Cloud Cover	Percent	32	20				

Sample Taken By: AM/ME		Report Verified By:	
Report Prepared By:	AM	( ) CHANGE	

EscWQLM

Water Quality Report Form

NS

	Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station **MARCUSCRKW30**	Date 8/23/23	Time of Grab Sample 11:20 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☐	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☐	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num	**Equipmt Used:** ☐ Sample Container ☐ Dipper: ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num**	☐ 3x rinsed

Remarks:

No sample, No access

LOCATION Bayou Marcus Creek West Branch @ Longleaf R

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.48622123 Long: W -87.288278

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400					
Temp. Water	°C	10					
Conductivity Field	µmhos/cm	94					
DO Probe	mg/L	299					
ORP	mV	90					
Salinity	PPTH	480					
DO % Saturation	Percent	301					
Turbidity, HACH	NTU	76					
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By: ~~DA~~ MC / AMM	Report Verified By:
Report Prepared By: AMM	( ) CHANGE

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW50	Date 8/23/23	Time of Grab Sample 13:45 CST

(check as appropriate)		Soils/Sediment	Tissue	Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐	Fish	by Foot	by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐	Other	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐			

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☒NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☒ Ice ☒ HNO_3			☒ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒TSS ☒TDS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num: AT400 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other: N	**Equipmt ID Num:** 3321 ☐ Field Cleaned

Remarks:

LOCATION

Bayou Marcus Creek Upper West Branch @ Rolling Hills Rd.

Station ECSW-5

Lat: N Long: W

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.05				
Temp. Water	°C	10	31.27				
Conductivity Field	µS/cm	94	67.5				
DO Probe	mg/L	299	1.20				
ORP	mV	90	372.3				
Salinity	PPTH	480	0.0				
DO % Saturation	Percent	301	16.7				
Turbidity, HACH	NTU	76	3.79				
Temp. Air	°C	20					
Secchi	Meters	78					
Water Depth, Max	Meters	82903	0.5				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	10				
Cloud Cover	Percent	32	30				

Sample Taken By:	AM / MG	Report Verified By:	
Report Prepared By:	AM	( ) CHANGE	

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **MARCUSBAYOU40**	Date 9/11/23	Time of Grab Sample 13:15 CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collection Mode			
Surface Water	☐	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐	AGP ☐	

Meter ID Num 021852	**Equipmt Used:** ☐ Sample Container ☒ Dipper B ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490 ☒ 3x rinsed

Remarks: Micro only

LOCATION Bayou Marcus @ HWY 90

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ

Lat: N 30.4482215 Long: W -87.29071

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.165				
Temp. Water	°C	10	27.7				
Conductivity Field	µmhos/cm	94	82.14				
DO Probe	mg/L	299	6.27				
ORP	mV	90	339			J	NO CV
Salinity	PPTH	480	0.038				
DO % Saturation	Percent	301	79.56				
Turbidity, HACH	NTU	76	4.90				
Secchi Depth	Meters	78	—				
Water Depth, Total	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	100				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/DV	Report Verified By: dm
Report Prepared By: DV	( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station CRESCENTLAKE10		Date 9/11/23	Time of Grab Sample 13:35 CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collection Mode			
Surface Water	☐	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐		AGP ☐

Meter ID Num 021852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other: B ☐ INT:	**Turbidity Meter ID Num** 2490	☒ 3x rinsed

Remarks: Micro only

LOCATION Crescent Lake @ Dam

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.46231972 Long: W -87.272839

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.84				
Temp. Water	°C	10	28.93				
Conductivity Field	µmhos/cm	94	92.52				
DO Probe	mg/L	299	10.02				
ORP	mV	90	390.9			J	NO CV
Salinity	PPTH	480	0.043				
DO % Saturation	Percent	301	130.03				
Turbidity, HACH	NTU	76	~~0.150~~	~~0.16~~	7.09		
Secchi Depth	Meters	78	—				
Water Depth, Total	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: DM DV

Report Prepared By: DV

Report Verified By: dm

( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☐
Agency 21FLESC	Station Crescent Lake 20 MARCUSCRKW20		Date 9/11/23	Time of Grab Sample 14:15 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode			
Surface Water ☐	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot		by Boat	
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐	Paddle	
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☑	☐	Gas Motor	
Other:	Duplicate ☐	Sludge ☐							

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐		AGP ☐

Meter ID Num 82852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: B ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:
MICRO only
Logged in MARCUSCRKW20 on 8th

LOCATION ~~Bayou Marcus Creek West Branch @ Marcus Ro~~ Crescent Lake West Brch

Paper Folder Name	**Marcus_AWQ**
Sampling Run	Marcus/AWQ
Project	AWQ\MC
Lat: N 30.47980175	Long: W -87.284308

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	7.05			J	NOT QUANTITATIVELY BRACKETED
Temp. Water	°C	10	28.25				
Conductivity Field	µmhos/cm	94	99.87				
DO Probe	mg/L	299	12.42				
ORP	mV	90	407.1			J	NO CV
Salinity	PPTH	480	0.047				
DO % Saturation	Percent	301	159.3				
Turbidity, HACH	NTU	76	1.96				
Secchi Depth	Meters	78	—				
Water Depth, Total	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	8				
Cloud Cover	Percent	32	8				

Sample Taken By: DM/DV	Report Verified By: dm
Report Prepared By: DV	( ) CHANGE

MARCUSCRKWZO

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station ~~CRESCENTLAKE20~~		Date 9/11/23	Time of Grab Sample 1515 CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ~~☒ Dipper:~~ ☐ Van Dorn ☒ Other: discharge ☐ INT:	**Turbidity Meter ID Num** 2490	☒ 3x rinsed

Remarks:
Micro only logged meter under MARCUSCRKWZO
15:23 mark 2nd set of

LOCATION ~~Crescent Lake West Branch @ Golf Cart Bridge~~ Marcus Creek West Branch @ Main Blvd

Paper Folder Name	Marcus_AWQ
Sampling Run	Marcus/AWQ
Project	AWQ\MC
Lat: N	30.47319792
Long: W	-87.279236

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	8.96				
Temp. Water	°C	10	26.02				
Conductivity Field	µmhos/cm	94	87.95				
DO Probe	mg/L	299	5.93				
ORP	mV	90	313.3			J	NO CV
Salinity	PPTH	480	0.041				
DO % Saturation	Percent	301	74.09				
Turbidity, HACH	NTU	76	3.72				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By: DM	Report Verified By:
Report Prepared By: DV	( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW30		Date 9/11/23	Time of Grab Sample 15:45 CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collectlon Mode	
Surface Water ☐	Equip Blank ☐	Terrestrial ☐		Fish ☐		**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: B ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: upstream side of bridge Macro only, NW corner

LOCATION Bayou Marcus Creek West Branch @ Longleaf R

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.48622123 Long: W -87.288278

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.79				
Temp. Water	°C	10	28.92				
Conductivity Field	µmhos/cm	94	82.09				
DO Probe	mg/L	299	6.51				
ORP	mV	90	330			J	NO CV
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	84.60				
Turbidity, HACH	NTU	76	2.58				
Secchi Depth	Meters	78	—				
Water Depth, Total	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: DM/DV

Report Prepared By: DV

Report Verified By: dm

( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **MARCUSCRKW50**	Date 9/11/23	Time of Grab Sample 16:05 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water ☐	Equip Blank ☐	Terrestrial ☐		Fish ☐		**by Foot**		**by Boat**	
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐		☐	Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒		☐	Gas Motor
Other:	Duplicate ☐	Sludge ☐							

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490 ☒ 3x rinsed

Remarks:

Micro only

Meter 2nd mark 16:09:52

LOCATION Bayou Marcus Creek Upper West Branch @ Roll

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.5015139 Long: W -87.284738

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.44				
Temp. Water	°C	10	30.19				
Conductivity Field	µmhos/cm	94	65.299				
DO Probe	mg/L	299	4.12				
ORP	mV	90	382.59			J	NO CV
Salinity	PPTH	480	0.030				
DO % Saturation	Percent	301	54.86				
Turbidity, HACH	NTU	76	3.77				
Secchi Depth	Meters	78	—				
Water Depth, Total	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/DV	Report Verified By: dm
Report Prepared By: DV	( ) CHANGE

EscWQLM

Water Quality Report Form

No Sample

		Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☐	
Agency 21FLESC	Station MARCUSCRKE10		Date 9/11/23	Time of Grab Sample ~~11:25~~ CST	

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☐	Equip Blank ☐	Terrestrial ☐		Fish ☐		by Foot	by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☐	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☐ E.coli	☐ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num ~~0021853~~	**Equipmt Used:** ☐ Sample Container ☐ Dipper: ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: No sample bridge only option, too dangerous

LOCATION Bayou Marcus Creek East Branch @ Marcus Poi

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.47874041 Long: W -87.268763

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400					
Temp. Water	°C	10					
Conductivity Field	µmhos/cm	94					
DO Probe	mg/L	299					
ORP	mV	90					
Salinity	PPTH	480					
DO % Saturation	Percent	301					
Turbidity, HACH	NTU	76					
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903					
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45					
Tree Canopy	Percent	83515					
Cloud Cover	Percent	32					

Sample Taken By:	Report Verified By:
Report Prepared By: DV	( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☑
Agency 21FLESC	Station MARCUSCRKE20		Date 9/11/23	Time of Grab Sample 16:35 CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collectlon Mode			
Surface Water	☐	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☑	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☑ E.coli	☑ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐	Phytoplankton ☐	Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: B ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: Micro only

LOCATION Bayou Marcus Creek East Branch @ Old Golf Ca

Paper Folder Name **Marcus_AWQ**
Sampling Run Marcus/AWQ
Project AWQ\MC
Lat: N 30.48290277 Long: W -87.269872

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.43				
Temp. Water	°C	10	27.47				
Conductivity Field	µmhos/cm	94	169.24				
DO Probe	mg/L	299	0.85				
ORP	mV	90	123.6			J	NO CV
Salinity	PPTH	480	0.89				
DO % Saturation	Percent	301	10.75				
Turbidity, HACH	NTU	76	19.9				
Secchi Depth	Meters	78	—				
Water Depth, Total	Meters	82903	—				
Tide Stage	Code	67	—				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM/DV
Report Prepared By: DV

Report Verified By: MM
( ) CHANGE

6 6

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSBAYOU40		Date 10-12-2023	Time of Grab Sample 0930 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒ TKN ☒ TP ☒ NO_2NO_3 ☐ NH_3 ☐ TOC ☐ Other:	☐ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coll	☐ Ice			
Other Samples	☒ TSS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐ PO_4 ☐ Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus @ HWY 90

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ

Lat: N 30.4482215 Long: W -87.29071

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.39				
Temp. Water	°C	10	15.5				
Conductivity Field	µmhos/cm	94	82.2				
DO Probe	mg/L	299	7.42				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	73.98				
Turbidity, HACH	NTU	76	2.21				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	1.78				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **CRESCENTLAKE10**	Date 10-18-23	Time of Grab Sample 10:00 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:		**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Crescent Lake @ Dam

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.46231972 Long: W -87.272839

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.43				
Temp. Water	°C	10	17.5				
Conductivity Field	µmhos/cm	94	95.8				
DO Probe	mg/L	299	9.55				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	99.2				
Turbidity, HACH	NTU	76	3.49				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	1.16				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME

Report Prepared By: ME

Report Verified By:

( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: CRESCENTLAKE20	Date: 10-18-23	Time of Grab Sample: 10:50 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Crescent Lake West Branch @ Golf Cart Bridge

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.47319792 Long: W -87.279236

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.44				
Temp. Water	°C	10	16.2				
Conductivity Field	µmhos/cm	94	108.9				
DO Probe	mg/L	299	8.93				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	90.3				
Turbidity, HACH	NTU	76	1.59				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	2.05				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW20	Date: 10-18-23	Time of Grab Sample: 11:25 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: Depth sensor on file is incorrect

LOCATION Bayou Marcus Creek West Branch @ Marcus Po

Paper Folder Name **Marcus_AWQ**
Sampling Run Marcus/AWQ
Project AWQ\MC
Lat: N 30.47980175 Long: W -87.284308

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.48				
Temp. Water	°C	10	15.3				
Conductivity Field	µmhos/cm	94	108.7				
DO Probe	mg/L	299	7.85				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	77.9				
Turbidity, HACH	NTU	76	2.10				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	0.5				
Tide Stage	Code	67	~~90~~ ME				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	90				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE10	Date: 10-18-23	Time of Grab Sample: 13:20 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	by Foot	by Boat
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒ TKN ☒ TP ☒ NO_2NO_3 ☐ NH_3 ☐ TOC ☐ Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐ PO_4 ☐ Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: Depth on file is incorrect

LOCATION Bayou Marcus Creek East Branch @ Marcus Poi

Paper Folder Name: **Marcus_AWQ**

Sampling Run: Marcus/AWQ

Project: AWQ\MC

Lat: N 30.47874041 Long: W -87.268763

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.23				
Temp. Water	°C	10	16.98				
Conductivity Field	µmhos/cm	94	119.1				
DO Probe	mg/L	299	4.54				
ORP	mV	90					
Salinity	PPTH	480	0.06				
DO % Saturation	Percent	301	47.7				
Turbidity, HACH	NTU	76	7.08				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	0.8				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME

Report Prepared By: ME

Report Verified By:

( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKE20	Date: 10-18-23	Time of Grab Sample: 13:40 CST

(check as appropriate)		Solls/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒ TKN ☒ TP ☒ NO_2NO_3 ☐ NH_3 ☐ TOC ☐ Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐ PO_4 ☐ Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: Depth on file is incorrect.

LOCATION Bayou Marcus Creek East Branch @ Old Golf Ca

Paper Folder Name: **Marcus_AWQ**
Sampling Run: Marcus/AWQ
Project: AWQ\MC
Lat: N 30.48290277 Long: W -87.269872

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.37				
Temp. Water	°C	10	16.6				
Conductivity Field	µmhos/cm	94	186.8				
DO Probe	mg/L	299	3.38				
ORP	mV	90					
Salinity	PPTH	480	0.09				
DO % Saturation	Percent	301	34.6				
Turbidity, HACH	NTU	76	7.07				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	0.7				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	30				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW30	Date: 10-18-23	Time of Grab Sample: 12:10 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒ TKN ☒ TP ☒ NO_2NO_3 ☐ NH_3 ☐ TOC ☐ Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☒ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐ PO_4 ☐ Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: New site access, upstream of original site (due to bridge construction)

LOCATION Bayou Marcus Creek West Branch @ Longleaf R

Paper Folder Name: **Marcus_AWQ**
Sampling Run: Marcus/AWQ
Project: AWQ\MC
Lat: N 30.48622123 Long: W -87.288278

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.52				
Temp. Water	°C	10	15.7				
Conductivity Field	µmhos/cm	94	86.7				
DO Probe	mg/L	299	6.45				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	64.7				
Turbidity, HACH	NTU	76	1.61				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	1.00				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	35				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW50	Date: 10-18-23	Time of Grab Sample: 12:40 CST

(check as appropriate)		Solls/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: A ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks: Depth on file is incorrect

LOCATION Bayou Marcus Creek Upper West Branch @ Roll

Paper Folder Name: **Marcus_AWQ**
Sampling Run: Marcus/AWQ
Project: AWQ\MC
Lat: N 30.5015139 Long: W -87.284738

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.33				
Temp. Water	°C	10	18.99				
Conductivity Field	µmhos/cm	94	65.5				
DO Probe	mg/L	299	5.31				
ORP	mV	90					
Salinity	PPTH	480	0.03				
DO % Saturation	Percent	301	57.1				
Turbidity, HACH	NTU	76	~~4.00~~ 1.12				
Secchi Depth	Meters	78					
Water Depth, Total	Meters	82903	1.00				
Tide Stage	Code	67					
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSBAYOU40	Date: 11-7-23	Time of Grab Sample: 1040 CST

(check as appropriate)		Solls/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coll	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus @ HWY 90

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ

Lat: N 30.4482215 Long: W -87.29071

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.01				
Temp. Water	°C	10	14.12				
Conductivity Field	µmhos/cm	94	78.86				
DO Probe	mg/L	299	7.26				
ORP	mV	90	\				
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	70.29				
Turbidity, HACH	NTU	76	1.91				
Secchi Depth	Meters	78	\				
Water Depth, Total	Meters	82903	0.8				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	10				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: DM	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **CRESCENTLAKE10**	Date 11-7-23	Time of Grab Sample 1110 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed
Remarks:	**LOCATION** Crescent Lake @ Dam Paper Folder Name **Marcus_AWQ** Sampling Run Marcus/AWQ Project AWQ\MC Lat: N 30.46231972 Long: W -87.272839		

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.29				
Temp. Water	°C	10	15.95				
Conductivity Field	µmhos/cm	94	92.11				
DO Probe	mg/L	299	10.54				
ORP	mV	90	\				
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	104.2				
Turbidity, HACH	NTU	76	3.83				
Secchi Depth	Meters	78	\				
Water Depth, Total	Meters	82903	0.6				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	10				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: DM	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **CRESCENTLAKE20**	Date 11-7-23	Time of Grab Sample 12:00 CST

(check as appropriate)		Solls/Sediment		Tissue		Collection Mode		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coll	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Crescent Lake West Branch @ Golf Cart Bridge

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.47319792 Long: W -87.279236

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.28				
Temp. Water	°C	10	16.95				
Conductivity Field	µmhos/cm	94	102.93				
DO Probe	mg/L	299	10.03				
ORP	mV	90	\				
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	103.35				
Turbidity, HACH	NTU	76	1.69				
Secchi Depth	Meters	78	\				
Water Depth, Total	Meters	82903	2.0				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: DM	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency: 21FLESC	Station: MARCUSCRKW20	Date: 11-7-23	Time of Grab Sample: 1215 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek West Branch @ Marcus Po

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.47980175 Long: W -87.284308

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.35				
Temp. Water	°C	10	14.32				
Conductivity Field	µmhos/cm	94	80.73				
DO Probe	mg/L	299	7.25				
ORP	mV	90	\				
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	70.58				
Turbidity, HACH	NTU	76	1.85				
Secchi Depth	Meters	78	\				
Water Depth, Total	Meters	82903	0.4				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	10				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **MARCUSCRKW30**	Date 11-7-23	Time of Grab Sample 1245 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490 ☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek West Branch @ Longleaf R

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.48622123 Long: W -87.288278

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	**0.2**				
pH Field	Std. Unit	400	6.43				
Temp. Water	°C	10	15.51				
Conductivity Field	µmhos/cm	94	80.28				
DO Probe	mg/L	299	6.33				
ORP	mV	90	/				
Salinity	PPTH	480	0.4				
DO % Saturation	Percent	301	83.3				
Turbidity, HACH	NTU	76	1.27				
Secchi Depth	Meters	78	/				
Water Depth, Total	Meters	82903	1.4				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	10				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: DM	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **MARCUSCRKW50**	Date 11-7-23	Time of Grab Sample 1310 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek Upper West Branch @ Roll

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.5015139 Long: W -87.284738

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.46				
Temp. Water	°C	10	15.67				
Conductivity Field	µmhos/cm	94	62.23				
DO Probe	mg/L	299	5.60				
ORP	mV	90	\				
Salinity	PPTH	480	0.03				
DO % Saturation	Percent	301	56.20				
Turbidity, HACH	NTU	76	0.88				
Secchi Depth	Meters	78	\				
Water Depth, Total	Meters	82903	0.9				
Tide Stage	Code	67	\				
Precipitation (24hr)	Inches	45	2				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	10				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: DM	( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☒ 0.2m ☐Other:		Collection Container Triple Rinsed ☒	
Agency 21FLESC	Station MARCUSCRKE10	Date 11-7-23	Time of Grab Sample 1340 CST		

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐	Fish ☐	by Foot	by Boat
Ground Water ☐	Field Blank ☐	FW Sed ☐	Shellfish ☐	Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐	Other ☐	On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐			

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek East Branch @ Marcus Poi

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.47874041 Long: W -87.268763

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.28				
Temp. Water	°C	10	15.37				
Conductivity Field	µmhos/cm	94	125.62				
DO Probe	mg/L	299	4.38				
ORP	mV	90	~~0.06~~				
Salinity	PPTH	480	0.06	0.06			
DO % Saturation	Percent	301	43.76				
Turbidity, HACH	NTU	76	1.68	1.68			
Secchi Depth	Meters	78	/				
Water Depth, Total	Meters	82903	0.5				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	10				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: DM	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒ 0.2m ☐ Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station **MARCUSCRKE20**	Date 11-7-23	Time of Grab Sample 1405 CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collection Mode	
Surface Water ☒	Equip Blank ☐	Terrestrial ☐		Fish ☐		**by Foot**	**by Boat**
Ground Water ☐	Field Blank ☐	FW Sed ☐		Shellfish ☐		Wading ☐	☐ Paddle
Waste Water ☐	Trip Blank ☐	Marine Sed ☐		Other ☐		On Shore ☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge ☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☐TKN ☐TP ☐NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☐ Ice ☐ H_2SO_4			☐ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☐ TSS ☐ Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num 821852	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 2490	☐ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek East Branch @ Old Golf Ca

Paper Folder Name **Marcus_AWQ**
Sampling Run Marcus/AWQ
Project AWQ\MC
Lat: N 30.48290277 Long: W -87.269872

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.47				
Temp. Water	°C	10	15.20				
Conductivity Field	µmhos/cm	94	199.55				
DO Probe	mg/L	299	2.75				
ORP	mV	90	~~0.09~~				
Salinity	PPTH	480	0.09				
DO % Saturation	Percent	301	27.56				
Turbidity, HACH	NTU	76	5.09				
Secchi Depth	Meters	78	/				
Water Depth, Total	Meters	82903	0.9				
Tide Stage	Code	67	/				
Precipitation (24hr)	Inches	45	N				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	5				

Sample Taken By: DM ME	Report Verified By:
Report Prepared By: ME	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSBAYOU40	Date 12-18-2023	Time of Grab Sample 1005 CST

(check as appropriate)		Soils/Sediment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num T38999	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☒ 3x rinsed

Remarks:

LOCATION Bayou Marcus @ HWY 90

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ

Lat: N 30.4482215 Long: W -87.29071

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.90				
Temp. Water	°C	10	13.8				
Conductivity Field	µmhos/cm	94	73.9				
DO Probe	mg/L	299	8.79				
ORP	mV	90					
Salinity	PPTH	480	0.03				
DO % Saturation	Percent	301	84.6				
Turbidity, HACH	NTU	76	1.80				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	0.65				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	50				
Cloud Cover	Percent	32	0				

Sample Taken By: SCD DM ME	Report Verified By:
Report Prepared By: SCD	( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station CRESCENTLAKE10	Date 12-18-23	Time of Grab Sample 10:35	CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collection Mode		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coll	☐ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☐ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 738999	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☒ 3x rinsed

Remarks:

LOCATION Crescent Lake @ Dam

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.46231972 Long: W -87.272839

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	7.27				
Temp. Water	°C	10	13.8				
Conductivity Field	µmhos/cm	94	86.4				
DO Probe	mg/L	299	9.71				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	93.6				
Turbidity, HACH	NTU	76	2.23				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	0.41				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: SCD DM ME	Report Verified By:
Report Prepared By: SCD	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station CRESCENTLAKE20	Date 12-18-23	Time of Grab Sample 11:10 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coli	☒ Ice			
Other Samples	☒ TSS ☐ Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 738999	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☒ 3x rinsed

Remarks:

LOCATION Crescent Lake West Branch @ Golf Cart Bridge

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.47319792 Long: W -87.279236

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.94				
Temp. Water	°C	10	15.05				
Conductivity Field	µmhos/cm	94	105.1				
DO Probe	mg/L	299	9.35				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	92.6				
Turbidity, HACH	NTU	76	1.61				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	1.69				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME SCD	Report Verified By:
Report Prepared By: SCD	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☐0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW20	Date 12-18-23	Time of Grab Sample 1140 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coll	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐	Periphyton ☐			AGP ☐

Meter ID Num 738999	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☒ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek West Branch @ Marcus Po

Paper Folder Name **Marcus_AWQ**
Sampling Run Marcus/AWQ
Project AWQ\MC
Lat: N 30.47980175 Long: W -87.284308

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	7.00				
Temp. Water	°C	10	12.5				
Conductivity Field	µmhos/cm	94	96.9				
DO Probe	mg/L	299	9.16				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	85.3				
Turbidity, HACH	NTU	76	1.63				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	0.41				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	80				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME SCD	Report Verified By:
Report Prepared By: SCD	( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW30		Date 12-18-23	Time of Grab Sample 12:25 CST

(check as appropriate)		Solls/Sedlment		Tlssue		Collection Mode		
Surface Water	☒ Equip Blank ☐	Terrestrial	☐	Fish	☐	**by Foot**		**by Boat**
Ground Water	☐ Field Blank ☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Paddle
Waste Water	☐ Trip Blank ☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:	Duplicate ☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coll	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 728979	**Equipmt Used:** ☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☒ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek West Branch @ Longleaf R

Paper Folder Name **Marcus_AWQ**
Sampling Run Marcus/AWQ
Project AWQ\MC
Lat: N 30.48622123 Long: W -87.288278

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.88				
Temp. Water	°C	10	13.2				
Conductivity Field	µmhos/cm	94	88.2				
DO Probe	mg/L	299	8.57				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	81.6				
Turbidity, HACH	NTU	76	1.27				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	1.3				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME SCD	Report Verified By:
Report Prepared By: SCD	( ) CHANGE

EscWQLM

Water Quality Report Form

	Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKW50	Date 12-18-23	Time of Grab Sample 12:50 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode			
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot	by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 738999	**Equipmt Used:** ☐ Sample Container ☒Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☒ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek Upper West Branch @ Roll

Paper Folder Name **Marcus_AWQ**

Sampling Run Marcus/AWQ

Project AWQ\MC

Lat: N 30.5015139 Long: W -87.284738

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.86				
Temp. Water	°C	10	13.9				
Conductivity Field	µmhos/cm	94	89.9				
DO Probe	mg/L	299	8.36				
ORP	mV	90					
Salinity	PPTH	480	0.04				
DO % Saturation	Percent	301	80.8				
Turbidity, HACH	NTU	76	1.09				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	0.64				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	0				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME SCD	Report Verified By:
Report Prepared By: SCD	( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒	
Agency: 21FLESC	Station: MARCUSCRKE10	Date: 12-18-23	Time of Grab Sample: 1320 CST		

(check as appropriate)			Soils/Sediment		Tissue		Collection Mode			
Surface Water	☑	Equip Blank	☐	Terrestrial	☐	Fish	☐	by Foot		by Boat
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading	☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore	☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐					

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒E.coli	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			

Biological Sample Collected: Macroinvertebrates ☐ Phytoplankton ☐ Periphyton ☐ AGP ☐

Meter ID Num 738999	**Equipmt Used:** ☐ Sample Container ☒Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☑ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek East Branch @ Marcus Poi

Paper Folder Name: **Marcus_AWQ**

Sampling Run: Marcus/AWQ

Project: AWQ\MC

Lat: N 30.47874041 Long: W -87.268763

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	6.81				
Temp. Water	°C	10	15.5				
Conductivity Field	µmhos/cm	94	115.2				
DO Probe	mg/L	299	6.26				
ORP	mV	90					
Salinity	PPTH	480	0.05				
DO % Saturation	Percent	301	62.8				
Turbidity, HACH	NTU	76	2.02				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	0.53				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	70				
Cloud Cover	Percent	32	D				

Sample Taken By: DM ME SCD

Report Prepared By: SCD

Report Verified By:

( ) CHANGE

EscWQLM

Water Quality Report Form

		Water Collection Depth: ☒0.2m ☐Other:		Collection Container Triple Rinsed ☒
Agency 21FLESC	Station MARCUSCRKE20		Date 12-18-23	Time of Grab Sample 13:35 CST

(check as appropriate)		Solls/Sedlment		Tissue		Collection Mode		
Surface Water	☒	Equip Blank	☐	Terrestrial	☐	Fish	☐	**by Foot**	**by Boat**
Ground Water	☐	Field Blank	☐	FW Sed	☐	Shellfish	☐	Wading ☐	☐ Paddle
Waste Water	☐	Trip Blank	☐	Marine Sed	☐	Other	☐	On Shore ☒	☐ Gas Motor
Other:		Duplicate	☐	Sludge	☐				

Parameter Suite	Parameter(s)	Preservation	Acid Lot	Expiration	Check pH
Preserved Nutrients	☒TKN ☒TP ☒NO_2NO_3 ☐NH_3 ☐TOC ☐Other:	☒ Ice ☒ H_2SO_4			☒ ≤2 pH
Preserved Metals		☐ Ice ☐ HNO_3			☐ ≤2 pH
Bacterial	☐ Enterrococcus ☒ E.coll	☒ Ice			
Other Samples	☒TSS ☒Chl-a ☐ Other:	☒ Ice			
Filtered Nutrients	☐PO_4 ☐Field Filtered .45 µm filter	☐ Ice			
Biological Sample Collected:	Macroinvertebrates ☐ Phytoplankton ☐		Periphyton ☐		AGP ☐

Meter ID Num 738999	**Equipmt Used:**	☐ Sample Container ☒ Dipper: C ☐ Van Dorn ☐ Other: ☐ INT:	**Turbidity Meter ID Num** 3321	☒ 3x rinsed

Remarks:

LOCATION Bayou Marcus Creek East Branch @ Old Golf Ca

Paper Folder Name **Marcus_AWQ**
Sampling Run Marcus/AWQ
Project AWQ\MC
Lat: N 30.48290277 Long: W -87.269872

Parameter	Unit	Code	Field Depth 1	Field Depth 2	Field Depth 3	Qualifier	Notes
Meter Sample Depth	Meters	98	0.2				
pH Field	Std. Unit	400	7.17				
Temp. Water	°C	10	13.1				
Conductivity Field	µmhos/cm	94	180.8				
DO Probe	mg/L	299	5.58				
ORP	mV	90					
Salinity	PPTH	480	0.09				
DO % Saturation	Percent	301	53.04				
Turbidity, HACH	NTU	76	4.75				
Secchi Depth	Meters	78	VOB				
Water Depth, Total	Meters	82903	0.83				
Tide Stage	Code	67	NA				
Precipitation (24hr)	Inches	45	0				
Tree Canopy	Percent	83515	70				
Cloud Cover	Percent	32	0				

Sample Taken By: DM ME SCO	Report Verified By:
Report Prepared By: SCO	( ) CHANGE

Appendix 7

Surface Water Monitoring

Equipment Calibration Records

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Smartroll
Project: Rolling Hills - Marcus Point

Method/Parameter				Analyst	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1600 Turbidity *Meter ID:*				Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU		± 5%
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	RC	2-15-19	8:23	N	9.129	9.11	99.9	19.75	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	RC	2-15-19	10:38	N	9.134	9.20	100.1	19.45	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
(CAL)	ICV	CCV	MAINT	RC	2-15-19	8:24	1412	8-19	INV90109	20.5		Pass Fail	
CAL	(ICV)	CCV	MAINT	RC	2-15-19	8:27	146.9	3-19	INV90108	20.78	152.6	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	RC	2-15-19	10:40	1412	3-19	INV90109	20.56	1410.2	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL	ICV	(CCV)	MAINT	RC	2-15-19	8:32	4	8-20	INV130682	-	4.10	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	RC	2-15-19	10:44	10		~~INV130~~ INV90042	-	10.10	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmartRoll
Project: Landfill - Rolling Hills

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 *Turbidity*	Initials	Date	Time	Cleaned cuvette?	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	SW	3-25-19	08:49	N	9.074	9.19	101.0	20.11	(Pass) Fail
CAL ICV (CCV) MAINT	RC	3-26-19	7:43	N	8.985	8.99	99.8	20.60	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV CCV MAINT	SW	3-25-19	08:54	1000	10-20	INV190162	21.1		Pass Fail
CAL (ICV) CCV MAINT	SW	3-25-19	09:01	146.9	8-19	INV190108	21.36	152.2	(Pass) Fail
CAL ICV (CCV) MAINT	RC	3-26-19	7:48	1000	10-20	INV190162	21.37	997.0	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
(CAL) ICV CCV MAINT	SW	3-25-19	09:09	4,7,10	11-19, 8-20, 9-20	180682, 180739, 190042			Pass Fail
CAL (ICV) CCV MAINT	SW	3-25-19	09:20	10	9-20	INV190042	—	10.05	(Pass) Fail
CAL ICV (CCV) MAINT	RC	3-26-19	7:50	4	11-19	INV180682	—	4.01	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP* SW	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
(CAL) ICV (CCV) MAINT	SW	3-25-19	09:25	Zobells	4-1-19	INV190240	21.0		Pass Fail
CAL (ICV) CCV MAINT	SW	3-25-19	09:32	Zobells	4-1-19	INV190240	21.05	236.3	(Pass) Fail
CAL ICV (CCV) MAINT	RC	3-26-19	7:53	Zobells	4-1-19	INV190240	21.03	255.5	(Pass) Fail

Notes:

Meter Calib[illegible]on/Verification Logsheet
(FDEP SOP F[illegible] 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmartROLL
Project: Boat Day- Land Based

Method/Parameter				Analyst	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1600 *Turbidity*				Initials	Date	Time	Cleaned cuvette?	Standard Previous CV	Standard NTU	Standard ID	Meter NTU		± 5%
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	SW	4-23-19	08:59	N	9.074	9.05	99.3	20.10		(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	4-23-19	16:32	N	8.950	8.88	99.1	20.83		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
(CAL)	ICV	CCV	MAINT	SW	4-23-19	09:04	1000	10-20	INV190162	21.3			Pass Fail
CAL	(ICV)	CCV	MAINT	SW	4-23-19	09:08	146.9	9-19	INV190257	21.45	152.1		(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	4-23-19	16:37	50,000	1-20	INV180410	21.45	49,769.9		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL	ICV	(CCV)	MAINT	SW	4-23-19	09:14	4	1-21	INV190281	–	4.05		(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	4-23-19	16:42	10	9-20	INV190042	–	10.13		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail

Notes:

Meter Calib[illegible]on/Verification Logsheet
(FDEP SOP F[illegible] 1000-FT 1600, FD 1000-FD 4000)

?

Meter ID: SmartROLL
Project: April Rain Event
Rolling Hills

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 *Turbidity*	Initials	Date	Time	Cleaned cuvette?	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV CCV MAINT	RC	4-24-19	8:17	N	9.147	9.12	99.5	19.67	Pass Fail
CAL ICV CCV MAINT	RC	4-24-19	1758	N	9.021	8.96	99.6	20.43	Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV CCV MAINT	RC	4-24-19	8:18	146.9	9-19	INV190257	21.15	161.3	Pass Fail
CAL ICV CCV MAINT	RC	4-24-19	8:27	1000	10-20	INV190162	21.0		Pass Fail
CAL ICV CCV MAINT	RC	4-24-19	8:29	146.9	9-19	INV190257	21.17	148.2	Pass Fail
CAL ICV CCV MAINT	RC	4-24-19	17:59	1000	10-20	INV190162	20.96	994.2	Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV CCV MAINT	RC	4-24-19	8:31	10	9-20	INV190042	-	9.99	Pass Fail
CAL ICV CCV MAINT	RC	4-24-19	1806	4	1-21	INV190281	-	4.09	Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV CCV MAINT	RC	4-24-19	1810	2 bells	5-1-19	INV190298	11.41	250.7	Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

4

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmarTROLL
Project: Rolling Hills/ EMC

Method/Parameter				Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL	ICV	CCV	MAINT									Pass Fail
DEP SOP FT 1600 *Turbidity*				Initials	Date	Time	Cleaned cuvette?	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL	ICV	CCV	MAINT									Pass Fail
CAL	ICV	CCV	MAINT									Pass Fail
CAL	ICV	CCV	MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	SW	5-20-19	08:30	N	9.147	9.23	100.6	19.67	(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	5-21-19	08:26	N	9.333	9.38	100.7	18.66	(Pass) Fail
CAL	ICV	CCV	MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL)	ICV	CCV	MAINT	SW	5-20-19	08:35	1000	10-20	INV190162	21.6		Pass Fail
CAL	(ICV)	CCV	MAINT	SW	5-20-19	09:20	146.9	11-19	INV190412	21.18	150.0	(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	5-21-19	08:40	1000	10-20	INV190162	21.09	1003.1	(Pass) Fail
(CAL)	ICV	CCV	MAINT	SW	5-21-19	08:42	1000	10-20	INV190162	21.2		Pass Fail
CAL	(ICV)	CCV	MAINT	SW	5-21-19	08:46	146.9	11-19	INV190412	21.05	147.3	(Pass) Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
(CAL)	ICV	CCV	MAINT	SW	5-20-19	09:30	7,4,10	11-19,1-21,9-20	INV180079,0281,0042			Pass Fail
CAL	(ICV)	CCV	MAINT	SW	5-20-19	09:35	10	9-20	INV190042	—	10.05	(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	5-21-19	08:50	4	1-20	INV190281	—	4.03	(Pass) Fail
CAL	ICV	CCV	MAINT									Pass Fail
CAL	ICV	CCV	MAINT									Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL	ICV	(CCV)	MAINT	SW	5-20-19	09:39	Zobells	5-20-19	INV190402	11.04	244.3	(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	5-21-19	08:56	Zobells	5-28-19	INV190421	16.98	231.2	(Pass) Fail
CAL	ICV	CCV	MAINT									Pass Fail

Notes:

2

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmarTroll
Project: Chico / BMAP/Rolling Hills

Method/Parameter				Analyst	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1600 *Turbidity*				Initials	Date	Time	Cleaned cuvette?	Standard Previous CV	Standard NTU	Standard ID	Meter NTU		± 5%
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	SW	6-10-19	08:32	N	~~9.07~~ 9.065 SW	9.06	100.0	20.11		(Pass) Fail
CAL	ICV	(CCV)	MAINT	RC	6-11-19	7:51	N	9.165	9.20	100.3	19.58		(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	6-11-19	17:15	N	9.021	9.11	101.3	20.40		(Pass) Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
(CAL)	ICV	CCV	MAINT	SW	6-10-19	08:36	1000	10-20	INV190162	21.4			Pass Fail
CAL	(ICV)	CCV	MAINT	SW	6-10-19	08:40	146.9	11-19	INV190412	22.17	148.6		(Pass) Fail
CAL	ICV	(CCV)	MAINT	RC	6-11-19	7:52	50000	1-20	INV180410	20.92	50558.3		(Pass) Fail
CAL	ICV	(CCV)	MAINT	RC	6-11-19	7:56	146.9	11-19	INV190412	20.82	149.1		(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	6-11-19	17:21	1000	10-20	INV190162	21.95	1020.9		(Pass) Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL	ICV	(CCV)	MAINT	SW	6-10-19	08:44	4	1-21	INV190281	—	4.05		(Pass) Fail
CAL	ICV	(CCV)	MAINT	RC	6-11-19	7:58	10	9-20	INV190042	—	10.12		(Pass) Fail
CAL	ICV	(CCV)	MAINT	SW	6-11-19	17:24	4	1-21	INV190281	—	4.10		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL	ICV	(CCV)	MAINT	SW	6-11-19	17:29	Zobells	6-12-19	INV190445	12.76	257.4		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail

Notes:

*2

Meter Calibra. .n/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmarTROLL
Project: CC/Rolling Hills

Method/Parameter				Analyst	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1600 Turbidity *Meter ID:*				Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU		± 5%
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	SW	7-17-2019	09:06	N	9.147	9.17	99.8	19.64	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	7-17-2019	15:50	N	9.074	9.15	100.7	20.14	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	7-23-2019	08:37	N	9.129	9.12	100.1	19.80	(Pass) Fail	
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
(CAL)	ICV	(CCV)	MAINT	SW	7-17-2019	09:14	1000	01-2021	INV190472	21.9		Pass Fail	
CAL	(ICV)	CCV	MAINT	SW	7-17-2019		146.9	11-2019	INV190412	22.12	148.9	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	7-17-2019	15:54	50,000	01-2020	INV180410	22.15	50335.7	(Pass) Fail	
(CAL)	ICV	CCV	MAINT	SW	7-23-2019	08:43	1000	01-2021	INV190472	21.4		Pass Fail	
CAL	(ICV)	CCV	MAINT	SW	7-23-2019	08:48	146.9	11-2019	INV190412	21.89	153.5	(Pass) Fail	
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL	ICV	(CCV)	MAINT	SW	7-17-2019	09:21	4	01-2021	INV190281	—	4.03	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	7-17-2019	15:59	10	09-2020	INV190042	—	10.07	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	7-23-2019	08:57	4	01-2021	INV190281	—	4.03	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
(CAL)	ICV	CCV	MAINT	SW	7-23-2019	09:04	Zobells	7-30-2019	INV190573	18.6		Pass Fail	
CAL	(ICV)	CCV	MAINT	SW	7-23-2019	09:08	Zobells	7-30-2019	INV190573	18.66	237.8	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmartRoll
Project: Rolling Hills

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	SW	7-23-2019	17:15	N	9.039	9.00	99.9	20.25	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	SW	7-23-2019	17:19	1000	01-2021	INV190472	21.96	994.6	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	SW	7-23-2019	17:28	10	09-2020	INV90042	—	10.08	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	SW	7-23-2019	17:37	Zobells	7-30-2019	INV190573	11.36	249.3	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Smartroll
Project: ~~BMAP/ Sawfley Landfill~~ SW
BMAP/Rolling Hills SW

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Criteria
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV CCV MAINT	SW	8-12-2019	0827	N	9.147	9.16	100.3	19.69	Pass Fail
CAL ICV CCV MAINT	SW	8-12-2019	1746	N	9.074	9.07	100.4	20.07	Pass Fail
CAL ICV CCV MAINT	SW	8-13-2019	0832	N	9.147	9.15	100.5	19.72	Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV CCV MAINT	SW	8-12-2019	0836	1000	01-2021	INV190472	21.4		Pass Fail
CAL ICV CCV MAINT	SW	8-12-2019	0842	146.9	11-2019	INV190412	21.72	149.6	Pass Fail
CAL ICV CCV MAINT	SW	8-12-2019	1750	50,000	01-2020	INV180410	21.81	50,538.8	Pass Fail
CAL ICV CCV MAINT	SW	8-13-2019	0841	1000	01-2021	INV190472	21.5		Pass Fail
CAL ICV CCV MAINT	SW	8-13-2019	0847	146.9	11-2019	INV190412	21.99	150.6	Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV CCV MAINT	RC	8-5-19	1730	7,4,10/	1-21 9-20/	INV	INV190281, INV190042		Pass Fail
CAL ICV CCV MAINT	RC	8-5-19	1750	10	9-20	INV190042	-	10.00	Pass Fail
CAL ICV CCV MAINT	SW	8-12-2019	0856	4	01-2021	INV190281	—	4.08	Pass Fail
CAL ICV CCV MAINT	SW	8-12-2019	1754	10	03-2021	INV190465	—	10.12	Pass Fail
CAL ICV CCV MAINT	SW	8-13-2019	0856	4	01-2021	INV190281	—	4.09	Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV CCV MAINT	SW	8-12-2019	08:56	Zobells	8-19-2019	INV190633	18.82	248.6	Pass Fail
CAL ICV CCV MAINT	SW	8-13-2019	0902	Zobells	8-19-2019	INV190633	10.79	266.1	Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes: Changed Ref. Junction 8-5-19

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmaRTROLL
Project: Rolling Hills/CC ~~Hernando~~ SW

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	SW	8-13-2019	18:02	N	9.039	9.03	100.3	20.26	(Pass) Fail
CAL ICV (CCV) MAINT	SW	8-14-2019	08:29	N	9.184	9.12	99.6	19.49	(Pass) Fail
CAL ICV (CCV) MAINT	SW	8-14-2019	1657	N	9.147	9.13	100.4	19.71	(Pass) Fail
~~CAL ICV (CCV) MAINT~~ SW	~~SW~~	~~8-15-2019~~	~~0738~~	~~N~~	~~8.915~~	~~8.97~~	~~100.9~~	~~21.00~~	~~(Pass)~~ Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	SW	8-13-2019	1805	1000	01-2021	INV190472	22.14	985.0	(Pass) Fail
(CAL) ICV CCV MAINT	SW	8-14-2019	0832	1000	01-2021	INV190472	21.8	149.6	Pass Fail
CAL (ICV) CCV MAINT	SW	8-14-2019	0837	146.9	11-2019	INV190412	22.21	~~149.0~~ SW	(Pass) Fail
CAL ICV (CCV) MAINT	SW	8-14-2019	1755	50,000	01-2020	INV180410	21.40	50,111.0	(Pass) Fail
~~CAL ICV (CCV) MAINT~~ SW	~~SW~~	~~8-15-2019~~	~~0743~~	~~146.9~~	~~11-2019~~	~~INV190412~~	~~23.9~~	~~153.4~~	~~(Pass)~~ Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	SW	8-13-2019	18:10	10	03-2021	INV190465	—	10.13	(Pass) Fail
(CAL) ICV CCV MAINT	SW	8-14-2019	0842	7,4,10	11-19,1-21,3-21	INV180079; INV190281; INV190465			Pass Fail
CAL (ICV) CCV MAINT	SW	8-14-2019	0850	10	03-2021	INV190465	—	10.04	(Pass) Fail
CAL ICV (CCV) MAINT	SW	8-14-2019	1757	4	01-2021	INV190281	—	4.01	(Pass) Fail
~~(CAL) ICV CCV MAINT~~ CAL	~~SW~~	~~8-15-2019~~	~~0754~~	~~7,4,10~~	~~11-19,1-21,3-21~~	~~INV180079; INV190281; INV190465~~			~~Pass~~ Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	SW	8-13-2019	1815	Zobells	8-19-2019	INV190633	12.39	263.0	(Pass) Fail
~~CAL ICV (CCV) MAINT~~ CAL SW	~~SW~~	~~8-15-2019~~	~~0809~~	~~Zobells~~	~~8-19-2019~~	~~INV190633~~	~~13.43~~	~~244.3~~	~~(Pass)~~ Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes: ~~Ref. Junction changed 8-15-2019 SW~~

Meter Cali[illegible]ion/Verification Logsheet
(FDEP SOP F[illegible] 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmarTROLL
Project: Rolling Hills

Method/Parameter				Analyst	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1600 Turbidity *Meter ID:*				Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU		± 5%
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	SW	9-18-2019	0839	N	8.950	8.90	99.6	20.82	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	9-18-2019	1723	N	8.777	6.78	100.4	21.78	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
(CAL)	ICV	CCV	MAINT	SW	9-18-2019	0843	1,000	01-2021	INV190472	22.5		Pass Fail	
CAL	(ICV)	CCV	MAINT	SW	9-18-2019	0846	146.9	03-2020	INV190698	22.90	148.6	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	9-18-2019	1727	1,000	01-2021	INV190472	23.42	995.8	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL	ICV	(CCV)	MAINT	SW	9-18-2019	0853	4	05-2021	INV190652	—	4.03	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	9-18-2019	1737	10	03-2021	INV190465	—	10.09	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL	ICV	(CCV)	MAINT	SW	9-18-2019	0859	Zobells	9-19-2019	INV190697	11.74	254.4	(Pass) Fail	
CAL	ICV	(CCV)	MAINT	SW	9-18-2019	1740	Zobells	9-19-2019	INV190697	12.11	241.3	(Pass) Fail	
CAL	ICV	CCV	MAINT									Pass Fail	
CAL	ICV	CCV	MAINT									Pass Fail	

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmarTROLL
Project: Rolling Hills

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Criteria
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	SW	10-22-2019	0822	N	8.932	8.84	98.8	20.87	(Pass) Fail
CAL ICV (CCV) MAINT	SW	10-22-2019	1620	N	8.968	8.91	99.3	20.69	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	SW	10-22-2019	0825	146.9	05-2020	INV190698	22.21	149.0	(Pass) Fail
CAL ICV (CCV) MAINT	SW	10-22-2019	1624	1,000	01-2021	INV190472	22.34	995.1	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	SW	10-22-2019	0829	4	05-2021	INV190652	—	4.08	(Pass) Fail
CAL ICV (CCV) MAINT	SW	10-22-2019	1633	10	05-2021	INV190707	—	10.17	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP* SW	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
(CAL) ICV (CCV) MAINT	SW	10-22-2019	0834	Zobells	10-29-2019	INV190759	20.2		Pass Fail
CAL (ICV) CCV MAINT	SW	10-22-2019	0837	Zobells	10-29-2019	INV190759	20.22	235.6	(Pass) Fail
CAL ICV (CCV) MAINT	SW	10-22-2019	1642	Zobells	10-29-2019	INV190759	13.05	245.9	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SmarTROLL
Project: BMAP + RH

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	SW	~~10-4-2019~~ SW 11-4-2019	0849	N	9.314	9.31	99.4	18.82	Pass Fail
CAL ICV (CCV) MAINT	SW	~~11-4-19~~ ~~10-4-2019~~ SW 11-4-2019	1613	N	9.056	9.05	99.7	~~20.16~~	Pass Fail
CAL ICV (CCV) MAINT	RC	11-12-19	8:23	N	9.111	9.04	98.8	RC ~~18~~ 19.29	Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	SW Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV CCV MAINT	SW	10-4-2019	0853	1,000	01-2021	INV190472	20.8		Pass Fail
CAL (ICV) CCV MAINT	SW	10-4-2019	0857	146.9	03-2020	INV190698	20.87	151.4	Pass Fail
CAL ICV (CCV) MAINT	SW	10-4-2019	1618	50,000	06-2021	INV190620	21.51	49779.7	Pass Fail
(CAL) ICV ~~CCV~~ MAINT	RC	11-12-19	8:25	1000	1-21	INV190472	21.2		Pass Fail
CAL (ICV) CCV MAINT	RC	11-12-19	8:30	146.9	3-20	INV190698	21.31	152.2	Pass Fail
DEP SOP FT 1100 *pH*	Initials	SW Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	SW	~~10-4-2019~~	0901	4	05-2021	INV190652	—	4.08	Pass Fail
CAL ICV (CCV) MAINT	SW	11-4-2019	1622	RC 10	05-2021	INV190707	—	10.19	Pass Fail
CAL ICV (CCV) MAINT	RC	11-12-19	8:34	~~10~~	5-21	INV190652	-	10.30	Pass (Fail)
(CAL) ICV CCV MAINT	RC	11-12-19	8:38	7, 4, 10					Pass Fail
CAL (ICV) CCV MAINT	RC	11-12-19	8:50	4	5-21	INV190652	-	4.00	Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	RC	11-12-19	9:14	Zobells	11-19-19	INV190786	19.49	231.0	Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Calibra. .n/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Smartroll
Project: EMC

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	RC	12-16-19	8:11	N	9.333	9.23	98.7	18.71	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-16-19	1712	N	9.276	9.03	97.9	18.95	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-17-19	8120	N	9.295	9.14	98.6	18.79	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-18-19	8:06	N	9.545	9.43	97.8	17.57	(Pass) Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV CCV MAINT	RC	12-16-19	8:13	1000	6-21	INV190708	19.8		Pass Fail
CAL (ICV) CCV MAINT	RC	12-16-19	8:16	146.9	3-20	INV190381	20.12	150.0	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-16-19	17:15	1000	6-21	INV190708	19.85	973.1	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-17-19	3127	146.9	3-20	INV190381	20.05	150.7	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-18-19	8:08	1000	6-21	INV190708	18.55	995.7	(Pass) Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	RC	12-16-19	8:21	4	6-21	INV190812	–	4.09	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-16-19	17:17	10	5-21	INV190707	–	10.12	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-17-19	8:29	4	6-21	INV190812	–	4.06	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-18-19	8:11	10	5-21	INV190707	–	10.02	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	RC	12-17-19	3153	Zobells	12-24-19	INV190875	16.66	231.3	(Pass) Fail
CAL ICV (CCV) MAINT	RC	12-18-19	8:15	Zobells	12-24-19	INV190875	9.14	246.2	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes: Send Cheryl Cal log

Meter Calibra. .i/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Smarton 11
Project: ~~Rolling Hills Lots 11s~~

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	RC	1-29-20	9:30	N	9.448	9.31	98.9	18.08	(Pass) Fail
CAL ICV (CCV) MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV CCV MAINT	RC	1-29-20	9:33	1000	5-21	INV190708	18.9		Pass Fail
CAL (ICV) CCV MAINT	RC	1-29-20	9:36	146.9	5-20	INV190831	19.04	150.0	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
(CAL) ICV CCV MAINT	RC	~~1-29-20~~	~~9:40~~	7,4,10	11-20, 6-21, 5-21	041, 812, 707			Pass Fail
CAL ICV CCV MAINT		1-30-20	1710						Pass Fail
CAL (ICV) CCV MAINT	RC	1-30-20	1716	10	5-21	INV190707	-	10.04	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes: Replaced Ref Junction 1-30-20, Redid pH Calibration

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Smartroll
Project: Rolling Hills Sewer

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	RC	2-11-20	8:25	N	9.258	9.14	98.5	19.10	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	16:27	N	9.202	9.06	98.3	19.40	(Pass) Fail
CAL ICV (CCV) MAINT	RC	2-12-20	8:39	N	9.276	9.13	98.4	18.99	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV (CCV) MAINT	RC	2-11-20	8:30	146.9	8-20	INV200157	20.43	143.9	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	16:35	1000	6.21	INV190708	20.20	999.2	(Pass) Fail
(CAL) ICV CCV MAINT	RC	2-12-20	8:41	1000	6-21	INV190708	19.9		Pass Fail
CAL (ICV) CCV MAINT	RC	2-12-20	8:46	146.7	8-20	INV200157	20.15	147.3	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	RC	2-11-20	8:33	4	6-21	INV190812	-	4.10	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	16:41	10,00	5.21	INV190707	-	10.08	(Pass) Fail
CAL ICV (CCV) MAINT	RC	2-12-20	8:53	4	6-21	INV190812	-	4.10	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	RC	2-11-20	8:39	Zobell's	2-18-20	INV200192	18.09	267.8	Pass (Fail)
(CAL) ICV CCV MAINT	RC	2-11-20	8:41	Zobell's	2-18-20	INV200192	18.4		Pass Fail
CAL (ICV) CCV MAINT	RC	2-11-20	8:43	Zobell's	2-18-20	INV200192	18.54	237.7	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	17:07	Zobell's	2-18-20	INV200192	10.55	252.5	(Pass) Fail

Notes:

Meter Calibra. .1/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: AWQ

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	3.18.20	7:57	N	9.276	9.32	99.9	19.00	(Pass) Fail
CAL ICV (CCV) MAINT	tm	3.18.20	16:44	N	9.184	9.31	100.7	19.50	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	tm	3.18.20	8:06	146.9	8.20	INV200157	19.88	148.8	(Pass) Fail
CAL ICV (CCV) MAINT	tm	3.18.20	17:07	1000.0	6.21	INV 190708	~~19.46~~ 20.41	1005.1	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	tm	3.18.20	8:11	4.00	8.21	INV200098	–	4.09	(Pass) Fail
CAL ICV CCV MAINT	tm	3.18.20	17:13	10.00	6.21	INV 200099	–	10.78	Pass (Fail)
CAL ICV (CCV) MAINT	tm	3.18.20	17:22	7.00	11.20	INV190041	–	7.13	(Pass) Fail
(CAL) ICV CCV MAINT	tm	3.18.20	17:56	4, 7, 10	8.21, 11.20, 11.20	INV200098, 190041, 200099	–		Pass Fail
CAL (ICV) CCV MAINT	tm	3.18.20	18:09	10.00	6.21	INV200099	–	10.06	(Pass) Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	tm	3.18.20	8:16	Zobell's	3.19.20	INV200244	10.53	244.8	(Pass) Fail
(CAL) ICV CCV MAINT	tm	3.18.20	12:15	ZoBell's	3.19.20	INV200244			Pass Fail
CAL (ICV) CCV MAINT	tm	3.18.20	18:18	ZoBell's	3.19.20	INV200244	11.00	247.4	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail

Notes: 3.18.20 - new pH sensor s/n 20601 received 11.2019

Meter Calibra[illegible]n/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: AWR

Method/Parameter				Analyst	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*				Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU		± 5%
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	3.19.20	0807	N	9.165	9.21	99.9	19.64		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	3.19.20	1518	N	9.220	9.24	99.3	19.29		(Pass) Fail
CAL	ICV	CCV	MAINT	tm	3.23.20	7:55	N	9.352	9.37	99.5	18.56		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL	ICV	(CCV)	MAINT	tm	3.19.20	0809	146.9	8.20	INV200157	20.92	151.0		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	3.19.20	1522	1000.0	6.21	INV190708	20.48	1006.1		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	3.23.20	0756	146.9	8.20	INV200157	19.88	161.5		Pass (Fail)
(CAL)	ICV	CCV	MAINT	tm	3.23.20	0806	1000.0	6.21	INV190708				Pass Fail
CAL	(ICV)	CCV	MAINT	tm	3.23.20	0809	~~146.9~~ 1413	~~8.20~~ 11.20	~~INV200157~~ INV200161	19.94	24.5		(Pass) Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	3.19.20	0815	4.00	8.21	INV200098	–	4.04		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	3.19.20	1527	10.00	6.21	INV200099	–	10.17		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	3.23.20	0825	4.00	8.21	INV200098	–			Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL	ICV	(CCV)	MAINT	tm	3.19.20	0819	ZoBell's	3.19.20	INV200244	10.76	248.4		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	3.19.20	1532	ZoBell's	3.19.20	INV200244	11.38	248.6		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
CAL	ICV	CCV	MAINT										Pass Fail

Notes: 3.19.20 – flushed & added reference junction fluid (expired Jan 18)

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: ROLLING HILLS SW + GW

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV (CCV) MAINT	tm	4.28.20	9:22		water	90729340	17.8	17.80	(Pass) Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	4.27.20	8:29	N	9.486	9.55	99.9	17.89	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	17:05	N	9.295	9.38	100.5	18.89	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.28.20	8:04	N	~~9.6~~	9.53	9.60	100.7	17.93 (Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV CCV MAINT	tm	4.27.20	8:31	1000	6.21	INV190708			Pass Fail
CAL (ICV) CCV MAINT	tm	4.27.20	8:35	146.9	9.20	INV2000264	19.14	151.6	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	17:09	10000	6.21	INV 190708	19.49	1003.6	(Pass) Fail
(CAL) ICV CCV MAINT	tm	4.28.20	8:10	10000	6.21	INV190708		~~151~~	Pass Fail
CAL (ICV) CCV MAINT	tm	4.28.20	8:25	146.9	9.20	INV2000264	19.08	150.9	(Pass) Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	tm	4.27.20	8:44	4.00	8.21	INV2000098	—	4.13	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	17:15	10.00	6.21	INV2000099	—	10.17	(Pass) Fail
(CAL) ICV CCV MAINT	tm	4.27.20	17:31	4, 7, 10	8.21, 11.20, 6.21	INV-2000098-1900[illegible]-2000099			(Pass) Fail
CAL (ICV) CCV MAINT	tm	4.28.20	8:56	4.00	8.21	INV2000098	—	4.03	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	tm	4.27.20	8:56	ZoBell's	5.4.20	INV2000310	18.78	227.5	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	18:17	ZoBell's	5.4.20	INV2000310	10.81	242.6	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.28.20	9:01	ZoBell's	5.4.20	INV2000310	14.07	236.7	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail

Notes: 4.27.20 ORP CCV mistakenly run after a 3-point pH CAL
4.28.20 - 8:00, barometric pressure = 30.10 in Hg = 764.5 mm Hg

Meter Calibrati , Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: ROLLING HILLS SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro Temp mm Hg	Water Temp °C	Saturation mg/L	Meter Baro mmHg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	5.19.20	08:05	29.78	17.8	9.47	—	9.49	100.5	17.83		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	5.19.20	16:13	29.74	18.1	9.39	—	9.43	100.8	18.25		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
(CAL)	ICV	CCV	MAINT	tm	5.19.20	08:08	1000	01.22	INV200144						Pass Fail
CAL	(ICV)	CCV	MAINT	tm	5.19.20	08:19	146.9	10.20	INV200311	19.51	150.1				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	5.19.20	16:21	1000	01.22	INV200144	19.90	998.9				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	5.19.20	08:31	4.00	08.21	INV200098	—	4.14				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	5.19.20	17:00	10.00	06.21	INV200099	—	10.14				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	tm	5.19.20	08:33	Zo Bell's	5.19.20	INV200344	11.02	141.0				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	5.19.20	17:07	Zo Bell's	5.19.20	INV200344	10.25	242.0				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrati. . Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: ROLLING HILLS SW

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro ~~Temp~~ in mm Hg	Water Temp °C	Saturation mg/L	Meter Baro mmHg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	06.15.20	08:07	30.06	18.3	9.45	—	9.47	100.3	18.33	(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	06.15.20	16:22	29.98	18.6	9.38	—	9.40	101.0	18.93	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
(CAL)	ICV	CCV	MAINT	tm	06.15.20	08:30	1000	01.22	INV200144					Pass Fail
CAL	(ICV)	CCV	MAINT	tm	06.15.20	08:36	146.9	10.20	INV200311	20.51	154.4			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	06.15.20	16:29	1000	01.22	INV200144	20.40	1005.2			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	06.15.20	08:39	4.00	08.21	INV 200098	—	4.08			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	06.15.20	16:34	10.00	06.21	INV200099	—	10.16			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	tm	06.15.20	08:47	ZoBell's	06.22.20	INV200395	16.30	218.8			Pass (Fail)
CAL	ICV	(CCV)	MAINT	tm	06.15.20	08:56	ZoBell's	06.22.20	INV200395	18.65	216.9			Pass (Fail)
CAL	ICV	(CCV)	MAINT	tm	06.15.20	09:01	ZoBell's	06.22.20	INV200395	19.49	215.6			Pass (Fail)
(CAL)	ICV	CCV	MAINT	tm	06.15.20	09:17	ZoBell's	06.22.20	INV200399					Pass Fail

Notes:

- 06.15.20 - ZoBell's soln failed - remade soln - still failed - recaled orp - passes

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: ROLLING HILLS SW (cont.)
ORP

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) ~~MAINT~~	~~tm~~	06.15.20	~~tm~~						Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL (ICV) CCV MAINT	tm	06.15.20	09:21	ZoBell's	06.22.20	INV200399	~~19.53~~	~~236.7~~	(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.15.20	16:45	ZoBell's	06.22.20	INV200399	19.58	236.6	(Pass) Fail
CAL ICV CCV MAINT							13.03	249.6	Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Calibrat.../Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: ROLLING HILLS

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				4.28.20						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro ~~Temp~~ ~~mm~~ Hg tm	Water Temp °C	Saturation mg/L	Meter Baro mmHg	Meter DO mg/L	Meter % DO / Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	06.16.20	09:04	30.03	18.2	9.45	—	9.48	100.6 / 18.34	(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.16.20	14:16	29.98	18.6	9.38	—	9.43	101.1 / 18.78	(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
(CAL) ICV CCV MAINT	tm	06.16.20	09:15	1000	01.22	INV200144				Pass Fail
CAL (ICV) CCV MAINT	tm	06.16.20	09:21	146.9	10.20	INV200311	20.12	151.8		(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.16.20	~~11:21~~ tm 16:20	1000	01.22	INV200144	20.69	997.2		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	tm	06.16.20	09:27	4.00	06.21	INV200098	—	4.09		(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.16.20	16:04	10.00	06.21	INV200099	—	10.18		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	tm	06.16.20	09:32	ZoBells	6.22.20	INV200399	11.04	254.6		(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.16.20	16:32	ZoBells	6.22.20	INV200399	9.37	254.2		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: ROLLING HILLS SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				6.30.20								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	7.14.20	8:23	29.91	20.0	9.09	29.94	8.89	97.91	20.03		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.14.20	17:02	29.90	20.1	9.07	30.16	8.77	96.72	20.48		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	tm	7.14.20	8:29	146.9	10.20	INV200311	21.85	141.53				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.14.20	17:08	1000	01.22	INV200144	22.24	1003.7				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	7.14.20	8:35	4.00	08.21	INV200098	159.8	4.06				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.14.20	9:13	4.00	08.21	INV200098	161.2	4.05				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.14.20	17:14	10.00	01.22	INV200394	-192.6	9.97				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	tm	7.14.20	8:50	ZoBell's	7.21.20	INV200455	19.29	207.7				Pass (Fail)
(CAL)	ICV	CCV	MAINT	tm	7.14.20	8:56	ZoBell's	7.21.20	INV200455	21.20	233.4				Pass Fail
CAL	(ICV)	CCV	MAINT	tm	7.14.20	9:11	ZoBell's	7.21.20	INV200455						(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.14.20	17:20	ZoBell's	7.21.20	INV200455	11.57	256.4				(Pass) Fail

Notes:

Meter Calibrati../Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 sonde 738999
Project: ROLLING HILLS 745670
SW trailcam

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT	7.16.20										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:03	29.97	19.5	9.19	29.98	9.38	102.23	19.63	(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	17:19	29.88	20.0	9.09	29.89	9.29	103.01	20.40	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:05	146.9	01.21	INV200456	21.45	143.15			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	17:33	1000	01.22	INV200144	21.95	1027.1			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:08	4.00	08.21	INV200098	167.9	4.10			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	17:38	10.00	01.22	INV200394	-193.2	10.32			Pass (Fail)
CAL	ICV	(CCV)	MAINT	tm	08.12.20	17:43	7.00	11.20	INV190041	-18.5	7.32			Pass (Fail)
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:12	ZoBell's	08.12.20	INV200555	10.24	261.3			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	17:56	ZoBell's	08.12.20	INV200555	9.09	253.5			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibrat. /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT5000 serial# 738999
Project: ROLLING HILLS SW
745670
trailcam

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				7.16.20								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	09.30.20	08:46	30.04	20.1	9.11	30.06	9.10	100.04	20.13		(Pass) Fail
CAL	ICV	(CCV)	MAINT	DM	9-30-20	1620	29.97	19.9	9.12	29.97	9.08	100.28	20.25		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	tm	09.30.20	08:49	146.9	01.21	INV200456	21.75	141.96				(Pass) Fail
CAL	ICV	(CCV)	MAINT	DM	9-30-20	1630	1,000	06.22	INV200560	21.94	1009.8				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	09.30.20	08:50	4.00	03.22	INV200556	162.0	4.07				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	09.30.20	08:52	10.00	01.22	INV200394	-190.5	10.11				(Pass) Fail
CAL	ICV	(CCV)	MAINT	DM	9.30.20	1635	4.00	03.22	INV 20056	157.6	4.15				(Pass) Fail
CAL	ICV	(CCV)	MAINT	DM	9-30-20	1638	10	01.22	INV200394	-193.0	10.15				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrat. , Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 738999
Project: ROLLING HILLS SW

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				07.16.20							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	10.21.20	08:35	30.03	20.2	9.10	30.04	9.12	100.55	20.29	(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	10.21.20	16:14	29.96	20.1	9.08	29.97	9.07	100.42	20.54	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	tm	10.21.20	08:39	146.9	03.21	INV200683	22.08	140.22			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	10.21.20	16:18	1000	06.22	INV200560	22.38	996.63			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	10.21.20	08:45	4.00	03.21	INV200556	163.4	4.04			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	10.21.20	16:25	7.00	11.20	INV190041		7.20			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
(CAL)	ICV	CCV	MAINT	tm	10.21.20	08:51	ZoBell's	10.22.20	INV200709	12.1	242.1			Pass Fail
CAL	(ICV)	CCV	MAINT	tm	10.21.20	08:55	ZoBell's	10.22.20	INV200709	11.29	247.1			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	10.21.20	16:59	ZoBell's	10.22.20	INV200709	10.11	247.9			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibrati. , Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 738999
Project: ROLLING HILLS SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT	7.16.20											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	11.10.20	08:32	29.83	20.0	9.07	29.85	9.04	99.89	19.99		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	11.10.20	16:56	29.75	20.0	9.04	29.76	8.97	99.98	20.35		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	tm	11.10.20	08:38	146.9	03.21	INV200683	21.84	139.91				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	11.10.20	16:59	1000	01.22	INV200144	21.83	1014.1				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	11.10.20	08:51	4.00	03.22	INV200556	159.3	4.05				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	11.10.20	17:11	7.00	06.22	INV200557	-20.8	7.10				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	11.10.20	17:14	10.00	06.22	INV200558	-202.6	10.12				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	tm	11.10.20	08:55	ZoBell's	11.17.20	INV200770	20.14	230.9				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	11.10.20	17:17	ZoBell's	11.17.20	INV200770	12.17	240.2				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

- AFTERNOON LAB TEMP = 23°C

Meter Calibrat. , Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 738999
Project: ROLLING HILLS SW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV (CCV) MAINT				7.16.20							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	12.09.20	08:35	30.13	17.7	9.60	30.15	9.51	99.32	17.68	(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.09.20	17:40	30.02	18.4	9.42	30.03	9.31	99.24	18.63	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	tm	12.09.20	08:38	146.9	03.21	INV200683	19.66	141.43			(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.09.20	17:45	1000	01.22	INV200144	20.19	1012.6			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	tm	12.09.20	08:43	7.00	tm 11.9.06.22	INV200557	-20.7	7.10			(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.09.20	17:51	4.00	03.22	INV200556	157.9	4.06			(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.09.20	17:57	10.00	01.22	INV200394	-193.3	9.98			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	tm	12.09.20	08:49	ZoBell's	12.16.20	INV200866	19.13	229.7			(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.09.20	17:59	ZoBell's	12.16.20	INV200866	9.81	244.1			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibra_ /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 738999
Project: ROLLING HILLS SURFACE WATER

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				7.16.20						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	01.12.21 tm 13	08:34	30.19	17.1	9.74	30.20	9.84	100.72	16.92	(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.13.21	18:11	30.02	17.5	9.59	30.04	9.65	100.96	17.60	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	tm	01.13.21	08:38	146.9	03.21	INV200683	18.66	140.95		(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.13.21	18:19	1000	01.22	INV200144	18.57	1012.7		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	tm	01.13.21	08:51	7.00	06.22	INV200557	-21.7	7.12		(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.13.21	08:56	4.00	03.22	INV200556	153.2	4.12		(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.13.21	18:26	10.00	06.22	INV200558	-194.2	10.01		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	tm	01.13.21	09:05	ZoBell's	01.20.21	INV210019	18.76	229.4		(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.13.21	18:32	ZoBell's	01.20.21	INV210019	9.53	243.9		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibrat__ Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 738999
Project: ROLLING HILLS SW

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				7.16.20							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	02.24.21	08:16	30.10	18.1	9.51	30.12	9.68	101.52	17.97	(Pass) Fail
(CAL)	ICV	CCV	MAINT	tm	02.24.21	08:19	30.10	18.1	9.51	/	9.70	101.56	17.97	Pass Fail
CAL	(ICV)	CCV	MAINT	tm	02.24.21	08:23	30.10	18.1	9.51	30.12	9.55	100.19	17.98	(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.24.21	18:21	30.03	18.6	9.39	30.05	9.38	100.53	18.84	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	tm	02.24.21	08:29	146.9	07.21	INV210052	19.64	140.40			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.24.21	18:28	10000	06.22	INV2000560	19.53	1009.7			Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	02.24.21	08:35	4.00	07.22	INV2000833	146.2	4.01			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.24.21	18:32	10.00	06.22	INV2000558	-213.3	10.13			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
(CAL)	ICV	(CCV) tm	MAINT	tm	02.24.21	08:39	ZoBell's	02.24.21	INV210196					Pass Fail
CAL	(ICV)	CCV	MAINT	tm	02.24.21	~~08:42~~ 08:45	ZoBell's	02.24.21	INV210196	~~12.59~~ 11.66	~~245.8~~ 247.0			tm (Pass) Fail
CAL	ICV	CCV	MAINT											(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.24.21	18:38	ZoBell's	02.24.21	INV210196	11.82	245.5			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibra.../Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 — 738999
Project: ROLLING HILLS
SURFACE WATERS

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				7.16.20							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	03.23.21	08:58	29.91	18.9	9.29	29.91	9.40	101.39	18.88	(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.23.21	17:30	29.80	19.1	9.22	29.82	9.31	101.35	19.22	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	tm	03.23.21	09:05	146.9	08.21	INV210223	20.13	141.27			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.23.21	17:36	1000	06.22	INV200560	20.45	1015.2			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	03.23.21	09:12	4	07.22	INV200833	147.4	3.99			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.23.21	17:39	10	12.22	INV210368	-211.4	10.09			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	tm	03.23.21	09:17	ZoBell's	03.30.21	INV210382	19.05	234.4			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.23.21	17:42	ZoBell's	03.30.21	INV210382	9.40	247.6			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibrati___ Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 ~~73099~~
Project: BOWLING HILL 83933
SURFACE WATER

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	NW	4.21.21	08:27	30.00	19.3	9.25	30.01	9.34	101.03	19.30		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	4.21.21	17:31	29.99	19.9	9.30	30.00	9.37	101.06	19.08		~~Pass~~ Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	NW	4.21.21	08:34	146.9	10.21	INV210431	20.93	142.54				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	4.21.21	17:32	10000	02.23	INV210432	20.63	10009.3				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	NW	4.21.21	08:44	4	07.22	INV200833	146.4	4.01				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	4.21.21	17:45	7	06.22	INV200557	-33.9	7.05				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	RR	4.21.21	0855	ZoBell's	4.28.21	INV 210454	19.90	236.2				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	4.21.21	17:52	ZoBell's	4.28.21	INV210454	10.60	243.8				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibra__ /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 - 783933
Project: ROLLING HILLS SW
745670 trelkom

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	NW	5.18.21	8:30	30.03	20.0	9.12	30.04	9.12	100.27	20.13	(Pass) Fail
CAL ICV (CCV) MAINT	NW	5.18.21	1650	30.00	20.4	9.04	30.01	9.00	100.02	20.62	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	NW	5.18.21	8:33	146.9	11.21	INV210557	22.34	144.50		(Pass) Fail
CAL ICV (CCV) MAINT	NW	5.18.21	1701	10,000	11.21	INV210029	22.64	10348		(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	NW	5.18.21	8:38	4.0	07.22	INV200833	137.9	4.04		(Pass) Fail
CAL ICV (CCV) MAINT	NW	5.18.21	17:12	7.0	11.22	INV210026	-43.6	7.20		(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	tm	05.18.21	08:49	ZoBell's	05.25.21	INV210566	20.42	229.6		(Pass) Fail
(CAL) ICV CCV MAINT	tm	05.18.21	08:46	ZoBell's	05.25.21	INV210566	21.08	218.9		Pass Fail
CAL (ICV) CCV MAINT	tm	05.18.21	08:51	ZoBell's	05.25.21	INV210566	20.55	235.3		(Pass) Fail
CAL ICV (CCV) MAINT	NW	5.18.21	17:24	ZoBell's	5.25.21	INV210566	11.07	249.0		(Pass) Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

- pH 7 OFFSET IS DRIFTING
- pH REFERENCE SOLUTION REPLACED

Meter Calibra.../Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 783933
Project: ROLLING HILLS SURFACE
TROLL COM = 745670

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				6.1.21							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	NW	~~6.22.21~~ ~~6.1.21~~	08:24	29.92	20.1	9.07	29.98	9.17	101.13	20.16	(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	6.22.21	17:55	29.91	20.2	9.05	29.85	9.06	101.22	20.45	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date 6.22.21	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	NW	~~06.01.21~~	08:34	146.9	12.21	INV210620	22.03	1400.7			(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	06.22.21	18:00	10,000	11.21	INV200219	22.96	10,218			~~Pass~~ Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date 6.22.21	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	NW	~~06.01.21~~	08:40	4	07.23	INV200833	172.3	4.01			(Pass) Fail
CAL	ICV	CCV	MAINT	NW	06.22.21	18:06	7	06.22	INV200557	-8.4	7.11			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date 6.22.21	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	NW	~~06.01.21~~	0852	ZOBELLS	06.29.21	INV210642	~~19.99~~ 20.00	244.8			(Pass) Fail
CAL	ICV	~~CCV~~	MAINT	NW	~~06.22.21~~		ZOBELLS	~~06.29.21~~	INV210642	→ ~~20.00~~				Pass Fail
CAL	ICV	(CCV)	MAINT	NW	06.22.21	18:11	ZOBELLS	06.29.21	INV210642	10.26	260.2			~~Pass~~ Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT 4000 - 821852
Project: ROLLING HILLS SURFACE WATER

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N		NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT				06.01.21								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	NW	07.14.21	09:00	30.16	20.7	9.04	30.22	8.93	99.46	21.08		(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	07.14.21	17:20	30.10	20.7	9.02	30.16	8.97	100.48	21.27		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	NW	07.14.21	09:08	146.9	01.22	INV210698	23.08	155.32				(Pass) Fail
CAL	ICV	CCV	MAINT	NW	07.14.21	15:27	1000	02.23	INV210432	23.24	967.28				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	NW	07.14.21	09:13	4.0	01.23	INV210619	114.7	4.13				(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	07.14.21	17:34	7.0	06.22	INV200557	-60.5	7.10				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	NW	07.14.21	0922	ZOBELL'S	07.20.21	INV210697	11.08	217.8				Pass (Fail)
(CAL)	ICV	CCV	MAINT	NW	07.14.21	09:29	ZOBELL'S	07.20.21	INV210697	12.79	215.0				Pass Fail
CAL	(ICV)	CCV	MAINT	NW	07.14.21	09:33	ZOBELL'S	07.20.21	INV210697	12.31	245.6				(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	07.14.21	17:42	ZOBELL'S	07.20.21	INV210697	11.80	247.5				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

ORP FAILED - CORRECTIVE ACTION: CALIBRATION

Meter Calibra../Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 783933
Project: Rolling Hills SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	CCV	MAINT	RK	8.17.21	0830	29.88	20.7	8.96	29.88	8.98	99.69	20.95		Pass Fail
CAL	ICV	CCV	MAINT	RK	8.17.21	1903	29.87	20.8	8.93	29.87	8.85	99.81	21.17		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	CCV	MAINT	RK	8.17.21	0835	146.9	1.2022	INV210776	22.52	150.00				Pass Fail
CAL	ICV	CCV	MAINT	RK	8.17.21	1807	1600	2.2023	INV210432	23.01	1016.8				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	CCV	MAINT	RK	8.17.21	0838	4	1.2023	INV210619	165.3	4.05				Pass Fail
CAL	ICV	CCV	MAINT	RK	8.17.21	1813	7	11.2022	INV210026	-14.3	7.14				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrat /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT 500 783933
Project: Rolling Hills Surface Water

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera	
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C	
CAL	ICV	CCV	MAINT				6.01.21								Pass	Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l	
CAL	ICV	(CCV)	MAINT	RK	9.21.21	0748	29.96	20.7	8.98	29.97	8.85	99.14	20.95		(Pass)	Fail
CAL	ICV	(CCV)	MAINT	RK	9.21.21	1646	29.90	21.1	8.89	25.57	8.78	100.36	21.24		(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%	
CAL	ICV	(CCV)	MAINT	RK	9.21.21	0751	146.9	2.2022	INV210900	22.79	198.15				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	RK	9.21.21	1649	1000	2.2023	INV210432	23.14	1034.7				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU	
CAL	ICV	(CCV)	MAINT	RK	9.21.21	0753	4	5.2023	INV210862	162.7	4.03				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	RK	9.21.21	1456	~~4~~ 7 (RK)	4.2023	INV210863	-24.8	7.17				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV	
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 9210852
Project: Rolling Hills SW

Method/Parameter				Technician	MMDDYY	24 HH:MM										Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C					± 0.5 °C
CAL	ICV	CCV	MAINT				06.01.21									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C			± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	0755	30.13	19.5	9.26	30.18	9.23	99.96	19.62			(Pass) Fail
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	1647	30.06	19.8	9.17	30.11	9.12	99.83	20.03			(Pass) Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm					± 5%
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	0800	146.9	3/2022	INV210952	20.76	146.50					(Pass) Fail
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	1649	1000	7/2023	INV210964	21.53	983.45					(Pass) Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU					± 0.2 SU
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	0805	4	05/2023	INV210862	47.7	4.14					(Pass) Fail
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	1653	10	03/2023	INV210864	-314.9	10.18					(Pass) Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV					± 20 mV
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	0810	238	11/9/21	INV211013	18.82	210.5					Pass (Fail)
(CAL)	ICV	CCV	MAINT	RJR	11/2/21	0840	237 X	11/9/21	INV211013	18.91	237.1					Pass Fail
CAL	ICV	(CCV)	MAINT	RJR	11/2/21	1657	246 (Pass)	11/9/21	INV211013	12.10	254.1					(Pass) Fail
CAL	ICV	CCV	MAINT													Pass Fail
CAL	ICV	CCV	MAINT													Pass Fail

Notes:

Meter Calibrat../Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT500 738999
Project: Rolling Hills SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				6.01.21								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	CCV	MAINT	LK	11.17.21	0755	30.15	19.9	9.18	30.15	9.13	89.55	19.90		Pass Fail
CAL	ICV	CCV	MAINT	RK	11.17.21	1522	30.09	20.0	9.15	30.08	9.08	89.83	20.28		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	CCV	MAINT	LK	11.17.21	0800	146.9	5/2022	INV21043	21.60	142.96				Pass Fail
CAL	ICV	CCV	MAINT	RK	11.17.21	1525	1000	7/2023	INV210904	22.22	1004.2				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	CCV	MAINT	LK	11.17.21	0809	4	3/2023	INV21039	155.5	4.13				Pass Fail
CAL	ICV	CCV	MAINT	RK	11.17.21	1532	10	3/2023	INV210864	-198.0	10.13				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT	LK	11.17.21	0807	Zobells	11.24.21	INV21044	19.48	223.3				Pass Fail
CAL	ICV	CCV	MAINT	RK	11.17.21	1536	Zobells	11.24.21	INV21044	9.11	237.6				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrat.. ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: ATSCO 736993
Project: Rolling Hills ~~Est~~ SW (212)

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				06.01.21							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	RJR	12/8/21	0911	29.93	19.2	9.25	29.91	9.19	99.46	19.21	(Pass) Fail
CAL	ICV	(CCV)	MAINT	RJR	12/8/21	1515	29.91	19.4	9.20	29.90	9.09	99.03	19.46	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	RJR	12/8/21	0913	1469	5/22	INV211043	20.92	142.57			(Pass) Fail
CAL	ICV	(CCV)	MAINT	RJR	12/8/21	1518	1000	7/23	INV210904	20.95	987.40			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	RJR	12/8/21	0816	4	7/23	INV211039	4.02	153.3			(Pass) Fail
CAL	ICV	(CCV)	MAINT	RJR	12/8/21	1521	7	4/23	INV210863	7.05	-22.1			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
(CAL)	ICV	(CCV)	MAINT	RJR	12/8/21	0854	203Bells	12/15/21	INV211079					Pass Fail
CAL	(ICV)	CCV	MAINT	RJR	12/8/21	0857	203Bells	12/15/21	INV211079	23.85	229.1			(Pass) Fail
CAL	ICV	(CCV)	MAINT	RJR	12/8/21	1523	203Bells	12/15/21	INV211079	8.46	250.6			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT 400 & 1852
Project: RH SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				06.01.22								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	CCV	MAINT	RK	2.9.22	0811	30.10	19.5	9.24	30.15	9.23	100.41	19.77		Pass Fail
CAL	ICV	CCV	MAINT	RK	2.9.22	0508	30.01	19.0	9.30	30.05	9.21	99.76	19.42		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	CCV	MAINT	RK	2.9.22	0813	100	7.22	INV220090	20.06	104.53				Pass Fail
CAL	ICV	CCV	MAINT	RK	2.9.22	1510	1000	7.32	INV210904	19.39	1002.7				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	CCV	MAINT	RK	2.9.22	0814	7	9.23	INV211105	-18.4	7.02				Pass Fail
CAL	ICV	CCV	MAINT	RK	2.9.22	0512	4	3.23	INV211039	151.8	4.09				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT	RK	2.9.22	0826	240/13	2.15.22	INV220093	10.21	245.3				Pass Fail
CAL	ICV	CCV	MAINT	RK	2.9.22	1517	240/13	2.15.22	INV220093	10.53	241.1				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	KP	3/22/22	8:30	29.90	20.0	9.09	29.88	9.08	100.42	20.20	(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	17:57	29.76	20.7	8.92	9.09 → 29.74		101.94	20.59	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	KP	3/22/22	8:31	100.0	9/2022	INV220189	21.82	101.22			(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	17:59	1000.0	1/2024	INV220173	21.62	1,001.6			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	KP	3/22/22	8:40	7.0	9/2023	INV211105	-37.6	7.11			(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	18:05	10.0	6/2023	~~INV220173~~ INV211106	-221.9	10.20			(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	18:10	4.0	7/2023	INV211104	136.9	4.11			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	KP	3/22/22	8:45	ZoBells	3/29/22	INV220210	17.84	228.9			(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	18:13	ZoBells	3/29/22	INV220210	17.67	242.4			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				6.1.21						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	KP	4/19/22	8:17	30.17	20.0	9.16	30.15	9.21	106.55	20.02	(Pass) Fail
CAL ICV (CCV) MAINT	KP	4/19/22	16:55	30.09	19.8	9.18	30.07	9.15	100.43	20.5	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	KP	4/19/22	8:19	100.0	2/2024	INV220208	20.47	98.04		(Pass) Fail
CAL ICV (CCV) MAINT	KP	4/19/22	16:56	1000.0	1/2024	INV220173	20.60	997.27		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	KP	4/19/22	8:24	7.0	9/2023	INV24105	-45.5	7.10		(Pass) Fail
CAL ICV (CCV) MAINT	KP	4/19/22	17:05	10.0	6/2023	INV211106	-230.3	10.20		(Pass) Fail
CAL ICV (CCV) MAINT	KP	4/19/22	17:14	4.0	7/2023	INV211104	128.5	4.10		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	KP	4/19/22	8:40	ZoBells	4/26/22	INV220251	17.45	222.6		(Pass) Fail
CAL ICV (CCV) MAINT	KP	4/19/22	17:20	ZoBells	4/26/22	INV220251	11.53	237.5		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibration/V cation Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 4T4ΦΦ
Project: BH SW 821852
rolling hills

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT				Φ6.Φ1.21							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	8:28	29.95	21.8	8.79	29.99	8.78	1ΦΦ.18	21.98	~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	17Φ8	29.89	22.2	8.7Φ	29.92	8.67	1ΦΦ.33	22.63	~~Pass~~ Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	Φ8:42	1ΦΦ	2.24	INV22Φ2Φ8	22.Φ9	1Φ2.6Φ			~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	1712	1ΦΦΦ	Φ1.24	INV22Φ173	22.92	1Φ31.2			~~Pass~~ Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	Φ856	7	12.23	INV22Φ274	-54.8	6.98			~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	1715	4	12.23	INV22Φ273	115.Φ	4.Φ7			~~Pass~~ Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	Φ92Φ	ZoBell's	5.25.22	INV22Φ3Φ3	19.92	2Φ5.9			Pass ~~Fail~~
~~CAL~~ ICV CCV MAINT	tm	5.18.22	Φ923	ZoBell's	5.25.22	INV22Φ3Φ3	21.38	2Φ6.4			Pass Fail
CAL ~~ICV~~ CCV MAINT	tm	5.18.22	Φ927	ZoBell's	5.25.22	INV22Φ3Φ3	2Φ.63	233.2			~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	tm	5.18.22	1719	ZoBell's	5.25.22	INV22Φ3Φ3	11.61	253.1			~~Pass~~ Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibrat[illegible] Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT				06.02.2022					Pass Fail

DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	KP	6.15.22	8:02	29.98	20.5	9.03	30.02	9.02	100.33	20.69	(Pass) Fail
CAL ICV (CCV) MAINT	KP	6.15.22	17:15	29.95	20.6	8.99	29.98	8.73	94.55	21.78	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	KP	6.15.22	8:07	100.0	3/2024	INV22020272	21.94	100.52	(Pass) Fail
CAL ICV (CCV) MAINT	KP	6.15.22	17:19	1000.0	1/2024	INV22020173	22.61	995.16	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	KP	6.15.22	8:16	7.0	12/2023	INV22020274	-63.7	7.13	(Pass) Fail
CAL ICV (CCV) MAINT	KP	6.15.22	17:22	10.0	6/2023	INV21110206	-255.4	10.19	(Pass) Fail
CAL ICV (CCV) MAINT	KP	6.15.22	17:24	4.0	12/2023	INV22020273	106.2	4.20	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Calibrat , Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852AT400
Project: RH SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera	
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C	
CAL	ICV	CCV	MAINT				6.2.22								Pass	Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l	
CAL	ICV	(CCV)	MAINT	KP	7.12.22	8:41	29.83	20.5	8.96	29.86	8.97	100.7	20.89		(Pass)	Fail
CAL	ICV	(CCV)	MAINT	KP	7.12.22	16:15	29.87	20.9	8.93	29.90	8.78	99.85	21.62		(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%	
CAL	ICV	(CCV)	MAINT	KP	7.12.22	8:43	1000	3/2024	INV220272	22.07	1001.83				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	KP	7.12.22	16:18	50,000	3/2023	INV210663	22.26	49,558				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU	
CAL	ICV	(CCV)	MAINT	KP	7.12.22	8:50	7.0	12/2023	INV220274	-70.5	7.04				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	KP	7.12.22	16:20	10.0	6/2023	INV211006	-248.2	9.94				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	KP	7.12.22	16:24	4.0	12/2023	INV220273	105.2	4.04				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV	
CAL	ICV	(CCV)	MAINT	KP	7.12.22	8:55	ZoBell's	7/19/22	INV220409	18.18	223.				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	KP	7.12.22	16:27	ZoBells	7/19/22	INV220409	~~17.35~~ 13.84	236.7				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				06.02.2022						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	8-2-2022	8:29	30.05	21.0	8.95	30.08	8.84	99.9	21.4	(Pass) Fail
CAL ICV (CCV) MAINT	KP	8.2.22	16:35	30.02	20.9	8.96	30.07	8.96	100.35	21.2	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	ME	8-2-2022	8:30	100	03/2024	INV220272	23.2	100.2		(Pass) Fail
CAL ICV (CCV) MAINT	KP	8.2.2022	16:40	1000	1/2024	INV220173	22.45	1005.8		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	ME	8-2-2022	8:34	7	12/2023	INV220274	~~7.02~~ ME	7.02		(Pass) Fail
CAL ICV (CCV) MAINT	KP	8.2.2022	16:41	4	12/2023	INV220273	-8.6	4.01		(Pass) Fail
CAL ICV CCV MAINT							161.5			Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	ME	8-2-2022	8:38	Zobells	8/9/2022	INV220444	~~19~~ ME	282.2		Pass (Fail)
(CAL) ICV CCV MAINT	ME	8-2-2022	8:47	Zobells	8/9/2022	INV220444	18.7			Pass Fail
CAL (ICV) CCV MAINT	ME	8-2-2022	8:47	Zobells	8/9/2022	INV220444	21.29	234		(Pass) Fail
CAL ICV (CCV) MAINT	KP	8.2.2022	16:45	zoBells	8/9/2022	INV220444	13.84	253.8		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibrati[illegible], Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT				06/02/22							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	9-20-22	8:25	29.96	20.4	9.04	30.00	8.97	99.85	20.65	(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-20-22	17:50	29.87	20.4	9.01	29.90	8.77	99.13	21.27	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	ME	9-20-22	~~8:30~~ ME 8:39	ME ~~X~~ 100	03/2024	INV220272	22.23	98.76			(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-20-22	17:56	1,000	01/2024	INV220173	22.25	996.49			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	ME	9-20-22	8:30	7	06/2023	INV220349	-31.6	7.17			(Pass) Fail
(CAL) ICV CCV MAINT	ME	9-20-22	8:31	4	06/2023	INV220348					Pass Fail
(CAL) ICV CCV MAINT	ME	9-20-22	8:34	7	06/2023	INV220349					Pass Fail
(CAL) ICV CCV MAINT	ME	9-20-22	8:36	10	02/2024	INV220350					Pass Fail
CAL (ICV) CCV MAINT	ME	9-20-22	8:39	7	06/2023	INV220349	-30.7	7.01			(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-20-22	17:58	4	06/2023	INV220348	138.4	4.11			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	ME	9-20-22	8:44	ZoBells	9-27-22	INV220573	18.73	216.4			Pass (Fail)
(CAL) ICV CCV MAINT	ME	9-20-22	8:45	ZoBells	9-27-22	INV220573					Pass Fail
CAL (ICV) CCV MAINT	ME	9-20-22	8:49	ZoBells	9-27-22	INV220573	20.73	235.0			(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-20-22	18:00	ZoBells	9-27-22	INV220573	18.50	253.1			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibrati[illegible] Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: Marcus Creek SW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT	06-02-22										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	10-10-22	8:44	30.14	19.3	9.29	30.18	9.28	100.23	19.44	(Pass) Fail
CAL ICV (CCV) MAINT	ME	10-10-22	14:21	30.08	19.6	9.22	30.16	9.24	100.73	19.80	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	ME	10-10-22	8:46	100	03/2024	INV220272	20.85	102.58			(Pass) Fail
CAL ICV (CCV) MAINT	ME	10-10-22	14:23	1,000	01/2024	INV220173	20.97	933.35			Pass (Fail)
(CAL) ICV CCV MAINT	ME	10-10-22	14:28	1,000	01/2024	INV220173	ME ~~21.76~~	~~1,000.4~~			(Pass) Fail
CAL (ICV) CCV MAINT	ME	10-10-22	14:30	1,000	01/2024	INV220173	21.76	1,000.4			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	ME	10-10-22	8:49	7	INV220603 ME→ 04/2024		-38.7	7.15			(Pass) Fail
CAL ICV (CCV) MAINT	ME	10-10-22	14:32	4	INV220602 ME→ 01/2024		132.5	4.21			Pass (Fail)
(CAL) ICV CCV MAINT	ME	10-10-22	14:35	4	01/2024	INV220602					Pass Fail
CAL (ICV) CCV MAINT	ME	10-10-22	14:39	4	01/2024	INV220602	132.9	4.01			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibrati Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: RH SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT	06-02-22											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	ME	ME ~~11-4~~ 11-16-22	8:41	30.20	19.9	9.20	30.24	9.19	100.06	19.90		(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	11-16-22	12:54	30.14	19.7	9.22	30.18	9.32	100.68	19.51		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	ME	11-16-22	8:44	100	03.24	INV220272	20.33	101.55				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	11-16-22	12:57	1,000	01/2024	INV220173	20.07	1,007.4				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	ME	11-16-22	8:50	7	06.23	INV220349	-50.0	7.14				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	11-16-22	13:00	10	02/2024	INV220350	-237.0	10.34				Pass (Fail)
CAL	ICV	(CCV)	MAINT	ME	11-16-22	13:05	4	01/2024	INV220662	124.3	4.15				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

11-16-22 : pH 10 CV failure

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: RH- SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera	
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C	
CAL	ICV	CCV	MAINT				06-02-22								Pass	Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l	
CAL	ICV	CCV	MAINT	ME	12-7-22	9:06	30.24	20.1	9.18	30.27	9.03	99.59	20.60		Pass	Fail
CAL	ICV	CCV	MAINT	ME	12-7-22	13:26	30.18	20.0	9.18	30.21	ME ~~8.86~~ 9.00	98.29	20.74		Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%	
CAL	ICV	CCV	MAINT	ME	12-7-22	9:08	100	03/2024	INV220272	21.14	104.52				Pass	Fail
CAL	ICV	CCV	MAINT	ME	12-7-22	13:29	1,000	01/2024	INV220173	21.35	1,012.8				Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU	
CAL	ICV	CCV	MAINT	ME	12-7-22	9:12	7	06/2023	INV220349	-57.0	7.05				Pass	Fail
CAL	ICV	CCV	MAINT	ME	12-7-22	13:31	4	06/2023	INV220348	111.6	4.16				Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV	
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail

Notes:

Meter Calibrat /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 21852 AT400
Project: RH-SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				06-02-22								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	CCV	MAINT	ME	01/11/23	9:13	30.04	20.0	9.13	30.02	9.09	99.85	20.06		Pass Fail
CAL	ICV	CCV	MAINT	ME	01/11/23	13:10	29.96	19.9	ME 29.94 9.12	29.94	ME 9.12 9.11	100.56	20.15		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	CCV	MAINT	ME	01/11/23	9:16	100	03/2024	INV220272	20.01	102.85				Pass Fail
CAL	ICV	CCV	MAINT	ME	01/11/23	13:18	1,000	01/2024	INV220173	20.34	1,000.7				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	CCV	MAINT	ME	01/11/23	9:18	7	06/2023	INV220349	-65.7	7.00				Pass Fail
CAL	ICV	CCV	MAINT	ME	01/11/23	13:20	4	06/2023	INV220348	101.9	4.12				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrat__ Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT 400
Project: ~~RH - GW~~ RH - SW
ME

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N		NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT	06-02-22											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	ME	02-07-23	9:05	30.16	20.1	9.15	30.14	9.11	100.16	20.53		(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	17:18	30.12	20.2	9.11	30.10	9.17	100.62	20.15		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	ME	02-07-23	9:08	100	03/2024	INV220272	20.41	103.77				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	17:21	1,000	05/2024	INV220429	20.67	1,011.4				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	ME	02-07-23	9:10	7	06/2023	INV220349	-75.0	7.15				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	15:24	4	06/2023	INV220348	93.0	4.24				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	ME	02-07-23	9:13	ZoBells	2/7/23	INV230051	12.48	251.4				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	15:33	ZoBells	2/7/23	INV230051	12.05	250.3				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: RH-SW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N		NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT				06-02-22								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	CCV	MAINT	ME	3-22-23	8:51	30.19	19.5	9.27	30.17	9.24	100.28	19.66		Pass Fail
CAL	ICV	CCV	MAINT	ME	3-22-23	13:14	30.19	19.5	9.27	30.17	9.20	100.13	19.84		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	CCV	MAINT	ME	3-22-23	8:55	100	05/2024	INV220727	19.68	102.66				Pass Fail
CAL	ICV	CCV	MAINT	ME	3-22-23	13:17	1,000	05/2024	INV220429	20.02	1,001.6				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	CCV	MAINT	ME	3-22-23	8:57	7	11/2024	INV230010	-35.7	7.10				Pass Fail
CAL	ICV	CCV	MAINT	ME	3-22-23	13:20	4	02/2024	INV230011	82.2	4.18				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: RH_SCO

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				06-02-22								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	CCV	MAINT	ME	4-12-23	8:20	30.03	20.0	9.13	30.01	9.08	100.24	20.28		Pass Fail
CAL	ICV	CCV	MAINT	ME	4-12-23	12:58	29.98	19.8	9.15	29.95	9.06	100.10	20.22		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	CCV	MAINT	ME	4-12-23	8:24	146.9	9/2023	INV230186	20.51	152.77				Pass Fail
CAL	ICV	CCV	MAINT	ME	4-12-23	13:00	1,000	5/2024	INV220429	20.82	986.46				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	CCV	MAINT	ME	4-12-23	8:26	7	11/2024	INV230010	-6.6	7.04				Pass Fail
CAL	ICV	CCV	MAINT	ME	4-12-23	13:03	4	02/2024	INV230011	166.2	4.08				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrat Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: BAYOU MARCUS & CHICO BMAP RESTAPS

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT	06_02_23										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	fm	5-17-23	8:15	29.89	24.2	9.04	29.78	9.03	100.47	20.33	(Pass) Fail
CAL ICV ~~CCV~~ MAINT	fm	5-17-23	1505	29.74	24.0	9.04	29.71	8.95	99.99	20.40	~~Pass~~ Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	ME	5-17-23	8:18	100	03/2025	INV230198	21.09	103.94			(Pass) Fail
CAL ICV ~~CCV~~ MAINT	fm	5-17-23	1509	50000	03.24	INV220439	21.36	49972			~~Pass~~ Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	ME	5-17-23	8:20	7	11/2024	INV230010	-18.9	7.07			(Pass) Fail
CAL ICV ~~CCV~~ MAINT	fm	5-17-23	1511	4	02.24	INV230011	152.4	4.12			~~Pass~~ Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter C[illegible]ration/Verification Logsheet
(FDEP SO[illegible]T 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: RH_SW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				06-02-22							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	6-22-23	8:49	29.79	21.5	8.79	29.76	8.65	99.25	21.80	(Pass) Fail
CAL ICV (CCV) MAINT	ME	6-22-23	17:00	29.76	20.8	8.90	29.73	8.69	99.40	21.54	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	ME	6-22-23	8:52	146.9	12/2023	INV230359	22.33	151.68			(Pass) Fail
CAL ICV (CCV) MAINT	ME	6-22-23	17:05	10,000	03/2025	INV230209	22.15	10,113			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	ME	6-22-23	8:54	7	02/2025	INV230200	-30.7	7.11			(Pass) Fail
CAL ICV (CCV) MAINT	ME	6-22-23	17:12	10	09/2024	INV230009	-212.5	10.22			Pass (Fail)
(CAL) ICV CCV MAINT	ME	6-22-23	17:14	4	11/2024	INV230201					Pass Fail
(CAL) ICV CCV MAINT	ME	6-22-23	17:17	7	02/2025	INV230200					Pass Fail
(CAL) ICV CCV MAINT	ME	6-22-23	17:19	10	09/2024	INV230009					Pass Fail
CAL (ICV) CCV MAINT	ME	6-22-23	17:21	10	09/2024	INV230009	-211.2	10.03			(Pass) Fail
CAL (ICV) CCV MAINT	ME	6-22-23	17:23	4	11/2024	INV230201	147.8	3.97			(Pass) Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter C[illegible]ration/Verification Logsheet
(FDEP SO[illegible]T 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852 AT400
Project: RH-SW (Marcus)
+ EMC Conductivity

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer		Meter		± 0.5 °C
							S/N	Temp °C	Temp °C		
CAL ICV CCV MAINT	06-27-23										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter				± 0.3 mg/l
							Baro in Hg	DO mg/L	% DO	Temp °C	
CAL ICV CCV MAINT	ME	7-18-23	8:45	30.01	21.3	8.90	29.98	8.92	100.64	21.38	Pass Fail
CAL ICV CCV MAINT	dm	7.18.23	1256	30.00	21.2	8.90	29.98	8.94	100.76	21.29	Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard			Meter				± 5%
				µmhos/cm	Expiration	ID	Temp °C	µmhos/cm			
CAL ICV CCV MAINT	ME	7-18-23	8:49	100	04/2025	INV230396	22.25	99.78			Pass Fail
CAL ICV CCV MAINT	dm	7.18.23	1301	1409	2-25	INV230202	23.29	10932			Pass Fail
CAL ICV CCV MAINT	ME	7-18-23	16:27	1,000	02/2025	INV230202	23.64	997.20			Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard			Meter				± 0.2 SU
				SU	Expiration	ID	pH mV	SU			
CAL ICV CCV MAINT	ME	7-18-23	8:51	7	02/2025	INV230200	-38.7	7.01			Pass Fail
CAL ICV CCV MAINT	dm	7.18.23	1304	4	11.24	INV230201	134.4	4.08			Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard			Meter				± 20 mV
				mV	Expiration	ID	Temp °C	mV			
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: USDA + CC / TEX
+RH-SW + USDA II

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				06-27-23							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV CCV MAINT	ME	8-21-23	8:06	30.02	22.8	8.63	29.99	8.65	100.13	22.74	Pass Fail
CAL ICV CCV MAINT	ME	8-22-23	8:12	29.98	21.2	8.89	29.96	8.94	101.03	21.34	Pass Fail
CAL ICV CCV MAINT	ME	8-23-23	8:01	29.92	22.6	8.69	29.89	8.67	100.54	22.51	Pass Fail
CAL ICV CCV MAINT	ME	8-24-23	8:03	29.93	21.7	8.80	29.90	8.92	101.02	21.40	Pass Fail
CAL ICV CCV MAINT	ME	8-24-23	15:46	29.88	21.7	8.79	29.85	8.99	102.02	21.40	Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV CCV MAINT	ME	8-21-23	8:04	100	04/2025	INV230396	23.14	102.93			Pass Fail
CAL ICV CCV MAINT	ME	8-22-23	8:16	1,000	02/2025	INV230202	22.38	1,021.3			Pass Fail
CAL ICV CCV MAINT	ME	8-23-23	8:04	50,000	04/2025	INV230272	22.75	50,403			Pass Fail
CAL ICV CCV MAINT	ME	8-24-23	8:09	1,000	02/2025	INV230202	21.44	1,011.0			Pass Fail
CAL ICV CCV MAINT	ME	8-24-23	15:49	100	04/2025	INV230396	23.39	102.19			Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV CCV MAINT	ME	8-21-23	8:13	7	02/2025	INV230200	-47.4	7.01			Pass Fail
CAL ICV CCV MAINT	ME	8-22-23	8:18	4	11/2024	INV230201	122.4	4.15			Pass Fail
CAL ICV CCV MAINT	ME	8-23-23	8:08	10	09/2024	INV230009	-228.7	10.01			Pass Fail
CAL ICV CCV MAINT	ME	8-23-23	8:10	4	11/2024	INV230201	129.2	4.04			Pass Fail
CAL ICV CCV MAINT	ME	8-24-23	8:11	4	11/2024	INV230201	121.3	4.16			Pass Fail
CAL ICV CCV MAINT	ME	8-24-23	15:51	4	11/2024	INV230201	122.1	4.16			Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV CCV MAINT	ME	8-23-23	8:12	ZoBells	8-30-23	INV230522	20.32	228.5			Pass Fail
CAL ICV CCV MAINT	ME	8-24-23	8:13	ZoBells	8-30-23	INV230522	13.57	246.4			Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills SW

06-27-23

Method/Parameter	Technician Initials	MMDDYY Date	24 HH:MM Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	Acceptance Critera
DEP SOP FT 1400 *Temperature*									± 0.5 °C
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	9-11-23	9:51	29.98	20.6	9.01	29.94	9.06	99.96	20.07	(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-11-23	17:17	29.96	20.8	8.94	29.87	8.90	100.09	20.76	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	ME	9-11-23	9:54	100	04/2025	INV230396	20.25	103.73	(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-11-23	17:20	1,000	02/2025	INV230202	21.44	995.74	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	ME	9-11-23	9:59	7	02/2025	INV230200	-54.2	7.13	(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-11-23	17:33	4	03/2025	INV230409	121.4	4.16	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Cal[illegible]tion/Verification Logsheet
(FDEP SOP [illegible] 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT				06-27-23							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	10-18-23	8:17	30.07	20.1	9.13	30.05	9.18	95.76	17.48	(Pass) Fail
CAL ICV (CCV) MAINT	ME	10-18-23	14:37	30.03	20.2	9.10	30.00	9.11	95.64	17.76	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	ME	10-18-23	8:26	100	04/2025	INV230946	18.06	103.57			(Pass) Fail
CAL ICV (CCV) MAINT	ME	10-18-23	14:40	1,000	02/2025	INV230202	1,032.7 →	18.33			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	ME	10-18-23	8:22	7	04/2025	INV230410	-68.4	7.11			(Pass) Fail
CAL ICV (CCV) MAINT	ME	10-18-23	14:42	4	03/2025	INV230409	106.9	4.17			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821652 AT400
Project: EMC
+ Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT	06-27-23									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	11-6-23	9:46	30.06	18.8	9.35	30.04	9.58	96.35	15.67	(Pass) Fail
CAL ICV (CCV) MAINT	ME	11-7-23	9:04	30.05	19.3	9.26	30.04	10.07	98.62	14.56	(Pass) Fail (FCD)
(CAL) ICV CCV MAINT	ME	11-7-23	9:11								Pass Fail
CAL (ICV) CCV MAINT	ME	11-7-23	9:14	30.05	19.3	9.26	30.03	9.25	90.57	14.53	(Pass) Fail
CAL ICV (CCV) MAINT	ME	11-7-23	16:51	29.97	20.0	ME 29.94 9.12	29.94	9.11	90.77	15.20	(Pass) Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	ME	11-6-23	9:50	100	04-2025	INV230396	16.91	103.98		(Pass) Fail
CAL ICV (CCV) MAINT	ME	11-7-23	9:17	1,000	02/2025	INV230202	15.55	1,068.1		Pass (Fail)
CAL ICV (CCV) MAINT	ME	11-7-23	9:29	1,000	09/2025	INV230624	15.55	1,078.5		ME (Pass) Fail
(CAL) ICV CCV MAINT	ME	11-7-23	9:37	1,000	09/2025	INV230624	15.78	997.78		(Pass) Fail
CAL ICV (CCV) MAINT	ME	11-7-23	16:53	1,000	09/2025	INV230624	16.08	1,001.0		(Pass) Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	ME	11-6-23	9:54	7	04/2025	INV230410	-67.3	7.18		(Pass) Fail
(CAL) ICV CCV MAINT	ME	11-6-23	10:04	4	03/2025	INV230409				Pass Fail
(CAL) ICV CCV MAINT	ME	11-6-23	10:06	7	04/2025	INV230410				Pass Fail
(CAL) ICV CCV MAINT	ME	11-6-23	10:07	10	05/2025	INV230411				Pass Fail
CAL ICV (CCV) MAINT	ME	11-7-23	9:46	4	03/2025	INV230409	100.7	4.17		(Pass) Fail
CAL ICV (CCV) MAINT	ME	11-7-23	16:55	4	03/2025	INV230409	98.9	4.19		(Pass) Fail
										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes: Pre-ccv on pH. Calibration completed before sampling due to high pH value on pre-cal. of AT400.

11-7-23: Post ccv on RDO concentration failure, Calibration completed at 9:11. (Pre-ccv for RH-SW)

Post ccv (Pre ccv for RH-SW) failed with old 1,000 cond. standard (INV230202). New 1,000 Cond. standard used (INV230624)

Post ccv (Pre-CCV For RH-SW) Spec. Cond. failure. Calibration completed @ 9:37.

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 738999 ATSW
Project: Rolling Hills - SW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	12/18/2023	0906	29.98	17.2	9.65	29.95	7.32	69.58	12.29	Pass (Fail)
CAL ICV (CCV) MAINT	ME	12-18-23	9:18	29.89	17.(	9.67	29.99	9.83	101.91	17.16	(Pass) Fail
CAL ICV (CCV) MAINT	SCD ME	12-18-23	15:158	29.95	17.1	9.65	29.95	9.79	101.9	17.41	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	ME SCD	12/18/2023	0922	100	June 2025	230553	18.5	95.78		(Pass) Fail
CAL ICV (CCV) MAINT	ME SCD	12/18/23	1600	1000	Sept 2025	230624	18.91	993.44		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	ME SCD	12/18/23	0926	7	Sept 2025	230706	-0.8	7.02		(Pass) Fail
CAL ICV (CCV) MAINT	ME SCD	12/18/23	1602	10	Aug 2025	230707	-174.4	10.01		(Pass) Fail
CAL ICV (CCV) MAINT	ME SCD	12/18/23	1604	4	Oct 25, 2025	230705	169.8	4.04		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes: 12/18/23 D.O. failure, rinsing & repeating test, turned off then back on. Temp came up to normal (with water bath = 12.3 C)

Appendix 8

Wedgewood Community Center

Groundwater Well Installation Report

September 2019

Geosyntec consultants

1120 North 12th Avenue
Pensacola, Florida 32501
PH 850.477.6547
www.geosyntec.com

6 September 2019

Mr. Brent Wipf
Water Quality and Land Management Division Manager
Escambia County
3363 West Park Place
Pensacola, Florida 32505

Subject: Installation of MW-09 and MW-10
Wedgewood Community Center
6405 Wagner Road, Pensacola, Florida 32505

Dear Mr. Wipf,

This letter provides a brief narrative to document the field activities conducted by Geosyntec Consultants (Geosyntec) on behalf of Escambia County at the Wedgewood Community Center (Site) on 7 to 8 August 2019. Geosyntec was assisted by Singley Construction Company (Singley), a State-licensed driller, to advance two soil borings for lithologic characterization of the proposed screen interval and install two monitoring wells. The purpose of these wells is to provide Escambia County with two background wells near the Rolling Hills Road C&D Debris Disposal Facility (Rolling Hills, WACS Facility ID 3133). More details are provided herein.

Well Screen Interval Evaluation

In an effort to select well placement and design, for these background wells, an evaluation of existing Rolling Hills monitoring well construction details was conducted. This evaluation concluded that monitoring wells across Rolling Hills were generally screened below the water table (based on March 2019 well gauging results from Florida Department of Environmental Protection (FDEP) memo[1]). The new monitoring wells were screened similar to the existing wells at Rolling Hills.

Well Installation and Development

Geosyntec oversaw the installation of monitoring wells MW-09 and MW-10 by Singley on 7 to 8 August 2019 (**Figure 1**). The monitoring wells were installed using hollow stem auger drilling techniques to total depths ranging from 63 to 65 feet below land surface (ft BLS). Both wells were constructed of 2-in. diameter schedule (Sch) 40 poly-vinyl chloride (PVC) casing and 5-ft of 0.010-in. slotted PVC well screen. Filter pack material consisting of 20/40 grade silica sand was placed from the bottom of the borehole to approximately 2-ft above the top of the well screen,

[1] FDEP Memorandum to Brad Hartshorn: March 1st 2019 Groundwater Sampling Event, Rolling Hills C&D Facility.

followed by a 2-ft seal of 30/70-grade silica sand and Type I/II Portland cement grout to the surface. The new monitoring wells were completed with 2-in. diameter expansion caps and 8-in. diameter steel bolt-down manholes installed in 2-ft by 2-ft concrete pads. Monitoring wells were developed using a submersible pump and high-density polyethylene (HDPE) tubing for approximately 30 minutes and 20 to 40 gallons were purged from each. Soil cores were continuously collected with split spoons and logged for subsurface lithologic characterization according to the Unified Soil Classification System for the last 10-ft of the boring to select the screen interval. Select photographss of soil borings are provided in photographic log in **Attachment A.**

Well development was completed by Geosyntec following well construction. An electric submersible pump was utilized to surge and purge the wells. Purging of the wells was continued for approximately 30 minutes or until the water was visibly clear of particulates. The boring logs, monitoring well construction logs and well development forms are included in **Attachment B**.

Investigative-Derived Waste (IDW) Management

Soil cuttings and development water generated during well installation activities were placed in drums, labeled as IDW, and staged at the Site (**Figure 1**). Six drums of soil and one drum of liquid IDW were generated during these activities. The drums remain on-site and Escambia County Water Quality and Land Management (ECWQLM) will coordinate with Escambia County Waste Services Department (ECWSD) to transport off-site. A copy of the IDW soil and water laboratory analytical results is included in **Attachment C**.

Well Survey

The two new monitoring wells will be surveyed by Escambia County and will include horizontal location and vertical elevation of the surface elevation (concrete pad) to the nearest 0.01-ft. Elevations will also be measured on the top of the PVC well casing (TOC elevation) to the nearest 0.01-ft. Northings and eastings will be recorded in feet relative to the North America Datum of 1983. Top of casing and ground surface elevations will be in feet relative to North American Vertical Datum of 1988.

Proposed Sampling Plan

It is recommended that MW-09 and MW-10 are sampled according to the Rolling Hills sampling plan (**Table 1**). If possible, ECWQLM should attempt to coordinate depth to water measurements to occur within 24 hours of a FDEP sampling event at Rolling Hills.

Closure

This report documents the design, installation, development, and recommended sampling plan of MW-09 and MW-10 at the Wedgewood Community Center. Should you have any questions or concerns regarding the information provided herein, please do not hesitate to contact Mollie Taylor at 850.483.5108 (mtaylor@geosyntec.com) or Jill Johnson at 850.483.5100 (jjohnson@geosyntec.com).

Sincerely,

Mollie Taylor
Senior Staff Engineer

Jill W. Johnson, P.G.
Principal Geologist

JILL W. JOHNSON LICENSE No. PG 2376 STATE OF FLORIDA PROFESSIONAL GEOLOGIST

Attachments:

Tables
Figures
Attachment A – Photo Logs
Attachment B – Field Forms
Attachment C – IDW Laboratory Analytical Reports

TABLE

Table 1
Sampling and Analysis Plan
Wedgewood Community Center
Escambia County, Florida

Location ID	Laboratory Parameters	Field Parameters	Frequency
MW-09 MW-10	Arsenic Aluminum Boron Cadmium Chlorides Chromium Hydroden Sulfide Iron Lead Mercury Nitrate Sodium Strontium Sulfate Sulfides Total Ammonia - N Total Dissolved Solids Xylenes Those parameters listed in EPA Methods 601 and 602	pH Turbidity Temperature Specific Conductivity Dissolved Oxygen Water Elevations Colors and Sheens (by observation)	Semi-Annual

FIGURE

Notes:

Points are approximate locations.

Site Map

Wedgewood Community Center
Pensacola, Florida

Geosyntec consultants

Pensacola, Florida | September 2019

Figure 1

ATTACHMENT A
Photo Logs

GEOSYNTEC CONSULTANTS
Photographic Record

Client: ECWQLM	**Project Number: FR1864Q**
Site Name: Wedgewood Community Center	**Site Location: 6405 Wagner Road, Pensacola, Florida 32505**

Photograph 1 **Date: 8/7/2019** **Well: MW-09 (55 - 57')**	
Photograph 2 **Date: 8/7/2019** **Well: MW-09 (57 - 59')**	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: ECWQLM	**Project Number: FR1864Q**
Site Name: Wedgewood Community Center	**Site Location: 6405 Wagner Road, Pensacola, Florida 32505**

Photograph 3 **Date: 8/7/2019** **Well: MW-09 (59 - 61')**	
Photograph 4 **Date: 8/7/2019** **Well: MW-09 (61 - 63')**	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: ECWQLM	**Project Number: FR1864Q**
Site Name: Wedgewood Community Center	**Site Location: 6405 Wagner Road, Pensacola, Florida 32505**

Photograph 5 **Date: 8/7/2019** **Well: MW-09 (63 - 65')**	
Photograph 6 **Date: 8/7/2019** **Well: MW-09**	

GEOSYNTEC CONSULTANTS
Photographic Record

Geosyntec consultants

Client: ECWQLM	**Project Number: FR1864Q**
Site Name: Wedgewood Community Center	**Site Location: 6405 Wagner Road, Pensacola, Florida 32505**

Photograph 7

Date: 8/8/2019

Well: MW-10 (58 - 60')

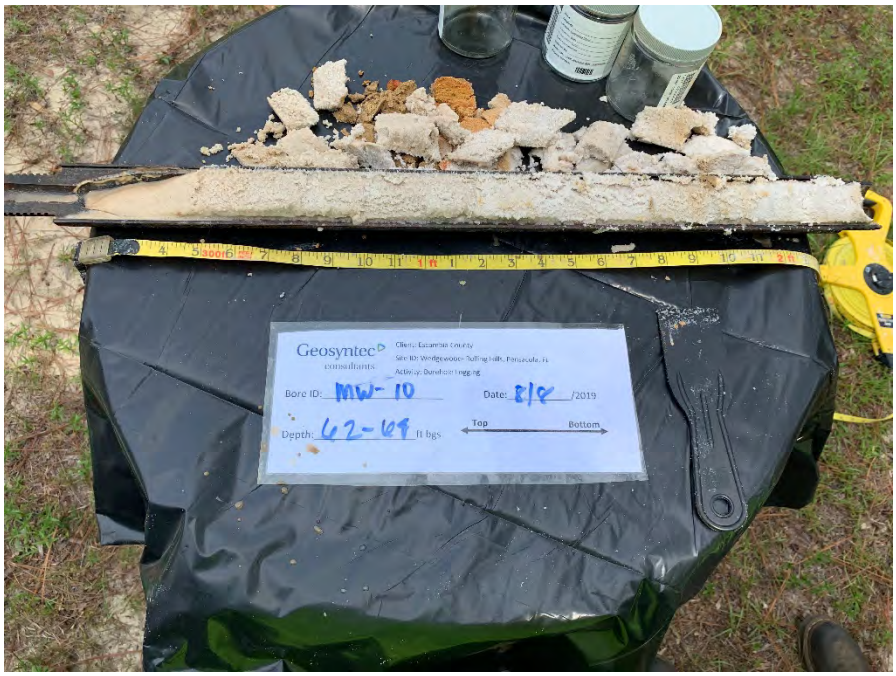
Photograph 8

Date: 8/8/2019

Well: MW-10 (60 - 62')

GEOSYNTEC CONSULTANTS
Photographic Record

Client: ECWQLM	**Project Number: FR1864Q**
Site Name: Wedgewood Community Center	**Site Location: 6405 Wagner Road, Pensacola, Florida 32505**

Photograph 9	
Date: 8/8/2019	
Well: MW-10 (62 - 64')	

Photograph 10	
Date: 8/8/2019	
Well: MW-10 (64 - 66')	

GEOSYNTEC CONSULTANTS Photographic Record	Geosyntec consultants
Client: ECWQLM	**Project Number: FR1864Q**
Site Name: Wedgewood Community Center	**Site Location: 6405 Wagner Road, Pensacola, Florida 32505**

Photograph 11 **Date: 8/8/2019** **Well: MW-10 (66 - 68')**	
Photograph 12 **Date: 8/8/2019** **Well: MW-10**	

ATTACHMENT B
Field Forms

Geosyntec consultants

BORING LOG

Date:____8/7/2019____
Page __1__ of __1___
Proj. No.:___FR1864Q___

Site:_Wedgewood Community Center_ Boring No.: _1 (MW09)__
Tools and Method: Hollow Stem Auger with Split Spoon Bit Dia: __8 inches____
Total Depth:__65 ft BGS_____ Groundwater Depth:__37.71 ft BGS_____
Drilling Company:___Singley_____ Rig:__HSA_____
Drillers:_Buddy Walker_____
Logger(s):__M. Taylor_____ Reviewer:_T. Wilson_____

Boring:__MW-09_____ Site:_Wedgewood___ Proj No.:__FR1864Q_____ Page 1 of __1___

Elev. (ft)	Top (feet)	Lithology Log	Drilling Log
55		SAND with Clay (SC), Brown	
	56	SAND with Clay (SC), Orange	
	56.5	SAND (SP), white, well-sorted, medium grained	2' Split spoon sampling
57		Same as 56.5'	
59		Same as 56.5'	
61		Same as 56.5'	
63		Same as 56.5'	
65		End of boring (65')	

Geosyntec consultants

BORING LOG

Date:____8/8/2019____
Page __1__ of __1___
Proj. No.:___FR1864Q___

Site:_Wedgewood Community Center _ Boring No.: _1 (MW10)_
Tools and Method: Hollow Stem Auger with Split Spoon Bit Dia: __8 inches____
Total Depth:__68 ft BGS_____ Groundwater Depth:__41.11 ft BGS_____
Drilling Company:___Singley_____ Rig:_HSA_____
Drillers:_Buddy Walker_____
Logger(s):__M. Taylor_____ Reviewer:___T. Wilson_____

Elev. (ft)	Top (feet)	Lithology Log	Drilling Log
58		SAND (SP), brown, well-sorted, with clay lens	
	59	SAND (SP), white, well-sorted, medium grained	2' Split spoon sampling
60		Same as 59'	
62		Same as 59'	
64		No Recovery	
	65	SAND (SP), white, well-sorted, medium grained	
66		Same as 65'	
68		End of boring (68')	

Boring:__MW-10_____ Site:_Wedgewood___ Proj No.:__FR1864Q_____ Page 1 of __1___

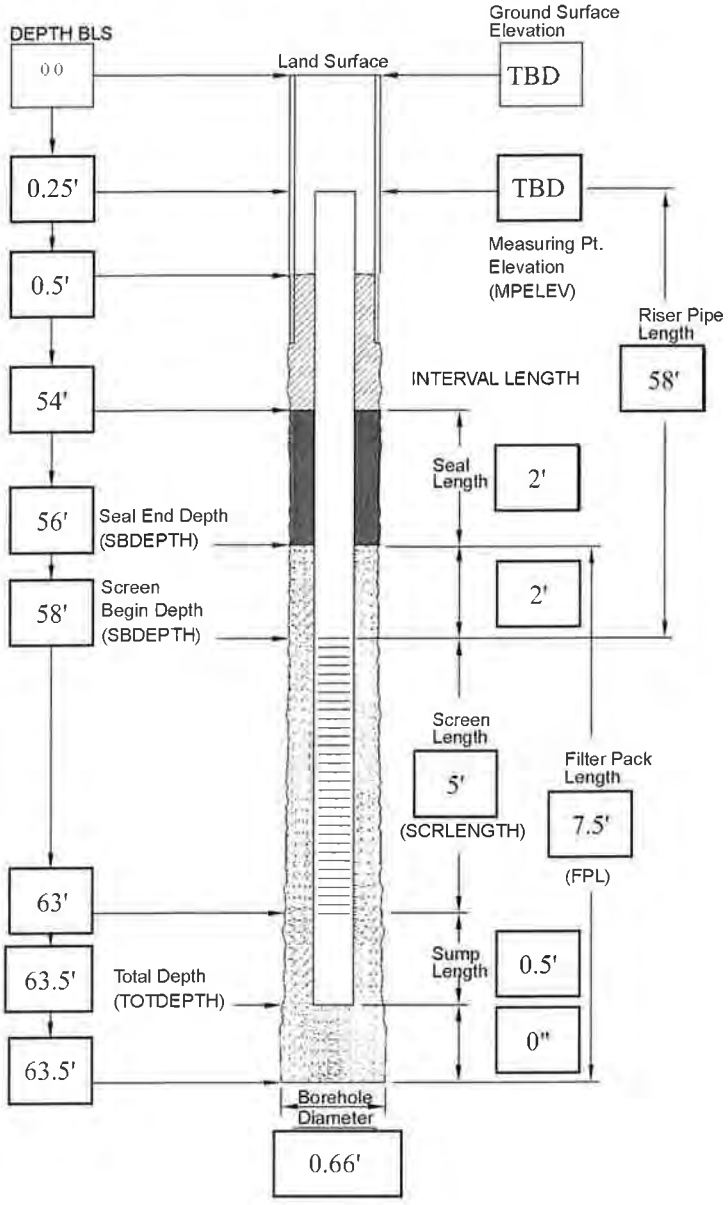
Project # FR1864Q/05

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW-9
Drilling Company: Singley
Drillers: Buddy Walker
Geologist/Engineer: Mollie Taylor
Signature: Mollie Taylor

Site: Wedgewood Community Center
Installation Method: Hollow Stem Auger
Casing Installation Date (INSDATE): 7 August 2019
Well Type (WTCCODE): Monitoring Well
Well Completion Method (WCMCODE): Flush Mount
Geologic Completion Zone (GZCODE): Surfical



Well Completion
Guard Posts NO Date: 7 August 2019
Surface Pad Size: 2 ft x 2 ft
Protective Casing or Cover
Diameter/Type: 8" steel manhole cover
Depth BGS: 0" Weep Hole NO
Grout
Composition/Proportions:
Type 1/11 Portland Cement /10 gal water per 94lb bag
Placement Method: Surface pour during auger removal

Seal Date: 7 August 2019
Type: Silica Sand 30/70
Source: Consolidated Aggregates
Set-up/Hydration Time: N/A
Placement Method: Surface pour during auger removal
Vol. Fluid Added: 10 gallons
Filter Pack
Type: Silica Sand 20/40
Source: Consolidated Aggregates
Amount Used: 3- 50 lb bags
Placement Method: Surface pour, tamp with tremie pipe
Well Riser Pipe
Casing Material (CMACODE): Sch 40 PVC
Casing Inside Diameters (CASDIAM): 2 in.
Screen
Material: Sch 40 PVC
Inside Diameter (SCRDIAM): 2 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): 2.51 in2/ft
Sump or Bottom Cap (YES
Type/Length: Sch 40 PVC Sump 6"
Backfill Plug (NO
Material: NA
Placement Method: NA
Set-up/Hydration Time: NA
Total Water Volume During Construction
Introduced (Gal): 10
Recovered (Gal): 40
Reviewed
By: T. Wilson Date: 4 September 2019

Comments

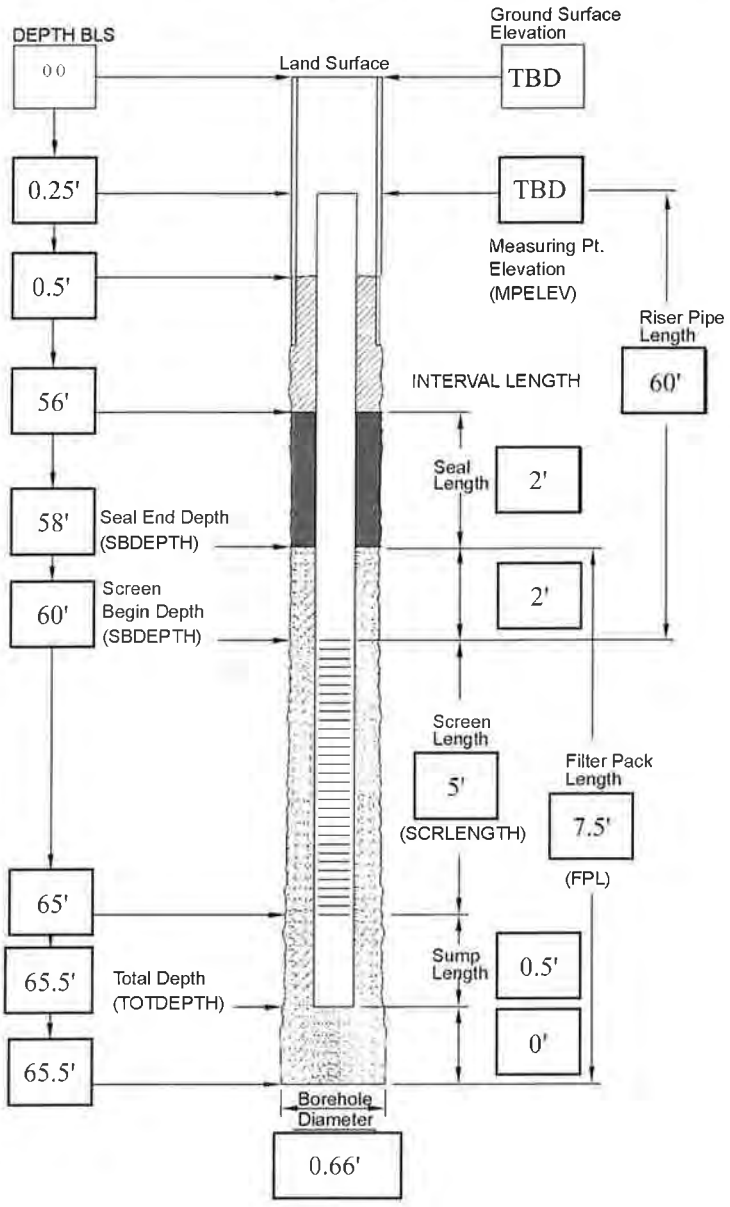
Project # FR1864Q/05

FORM C
Fieldbook _____

WELL CONSTRUCTION LOG
STANDARD FLUSH MOUNT

Well I.D. (LOCID): MW-10
Drilling Company: Singley
Drillers: Buddy Walker
Geologist/Engineer: M. Taylor
Signature:

Site: Wedgewood Community Center
Installation Method: Hollow Steam Auger
Casing Installation Date (INSDATE): 8 August 2019
Well Type (WTCODE): Montioring Well
Well Completion Method (WCMCODE): Flush Mount
Geologic Completion Zone (GZCODE): Surficial



Well Completion
Guard Posts NO Date: 8 August 2019
Surface Pad Size: 2 ft x 2 ft
Protective Casing or Cover
Diameter/Type: 8" Steel manhole cover
Depth BGS: 0' Weep Hole NO
Grout
Composition/Proportions:
Type 1/11 Portland Cement /10 gal water per 94lb bag
Placement Method: Surface pour during auger removal

Seal Date: 8 August 2019
Type: 30/70 Silica Sand
Source: Consolidated Aggregate
Set-up/Hydration Time: N/A
Placement Method: Surface pour during auger removal
Vol. Fluid Added: 10 gallons
Filter Pack
Type: 20/40 Silica Sand
Source: Consolidated Aggregates
Amount Used: 3- 50 lb bags
Placement Method: Surface pour, tamp with tremie pipe
Well Riser Pipe
Casing Material (CMACODE): Sch 40 PVC
Casing Inside Diameters (CASDIAM): 2 in.
Screen
Material: Sch 40 PVC
Inside Diameter (SCRDIAM): 2 in.
Screen Slot Size: (SOUA): 0.010 in.
Percent Open Area (PCTOPEN): 2.51 in2/ft
Sump or Bottom Cap (YES
Type/Length: Sch 40 PVC Sump 6"
Backfill Plug (NO
Material: NA
Placement Method: NA
Set-up/Hydration Time: NA
Total Water Volume During Construction
Introduced (Gal): 10
Recovered (Gal): 20
Reviewed
By: T. Wilson Date: 4 September 2019

Comments
develop well prior to grouting

WELL DEVELOPMENT DATA FORM

Site Name: Wedgewood - Rolling Hills	Project Number: FR18640 / 05
Well Name: MW-9	Date Installed: 8.7.2019
	Date Developed: 8.8.2019
Depth To Bottom:	
(Initial) 63.23	Pump (Type) Monsoon
(Final)	(Capacity) 1gpm
Started at 1450	water level - 37.71 Final bottom depth - 63.21
	Purge Water Containment Method: Drum
	GeoSyntec Representative: Mollie Taylor
	Drilling Firm Representative: Buddy Walker

Time	Volume Removed (gal)	pH	Temp (°C)	Specific Conductance (µS/cm)	Turbidity (NTU)		ORP (mV)	Comments
~~1455~~	5	6.07	24.89	111	71000		90.7	milky
1500	10	5.22	23.95	80	71000		126.0	milky
1505	15	5.19	23.70	74	71000		126.6	milky
1510	20	5.29	23.58	73	71000		124.3	milky
1515	25	5.27	23.57	68	802		126.3	no color
1520	30	5.21	23.45	66	603		131.4	no color
1525	35	5.23	23.52	64	356		131.1	no color
1530	40	~~4.77~~ 5.25	23.80	68	469		145.9	no color

WELL DEVELOPMENT DATA FORM

Site Name: Wedgewood
Well Name: MW10

Depth To Bottom:
(Initial) 64.74
(Final) 64.65

Started at 1320

Developed prior to grouting

Project Number: FR1840105
Date Installed: 8.8.2019
Date Developed: 8.8.2019

Pump (Type) Monsoon
(Capacity) 0.5 gpm

41.11 ft initial water level

Purge Water Containment Method: Drum
GeoSyntec Representative: Mollie Taylor
Drilling Firm Representative: Buddy Walker (Singley)

Time	Volume Removed (gal)	pH	Temp (°C)	Specific Conductance (µS/cm)	Turbidity (NTU)		ORP (mV)	Comments
1325	2.5	8.18	29.62	165	>1000		84.9	
1330	5	8.12	28.95	161	>1000		84.2	
1335	7.5	8.10	28.99	161	>1000		84.9	
1340	10	8.13	30.00	163	>1000		80.5	
	Tubing came unattached @ 1350					restarted purge		
1355	12.5	7.64	28.65	155	>1000		101.3	
1400	15	7.26	27.91	142	>1000		106.7	
1405	17.5	7.01	27.69	133	>1000		110.1	
1410	20	6.97	27.68	134	>1000		111.2	

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: Wedgewood Well Install Project #: FR1864.Q Field Personnel: M. Taylor, A. Huggins

Water Quality Meter - Model/Serial #: YSI 556 MS Turbidimeter - Model/Serial # HACH 2100Q

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		8.8.19	11:47	30.08	7.546	7.57	100.4	(P) F
CAL ICV (CCV)		8.8	15:40	31.2	7.546	7.49	101.8	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		8.8.19	11:50	1.413	9GF944	6/20	1.502	P (F)
CAL ICV CCV		8.8.19	11:51	[illegible]	9GF944	6/20	1.416	P F
CAL ICV CCV		8.8	1534	1.413	9GF944	6/20	1.585	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		8.8.19	11:53	7	9GG002	7/21	7.12	(P) F
CAL ICV (CCV)		8.8	1535	10	9GA1078	1/21	10.05	(P) F
CAL ICV (CCV)		8.8	1535	4	9GR1620	5/21	4.14	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		8.8.19	11:55	240.0	9GA567	10/19	228.4	P (F)
CAL (CV) CCV		8.8.19	11:57	240.0	9GA567	10/19	237.9	(P) F
CAL ICV (CCV)		8.8	15:34	240	9GA567	10/19	234.6	(P) F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 10%		
CAL ICV (CCV)	8.8	10.1	(P) F
CAL ICV (CCV)	8.8	10.1	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 8%		
CAL ICV (CCV)	8.8	19.9	(P) F
CAL ICV CCV	8.8	21.3	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 6.5%		
CAL ICV (CCV)	8.8	98.9	(P) F
CAL ICV (CCV)	8.8	103	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
	Acceptance Criteria: +/- 5%		
CAL ICV (CCV)	8.8	770	(P) F
CAL ICV (CCV)	8.8	760	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

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

Comments: _____

Geosyntec consultants

ATTACHMENT C
IDW Laboratory Analytical Reports

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-174453-1
Client Project/Site: Wedgewood Well Install

For:
Geosyntec Consultants, Inc.
1120 N. 12th Avenue
Pensacola, Florida 32501

Attn: Mollie Taylor

Mark Swafford

Authorized for release by:
8/22/2019 9:54:23 AM

Mark Swafford, Project Manager I
(850)471-6207
mark.swafford@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

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Method Summary 17
Chain of Custody 18
Receipt Checklists 20

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174453-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
Q	Sample held beyond the accepted holding time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-174453-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-174453-1

Comments
No additional comments.

Receipt
The sample was received on 8/8/2019 4:53 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 19.6º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010D: The method blank for preparation batch 660-214573 contained Lead above the Method detection Limit (MDL. The concentration was less than the Practical Quantitation Limit (PQL). There fore re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-451969 and 400-452299.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174453-1

Client Sample ID: 20190808-WW1DW2

Lab Sample ID: 400-174453-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.039	I	0.050	0.0046	mg/L	1		6010D	TCLP
Lead	0.012	I	0.050	0.010	mg/L	1		6010D	TCLP
Flashpoint	>212		60.0	60.0	Degrees F	1		1010A	Total/NA
pH	4.7	Q			SU	1		9040C	Total/NA
Temperature	24.1	Q			Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174453-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-174453-1	20190808-WW1DW2	Water	08/08/19 15:33	08/08/19 16:53	

Client Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174453-1

Client Sample ID: 20190808-WW1DW2

Date Collected: 08/08/19 15:33
Date Received: 08/08/19 16:53

Lab Sample ID: 400-174453-1

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0065	U	0.025	0.0065	mg/L		08/13/19 18:46	08/15/19 02:44	1
Endrin	0.00015	U	0.0010	0.00015	mg/L		08/13/19 18:46	08/15/19 02:44	1
gamma-BHC (Lindane)	0.0013	U	0.0025	0.0013	mg/L		08/13/19 18:46	08/15/19 02:44	1
Heptachlor	0.00016	U	0.0010	0.00016	mg/L		08/13/19 18:46	08/15/19 02:44	1
Heptachlor epoxide	0.00016	U	0.0010	0.00016	mg/L		08/13/19 18:46	08/15/19 02:44	1
Methoxychlor	0.00021	U	0.0010	0.00021	mg/L		08/13/19 18:46	08/15/19 02:44	1
Toxaphene	0.020	U	0.15	0.020	mg/L		08/13/19 18:46	08/15/19 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*10 - 130*	*08/13/19 18:46*	*08/15/19 02:44*	*1*
Tetrachloro-m-xylene	*56*		*43 - 130*	*08/13/19 18:46*	*08/15/19 02:44*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0013	U	0.10	0.0013	mg/L		08/14/19 15:48	08/17/19 01:35	1
Silvex (2,4,5-TP)	0.000091	U	0.020	0.000091	mg/L		08/14/19 15:48	08/17/19 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*65*		*30 - 142*	*08/14/19 15:48*	*08/17/19 01:35*	*1*

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0073	U	0.050	0.0073	mg/L		08/20/19 09:04	08/20/19 14:36	1
Arsenic	0.0093	U	0.050	0.0093	mg/L		08/20/19 09:04	08/20/19 14:36	1
Barium	**0.039**	**I**	0.050	0.0046	mg/L		08/20/19 09:04	08/20/19 14:36	1
Cadmium	0.0023	U	0.020	0.0023	mg/L		08/20/19 09:04	08/20/19 14:36	1
Chromium	0.0055	U	0.050	0.0055	mg/L		08/20/19 09:04	08/20/19 14:36	1
Lead	**0.012**	**I**	0.050	0.010	mg/L		08/20/19 09:04	08/20/19 14:36	1
Selenium	0.025	U	0.10	0.025	mg/L		08/20/19 09:04	08/20/19 14:36	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00056	U	0.0016	0.00056	mg/L		08/13/19 16:10	08/14/19 17:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>212**		60.0	60.0	Degrees F			08/13/19 09:10	1
pH	**4.7**	**Q**			SU			08/12/19 12:27	1
Temperature	**24.1**	**Q**			Degrees C			08/12/19 12:27	1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LCS 400-452299/2-A
Matrix: Water
Analysis Batch: 452475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			0.00200	0.00196		mg/L		98	63 - 150		
gamma-BHC (Lindane)			0.00200	0.00190		mg/L		95	53 - 150		
Heptachlor			0.00200	0.00162		mg/L		81	59 - 150		
Heptachlor epoxide			0.00200	0.00184		mg/L		92	63 - 150		
Methoxychlor			0.00200	0.00189		mg/L		95	57 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*10 - 130*
Tetrachloro-m-xylene	*55*		*43 - 130*

Lab Sample ID: LCSD 400-452299/3-A
Matrix: Water
Analysis Batch: 452475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 452299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin			0.00200	0.00194		mg/L		97	63 - 150	1	40
gamma-BHC (Lindane)			0.00200	0.00177		mg/L		88	53 - 150	7	40
Heptachlor			0.00200	0.00145		mg/L		72	59 - 150	11	40
Heptachlor epoxide			0.00200	0.00183		mg/L		91	63 - 150	1	40
Methoxychlor			0.00200	0.00185		mg/L		92	57 - 150	2	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*28*		*10 - 130*
Tetrachloro-m-xylene	*51*		*43 - 130*

Lab Sample ID: LB 400-451969/1-D
Matrix: Water
Analysis Batch: 452475

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 452299

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.00052	U	0.0020	0.00052	mg/L		08/13/19 18:46	08/15/19 01:43	1
Endrin	0.000012	U	0.000080	0.000012	mg/L		08/13/19 18:46	08/15/19 01:43	1
gamma-BHC (Lindane)	0.00010	U	0.00020	0.00010	mg/L		08/13/19 18:46	08/15/19 01:43	1
Heptachlor	0.000012	U	0.000080	0.000012	mg/L		08/13/19 18:46	08/15/19 01:43	1
Heptachlor epoxide	0.000013	U	0.000080	0.000013	mg/L		08/13/19 18:46	08/15/19 01:43	1
Methoxychlor	0.000016	U	0.000080	0.000016	mg/L		08/13/19 18:46	08/15/19 01:43	1
Toxaphene	0.0016	U	0.012	0.0016	mg/L		08/13/19 18:46	08/15/19 01:43	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*10 - 130*	*08/13/19 18:46*	*08/15/19 01:43*	*1*
Tetrachloro-m-xylene	*53*		*43 - 130*	*08/13/19 18:46*	*08/15/19 01:43*	*1*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LCS 400-452440/2-A
Matrix: Water
Analysis Batch: 452837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452440

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.0100	0.00712	I	mg/L		71	38 - 120		
Silvex (2,4,5-TP)			0.0100	0.00559		mg/L		56	32 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*59*		*30 - 142*

Lab Sample ID: LB 400-451969/1-G
Matrix: Water
Analysis Batch: 452837

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 452440

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0013	U	0.10	0.0013	mg/L		08/14/19 15:49	08/17/19 03:14	1
Silvex (2,4,5-TP)	0.000091	U	0.020	0.000091	mg/L		08/14/19 15:49	08/17/19 03:14	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*59*		*30 - 142*	*08/14/19 15:49*	*08/17/19 03:14*	*1*

Lab Sample ID: 400-174457-D-1-E MS
Matrix: Water
Analysis Batch: 452837

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 452440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D	0.0013	U	0.125	0.0868	I	mg/L		69	10 - 150		
Silvex (2,4,5-TP)	0.000091	U	0.125	0.0690		mg/L		55	16 - 137		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*58*		*30 - 142*

Lab Sample ID: 400-174457-D-1-F MSD
Matrix: Water
Analysis Batch: 452837

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 452440

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	0.0013	U	0.125	0.112		mg/L		89	10 - 150	25	34
Silvex (2,4,5-TP)	0.000091	U	0.125	0.0922		mg/L		74	16 - 137	29	41

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*81*		*30 - 142*

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 660-214575/2-A
Matrix: Water
Analysis Batch: 214583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silver			5.00	4.95		mg/L		99	80 - 120		
Arsenic			5.00	5.08		mg/L		102	80 - 120		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 660-214575/2-A
Matrix: Water
Analysis Batch: 214583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	5.00	5.07		mg/L		101	80 - 120
Cadmium	5.00	4.93		mg/L		99	80 - 120
Chromium	5.00	5.07		mg/L		101	80 - 120
Lead	5.00	4.85		mg/L		97	80 - 120
Selenium	5.00	5.10		mg/L		102	80 - 120

Lab Sample ID: LB 660-214573/1-B
Matrix: Water
Analysis Batch: 214583

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 214575

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0073	U	0.050	0.0073	mg/L		08/20/19 08:58	08/20/19 13:52	1
Arsenic	0.0093	U	0.050	0.0093	mg/L		08/20/19 08:58	08/20/19 13:52	1
Barium	0.0046	U	0.050	0.0046	mg/L		08/20/19 08:58	08/20/19 13:52	1
Cadmium	0.0023	U	0.020	0.0023	mg/L		08/20/19 08:58	08/20/19 13:52	1
Chromium	0.0055	U	0.050	0.0055	mg/L		08/20/19 08:58	08/20/19 13:52	1
Lead	0.010	U	0.050	0.010	mg/L		08/20/19 08:58	08/20/19 13:52	1
Selenium	0.025	U	0.10	0.025	mg/L		08/20/19 08:58	08/20/19 13:52	1

Lab Sample ID: LB 660-214573/7-B
Matrix: Water
Analysis Batch: 214583

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 214575

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0073	U	0.050	0.0073	mg/L		08/20/19 09:04	08/20/19 14:33	1
Arsenic	0.0093	U	0.050	0.0093	mg/L		08/20/19 09:04	08/20/19 14:33	1
Barium	0.0046	U	0.050	0.0046	mg/L		08/20/19 09:04	08/20/19 14:33	1
Cadmium	0.0023	U	0.020	0.0023	mg/L		08/20/19 09:04	08/20/19 14:33	1
Chromium	0.0055	U	0.050	0.0055	mg/L		08/20/19 09:04	08/20/19 14:33	1
Lead	0.0220	I	0.050	0.010	mg/L		08/20/19 09:04	08/20/19 14:33	1
Selenium	0.025	U	0.10	0.025	mg/L		08/20/19 09:04	08/20/19 14:33	1

Lab Sample ID: 400-174457-A-1-C MS
Matrix: Water
Analysis Batch: 214583

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 214575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0073	U	5.00	4.96		mg/L		99	75 - 125
Arsenic	0.0093	U	5.00	5.14		mg/L		103	75 - 125
Barium	0.11		5.00	5.20		mg/L		102	75 - 125
Cadmium	0.0023	U	5.00	4.92		mg/L		98	75 - 125
Chromium	0.0055	U	5.00	5.12		mg/L		102	75 - 125
Lead	0.020	I	5.00	4.91		mg/L		98	75 - 125
Selenium	0.025	U	5.00	5.13		mg/L		103	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 400-174457-A-1-D MSD
Matrix: Water
Analysis Batch: 214583

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 214575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.0073	U	5.00	4.97		mg/L		99	75 - 125	0	20
Arsenic	0.0093	U	5.00	5.13		mg/L		103	75 - 125	0	20
Barium	0.11		5.00	5.21		mg/L		102	75 - 125	0	20
Cadmium	0.0023	U	5.00	4.91		mg/L		98	75 - 125	0	20
Chromium	0.0055	U	5.00	5.11		mg/L		102	75 - 125	0	20
Lead	0.020	I	5.00	4.88		mg/L		97	75 - 125	0	20
Selenium	0.025	U	5.00	5.11		mg/L		102	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 400-452250/14-A
Matrix: Water
Analysis Batch: 452504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00806	0.00793		mg/L		98	80 - 120

Lab Sample ID: LB 400-451969/1-C
Matrix: Water
Analysis Batch: 452504

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 452250

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00056	U	0.0016	0.00056	mg/L		08/13/19 16:10	08/14/19 17:07	1

Lab Sample ID: 400-174160-A-1-F MS
Matrix: Water
Analysis Batch: 452504

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 452250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00056	U	0.0161	0.0167		mg/L		104	80 - 120

Lab Sample ID: 400-174160-A-1-G MSD
Matrix: Water
Analysis Batch: 452504

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 452250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00056	U	0.0161	0.0176		mg/L		109	80 - 120	5	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: MB 400-452284/3
Matrix: Water
Analysis Batch: 452284

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>212		60.0	60.0	Degrees F			08/13/19 09:10	1

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method (Continued)

Lab Sample ID: LCS 400-452284/2
Matrix: Water
Analysis Batch: 452284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Flashpoint			77.0	84.60		Degrees F		110	90 - 110		

Lab Sample ID: 400-174160-B-2 DU
Matrix: Water
Analysis Batch: 452284

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Flashpoint	>212			>212		Degrees F				NC	4

Method: 9040C - pH

Lab Sample ID: 400-174160-A-2 DU
Matrix: Water
Analysis Batch: 451981

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.6			6.7		SU				2	5
Temperature	23.1			23.3		Degrees C				0.9	30

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174453-1

GC Semi VOA

Leach Batch: 451969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	1311	
LB 400-451969/1-D	Method Blank	TCLP	Water	1311	
LB 400-451969/1-G	Method Blank	TCLP	Water	1311	
400-174457-D-1-E MS	Matrix Spike	TCLP	Water	1311	
400-174457-D-1-F MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Prep Batch: 452299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	3520C	451969
LB 400-451969/1-D	Method Blank	TCLP	Water	3520C	451969
LCS 400-452299/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 400-452299/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Prep Batch: 452440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	8151A	451969
LB 400-451969/1-G	Method Blank	TCLP	Water	8151A	451969
LCS 400-452440/2-A	Lab Control Sample	Total/NA	Water	8151A	
400-174457-D-1-E MS	Matrix Spike	TCLP	Water	8151A	451969
400-174457-D-1-F MSD	Matrix Spike Duplicate	TCLP	Water	8151A	451969

Analysis Batch: 452475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	8081B	452299
LB 400-451969/1-D	Method Blank	TCLP	Water	8081B	452299
LCS 400-452299/2-A	Lab Control Sample	Total/NA	Water	8081B	452299
LCSD 400-452299/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	452299

Analysis Batch: 452837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	8151A	452440
LB 400-451969/1-G	Method Blank	TCLP	Water	8151A	452440
LCS 400-452440/2-A	Lab Control Sample	Total/NA	Water	8151A	452440
400-174457-D-1-E MS	Matrix Spike	TCLP	Water	8151A	452440
400-174457-D-1-F MSD	Matrix Spike Duplicate	TCLP	Water	8151A	452440

Metals

Leach Batch: 214573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	1311	
LB 660-214573/1-B	Method Blank	TCLP	Water	1311	
LB 660-214573/7-B	Method Blank	TCLP	Water	1311	
400-174457-A-1-C MS	Matrix Spike	TCLP	Water	1311	
400-174457-A-1-D MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Prep Batch: 214575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	3010A	214573
LB 660-214573/1-B	Method Blank	TCLP	Water	3010A	214573
LB 660-214573/7-B	Method Blank	TCLP	Water	3010A	214573

Metals (Continued)

Prep Batch: 214575 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-214575/2-A	Lab Control Sample	Total/NA	Water	3010A	
400-174457-A-1-C MS	Matrix Spike	TCLP	Water	3010A	214573
400-174457-A-1-D MSD	Matrix Spike Duplicate	TCLP	Water	3010A	214573

Analysis Batch: 214583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	6010D	214575
LB 660-214573/1-B	Method Blank	TCLP	Water	6010D	214575
LB 660-214573/7-B	Method Blank	TCLP	Water	6010D	214575
LCS 660-214575/2-A	Lab Control Sample	Total/NA	Water	6010D	214575
400-174457-A-1-C MS	Matrix Spike	TCLP	Water	6010D	214575
400-174457-A-1-D MSD	Matrix Spike Duplicate	TCLP	Water	6010D	214575

Leach Batch: 451969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	1311	
LB 400-451969/1-C	Method Blank	TCLP	Water	1311	
400-174160-A-1-F MS	Matrix Spike	TCLP	Water	1311	
400-174160-A-1-G MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Prep Batch: 452250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	7470A	451969
LB 400-451969/1-C	Method Blank	TCLP	Water	7470A	451969
LCS 400-452250/14-A	Lab Control Sample	Total/NA	Water	7470A	
400-174160-A-1-F MS	Matrix Spike	TCLP	Water	7470A	451969
400-174160-A-1-G MSD	Matrix Spike Duplicate	TCLP	Water	7470A	451969

Analysis Batch: 452504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	TCLP	Water	7470A	452250
LB 400-451969/1-C	Method Blank	TCLP	Water	7470A	452250
LCS 400-452250/14-A	Lab Control Sample	Total/NA	Water	7470A	452250
400-174160-A-1-F MS	Matrix Spike	TCLP	Water	7470A	452250
400-174160-A-1-G MSD	Matrix Spike Duplicate	TCLP	Water	7470A	452250

General Chemistry

Analysis Batch: 451981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	Total/NA	Water	9040C	
LCS 400-451981/4	Lab Control Sample	Total/NA	Water	9040C	
400-174160-A-2 DU	Duplicate	Total/NA	Water	9040C	

Analysis Batch: 452284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174453-1	20190808-WW1DW2	Total/NA	Water	1010A	
MB 400-452284/3	Method Blank	Total/NA	Water	1010A	
LCS 400-452284/2	Lab Control Sample	Total/NA	Water	1010A	
400-174160-B-2 DU	Duplicate	Total/NA	Water	1010A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174453-1

Client Sample ID: 20190808-WW1DW2

Date Collected: 08/08/19 15:33
Date Received: 08/08/19 16:53

Lab Sample ID: 400-174453-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			451969	08/12/19 11:36	SLB	TAL PEN
TCLP	Prep	3520C			452299	08/13/19 18:46	BNL	TAL PEN
TCLP	Analysis	8081B		1	452475	08/15/19 02:44	S1S	TAL PEN
TCLP	Leach	1311			451969	08/12/19 11:36	SLB	TAL PEN
TCLP	Prep	8151A			452440	08/14/19 15:48	BAW	TAL PEN
TCLP	Analysis	8151A		1	452837	08/17/19 01:35	DS	TAL PEN
TCLP	Leach	1311			214573	08/20/19 08:54	GAF	TAL TAM
TCLP	Prep	3010A			214575	08/20/19 09:04	GAF	TAL TAM
TCLP	Analysis	6010D		1	214583	08/20/19 14:36	GAF	TAL TAM
TCLP	Leach	1311			451969	08/12/19 11:36	SLB	TAL PEN
TCLP	Prep	7470A			452250	08/13/19 16:10	JAP	TAL PEN
TCLP	Analysis	7470A		1	452504	08/14/19 17:26	JAP	TAL PEN
Total/NA	Analysis	1010A		1	452284	08/13/19 09:10	HES	TAL PEN
Total/NA	Analysis	9040C		1	451981	08/12/19 12:27	HES	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL TAM = Eurofins TestAmerica, Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Job ID: 400-174453-1
Project/Site: Wedgewood Well Install

Laboratory: Eurofins TestAmerica, Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9040C		Water	Temperature

Laboratory: Eurofins TestAmerica, Tampa

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E84282	06-30-20
Florida	NELAP	E84282	07-30-20
Georgia	State Program	905	06-30-20
USDA	Federal	P525-170731-001	09-25-20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174453-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	TAL PEN
8151A	Herbicides (GC)	SW846	TAL PEN
6010D	Metals (ICP)	SW846	TAL TAM
7470A	Mercury (CVAA)	SW846	TAL PEN
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL PEN
9040C	pH	SW846	TAL PEN
1311	TCLP Extraction	SW846	TAL PEN
1311	TCLP Extraction	SW846	TAL TAM
3010A	Preparation, Total Metals	SW846	TAL TAM
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN
8151A	Extraction (Herbicides)	SW846	TAL PEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL TAM = Eurofins TestAmerica, Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

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Client Information	Sampler: Mollie Taylor	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-86247-32260.1
Client Contact: ~~Crystal Towns~~ Mollie Taylor	Phone: 843 422-4966	E-Mail: mark.swafford@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:

Address: 1120 N. 12th Avenue	Due Date Requested:	Analysis Requested
City: Pensacola	TAT Requested (days): Standard	
State, Zip: FL, 32501	PO #: Purchase Order not required	
Phone:	WO #:	
Email: ctowns@geosyntec.com	Project #: 40003096	
Project Name: Wedgewood Well Install	SSOW#:	
Site:		

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

00-174453 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1010A - Flashpoint	8081B, 8151A	7470A - Local Method	9040C - pH and Temperature	6010D - RCRA Metals TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N		
20190808-WW1DW2	8.8.2019	1533	G	Water			1	4	1	1	1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Mollie Taylor	8/8/2019/1653	Geosyntec	Kaitlyn Owen	8-8-19 1653	TA-PEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 19.6°C IR7

Ver: 01/16/2019

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-218029.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: mark.swafford@testamericainc.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 400-174453-1
Address: 6712 Benjamin Road, Suite 100,	Due Date Requested: 8/21/2019			
City: Tampa	TAT Requested (days):			
State, Zip: FL, 33634				
Phone: 813-885-7427(Tel) 813-885-7049(Fax)	PO #:			
Email:	WO #:			
Project Name: Wedgewood Well Install	Project #: 40003096			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M RCRA Metals TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
20190808-WW1DW2 (400-174453-1)	8/8/19	15:33 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Kathy R Avery	8-9-19 1600	TA-Pen	[signature]	8-10-19 1200	TA-TAM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.2/4.2 CW-09

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-174453-1

Login Number: 174453
List Number: 1
Creator: Treadaway, Kristen N

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	19.6°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-174453-1

Login Number: 174453
List Number: 2
Creator: Redding, Charles S

List Source: Eurofins TestAmerica, Tampa
List Creation: 08/10/19 12:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-174457-1
Client Project/Site: Wedgewood Well Install

For:
Geosyntec Consultants, Inc.
1120 N. 12th Avenue
Pensacola, Florida 32501

Attn: Mollie Taylor

Mark Swafford

Authorized for release by:
8/22/2019 9:54:56 AM

Mark Swafford, Project Manager I
(850)471-6207
mark.swafford@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

Job ID: 400-174457-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-174457-1

Comments
No additional comments.

Receipt
The sample was received on 8/8/2019 4:53 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.7º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 400-451969 and 400-452299.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

Client Sample ID: 20190808-WW1DW1

Lab Sample ID: 400-174457-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.050	0.0046	mg/L	1		6010D	TCLP
Lead	0.020	I	0.050	0.010	mg/L	1		6010D	TCLP
Flashpoint	>212		60.0	60.0	Degrees F	1		1010A	Total/NA
pH	5.5				SU	1		9045D	Soluble
Temperature	25.2				Degrees C	1		9045D	Soluble

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-174457-1	20190808-WW1DW1	Solid	08/08/19 13:00	08/08/19 16:53	

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

Client Sample ID: 20190808-WW1DW1

Date Collected: 08/08/19 13:00
Date Received: 08/08/19 16:53

Lab Sample ID: 400-174457-1

Matrix: Solid

Method: 8081B - Organochlorine Pesticides (GC) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0065	U	0.025	0.0065	mg/L		08/13/19 18:46	08/15/19 03:14	1
Endrin	0.00015	U	0.0010	0.00015	mg/L		08/13/19 18:46	08/15/19 03:14	1
Heptachlor	0.00016	U	0.0010	0.00016	mg/L		08/13/19 18:46	08/15/19 03:14	1
Heptachlor epoxide	0.00016	U	0.0010	0.00016	mg/L		08/13/19 18:46	08/15/19 03:14	1
Methoxychlor	0.00021	U	0.0010	0.00021	mg/L		08/13/19 18:46	08/15/19 03:14	1
Toxaphene	0.020	U	0.15	0.020	mg/L		08/13/19 18:46	08/15/19 03:14	1
gamma-BHC (Lindane)	0.0013	U	0.0025	0.0013	mg/L		08/13/19 18:46	08/15/19 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*10 - 130*	*08/13/19 18:46*	*08/15/19 03:14*	*1*
Tetrachloro-m-xylene	*53*		*43 - 130*	*08/13/19 18:46*	*08/15/19 03:14*	*1*

Method: 8151A - Herbicides (GC) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0013	U	0.10	0.0013	mg/L		08/14/19 15:48	08/17/19 01:02	1
Silvex (2,4,5-TP)	0.000091	U	0.020	0.000091	mg/L		08/14/19 15:48	08/17/19 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*56*		*30 - 142*	*08/14/19 15:48*	*08/17/19 01:02*	*1*

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0073	U	0.050	0.0073	mg/L		08/20/19 08:58	08/20/19 14:01	1
Arsenic	0.0093	U	0.050	0.0093	mg/L		08/20/19 08:58	08/20/19 14:01	1
Barium	**0.11**		0.050	0.0046	mg/L		08/20/19 08:58	08/20/19 14:01	1
Cadmium	0.0023	U	0.020	0.0023	mg/L		08/20/19 08:58	08/20/19 14:01	1
Chromium	0.0055	U	0.050	0.0055	mg/L		08/20/19 08:58	08/20/19 14:01	1
Lead	**0.020**	**I**	0.050	0.010	mg/L		08/20/19 08:58	08/20/19 14:01	1
Selenium	0.025	U	0.10	0.025	mg/L		08/20/19 08:58	08/20/19 14:01	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00056	U	0.0016	0.00056	mg/L		08/13/19 16:10	08/14/19 17:28	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>212**		60.0	60.0	Degrees F			08/14/19 15:25	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.5**				SU			08/12/19 12:06	1
Temperature	**25.2**				Degrees C			08/12/19 12:06	1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LCS 400-452299/2-A
Matrix: Solid
Analysis Batch: 452475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452299

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Endrin			0.00200	0.00196		mg/L		98	36 - 173		
Heptachlor			0.00200	0.00162		mg/L		81	31 - 172		
Heptachlor epoxide			0.00200	0.00184		mg/L		92	38 - 156		
Methoxychlor			0.00200	0.00189		mg/L		95	36 - 161		
gamma-BHC (Lindane)			0.00200	0.00190		mg/L		95	29 - 160		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*10 - 130*
Tetrachloro-m-xylene	*55*		*43 - 130*

Lab Sample ID: LCSD 400-452299/3-A
Matrix: Solid
Analysis Batch: 452475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 452299

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin			0.00200	0.00194		mg/L		97	36 - 173	1	40
Heptachlor			0.00200	0.00145		mg/L		72	31 - 172	11	40
Heptachlor epoxide			0.00200	0.00183		mg/L		91	38 - 156	1	40
Methoxychlor			0.00200	0.00185		mg/L		92	36 - 161	2	40
gamma-BHC (Lindane)			0.00200	0.00177		mg/L		88	29 - 160	7	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*28*		*10 - 130*
Tetrachloro-m-xylene	*51*		*43 - 130*

Lab Sample ID: LB 400-451969/1-D
Matrix: Solid
Analysis Batch: 452475

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 452299

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.00052	U	0.0020	0.00052	mg/L		08/13/19 18:46	08/15/19 01:43	1
Endrin	0.000012	U	0.000080	0.000012	mg/L		08/13/19 18:46	08/15/19 01:43	1
Heptachlor	0.000012	U	0.000080	0.000012	mg/L		08/13/19 18:46	08/15/19 01:43	1
Heptachlor epoxide	0.000013	U	0.000080	0.000013	mg/L		08/13/19 18:46	08/15/19 01:43	1
Methoxychlor	0.000016	U	0.000080	0.000016	mg/L		08/13/19 18:46	08/15/19 01:43	1
Toxaphene	0.0016	U	0.012	0.0016	mg/L		08/13/19 18:46	08/15/19 01:43	1
gamma-BHC (Lindane)	0.00010	U	0.00020	0.00010	mg/L		08/13/19 18:46	08/15/19 01:43	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*10 - 130*	*08/13/19 18:46*	*08/15/19 01:43*	*1*
Tetrachloro-m-xylene	*53*		*43 - 130*	*08/13/19 18:46*	*08/15/19 01:43*	*1*

Method: 8151A - Herbicides (GC)

Lab Sample ID: LCS 400-452440/2-A
Matrix: Solid
Analysis Batch: 452837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452440

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.0100	0.00712	I	mg/L		71	38 - 120		
Silvex (2,4,5-TP)			0.0100	0.00559		mg/L		56	32 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*59*		*30 - 142*

Lab Sample ID: LB 400-451969/1-G
Matrix: Solid
Analysis Batch: 452837

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 452440

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0013	U	0.10	0.0013	mg/L		08/14/19 15:49	08/17/19 03:14	1
Silvex (2,4,5-TP)	0.000091	U	0.020	0.000091	mg/L		08/14/19 15:49	08/17/19 03:14	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*59*		*30 - 142*	*08/14/19 15:49*	*08/17/19 03:14*	*1*

Lab Sample ID: 400-174457-1 MS
Matrix: Solid
Analysis Batch: 452837

Client Sample ID: 20190808-WW1DW1
Prep Type: TCLP
Prep Batch: 452440

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D	0.0013	U	0.125	0.0868	I	mg/L		69	10 - 150		
Silvex (2,4,5-TP)	0.000091	U	0.125	0.0690		mg/L		55	16 - 137		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*58*		*30 - 142*

Lab Sample ID: 400-174457-1 MSD
Matrix: Solid
Analysis Batch: 452837

Client Sample ID: 20190808-WW1DW1
Prep Type: TCLP
Prep Batch: 452440

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D	0.0013	U	0.125	0.112		mg/L		89	10 - 150	25	34
Silvex (2,4,5-TP)	0.000091	U	0.125	0.0922		mg/L		74	16 - 137	29	41

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*81*		*30 - 142*

Method: 6010D - Metals (ICP)

Lab Sample ID: LCS 660-214575/2-A
Matrix: Solid
Analysis Batch: 214583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214575

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Silver			5.00	4.95		mg/L		99	80 - 120		
Arsenic			5.00	5.08		mg/L		102	80 - 120		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 660-214575/2-A
Matrix: Solid
Analysis Batch: 214583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	5.00	5.07		mg/L		101	80 - 120
Cadmium	5.00	4.93		mg/L		99	80 - 120
Chromium	5.00	5.07		mg/L		101	80 - 120
Lead	5.00	4.85		mg/L		97	80 - 120
Selenium	5.00	5.10		mg/L		102	80 - 120

Lab Sample ID: LB 660-214573/1-B
Matrix: Solid
Analysis Batch: 214583

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 214575

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0073	U	0.050	0.0073	mg/L		08/20/19 08:58	08/20/19 13:52	1
Arsenic	0.0093	U	0.050	0.0093	mg/L		08/20/19 08:58	08/20/19 13:52	1
Barium	0.0046	U	0.050	0.0046	mg/L		08/20/19 08:58	08/20/19 13:52	1
Cadmium	0.0023	U	0.020	0.0023	mg/L		08/20/19 08:58	08/20/19 13:52	1
Chromium	0.0055	U	0.050	0.0055	mg/L		08/20/19 08:58	08/20/19 13:52	1
Lead	0.010	U	0.050	0.010	mg/L		08/20/19 08:58	08/20/19 13:52	1
Selenium	0.025	U	0.10	0.025	mg/L		08/20/19 08:58	08/20/19 13:52	1

Lab Sample ID: 400-174457-1 MS
Matrix: Solid
Analysis Batch: 214583

Client Sample ID: 20190808-WW1DW1
Prep Type: TCLP
Prep Batch: 214575

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	0.0073	U	5.00	4.96		mg/L		99	75 - 125
Arsenic	0.0093	U	5.00	5.14		mg/L		103	75 - 125
Barium	0.11		5.00	5.20		mg/L		102	75 - 125
Cadmium	0.0023	U	5.00	4.92		mg/L		98	75 - 125
Chromium	0.0055	U	5.00	5.12		mg/L		102	75 - 125
Lead	0.020	I	5.00	4.91		mg/L		98	75 - 125
Selenium	0.025	U	5.00	5.13		mg/L		103	75 - 125

Lab Sample ID: 400-174457-1 MSD
Matrix: Solid
Analysis Batch: 214583

Client Sample ID: 20190808-WW1DW1
Prep Type: TCLP
Prep Batch: 214575

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	0.0073	U	5.00	4.97		mg/L		99	75 - 125	0	20
Arsenic	0.0093	U	5.00	5.13		mg/L		103	75 - 125	0	20
Barium	0.11		5.00	5.21		mg/L		102	75 - 125	0	20
Cadmium	0.0023	U	5.00	4.91		mg/L		98	75 - 125	0	20
Chromium	0.0055	U	5.00	5.11		mg/L		102	75 - 125	0	20
Lead	0.020	I	5.00	4.88		mg/L		97	75 - 125	0	20
Selenium	0.025	U	5.00	5.11		mg/L		102	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 400-452250/14-A
Matrix: Solid
Analysis Batch: 452504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 452250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00806	0.00793		mg/L		98	80 - 120

Lab Sample ID: LB 400-451969/1-C
Matrix: Solid
Analysis Batch: 452504

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 452250

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00056	U	0.0016	0.00056	mg/L		08/13/19 16:10	08/14/19 17:07	1

Lab Sample ID: 400-174160-A-1-F MS
Matrix: Solid
Analysis Batch: 452504

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 452250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00056	U	0.0161	0.0167		mg/L		104	80 - 120

Lab Sample ID: 400-174160-A-1-G MSD
Matrix: Solid
Analysis Batch: 452504

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 452250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00056	U	0.0161	0.0176		mg/L		109	80 - 120	5	20

Method: 1010A - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: MB 400-452628/1
Matrix: Solid
Analysis Batch: 452628

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>212		60.0	60.0	Degrees F			08/14/19 15:25	1

Lab Sample ID: 400-174575-A-1 DU
Matrix: Solid
Analysis Batch: 452628

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>212		>212		Degrees F		NC	4

Method: 9045D - pH

Lab Sample ID: 400-173466-D-22 DU
Matrix: Solid
Analysis Batch: 451978

Client Sample ID: Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	5.4		5.3		SU		0.7	5
Temperature	25.0		25.2		Degrees C		0.8	30

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

GC Semi VOA

Leach Batch: 451969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	1311	
LB 400-451969/1-D	Method Blank	TCLP	Solid	1311	
LB 400-451969/1-G	Method Blank	TCLP	Solid	1311	
400-174457-1 MS	20190808-WW1DW1	TCLP	Solid	1311	
400-174457-1 MSD	20190808-WW1DW1	TCLP	Solid	1311	

Prep Batch: 452299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	3520C	451969
LB 400-451969/1-D	Method Blank	TCLP	Solid	3520C	451969
LCS 400-452299/2-A	Lab Control Sample	Total/NA	Solid	3520C	
LCSD 400-452299/3-A	Lab Control Sample Dup	Total/NA	Solid	3520C	

Prep Batch: 452440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	8151A	451969
LB 400-451969/1-G	Method Blank	TCLP	Solid	8151A	451969
LCS 400-452440/2-A	Lab Control Sample	Total/NA	Solid	8151A	
400-174457-1 MS	20190808-WW1DW1	TCLP	Solid	8151A	451969
400-174457-1 MSD	20190808-WW1DW1	TCLP	Solid	8151A	451969

Analysis Batch: 452475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	8081B	452299
LB 400-451969/1-D	Method Blank	TCLP	Solid	8081B	452299
LCS 400-452299/2-A	Lab Control Sample	Total/NA	Solid	8081B	452299
LCSD 400-452299/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	452299

Analysis Batch: 452837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	8151A	452440
LB 400-451969/1-G	Method Blank	TCLP	Solid	8151A	452440
LCS 400-452440/2-A	Lab Control Sample	Total/NA	Solid	8151A	452440
400-174457-1 MS	20190808-WW1DW1	TCLP	Solid	8151A	452440
400-174457-1 MSD	20190808-WW1DW1	TCLP	Solid	8151A	452440

Metals

Leach Batch: 214573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	1311	
LB 660-214573/1-B	Method Blank	TCLP	Solid	1311	
400-174457-1 MS	20190808-WW1DW1	TCLP	Solid	1311	
400-174457-1 MSD	20190808-WW1DW1	TCLP	Solid	1311	

Prep Batch: 214575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	3010A	214573
LB 660-214573/1-B	Method Blank	TCLP	Solid	3010A	214573
LCS 660-214575/2-A	Lab Control Sample	Total/NA	Solid	3010A	
400-174457-1 MS	20190808-WW1DW1	TCLP	Solid	3010A	214573

Metals (Continued)

Prep Batch: 214575 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1 MSD	20190808-WW1DW1	TCLP	Solid	3010A	214573

Analysis Batch: 214583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	6010D	214575
LB 660-214573/1-B	Method Blank	TCLP	Solid	6010D	214575
LCS 660-214575/2-A	Lab Control Sample	Total/NA	Solid	6010D	214575
400-174457-1 MS	20190808-WW1DW1	TCLP	Solid	6010D	214575
400-174457-1 MSD	20190808-WW1DW1	TCLP	Solid	6010D	214575

Leach Batch: 451969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	1311	
LB 400-451969/1-C	Method Blank	TCLP	Solid	1311	
400-174160-A-1-F MS	Matrix Spike	TCLP	Solid	1311	
400-174160-A-1-G MSD	Matrix Spike Duplicate	TCLP	Solid	1311	

Prep Batch: 452250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	7470A	451969
LB 400-451969/1-C	Method Blank	TCLP	Solid	7470A	451969
LCS 400-452250/14-A	Lab Control Sample	Total/NA	Solid	7470A	
400-174160-A-1-F MS	Matrix Spike	TCLP	Solid	7470A	451969
400-174160-A-1-G MSD	Matrix Spike Duplicate	TCLP	Solid	7470A	451969

Analysis Batch: 452504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	TCLP	Solid	7470A	452250
LB 400-451969/1-C	Method Blank	TCLP	Solid	7470A	452250
LCS 400-452250/14-A	Lab Control Sample	Total/NA	Solid	7470A	452250
400-174160-A-1-F MS	Matrix Spike	TCLP	Solid	7470A	452250
400-174160-A-1-G MSD	Matrix Spike Duplicate	TCLP	Solid	7470A	452250

General Chemistry

Analysis Batch: 451978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	Soluble	Solid	9045D	451983
LCS 400-451978/4	Lab Control Sample	Total/NA	Solid	9045D	
400-173466-D-22 DU	Duplicate	Soluble	Solid	9045D	

Leach Batch: 451983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	Soluble	Solid	DI Leach	

Analysis Batch: 452628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-174457-1	20190808-WW1DW1	Total/NA	Solid	1010A	
MB 400-452628/1	Method Blank	Total/NA	Solid	1010A	
400-174575-A-1 DU	Duplicate	Total/NA	Solid	1010A	

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

Client Sample ID: 20190808-WW1DW1

Date Collected: 08/08/19 13:00
Date Received: 08/08/19 16:53

Lab Sample ID: 400-174457-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			451969	08/12/19 11:36	SLB	TAL PEN
TCLP	Prep	3520C			452299	08/13/19 18:46	BNL	TAL PEN
TCLP	Analysis	8081B		1	452475	08/15/19 03:14	S1S	TAL PEN
TCLP	Leach	1311			451969	08/12/19 11:36	SLB	TAL PEN
TCLP	Prep	8151A			452440	08/14/19 15:48	BAW	TAL PEN
TCLP	Analysis	8151A		1	452837	08/17/19 01:02	DS	TAL PEN
TCLP	Leach	1311			214573	08/19/19 16:00	GAF	TAL TAM
TCLP	Prep	3010A			214575	08/20/19 08:58	GAF	TAL TAM
TCLP	Analysis	6010D		1	214583	08/20/19 14:01	GAF	TAL TAM
TCLP	Leach	1311			451969	08/12/19 11:36	SLB	TAL PEN
TCLP	Prep	7470A			452250	08/13/19 16:10	JAP	TAL PEN
TCLP	Analysis	7470A		1	452504	08/14/19 17:28	JAP	TAL PEN
Total/NA	Analysis	1010A		1	452628	08/14/19 15:25	HES	TAL PEN
Soluble	Analysis	9045D		1	451978	08/12/19 12:06	HES	TAL PEN
Soluble	Leach	DI Leach			451983	08/12/19 12:36	HES	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL TAM = Eurofins TestAmerica, Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc.
Job ID: 400-174457-1
Project/Site: Wedgewood Well Install

Laboratory: Eurofins TestAmerica, Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E81010	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9045D		Solid	Temperature

Laboratory: Eurofins TestAmerica, Tampa

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E84282	06-30-20
Florida	NELAP	E84282	07-30-20
Georgia	State Program	905	06-30-20
USDA	Federal	P525-170731-001	09-25-20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Wedgewood Well Install

Job ID: 400-174457-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	TAL PEN
8151A	Herbicides (GC)	SW846	TAL PEN
6010D	Metals (ICP)	SW846	TAL TAM
7470A	Mercury (CVAA)	SW846	TAL PEN
1010A	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL PEN
9045D	pH	SW846	TAL PEN
1311	TCLP Extraction	SW846	TAL PEN
1311	TCLP Extraction	SW846	TAL TAM
3010A	Preparation, Total Metals	SW846	TAL TAM
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN
8151A	Extraction (Herbicides)	SW846	TAL PEN
DI Leach	Deionized Water Leaching Procedure	ASTM	TAL PEN

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL TAM = Eurofins TestAmerica, Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: Mollie Taylor	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-86246-32259.1
Client Contact: ~~Crystal Towns~~ Mollie Taylor	Phone: 843 422 4966	E-Mail: mark.swafford@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: 1120 N. 12th Avenue	Due Date Requested:			
City: Pensacola	TAT Requested (days): Standard			
State, Zip: FL, 32501				
Phone:	PO #: Purchase Order not required			
Email: ctowns@geosyntec.com	WO #:			
Project Name: Wedgewood Well Install	Project #: 40003096			
Site:	SSOW#:			

Analysis Requested

400-174457 COC

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A - TCLP Mercury	1010A, 9045D	8081B, 8151A	6010D - RCRA Metals TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N		
20190808 - WW 1DW 1	8/8/19	1300	C	Solid			1	1	1	1		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Mollie T	8/8/2019 1653	Geosyntec	Kathy R Avery	8-8-19 1653	TA-PCJ
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks
		10.7°C IR7

Ver: 01/16/2019

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Swafford, Mark H	Carrier Tracking No(s):	COC No: 400-218029.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: mark.swafford@testamericainc.com	State of Origin: Florida	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Florida		Job #: 400-174457-1
Address: 6712 Benjamin Road, Suite 100,	Due Date Requested: 8/21/2019			
City: Tampa	TAT Requested (days):			
State, Zip: FL, 33634				
Phone: 813-885-7427(Tel) 813-885-7049(Fax)	PO #:			
Email:	WO #:			
Project Name: Wedgewood Well Install	Project #: 40003096			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D/1311T_M RCRA Metals TCLP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
20190808-WW1DW1 (400-174457-1)	8/8/19	13:00 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Kathy R Avery	8-9-19 1600	TA PEN	[signature]	8-10-19 1200	TA TAM
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
☒ Yes ☐ No		4.2/4.2 CO-09

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-174457-1

Login Number: 174457
List Number: 1
Creator: Hinrichsen, Megan E

List Source: Eurofins TestAmerica, Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	10.7°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 400-174457-1

Login Number: 174457
List Number: 2
Creator: Redding, Charles S

List Source: Eurofins TestAmerica, Tampa
List Creation: 08/10/19 12:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix 9

Groundwater Monitoring

Field Documentation

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rollin Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID:	DATE: 1-29-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 40.53	PURGE PUMP TYPE: ESP
FIELD METER ID: Aquatroll	TURBIDITY METER ID: 1734	PUMP ID: 59874		CONTROLLER ID: 59875

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ - STATIC WATER LEVEL)

NAVD88 = 114.22 feet~~NGVD~~ NAVD88 49.53 ft/BTOC= 73.69 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 40.53 feet) X .16 gallons/foot = 3.62 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.73	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.73	PURGING INITIATED AT: 1112	PURGING ENDED AT: 1132	TOTAL VOLUME PURGED (gallons): 13.66

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☒	DISSOLVED OXYGEN (circle units) mg/L or ☒ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1112			.86									
1126	12.04	12.04	.27	41.54	4.82	21.89	59.70	4.73	1.05	308.1	No	N
1129	.81	12.85	.27	41.48	4.81	21.95	60.28	4.61	0.61	313.1	No	N
1132	.81	13.66	.27	41.44	4.81	21.97	60.23	4.55	1.64	312.5	No	N
					4.96	22.70	63.9	4.40				

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ESC WQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1132	SAMPLING ENDED AT: 1137
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☒Y ☐N Filtration Equipment Type:	FILTER SIZE: .45 µm
FIELD DECONTAMINATION: PUMP ☐Y ☐N	METHOD:	LOCATION:	DATE/TIME: TUBING ☐Y ☒N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC-MW9											
EC-MW9											
EC											

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID:	DATE: 1-29-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 42.25	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID: 1734	PUMP ID: 64533		CONTROLLER ID: 59875

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ - STATIC WATER LEVEL)

TOC NAVD88 = 113.20 ~~NAVD88~~ feet ~~NGVD~~ NAVD88 - 42.25 ft/BTOC = 70.95 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (64.69 feet − 42.25 feet) X .16 gallons/foot = 3.59 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 62.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 62.2	PURGING INITIATED AT: 1224	PURGING ENDED AT: 1243	TOTAL VOLUME PURGED (gallons): 14.97

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			1.13									
1233	10.17		.40									
1237	1.6	11.77	.40	42.50	4.90	22.31	36.06	8.86	.31	290.1	None	N
1240	1.6	13.37	.40	42.50	4.92	22.46	34.87	8.83	.73	298.8	None	N
1243	1.6	14.97	.40	42.50	4.90	22.49	35.27	8.83	.53	304.3	None	N
					5.06	23.64	35.7	8.77				
					5.06	23.68	35.7	8.88				

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ESC WQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1243	SAMPLING ENDED AT: 1248
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☒N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☐Y ☐N	METHOD:	LOCATION:	DATE/TIME:	TUBING ☐Y ☐N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID:	DATE: 2-12-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 40.65	PURGE PUMP TYPE: ESP
FIELD METER ID: Smartroll	TURBIDITY METER ID: 1734	PUMP ID: 64519		CONTROLLER ID: 59875

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ - STATIC WATER LEVEL)
NAVD88 = 114.22 NAVD88 NAVD88 40.65 ft/BTOC= 73.57 STATIC WATER LEVEL ~~NGVD~~ NAVD88
feet/~~NGVD~~

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.16 feet – 40.65 feet) X .16 gallons/foot = 3.60 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1009	PURGING ENDED AT: 1048	TOTAL VOLUME PURGED (gallons): 21.52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1022	3.64	3.64	.28	41.77	4.95	22.70	63.5	4.40	50.6	509.4	No	N
~~1025~~	~~.84~~	~~4.48~~	~~.28~~									
	.84											
1028	1.68	5.32	.81									
1042	11.34	16.66	.81	43.45	4.96	22.57	63.1	4.46	3.58	630.9	~~558~~ N	N
1045	2.43	19.09	.81	43.44	4.96	22.57	63.2	4.46	2.50	625.0	N	N
1048	2.43	21.52	.81	43.44	4.96	22.55	63.0	4.46	1.99	626.0	N	N

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Esc Wkrs	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1048	SAMPLING ENDED AT: 1053
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☒N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☐Y ☐N	METHOD:	LOCATION:	DATE/TIME: TUBING ☐Y ☐N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID:	DATE: 2-12-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 42.40	PURGE PUMP TYPE: ESP
FIELD METER ID: Smartroll	TURBIDITY METER ID: 1734	PUMP ID: 64519		CONTROLLER ID: 59875

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

~~NM~~ NAVD88 = 113.29 NAVD88 feet~~/NGVD~~ – ~~NAVD88~~ 42.40 ft/BTOC= 70.89 STATIC WATER LEVEL ~~NGVD~~ ~~NAVD88~~

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 42.40 feet) X .16 gallons/foot = 3.56 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1133	PURGING ENDED AT: 1151	TOTAL VOLUME PURGED (gallons): 5.58

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
~~1145~~			.32									
1138	1.55	1.55	.31									
1145	2.17	3.72	.31	42.59	5.06	23.68	35.6	8.86	1.32	517.4	N	N
1148	.93	4.65	.31	42.59	5.06	23.60	35.6	8.87	1.69	520.8	N	N
1151	.93	5.58	.31	42.59	5.06	23.61	35.6	8.85	0.83	514.9	N	N

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: ESC WALM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1151	SAMPLING ENDED AT: 1156
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☒N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☒Y ☐N METHOD: Manufacturer LOCATION: LOC DATE/TIME: 1-29-20 1730 TUBING ☐Y ☒N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER				

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID:	DATE: 3.19.2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 40.77	PURGE PUMP TYPE OR BAILER: ESP
FIELD METER ID: ~~Smith 11~~	TURBIDITY METER ID: 17349	PUMP ID: 64519		CONTROLLER ID: 59875

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION NGVD ~~STATIC~~ WATER LEVEL)

~~MW~~ ~~NAVD88~~ ~~114.22~~ ~~NAVD88~~ ~~63.16~~ feet/~~NGVD~~ - ~~NAVD88~~ 40.77 ft/BTOC= ~~63.16~~ 73.45 STATIC WATER LEVEL ~~NGVD~~ ~~NAVD88~~

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

~~63.16~~ (63.16 feet – 40.77 feet) X 0.16 gallons/foot = 3.58 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57.16	PURGING INITIATED AT: 1115	PURGING ENDED AT: 1142	TOTAL VOLUME PURGED (gallons): 14.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or ~~µS/cm~~	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe- e.g. "red" or "brown" NOT "clear or "cloudy)	SHEEN (Y/N)
1115			0.59									
1123		4.72		42.68					17.2			
1130	2.95	7.67	.59	42.60	4.88	23.07	69.2	4.48	2.24	458.5	N	N
1133	1.77	9.44	.59	42.58	4.88	22.17	69.4	4.51	0.95	459.6	N	N
1136	1.77	11.21	.59	42.52	4.88	22.75	69.3	4.52	0.63	477.0	N	N
1139	1.77	12.98	.59	42.55	4.88	22.75	69.2	4.52	0.96	484.0	N	N
1142	1.77	14.75	.59	42.52	4.88	22.75	69.1	4.55	0.94	504.2	N	N

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: P. Morton / ESCWQM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1142	SAMPLING ENDED AT: 1152
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP: Y N TUBING: Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED ? (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	SODIUM HYDROXIDE ZINC ACETATE	Y	1000		4500	ESP	N	233.15
	1	PE	250	NONE		250		300.0	ESP	N	233.15
	1	PE	250	SULFURIC ACID	Y	250	<2	350.1	ESP	N	233.15
	1	PE	250	NITRIC ACID	Y	250	<2	7470	ESP	N	233.15
	1	PE	250	NONE		250		2540C/353.2	ESP	N	2233
	1	PE	250	NITRIC ACID	Y	250	<2	6010	ESP	N	2233
REMARKS:	1	PE	250	SULFURIC ACID	Y	250	<2	353.2	ESP	N	2233
	3	CG	40	HYDROCHLORIC ACID	Y	40		8260	ESP	N	100

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: Rolling Hills
WELL NO: MW-10	SAMPLE ID:	DATE: 3-19-2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 42.59	PURGE PUMP TYPE OR BAILER: ESP
FIELD METER ID: SM-T-01	TURBIDITY METER ID: 1734	PUMP ID: 59874		CONTROLLER ID: 59875

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ - STATIC WATER LEVEL)

TM NAVD88 = 113.29 feet ~~NGVD~~ NAVD88 42.59 ft/BTOC= 70.61 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet - 42.59 feet) X .16 gallons/foot = 3.59 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 60.69	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 60.69	PURGING INITIATED AT: 0955	PURGING ENDED AT: 1030	TOTAL VOLUME PURGED (gallons): 17.42

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe- e.g. "red" or "brown" NOT "clear or "cloudy)	SHEEN (Y/N)
1010	7.35	7.35	.99	42.89	4.95	23.38	36.3	9.05	5.29	429.9	None	N
1015	2.45	9.8	.99	42.88	4.94	23.42	36.2	9.02	1.23	433.2	None	N
1018	1.47	11.27	.99	42.88	4.95	23.41	36.3	9.05	1.25	424.2	N	N
1021	1.47	12.74	.99	42.88	4.96	23.39	36.3	9.05	1.05	429.5	N	N
1024	1.47	14.48	.99	42.88	4.96	23.40	36.3	9.02	2.49	388.0	N	N
1027	1.47	15.95	.99	42.88	4.96	23.47	36.2	9.03	1.31	404.5	N	N
1030	1.47	17.42	.99	42.88	4.99	23.45	36.2	9.03	0.90	407.2	N	N

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: D. Morton / ESC WQLM	SAMPLER(S) SIGNATURE(S): DMorton T. Melony	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1040
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP: Y N TUBING: Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED ? (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
	1	PE	1000	SODIUM HYDROXIDE ZINC ACETATE	Y	1000		4500	ESP	N	1855
	1	PE	250	NONE		250		300.0	ESP	N	1855
	1	PE	250	SULFURIC ACID	Y	250	<2	350.1	ESP	N	1855
	1	PE	250	NITRIC ACID	Y	250	<2	7470	ESP	N	1855
	1	PE	250	NONE		250		2540C/353.2	ESP	N	1855
	1	PE	250	NITRIC ACID	Y	250	<2	6010	ESP	N	1855
REMARKS:	1	PE	250	SULFURIC ACID	Y	250	<2	353.2	ESP	N	1855
	3	CG	40	HYDROCHLORIC ACID	Y	40		8260	ESP	N	100

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 4-28-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 40.92	PURGE PUMP TYPE: ESP
FIELD METER ID: Smartroll	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 NAVD88 feet/~~NGVD~~ – 40.92 ft/BTOC= 73.3 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 40.92 feet) X 0.16 gallons/foot = 3.56 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44.40	PURGING INITIATED AT: 1105	PURGING ENDED AT: 1133	TOTAL VOLUME PURGED (gallons): 15.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1127	12.54	12.54	.57	42.86	4.89	22.79	64.6	4.49	0.24	698.6	NA	No
1130	1.71	14.25	.57	42.83	4.88	22.78	64.4	4.49	0.10	723.0	NA	No
1133	1.71	15.96	.57	42.83	4.89	22.75	64.0	4.54	0.02	743.8	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1133	SAMPLING ENDED AT: 1138
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 4-8-20 810 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER				
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HCL	Yes	NA	NA	7470	ESP	No	2140
MW9	1	PE	1000	Ice	No	NA	NA	300.0	ESP	No	2140
MW9	1	PE	250	HNO3	Yes	<2	NA	350.1	ESP	No	2140
MW9	1	PE	1000	NAOH	Yes	NA	NA	4500S2F/4500S2H	ESP	No	2140
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	2140

REMARKS: 250ML TDS/NO2, 500ml NOx < 2. Tubing insufficient length to reach screen.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID:
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 4-28-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 NAVD88

.....=.....feet~~/NGVD~~ –.....ft/BTOC=.....STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1215												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1215	SAMPLING ENDED AT: 1220
WELL CASING COMPOSITION:	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD:	LOCATION:	DATE/TIME:	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HCL	Yes	NA	NA	7470	ESP	No	2140
MW9	1	PE	1000	Ice	No	NA	NA	300.0	ESP	No	2140
MW9	1	PE	250	HNO3	Yes	<2	NA	350.1	ESP	No	2140
MW9	1	PE	1000	NAOH	Yes	NA	NA	4500S2F/4500S2H	ESP	No	2140
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	2140

REMARKS: 250ML TDS/NO2, 500ml NOx < 2.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 4-28-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 42.92	PURGE PUMP TYPE: ESP
FIELD METER ID: Smartroll	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level (~~NGVD~~) = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 NAVD88 42.92 feet/~~NGVD~~ ft/BTOC= 70.28 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 42.92 feet) X 0.16 gallons/foot = 3.48 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 46.40	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 46.40	PURGING INITIATED AT: 1249	PURGING ENDED AT: 1307	TOTAL VOLUME PURGED (gallons): 10.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1301	7.2	7.2	.60	43.29	5.05	23.46	36.1	9.00	0.31	694.1	NA	No
1304	1.8	9.0	.60	43.29	5.06	23.44	36.0	9.00	0.13	669.0	NA	No
1307	1.8	10.8	.60	43.29	5.04	23.43	36.1	9.01	0.16	634.5	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1307	SAMPLING ENDED AT: 1312
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: MW-9	DATE/TIME: 4-28-20 1200 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HCL	Yes	NA	NA	7470	ESP	No	2280
MW10	1	PE	1000	ICE	No	NA	NA	300.0	ESP	No	2280
MW10	1	PE	250	HNO3	Yes	<2	NA	350.1	ESP	No	2280
MW10	1	PE	1000	NAOH	Yes	NA	NA	4500S2F/4500S2H	ESP	No	2280
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	2280

REMARKS: 250ML TDS/NO2, 500ml NOx < 2. Tubing insufficient length to reach screen, Reused tubing from MW9.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 5-19-2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 41.12	PURGE PUMP TYPE: ESP
FIELD METER ID: Aquatroll 532228	TURBIDITY METER ID: 5065	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 NAVD88 feet/~~NGVD~~ – 41.12 ft/BTOC= 73.1 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 41.12 feet) X 0.16 gallons/foot = 3.53 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1230	PURGING ENDED AT: 1251	TOTAL VOLUME PURGED (gallons): 9.66

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1245	6.90	6.90	0.46	42.68	4.74	22.89	62.24	4.57	1.01	251.5	NA	No
1248	1.38	8.28	0.46	42.68	4.74	22.89	60.89	4.55	0.53	258.1	NA	No
1251	1.38	9.66	0.46	42.68	4.74	22.87	59.33	4.51	0.52	263.4	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1251	SAMPLING ENDED AT: 1256
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 4-23-20 830 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HCL	Yes	NA	NA	7470	ESP	No	6600
MW9	1	PE	1000	Ice	No	NA	NA	300.0	ESP	No	6600
MW9	1	PE	250	HNO3	Yes	< 2	NA	350.1	ESP	No	6600
MW9	1	PE	1000	NAOH	Yes	NA	NA	4500S2F/4500S2H	ESP	No	6600
MW9	1	PE	250	HNO3	Yes	< 2	NA	Metals	ESP	No	6600

REMARKS: 250ML TDS/NO2, 500ml NOx <2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 5-19-2020

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 43.22	PURGE PUMP TYPE: ESP
FIELD METER ID: Aquatroll 532228	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level (NGVD) = (TOC ELEVATION NGVD - STATIC WATER LEVEL)

NAVD88 = 113.20 NAVD88 feet/NGVD - 43.22 ft/BTOC = 69.98 STATIC WATER LEVEL NGVD NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet - 43.22 feet) X 0.16 gallons/foot = 3.44 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1350	PURGING ENDED AT: 1406	TOTAL VOLUME PURGED (gallons): 13.76

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1400	8.60	8.60	0.86	43.59	4.30	23.66	33.75	8.61	0.39	256.4	NA	No
1403	2.58	11.18	0.86	43.59	4.35	23.67	33.99	8.54	0.39	264.8	NA	No
1406	2.58	13.76	0.86	43.59	4.41	23.68	34.31	8.53	0.40	267.2	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1406	SAMPLING ENDED AT: 1411
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: Manufacturer DATE/TIME: 4-8-2020 830 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HCL	Yes	NA	NA	7470	ESP	No	2400
MW10	1	PE	1000	ICE	No	NA	NA	300.0	ESP	No	2400
MW10	1	PE	250	HNO3	Yes	<2	NA	350.1	ESP	No	2400
MW10	1	PE	1000	NAOH	Yes	NA	NA	4500S2F/4500S2H	ESP	No	2400
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	2400

REMARKS: 250ML TDS/NO2, 500ml NOx <2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 6-16-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 41.54	PURGE PUMP TYPE: ESP
FIELD METER ID: Smartroll	TURBIDITY METER ID: 2490	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 ~~feet/NGVD~~ NAVD88 41.54 ft/BTOC= 72.68 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.16 feet – 41.54 feet) X 0.16 gallons/foot = 3.46 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1123	TOTAL VOLUME PURGED (gallons): 30.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			.55									
1115	27.5	27.5	.40									
1117	0.8	28.3	.40	43.06	4.84	22.93	63.2	4.52	0.96	361.2	NA	No
1120	1.2	29.5	.40	43.00	4.84	22.93	63.3	4.52	0.81	360.8	NA	No
1123	1.2	30.7	.40	42.97	4.84	22.97	63.2	4.53	0.89	362.0	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1123	SAMPLING ENDED AT: 1128
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 5-19-20 1730 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HCL	Yes	< 2	NA	7470	ESP	No	1520
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	1520
MW9	1	PE	250	H2SO4	Yes	< 2	NA	350.1	ESP	No	1520
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	1520
MW9	1	PE	250	HNO3	Yes	< 2	NA	Metals	ESP	No	1520

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey turbidity at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 6-16-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 43.57	PURGE PUMP TYPE: ESP
FIELD METER ID: Smartroll	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: New

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 feet/~~NGVD~~ – NAVD88 43.57 ft/BTOC= 69.63 STATIC WATER LEVEL ~~NGVD~~ NAVD 88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 43.57 feet) X 0.16 gallons/foot = 3.38 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1200	PURGING ENDED AT: 1217	TOTAL VOLUME PURGED (gallons): 12.07

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1211	7.81	7.81	.71	43.99	4.99	23.55	35.5	8,92	0.21	385.3	NA	No
1214	2.13	9.94	.71	43.99	4.99	23.52	35.6	8.96	0.17	380.6	NA	No
1217	2.13	12.07	.71	43.99	4.98	23.51	35.6	8.92	0.12	362.6	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1217	SAMPLING ENDED AT: 1222
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 5-19-20 1730 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	2700
MW10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	2700
MW10	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	2700
MW10	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	2700
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	2700

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey turbidity at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 7-15-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 41.92	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 59874		CONTROLLER ID: 04d0106

Static Water Level (NGVD) = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 NAVD88 feet/~~NGVD~~ – 41.92 ft/BTOC= 72.3 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 41.92 feet) X 0.16 gallons/foot = 3.40 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1101	PURGING ENDED AT: 1121	TOTAL VOLUME PURGED (gallons): 16.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1115	11.62	11.62	.83	44.76	4.48	22,62	62.95	4.52	0.84	306.8	NA	No
1118	2.49	14.11	0.83	44.76	4.47	22.62	62.88	4.51	0.76	318.7	NA	No
1121	2.49	16.6	0.83	44.81	4.50	22.62	62.76	4.52	0.90	322.1	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1121	SAMPLING ENDED AT: 1126
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 6-17-20 1200 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	3150
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	3150
MW9	1	PE	250	H2S04	Yes	<2	NA	350.1	ESP	No	3150
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	3150
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	3150

REMARKS: 250ML TDS/NO2, 500ml NOx <2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID:
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 7-15-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 64519		CONTROLLER ID: 04d0106

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ = STATIC WATER LEVEL)

NAVD88 = NAVD88 feet/~~NGVD~~ ft/BTOC= STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1150												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1150	SAMPLING ENDED AT: 1155
WELL CASING COMPOSITION:	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 6-17-20 1230 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HCL	Yes	<2	NA	7470	ESP	No	2140
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	2140
MW9	1	PE	250	HNO3	Yes	<2	NA	350.1	ESP	No	2140
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	2140
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	2140

REMARKS: 250ML TDS/NO2, 500ml NOx < 2.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 7-15-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 43.92	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 04d0106

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 ~~feet/NGVD~~ NAVD88 43.92 ft/BTOC= 69.28 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (64.69 feet – 43.92 feet) X 0.16 gallons/foot = 3.32 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1224	PURGING ENDED AT: 1240	TOTAL VOLUME PURGED (gallons): 14.42

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1234	10.3	10.3	1.03	44.48	4.55	23.27	34.78	8.84	0.25	317.4	NA	No
1237	3.09	13.39	1.03	44.48	4.59	23.27	34.69	8.86	0.30	336.3	NA	No
1240	3.09	14.42	1.03	44.48	4.57	23.28	34.61	8.87	0.12	350.2	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1245
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 6-17-20 1230 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HCL	Yes	<2	NA	7470	ESP	No	3900
MW10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	3900
MW10	1	PE	250	HNO3	Yes	<2	NA	350.1	ESP	No	3900
MW10	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	3900
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	3900

REMARKS: 250ML TDS/NO2, 500ml NOx <2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 8-12-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 41.80	PURGE PUMP TYPE: ESP
FIELD METER ID: AQT 600 537460	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level (~~NGVD~~) = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 feet/~~NGVD~~ - NAVD88 41.80 ft/BTOC= 72.42 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 41.80 feet) X 0.16 gallons/foot = 3.42 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1021	PURGING ENDED AT: 1038	TOTAL VOLUME PURGED (gallons): 16.49

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1032	10.67	10.67	0.97	44.88	4.58	22.68	63.17	4.35	1.98	293.3	NA	No
1035	2.91	13.58	0.97	44.89	4.57	22.67	63.02	4.37	1.35	304.9	NA	No
1038	2.91	16.49	0.97	44.90	4.58	22.67	62.77	4.38	1.37	310.9	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1038	SAMPLING ENDED AT: 1043
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 8-5-20 1400 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	3660
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	3660
MW9	1	PE	250	H2SO4	Yes	< 2	NA	350.1	ESP	No	3660
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	3660
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	3660

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey Cloudiness at start

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 8-12-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 43.75	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD) =~~ (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 feet/~~NGVD~~ NAVD88 43.75 ft/BTOC= 69.45 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 43.75 feet) X 0.16 gallons/foot = 3.35 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1113	PURGING ENDED AT: 1127	TOTAL VOLUME PURGED (gallons): 15.54

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1121	8.88	8.88	1.11	44.36	4.53	23.44	34.76	8.61	1.03	342.2	NA	No
1124	3.33	12.21	1.11	44.36	4.55	23.41	34.80	8.62	0.89	353.3	NA	No
1127	3.33	15.54	1.11	44.36	4.59	23.40	34.80	8.63	0.84	358.4	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1127	SAMPLING ENDED AT: 1132
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 8-5-20 1730 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	4200
MW10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	4200
MW10	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	4200
MW10	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	4200
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	4200

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey Cloudiness at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 11-19-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 35.98	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

~~NAVD88~~ = 114.22 ~~NAVD88~~ feet/~~NGVD~~ - 35.98 ft/BTOC= 78.24 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 35.98 feet) X 0.16 gallons/foot = 4.35 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1041	TOTAL VOLUME PURGED (gallons): 27.04

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			1.04									
1035	20.8	20.8	1.04	38.91	4.69	22.58	60.87	4.07	0.63	323.8	NA	No
1038	3.12	23.92	1.04	38.90	4.75	22.58	60.91	4.05	0.62	331.4	NA	No
1041	3.12	27.04	1.04	38.90	4.76	22.58	60.81	4.06	0.62	337.1	NA	No

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1041	SAMPLING ENDED AT: 1046
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 10-29-20 1700 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	3940
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	3940
MW9	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	3940
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	3940
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	3940

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey turbidity at start.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 11-19-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 59874		CONTROLLER ID: 04d0106

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = feet ~~NGVD~~ – NAVD88 ft/BTOC= STATIC WATER LEVEL ~~NGVD~~ – NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1110												

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1115
WELL CASING COMPOSITION:	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 10-29-20 1730 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	1000
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	1000
MW9	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	1000
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	1000
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	1000

REMARKS: 250ML TDS/NO2, 250ml NOx < 2.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 11-19-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 38.82	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 59874		CONTROLLER ID: 04d0106

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 feet/~~NGVD~~ NAVD88 38.82 ft/BTOC= 74.38 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (64.69 feet – 38.82 feet) X 0.16 gallons/foot = 4.14 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1139	PURGING ENDED AT: 1158	TOTAL VOLUME PURGED (gallons): 24.13

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			1.27									
1152	16.51	16.51	1.27	39.50	4.87	23.44	32.58	8.49	1.19	210.3	NA	No
1155	3.81	20.32	1.27	39.50	4.79	23.40	32.56	8.50	1.00	223.3	NA	No
1158	3.81	24.13	1.27	39.51	4.80	23.38	32.60	8.52	1.00	246.6	NA	No

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1158	SAMPLING ENDED AT: 1203
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☑Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 10-29-20 1730

TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	4800
MW10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	4800
MW10	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	4800
MW10	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	4800
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	4800

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey Turbidity at start.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 12-21-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 36.93	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level (~~NGVD~~) = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 NAVD88 feet/~~NGVD~~ – 36.93 ft/BTOC= 77.29 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 36.93 feet) X 0.16 gallons/foot = 4.20 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1012	PURGING ENDED AT: 1032	TOTAL VOLUME PURGED (gallons): 21

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1026	14.7	14.7	1.05	40.15	4.46	22.61	60.37	3.65	3.04	207.7	NA	No
1029	3.15	17.85	1.05	40.16	4.43	22.59	60.39	3.66	2.46	210.2	NA	No
1032	3.15	21.0	1.05	40.20	4.35	22.59	60.40	3.66	1.94	219.9	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1032	SAMPLING ENDED AT: 1037
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 12-1-20 1015 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	3960
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	3960
MW9	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	3960
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	3960
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	3960

REMARKS: 250ML TDS/NO2, 250ml NOx <2. Grey Turbidity at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 12-21-20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 39.49	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 NAVD88 feet/~~NGVD~~ – 39.49 ft/BTOC= 73.71 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 39.49 feet) X 0.16 gallons/foot = 4.03 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1104	PURGING ENDED AT: 1125	TOTAL VOLUME PURGED (gallons): 15.33

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☑ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1119	10.95	10.95	.73	39.90	4.53	23.11	33.27	8.34	1.68	274.0	NA	No
1122	2.19	13.14	.73	39.90	4.51	23.11	33.31	8.34	0.98	283.1	NA	No
1125	2.19	15.33	.73	39.90	4.47	23.12	33.29	8.33	0.78	290.6	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1130
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 12-1-20 1000 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	2760
MW10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	2760
MW10	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	2760
MW10	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	2760
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	2760

REMARKS: 250ML TDS/NO2, 250ml NOx <2. Grey Turbidity at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 1-14-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 37.6	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level (~~NGVD~~) = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

JM NAVD88 = 114.22 feet~~/NGVD~~ – NAVD88 37.6 ft/BTOC= 76.62 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.16 feet – 37.6 feet) X 0.16 gallons/foot = 4.09 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1033	PURGING ENDED AT: 1050	TOTAL VOLUME PURGED (gallons): 16.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1044	10.45	10.45	.95	40.35	4.65	22.51	60.16	3.65	0.8	195.3	NA	No
1047	2.85	13.3	.95	40.33	4.62	22.49	60.11	3.67	0.9	203.6	NA	No
1050	2.85	16.15	.95	40.32	4.61	22.49	60.15	3.67	0.85	208.0	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1050	SAMPLING ENDED AT: 1055
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 1-14-21 930 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	3600
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	3600
MW9	1	PE	250	H2SO4	Yes	< 2	NA	350.1	ESP	No	3600
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	3600
MW9	1	PE	250	HNO3	Yes	< 2	NA	Metals	ESP	No	3600

REMARKS: 250ML TDS/NO2, 250ml NOx.Slight grey at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 01/14/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 59874		CONTROLLER ID:

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

KM NAVD88 = NAVD88 feet/~~NGVD~~ ft/BTOC= STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
11:15												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Cummins, T. Maloney, K. Price / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:15	SAMPLING ENDED AT: 11:20
WELL CASING COMPOSITION:	TUBING MATERIAL CODE:	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer LOCATION:	DATE/TIME:	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EQ BLANK	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
EQ BLANK	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	1000
EQ BLANK	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	1000
EQ BLANK	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	1000
EQ BLANK	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	1000
EQ BLANK	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	10001-

REMARKS: 250ML TDS/NO2, 250ml NOx. Slight grey at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 1-14-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 39.95	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION NGVD – STATIC WATER LEVEL)

NAVD88 = 113.20 NAVD88 feet/~~NGVD~~ – 39.95 ft/BTOC= 73.25 STATIC WATER LEVEL NGVD NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 39.95 feet) X 0.16 gallons/foot = 3.96 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1143	PURGING ENDED AT: 1207	TOTAL VOLUME PURGED (gallons): 18.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1201	14.22	14.22	.79	40.40	4.17	23.23	32.19	8.13	2.11	286.5	NA	No
1204	2.37	16.59	.79	40.41	4.14	23.22	32.17	8.12	2.11	288.6	NA	No
1207	2.37	18.96	.79	40.41	4.12	23.27	32.14	8.12	2.04	289.4	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1207	SAMPLING ENDED AT: 1212
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer LOCATION: COC	DATE/TIME: 1-14-21 945	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	CG	250	HNO3	Yes	<2	NA	7470	ESP	No	3000
MW10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	3000
MW10	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	3000
MW10	1	PE	1000	NAOH	Yes	>10	NA	4500S2F/4500S2H	ESP	No	3000
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	3000

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey tint at start

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 2-25-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 38.65	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ − STATIC WATER LEVEL)

NAVD88 = 114.22 feet/~~NGVD~~ − NAVD88 38.65 ft/BTOC = 75.57 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.16 feet − 38.65 feet) X 0.16 gallons/foot = 3.92 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1026	PURGING ENDED AT: 1059	TOTAL VOLUME PURGED (gallons): 32.01

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			.97									
1040	13.58	13.58	.97	41.41	4.04	22.53	58.32	3.49	3.01	282.2	NA	No
1043	2.91	16.49	.97	41.41	4.16	22.55	58.21	3.50	2.90	282.9	NA	No
1046	2.91	19.4	.97	41.40	4.29	22.55	58.17	3.50	3.12	280.8	NA	No
1053	6.79	26.19	.97	41.39	4.52	22.56	58.23	3.52	2.96	278.3	NA	No
1056	2.91	29.1	.97	41.40	4.56	22.59	58.18	3.53	2.89	278.2	NA	No
1059	2.91	32.01	.97	41.38	4.61	22.60	58.06	3.54	2.90	278.7	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1059	SAMPLING ENDED AT: 1104
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 2-25-21 830	TUBING ☑Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW9	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	3670
MW9	1	PE	250	Ice	No	NA	NA	300.0	ESP	No	3670
MW9	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	3670
MW9	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	3670
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	3670

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey turbidity at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 2-25-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 40.73	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level (~~NGVD~~) = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 NAVD88 – 40.73 ft/BTOC = 72.47 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 40.73 feet) X 0.16 gallons/foot = 3.83 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1130	PURGING ENDED AT: 1147	TOTAL VOLUME PURGED (gallons): 11.39

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			.67									
1141	7.37	7.37	0.67	41.09	4.90	23.32	28.31	8.04	1.24	279.9	NA	No
1144	2.01	9.38	0.67	41.09	4.85	23.26	28.38	8.06	1.18	289.0	NA	No
1147	2.01	11.39	0.67	41.09	4.82	23.26	28.40	8.05	1.25	295.0	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1147	SAMPLING ENDED AT: 1152
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer LOCATION: COC	DATE/TIME: 2-25-21 845	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	3	CG	40	HCL	Yes	NA	NA	8260	ESP	No	100
MW10	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	2550
MW10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	2550
MW10	1	PE	250	H2S04	Yes	<2	NA	350.1	ESP	No	2550
MW10	1	PE	1000	NAOH	Yes	>10	NA	4500	ESP	No	2550
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	2550

REMARKS: 250ML TDS/NO2, 250ml NOx.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 3-24-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 38.66	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level (NGVD) = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 NAVD88 38.66 ft/~~NGVD~~ ft/BTOC= 75.56 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 38.66 feet) X 0.16 gallons/foot = 3.92 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1005	PURGING ENDED AT: 1022	TOTAL VOLUME PURGED (gallons): 12.07

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			.71									
1016	7.81	7.81	.71	40.80	4.56	22.45	58.56	3.29	1.38	220.6	NA	No
1019	2.13	9.94	.71	40.74	4.55	22.50	58.47	3.31	1.23	241.8	NA	No
1022	2.13	12.07	.71	40.72	4.56	22.50	58.39	3.32	1.26	252.9	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1022	SAMPLING ENDED AT: 1027
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 3-16-21 1730 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER				
MW9	2	CG	40	ICE	No	NA	NA	8260UP	ESP	No	100
MW9	1	PE	250	ICE	No	NA	NA	CL, SO4	ESP	No	2700
MW9	1	PE	250	NaOH	Yes	>10	NA	Sulfide, H2S	ESP	No	2700
MW9	1	PE	250	H2SO4	Yes	<2	NA	NH3	ESP	No	2700
MW9	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	2700
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	2700

REMARKS: 250ML TDS/NO2, 250ml NOx. Grey turbidity at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 3-24-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 41.04	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 NAVD88 feet/~~NGVD~~ - 41.04 ft/BTOC= 72.16 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 41.04 feet) X 0.16 gallons/foot = 3.78 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1058	PURGING ENDED AT: 1112	TOTAL VOLUME PURGED (gallons): 9.94

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			.71									
1106	5.68	5.68	.71	41.41	4.71	23.09	28.42	8.13	1.43	285.8	NA	No
1109	2.13	7.81	.71	41.37	4.72	23.13	28.39	8.11	1.38	299.5	NA	No
1112	2.13	9.94	.71	41.36	4.74	21.16	28.43	8.12	1.23	305.7	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1112	SAMPLING ENDED AT: 1117
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 3-16-21 1745 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	2	CG	40	ICE	No	NA	NA	8260UP	ESP	No	100
MW10	1	PE	250	ICE	No	NA	NA	CL, SO4	ESP	No	2700
MW10	1	PE	250	NaOH	Yes	>10	NA	Sulfide, H2S	ESP	No	2700
MW10	1	PE	250	H2SO4	Yes	<2	NA	NH3	ESP	No	2700
MW10	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	2700
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	2700

REMARKS: 250ML TDS/NO2, 250ml NOx.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 4-22-21

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 38.43	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 feet/~~NGVD~~ NAVD88 – 38.43 ft/BTOC = 75.79 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 38.43 feet) X 0.16 gallons/foot = 3.96 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 39.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 39.00	PURGING INITIATED AT: 1018	PURGING ENDED AT: 1037	TOTAL VOLUME PURGED (gallons): 10.83

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			0.57									
1031	7.41	7.41	.0.57	40.13	4.64	22.57	55.31	3.11	1.23	262.2	NA	No
1034	1.71	9.12	0.57	40.12	4.64	22.58	55.31	3.19	0.55	274.7	NA	No
1037	1.71	10.83	0.57	40.16	4.64	22.59	55.36	3.20	0.31	283.2	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1037	SAMPLING ENDED AT: 1042
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer LOCATION: COC	DATE/TIME: 3-24-21 1730	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	2	CG	40	ICE	No	NA	NA	8260UP	ESP	No	100
MW9	1	CG	250	H2SO4	Yes	<2	NA	NH3	ESP	No	2160
MW9	1	PE	250	Ice	No	NA	NA	CL, SO4	ESP	No	2160
MW9	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	2160
MW9	1	PE	250	NAOH	Yes	>10	NA	S, H2S	ESP	No	2160
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	2160

REMARKS: 250ML TDS/NO2, 250ml NOx.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 - Rolling Hills
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 04/22/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 NAVD88 NAVD88

.....=.....feet/~~NGVD~~=.....ft/BTOC=.....STATIC WATER LEVEL ~~NGVD~~

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
11:05												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R. Cummins, T. Maloney, K. Price / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 11:05	SAMPLING ENDED AT: 11:10
WELL CASING COMPOSITION:	TUBING MATERIAL CODE:	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer LOCATION:	DATE/TIME:	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EQ BLANK	2	CG	40	ICE	No	NA	NA	8260 UP	ESP	No	100
EQ BLANK	1	CG	250	H2SO4	Yes	<2	NA	NH3	ESP	No	1000
EQ BLANK	1	PE	250	ICE	No	NA	NA	CL, SO4	ESP	No	1000
EQ BLANK	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	1000
EQ BLANK	1	PE	250	NAOH	Yes	>10	NA	S, H2S	ESP	No	1000
EQ BLANK	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	1000

REMARKS: 250ML TDS/NO2, 250ml NOx.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 4/22/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 40.83	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 NAVD88 feet/~~NGVD~~ - 40.83 ft/BTOC= 72.37 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 40.83 feet) X 0.16 gallons/foot = 3.82 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40.93	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40.93	PURGING INITIATED AT: 11:32	PURGING ENDED AT: 12:03	TOTAL VOLUME PURGED (gallons): 9.99

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			0.29									
11:46	4.06	4.06	0.29	40.87	4.84	23.33	26.49	8.07	2.95	297.4	NA	No
11:49	0.87	4.93	0.29	40.87	4.82	23.45	26.65	8.06	2.32	289.3	NA	No
11:52	0.87	5.8	0.29	40.88	4.80	23.69	26.71	8.07	1.91	302.3	NA	No
11:57	1.45	7.25	0.29	40.89	4.80	23.61	26.65	8.05	1.37	319.2	NA	No
12:00	0.87	9.12	0.29	40.86	4.82	23.62	26.66	8.08	1.00	328.7	NA	No
12:03	0.87	9.99	0.29	40.88	4.81	23.55	26.83	8.13	0.99	324.1	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:03	SAMPLING ENDED AT: 12:08
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 3/24/2021 17:45 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	2	CG	40	ICE	No	NA	NA	8260UP	ESP	No	100
MW10	1	CG	250	H2SO4	Yes	<2	NA	NH3	ESP	No	1095
MW10	1	PE	250	ICE	No	NA	NA	CL, SO4	ESP	No	1095
MW10	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	1095
MW10	1	PE	250	NAOH	Yes	>10	NA	S, H2S	ESP	No	1095
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	1095

REMARKS: 250ML TDS/NO2, 250ml NOx.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 05/19/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 36.03	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 114.22 NAVD88 feet/~~NGVD~~ - 36.03 ft/BTOC= 78.19 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 36.03 feet) X 0.16 gallons/foot = 4.34 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 1033	PURGING ENDED AT: 1052	TOTAL VOLUME PURGED (gallons): 12.92

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			0.68									
1046	8.84	8.84	0.68	37.81	4.63	22.68	55.80	3.07	0.00	265.1	na	No
1049	2.04	10.88	0.68	37.65	4.63	22.71	55.73	3.10	0.00	270.3	na	No
1052	2.04	12.92	0.68	37.66	4.63	22.73	55.74	3.10	0.00	273.7	na	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1052	SAMPLING ENDED AT: 1057
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 4/22/2021 17:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW9	2	CG	40	ICE	No	NA	NA	8260UP	ESP	No	100
MW9	1	PF	250	H2S04	Yes	<2	NA	NH3	ESP	No	2580
MW9	1	PE	250	Ice	No	NA	NA	CL, SO4	ESP	No	2580
MW9	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	2580
MW9	1	PE	250	NAOH	Yes	>10	NA	S, H2S	ESP	No	2580
MW9	1	PE	250	HNO3	Yes	<2	NA	Metals	ESP	No	2580

REMARKS: 250ML TDS/NO2, 250ml NOx. Slight grey turbidity at start.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID:
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 05/19/2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 39.63	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 ~~feet/NGVD~~ – NAVD88 39.63 ft/BTOC= 73.57 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 39.63 feet) X 0.16 gallons/foot = 4.01 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1131	PURGING ENDED AT: 1153	TOTAL VOLUME PURGED (gallons): 6.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			0.28									
1147	4.48	4.48	0.28	39.78	4.73	23.60	27.85	8.17	0.00	286.8	na	No
1150	0.84	5.32	0.28	39.76	4.76	23.58	27.77	8.20	0.00	287.2	na	No
1153	0.84	6.16	0.28	39.75	4.77	23.60	27.76	8.20	0.00	287.5	na	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: R Cummins, T Molony / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1153	SAMPLING ENDED AT: 1158
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 4/22/21 1745 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW10	2	CG	40	ICE	No	NA	NA	8260UP	ESP	No	100
MW10	1	PF	250	H2S04	Yes	<2	NA	NH3	ESP	No	1050
MW10	1	PE	250	ICE	No	NA	NA	CL, SO4	ESP	No	1050
MW10	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	1050
MW10	1	PE	250	NAOH	Yes	>10	NA	S, H2S	ESP	No	1050
MW10	1	PE	250	HNO3	Yes	<2	NA	METALS	ESP	No	1050

REMARKS: 250ML TDS/NO2, 250ml NOx.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; T = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 Rolling Hills
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 6-23-2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 34.34	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ - STATIC WATER LEVEL)

NAVD88 = 114.22 feet/~~NGVD~~ - NAVD88 34.34 ft/BTOC = 79.88 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 34.34 feet) X 0.16 gallons/foot = 4.61 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.16	PURGING INITIATED AT: 10:39	PURGING ENDED AT: 11:03	TOTAL VOLUME PURGED (gallons): 11.97

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			0.63									
10:57	8.19	8.19	0.63	36.30	4.45	22.84	54.29	3.02	0.04	265.5	na	No
11:00	1.89	10.08	0.63	36.30	4.47	22.82	54.29	3.02	0.01	268.1	na	No
11:03	1.89	11.97	0.63	36.30	4.50	22.81	54.32	3.03	0.07	272.0	NA	No

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: / ESCWQLM K. Price, T. Meleney / ESCWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price	SAMPLING INITIATED AT: ~~10:57~~ 11:03 KP	SAMPLING ENDED AT: ~~11:03~~ KP 11:07
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 5-19-2021 17:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9	2	CG	40	ICE	No	NA	NA	8260B	ESP	No	100
MW-9	1	PE	250	HNO3	Yes	≤2	NA	7470A	ESP	No	385
MW-9	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	385
MW-9	1	PE	250	H2SO4	Yes	≤2	NA	350.1	ESP	No	385
MW-9	1	PE	250	NAOH	Yes	≥9	NA	4500S2E/4500NH3	ESP	No	385

REMARKS: 250 ml TDS/No2, 250ml No4, 250 ml 6010C

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 Rolling Hills
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 6-23-2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 36.67	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 feet/~~NGVD~~ – 36.67 ft/BTOC= 76.53 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (64.69 feet – 36.67 feet) X 0.16 gallons/foot = 4.48 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 12:04	PURGING ENDED AT: 12:32	TOTAL VOLUME PURGED (gallons): 12.88

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			0.46									
12:20	7.36	7.36	0.46	37.91	4.19	23.80	27.0	8.53	0.01	301.1	na	No
12:23	1.38	8.74	0.46	37.91	4.06	23.70	26.97	8.52	0.00	321.1	na	No
12:26	1.38	10.12	0.46	37.91	4.06	23.72	26.99	8.54	0.00	324.2	na	No
12:29	1.38	11.5	0.46	37.91	4.11	23.70	26.78	8.57	0.06	327.7	na	No
12:32	1.38	12.88	0.46	37.91	4.18	23.65	26.67	8.57	0.00	329.1	na	No

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Moloney / ESC ESCWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price	SAMPLING INITIATED AT: 12:32	SAMPLING ENDED AT: 12:40
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer's	LOCATION: COC	DATE/TIME: 5-19-2021 17:45 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	2	CG	40	ICE	No	Na	Na	8260 UP	ESP	No	~~4~~ 100
MW-10	1	PE	250	HNO3	Yes	≤2	Na	7470	ESP	No	741
MW-10	1	PE	250	ICE	No	Na	Na	300.0	ESP	No	741
MW-10	1	PE	250	H2SO4	Yes	≤2	Na	350.1	ESP	No	741
MW-10	1	PE	250	NAOH	Yes	≥9	Na	4500 S2F/4500 H2S	ESP	No	741

REMARKS: 250 ML TDS/NO2, 250 ml NOx, 250 ML 6010C

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 Rolling Hills
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 6-23-2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 36.67	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 5065	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level ~~(NGVD)~~ = (TOC ELEVATION ~~NGVD~~ – STATIC WATER LEVEL)

NAVD88 = 113.20 feet/~~NGVD~~ – 36.67 ft/BTOC= 76.53 STATIC WATER LEVEL ~~NGVD~~ NAVD88

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (64.69 feet – 36.67 feet) X 0.16 gallons/foot = 4.48 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 12:04	PURGING ENDED AT: 12:32	TOTAL VOLUME PURGED (gallons): 12.88

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
			0.46									
12:20	7.36	7.36	0.46	37.91	4.19	23.80	27.0	8.53	0.01	301.1	na	No
12:23	1.38	8.74	0.46	37.91	4.06	23.70	26.97	8.52	0.00	321.1	na	No
12:26	1.38	10.12	0.46	37.91	4.06	23.72	26.99	8.54	0.00	324.2	na	No
12:29	1.38	11.5	0.46	37.91	4.11	23.70	26.78	8.57	0.06	327.7	na	No
12:32	1.38	12.88	0.46	37.91	4.18	23.65	26.67	8.57	0.00	329.1	na	No

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Moloney / ESC ESCWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price	SAMPLING INITIATED AT: 12:32	SAMPLING ENDED AT: 12:40
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer's	LOCATION: COC	DATE/TIME: 5-19-2021 17:45 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	2	CG	40	ICE	No	Na	Na	8260 UP	ESP	No	~~4~~ 100
MW-10	1	PE	250	HNO3	Yes	≤2	Na	7470	ESP	No	741
MW-10	1	PE	250	ICE	No	Na	Na	300.0	ESP	No	741
MW-10	1	PE	250	H2SO4	Yes	≤2	Na	350.1	ESP	No	741
MW-10	1	PE	250	NAOH	Yes	≥9	Na	4500 S2F/4500 H2S	ESP	No	741

REMARKS: 250 ML TDS/NO2, 250 ml NOx, 250 ML 6010C

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES:
1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 07.15.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 33.45	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 5024	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 114.22 feet/NGVD - 33.45 ft/BTOC= 80.77 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.16 feet – 33.45 feet) X 0.16 gallons/foot = 4.75 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.66	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.66	PURGING INITIATED AT: 12:27	PURGING ENDED AT: 13:19	TOTAL VOLUME PURGED (gallons): 23.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
12:27			0.45									
13:13	20.7	20.7	0.45	34.78	4.37	22.95	54.43	3.00	0.10	319.1	NA	No
13:16	1.35	22.05	0.45	34.78	4.43	22.89	54.40	3.01	0.16	319.9	NA	No
13:19	1.35	23.4	0.45	34.78	4.48	22.88	54.31	3.02	0.11	321.2	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. MOLONY, N. WINN, P. STRAUGHN / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 13:19	SAMPLING ENDED AT: 13:24
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 07.15.21 / 9:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	ICE	No	NA	NA	Cl, SO4	ESP	No	703
EC MW-9	1	PE	250	NaOH / ICE	Yes	≥9	NA	Sulfide, H2S	ESP	No	703
EC MW-9	1	PE	250	H2SO4 / ICE	Yes	≤2	NA	NH3	ESP	No	703
EC MW-9	1	PE	250	HNO3 / ICE	Yes	≤2	NA	7470	ESP	No	703
EC MW-9	2	CG	40	ICE	No	NA	NA	8260B	ESP	No	100

REMARKS:
250mL TDS/NO2, 250mL NOx, 250mL 6010C

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 07.15.2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 59874		CONTROLLER ID: 5024

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

……=……feet/NGVD -……ft/BTOC=……STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH **–** STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
14:20												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
T. Molony, N. Winn, P. Straughn / EscWQLM	Travis Molony Digitally signed by Travis Molony Date: 2021.11.30 12:30:12 -06'00'	14:20	14:25

WELL CASING COMPOSITION:	TUBING MATERIAL CODE:	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-9 DATE/TIME: 07.15.2021 14:05 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EQ BLANK	1	PE	250	ICE	No	NA	NA	Cl, SO4	ESP	No	100
EQ BLANK	1	PE	250	NaOH / ICE	Yes	>9	NA	Sulfide, H2S	ESP	No	1000
EQ BLANK	1	PE	250	H2SO4 / ICE	Yes	<2	NA	NH3	ESP	No	1000
EQ BLANK	1	PE	250	HNO3 / ICE	Yes	<2	NA	7470	ESP	No	1000
EQ BLANK	2	CG	40	ICE	No	NA	NA	8260B	ESP	No	1000

REMARKS:
250mL TDS/NO2, 250mL NOx, 250mL 6010C

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 07.15.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 36.65	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 04D0106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

..... = 113.20 feet/NGVD - 36.65 ft/BTOC= 76.55 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 36.65 feet) X 0.16 gallons/foot = 4.49 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 14:58	PURGING ENDED AT: 15:20	TOTAL VOLUME PURGED (gallons): 25.74

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
14:58			1.17									
15:14	18.72	18.72	1.17	37.31	3.93	23.50	28.42	8.70	0.21	427.5	NA	No
15:17	3.51	22.23	1.17	37.31	3.92	23.43	28.43	8.71	0.49	430.7	NA	No
15:20	3.51	25.74	1.17	37.31	3.91	23.40	28.38	8.69	0.56	433.3	NA	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. MOLONY, N. WINN, P. STRAUGHN / ESCWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 15:20	SAMPLING ENDED AT: 15:25
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-9 DATE/TIME: 07.15.21 / 14:05 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER				
EC MW-10	1	PE	250	ICE	No	NA	NA	Cl, SO4	ESP	No	4429
EC MW-10	1	PE	250	NaOH / ICE	Yes	≥9	NA	Sulfide, H2S	ESP	No	4429
EC MW-10	1	PE	250	H2SO4 / ICE	Yes	≤2	NA	NH3	ESP	No	4429
EC MW-10	1	PE	250	HNO3 / ICE	Yes	≤2	NA	7470	ESP	No	4429
EC MW-10	2	CG	40	ICE	No	NA	NA	8260B	ESP	No	100

REMARKS:
250mL TDS/NO2, 250mL NOx, 250mL 6010C

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 8-17-2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 33.45	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

…… = 114.2 feet/NGVD - 33.45 ft/BTOC= 80.75 ……STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (62.50 feet – 33.45 feet) X 0.16 gallons/foot = 4.64 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 11:50	PURGING ENDED AT: 12:08	TOTAL VOLUME PURGED (gallons): 18.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
11:50			1.01								na	No
12:02	12.12	12.12	1.01	35.20	4.48	22.97	56.82	2.85	2.79	317.9	na	No
12:05	3.03	15.15	1.01	35.20	4.48	22.95	56.91	2.88	1.57	317.2	na	No
12:08	3.03	18.18	1.01	35.20	4.48	22.93	56.91	2.89	1.38	314.7	na	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K Price, T Moloney / ESCWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2021.08.19 14:41:04 -05'00'	SAMPLING INITIATED AT: 12:08	SAMPLING ENDED AT: 12:13
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☐Y ☐N	METHOD:	LOCATION: COC	DATE/TIME: 8-19-21 8:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9	1	PE	250	NaOH	Yes	>9	NA	4500S2F/4500H2S	ESP	No	3823
MW-9	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	3823
MW-9	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	3823
MW-9	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	3823
MW-9	2	CG	40	ICE	No	NA	NA	8260B	ESP	No	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 08.17.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 36.57	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 113.20 feet/NGVD - 36.57 ft/BTOC= 76.63 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 36.57 feet) X 0.16 gallons/foot = 4.50 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 12:47	PURGING ENDED AT: 13:06	TOTAL VOLUME PURGED (gallons): 12.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
12:47			0.64									
13:00	8.32	8.32	0.64	36.98	4.65	23.65	32.32	8.56	3.66	314.0	CLEAR	No
13:03	1.92	10.24	0.64	36.98	4.65	23.67	32.30	8.55	0.95	313.1	CLEAR	No
13:06	1.92	12.16	0.64	36.98	4.64	23.64	32.25	8.56	2.30	312.4	CLEAR	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. MOLONY, K. PRICE / ECWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2021.08.19 17:14:21 -05'00'	SAMPLING INITIATED AT: 13:06	SAMPLING ENDED AT: 13:11
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: MANUFACTUR LOCATION: COC DATE/TIME: 08.17.21 / 08:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	ICE	No	NA	NONE	Cl, SO_4	ESP	No	423
EC MW-10	1	PE	250	NaOH, ICE	Yes	≥9	NONE	Sulfide, H_2S	ESP	No	423
EC MW-10	1	PE	250	H_2SO_4, ICE	Yes	≤2	NONE	NH_3	ESP	No	423
EC MW-10	1	PE	250	HNO_3, ICE	Yes	≤2	NONE	7470A	ESP	No	423
EC MW-10	2	CG	40	ICE	No	NA	NONE	8260B	ESP	No	100

REMARKS:
250mL TDS/NO_2, 250mL NO_x, 250mL 6010C

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 09.21.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 32.58	PURGE PUMP TYPE: ESP
FIELD METER ID: 400	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 04D0106

Static Water Level (NGVD) = (TOC ELEVATION NGVD – STATIC WATER LEVEL)

..... = 114.22 .....feet/NGVD - 32.58 .....ft/BTOC= 81.64 .....STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (62.50 feet – 32.58 feet) X 0.16 gallons/foot = 4.79 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 10:24	PURGING ENDED AT: 10:52	TOTAL VOLUME PURGED (gallons): 41.35

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
10:24			1.25								clear	
10:27	3.75	3.75	1.25								slight grey turbic	
10:41	17.5	21.25	1.02								clear	
10:46	5.1	26.35	1.02	35.41	4.18	22.92	56.69	2.95	1.04	424.8	clear	No
10:49	3.75	30.1	1.02	35.40	4.17	22.83	56.71	2.97	1.72	430.4	clear	No
10:52	3.75	41.35	1.02	35.40	4.17	22.80	56.67	2.96	1.45	432.1	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Moloney/ESCWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price	SAMPLING INITIATED AT: 10:52	SAMPLING ENDED AT: 10:57
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD:	LOCATION: COC	DATE/TIME: 9.20.21 / 16:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9	1	PE	250	NaOH	Yes	>9	NA	4500S2F/4500H2S	ESP	No	4732
MW-9	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	4732
MW-9	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	4732
MW-9	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	4732
MW-9	2	CG	40	ICE	No	NA	NA	8260B	ESP	No	100

REMARKS:
Controller swapped at 10:41 CST - 59876

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 09.21.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 35.47	PURGE PUMP TYPE: ESP
FIELD METER ID: 400	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NGVD) = (TOC ELEVATION NGVD – STATIC WATER LEVEL)

= 113.20 feet/NGVD - 35.47 ft/BTOC= 77.73 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 35.47 feet) X 0.16 gallons/foot = 4.68 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 11:28	PURGING ENDED AT: 11:45	TOTAL VOLUME PURGED (gallons): 8.16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
11:28			0.48								slight grey turbic	
11:39	5.28	5.28	0.48	35.75	4.37	23.76	33.51	8.50	1.35	448.4	clear	No
11:42	1.44	6.72	0.48	35.74	4.37	23.77	33.44	8.50	1.00	450.4	clear	No
11:45	1.44	8.16	0.48	35.74	4.37	23.73	33.39	8.50	1.69	452.1	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Moloney/ESCWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price	SAMPLING INITIATED AT: 11:45	SAMPLING ENDED AT: 11:50
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: LOCATION: MW-10R DATE/TIME: 9.20.21 /11:40 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
MW-10	1	PE	250	NaOH	Yes	>9	NA	4500S2F/4500H2S	ESP	No	1817
MW-10	1	PE	250	ICE	No	NA	NA	300.0	ESP	No	1817
MW-10	1	PE	250	H2SO4	Yes	<2	NA	350.1	ESP	No	1817
MW-10	1	PE	250	HNO3	Yes	<2	NA	7470	ESP	No	1817
MW-10	2	CG	40	ICE	No	NA	NA	8260B	ESP	No	100

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 11.03.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 31.80	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 04D0106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 114.22 feet/NGVD - 31.80 ft/BTOC= 82.42 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (62.50 feet – 31.80 feet) X 0.16 gallons/foot = 4.91 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 10:54	PURGING ENDED AT: 11:54	TOTAL VOLUME PURGED (gallons): 74.4

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
10:54			1.24								clear	
11:48	66.92	66.92	1.24	35.08	4.04	22.57	57.03	3.00	0.02	336.4	clear	No
11:51	3.72	70.64	1.24	35.08	4.04	22.59	57.01	2.99	0.02	334.7	clear	No
11:54	3.72	74.36	1.24	35.08	4.05	22.60	57.05	3.00	0.02	332.6	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2021.11.22 10:51:40 -06'00'	SAMPLING INITIATED AT: 11:54	SAMPLING ENDED AT: 11:59
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 9.23.21 / 18:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	None	No	NA	None	Cl, SO4	ESP	No	4694
EC MW-9	1	PE	250	NaOH	Yes	≥9	None	Sulfide, H2S	ESP	No	4694
EC MW-9	1	PE	250	HNO_3	Yes	≤2	None	7470	ESP	No	4694
EC MW-9	1	PE	250	H_2SO_4	Yes	≤2	None	NH3	ESP	No	4694
EC MW-9	2	CG	40	None	No	NA	None	8260	ESP	No	100

REMARKS:
250mL TDS/NO_2, 250mL Metals, 250mL Nutrients

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 11.03.2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE:
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 64579	CONTROLLER ID: 04D106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

……=……feet/NGVD -……ft/BTOC=……STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH **–** STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
12:40												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
T. Molony, K. Price / ESCWQLM	Travis Molony Digitally signed by Travis Molony Date: 2021.11.30 12:36:01 -06'00'	12:40	12:45

WELL CASING COMPOSITION:	TUBING MATERIAL CODE:	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-9 DATE/TIME: 11.03.2021 12:25 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EQ BLANK	1	PE	250	None	No	NA	None	Cl, SO4	ESP	No	100
EQ BLANK	1	PE	250	NaOH	Yes	NA	None	Sulfide, H2S	ESP	No	1000
EQ BLANK	1	PE	250	HNO3	Yes	NA	None	7470	ESP	No	1000
EQ BLANK	1	PE	250	H2SO4	Yes	NA	None	NH3	ESP	No	1000
EQ BLANK	2	CG	40	None	No	NA	None	8260	ESP	No	1000

REMARKS:
250mL TDS/NO2, 250mL Metals, 250mL Nutrients

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 11.03.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 35.06	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 04D0106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 113.20 feet/NGVD - 35.06 ft/BTOC= 78.14 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.69 feet – 35.06 feet) X 0.16 gallons/foot = 4.74 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 12:59	PURGING ENDED AT: 13:15	TOTAL VOLUME PURGED (gallons): 18.24

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
12:59			1.14								clear	
13:09	11.4	11.4	1.14	35.62	4.18	23.36	31.33	8.68	0.02	337.2	clear	No
13:12	3.42	14.82	1.14	35.62	4.18	23.32	31.23	8.68	0.02	337.1	clear	No
13:15	3.42	18.24	1.14	35.62	4.18	23.37	31.18	8.68	0.02	337.0	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K Price, T Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2021.11.22 10:49:24 -06'00'	SAMPLING INITIATED AT: 13:15	SAMPLING ENDED AT: 13:20
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-9 DATE/TIME: 11.3.21 / 12:25 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	None	No	NA	None	Cl, SO4	ESP	No	4315
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH	Yes	≥9	None	Sulfide, H2S	ESP	No	4315
EC MW-10	1	PE	250	HNO_3	Yes	≤2	None	7470	ESP	No	4315
EC MW-10	1	PE	250	H_2SO_4	Yes	≤2	None	NH3	ESP	No	4315
EC MW-10	2	CG	40	None	No	NA	None	8260	ESP	No	100

REMARKS: 250mL TDS/NO2, 250mL Metals, 250mL Nutrients

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 11.17.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 32.65	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 04D0106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 114.22 feet/NGVD - 32.65 ft/BTOC= 81.57 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 32.65 feet) X 0.16 gallons/foot = 4.89 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 09:57	PURGING ENDED AT: 10:21	TOTAL VOLUME PURGED (gallons): 25.92

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
09:57			1.08								clear	
10:15	19.44	19.44	1.08	35.63	4.17	22.63	56.74	2.94	0.02	359.7	clear	No
10:18	3.24	22.68	1.08	35.59	4.17	22.63	56.67	2.96	0.02	357.5	clear	No
10:21	3.24	25.92	1.08	35.59	4.18	22.63	56.70	2.96	0.02	355.5	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2021.11.22 10:58:50 -06'00'	SAMPLING INITIATED AT: 10:21	SAMPLING ENDED AT: 10:26
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: coc DATE/TIME: 11.3.2021 17:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4	Yes	≤2	None	NH3	ESP	No	4088
EC MW-9	1	PE	250	None	No	NA	None	Cl, SO4	ESP	No	4088
EC MW-9	1	PE	250	HNO_3	Yes	≤2	None	7470	ESP	No	4088
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH	Yes	≥9	None	Sulfide, H2S	ESP	No	4088
EC MW-9	2	CG	40	None	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals, 250 mL Nutrients, 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 11.17.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 35.79	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 3321	PUMP ID: 59874	CONTROLLER ID: 04D0106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 113.20 feet/NGVD - 35.79 ft/BTOC= 77.41 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 35.79 feet) X 0.16 gallons/foot = 4.66 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
61.19	61.19	11:00	11:23	22.54

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
11:00			0.98								clear	
11:17	16.66	16.66	0.98	36.31	4.24	23.41	32.35	8.70	0.02	368.9	clear	No
11:20	2.94	19.6	0.98	36.31	4.24	23.42	32.45	8.70	0.02	371.4	clear	No
11:23	2.94	22.54	0.98	36.31	4.24	23.42	32.30	8.69	0.02	371.8	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2021.11.22 10:56:03 -06'00'	SAMPLING INITIATED AT: 11:23	SAMPLING ENDED AT: 11:28
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer LOCATION: COC	DATE/TIME: 9.23.21 17:30	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4	Yes	≤2	None	NH3	ESP	No	3709
EC MW-10	1	PE	250	None	No	NA	None	Cl, SO4	ESP	No	3709
EC MW-10	1	PE	250	HNO_3	Yes	≤2	None	7470	ESP	No	3709
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH	Yes	≥9	None	Sulfide, H2S	ESP	No	3709
EC MW-10	2	CG	40	None	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals, 250mL Nutrients, 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 12.08.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 34.00	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 04D0106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 114.22 feet/NGVD - 34.00 ft/BTOC= 80.22 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 34.00 feet) X 0.16 gallons/foot = 4.67 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 13:40	PURGING ENDED AT: 13:58	TOTAL VOLUME PURGED (gallons): 21.1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
13:40			1.17								clear	
13:45	5.85	5.85	1.17								very slight grey turbid	
13:52	8.19	14.04	1.17	37.24	4.62	22.60	57.21	2.95	0.49	245.4	clear	No
13:55	3.51	17.55	1.17	37.24	4.59	22.52	57.25	2.97	0.42	282.9	clear	No
13:58	3.51	21.06	1.17	37.24	4.56	22.52	57.33	2.98	0.02	293.8	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K Price, T Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2021.12.09 09:09:27 -06'00'	SAMPLING INITIATED AT: 13:58	SAMPLING ENDED AT: 14:03
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 11.17.21 17:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	4429
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	4429
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	4429
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	4429
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 12.08.2021

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 36.81	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 64519	CONTROLLER ID: 04D0106	

Static Water Level (NGVD) = (TOC ELEVATION NGVD **–** STATIC WATER LEVEL)

= 114.22 feet/NGVD - 36.81 ft/BTOC= 77.41 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 36.81 feet) X 0.16 gallons/foot = 4.50 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
61.19	61.19	14:33	14:46	12.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
14:33			0.98								slight grey turbid	
14:40	6.86	6.86	0.98	37.39	4.55	23.06	36.58	8.81	0.55	324.3	clear	No
14:43	2.94	9.80	0.98	37.39	4.53	23.07	36.38	8.81	0.30	326.4	clear	No
14:46	2.94	12.74	0.98	37.39	4.43	23.08	36.10	8.81	0.52	329.1	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony, K Price / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2021.12.09 09:14:00 -06'00'	SAMPLING INITIATED AT: 14:46	SAMPLING ENDED AT: 14:51
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 11.17.21 18:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	3710
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	3710
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	3710
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	3710
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 01.24.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 36.79	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 36.79 ft/BTOC= 77.43 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 36.79 feet) X 0.16 gallons/foot = 4.22 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 10:34	PURGING ENDED AT: 10:54	TOTAL VOLUME PURGED (gallons): 17.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
10:34			0.86								clear	
10:48	12.04	12.04	0.86	39.15	4.64	22.37	57.02	3.19	0.02	200.1	clear	No
10:51	2.58	14.62	0.86	39.14	4.63	22.40	56.99	3.20	0.02	203.3	clear	No
10:54	2.58	17.2	0.86	39.14	4.64	22.43	56.98	3.20	0.02	207.5	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K Price T Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2022.01.24 16:45:28 -06'00'	SAMPLING INITIATED AT: 10:54	SAMPLING ENDED AT: 10:59
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 1.24.22 0830 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	3255
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	3255
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	3255
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	3255
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 01.24.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 38.75	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

…… = 114.22 feet/NAVD - 38.75 ft/BTOC= 75.47 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 38.75 feet) X 0.16 gallons/foot = 4.19 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 11:29	PURGING ENDED AT: 11:42	TOTAL VOLUME PURGED (gallons): 15.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
11:29			1.17								slight orange tin	
11:36	8.19	8.19	1.17	39.40	4.67	23.08	37.45	9.25	0.08	210.4	slight orange tin	No
11:39	3.51	11.7	1.17	39.40	4.70	23.08	37.45	9.24	0.09	213.6	slight orange tin	No
11:42	3.51	15.21	1.17	39.40	4.70	23.08	37.45	9.24	0.18	214.7	slight orange tin	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony K Price / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2022.01.24 16:46:37 -06'00'	SAMPLING INITIATED AT: 11:42	SAMPLING ENDED AT: 11:47
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 1.24.22 0800 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	4429
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	4429
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	4429
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	4429
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 02.09.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 37.49	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 37.49 ft/BTOC= 76.73 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 37.49 feet) X 0.16 gallons/foot = 4.11 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 1029	PURGING ENDED AT: 1046	TOTAL VOLUME PURGED (gallons): 15.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1029			0.92								clear	
1040	10.12	10.12	0.92	40.31	4.50	22.41	56.85	3.22	0.67	239.7	clear	No
1043	2.76	12.88	0.92	40.31	4.49	22.45	56.78	3.23	0.31	249.1	clear	No
1046	2.76	15.64	0.92	40.31	4.50	22.44	56.77	3.24	0.32	251.7	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony K Price / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2022.02.09 17:50:22 -06'00'	SAMPLING INITIATED AT: 1046	SAMPLING ENDED AT: 1051
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 2.8.22 17:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	3483
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	3483
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	3483
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	3483
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 02.09.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 39.11	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

…… = 114.22 feet/NAVD - 39.11 ft/BTOC= 75.11 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 39.11 feet) X 0.16 gallons/foot = 4.13 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1150	PURGING ENDED AT: 1205	TOTAL VOLUME PURGED (gallons): 12.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1150			0.82								clear	
1159	7.38	7.38	0.82	39.61	4.61	23.07	36.18	9.35	0.15	256.1	clear	No
1202	2.46	9.84	0.82	39.61	4.58	23.06	36.16	9.36	1.24	258.5	clear	No
1205	2.46	12.3	0.82	39.61	4.60	23.04	36.14	9.34	0.18	260.7	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony K Price / EscWQLM	SAMPLER(S) SIGNATURE(S): Travis Molony Digitally signed by Travis Molony Date: 2022.02.09 17:53:11 -06'00'	SAMPLING INITIATED AT: 1205	SAMPLING ENDED AT: 1210
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-9 DATE/TIME: 2.9.22 11:15 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	3104
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	3104
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	3104
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	3104
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 03.22.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 38.68	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 38.68 ft/BTOC= 75.54 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 38.68 feet) X 0.16 gallons/foot = 3.92 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 1204	PURGING ENDED AT: 1256	TOTAL VOLUME PURGED (gallons): 34.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1204			0.67								clear	
1250	30.82	30.82	0.67	40.70	4.32	22.56	56.39	3.37	0.13	324.8	clear	No
1253	2.01	32.83	0.67	40.69	4.33	22.55	56.40	3.37	0.26	328.1	clear	No
1256	2.01	34.84	0.67	40.68	4.32	22.55	56.38	3.36	0.28	330.2	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony J Marquis / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2022.03.30 16:20:35 -05'00'	SAMPLING INITIATED AT: 1256	SAMPLING ENDED AT: 1301
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 3.22.22 8:30	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	2536
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	2536
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	2536
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	2536
EC MW-9	2	CG	40	Ice	No	NA	None	8260UP	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 03.22.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 41.11	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

…… = 114.22 feet/NAVD - 41.11 ft/BTOC= 73.11 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 41.11 feet) X 0.16 gallons/foot = 3.81 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1439	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (gallons): 19.08

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1439			0.68								clear	
1454	15	15	0.68	40.50	4.42	23.13	33.22	9.57	0.38	411.9	clear	No
1457	2.04	17.04	0.68	40.50	4.40	23.15	33.20	9.56	0.46	411.5	clear	No
1500	2.04	19.08	0.68	40.51	4.42	23.16	33.24	9.57	0.42	407.2	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony J Marquis / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2022.03.30 16:13:47 -05'00'	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1505
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: MW-9	DATE/TIME: 3.22.22 13:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	2574
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	2574
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	2574
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	2574
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 4/20/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 39.10	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 – STATIC WATER LEVEL)

..... = 114.22 ..... feet/NAVD - 39.10 ..... ft/BTOC= 75.12 ..... STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 39.10 feet) X 0.16 gallons/foot = 3.85 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 10:24	PURGING ENDED AT: 10:38	TOTAL VOLUME PURGED (gallons): 10:22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
10:24			0.73								clear	No
10:32	5.84	5.84	0.73	41.30	4.61	22.53	57.65	3.31	0.14	267.8	clear	No
10:35	2.19	8.03	0.73	41.23	4.61	22.62	57.43	3.31	0.10	260.4	clear	No
10:38	2.19	10.22	0.73	41.20	4.61	22.65	57.40	3.29	0.10	257.0	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2022.04.20 17:31:15 -05'00'	SAMPLING INITIATED AT: 10:38	SAMPLING ENDED AT: 10:43
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 4/4/22 1700	TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	2763
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	2763
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	2763
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	2763
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 4/20/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 40.69	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 – STATIC WATER LEVEL)

114.22 =.....feet/NAVD - 40.69.....ft/BTOC= 73.53.....STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 40.69 feet) X 0.16 gallons/foot = 3.88 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 11:40	PURGING ENDED AT: 11:54	TOTAL VOLUME PURGED (gallons): 9.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
11:40			0.7								clear	No
11:48	5.6	5.6	0.7	41.03	4.78	23.60	31.70	9.41	0.05	253.1	clear	No
11:51	2.1	7.7	0.7	41.03	4.78	22.43	31.70	9.45	0.04	257.1	clear	No
11:54	2.1	9.8	0.7	41.03	4.77	23.43	31.68	9.45	0.06	256.8	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Molony / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2022.04.20 17:31:00 -05'00'	SAMPLING INITIATED AT: 11:54	SAMPLING ENDED AT: 11:59
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: MW-9	DATE/TIME: 4/20/22 10:38 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	2650
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	2650
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	2650
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	2650
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3), 250mL Nutrients (H_2SO_4), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 05.18.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 39.41	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

..... = 114.22 feet/NAVD - 39.41 ft/BTOC= 74.81 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 39.41 feet) X 0.16 gallons/foot = 3.80 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1301	TOTAL VOLUME PURGED (gallons): 15.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1245			0.95								slight grey turbid	
1255	9.5	9.5	0.95	42.10	4.33	22.82	57.03	3.33	0.27	413.7	clear	No
1258	2.85	12.35	0.95	42.80	4.34	22.80	57.05	3.33	0.12	399.7	clear	No
1301	2.85	15.2	0.95	42.50	437	22.78	57.07	3.34	0.11	389.3	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M O'Toole / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1301	SAMPLING ENDED AT: 1306
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 4.27.22 1700 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	3596
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	3596
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	3596
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	3596
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 05.18.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 41.00	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 41.00 ft/BTOC= 73.22 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 41.00 feet) X 0.16 gallons/foot = 3.83 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1342	PURGING ENDED AT: 1356	TOTAL VOLUME PURGED (gallons): 12.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1342			0.89								clear	
1350	7.12	7.12	0.89	41.54	4.41	23.62	30.58	9.59	0.24	345.1	clear	No
1353	2.67	9.79	0.89	41.53	4.41	23.55	30.66	9.61	0.64	347.8	clear	No
1356	2.67	12.46	0.89	41.52	4.42	23.51	30.73	9.64	0.02	349.3	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony, M O'Toole / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1356	SAMPLING ENDED AT: 1401
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 5.3.22 1700 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	3369
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	3369
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	3369
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	3369
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 2022.06.15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 39.20	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

…… = 114.22 feet/NAVD - 39.20 ft/BTOC= 75.02 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 39.20 feet) X 0.16 gallons/foot = 3.84 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 1146	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons): 18.3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1146			0.63								slight grey turbic	
1209	14.49	14.49	0.63	41.14	4.34	22.99	57.14	3.26	0.79	251.2	clear	No
1212	1.89	16.38	0.63	41.15	4.37	22.96	57.09	3.26	0.41	256.4	clear	No
1215	1.89	18.27	0.63	41.15	4.39	22.96	57.15	3.25	0.15	259.1	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K Price T Molony / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1215	SAMPLING ENDED AT: 1220
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 22.06.15 08:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	2385
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	2385
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	2385
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	2385
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 2022.06.15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 40.92	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

…… = 114.22 feet/NAVD - 40.92 ft/BTOC= 73.3 ……STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 40.92 feet) X 0.16 gallons/foot = 3.84 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1254	PURGING ENDED AT: 1312	TOTAL VOLUME PURGED (gallons): 10.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1254			0.60								clear	
1306	7.2	7.2	0.60	41.25	4.47	23.87	30.50	9.66	0.02	270.7	clear	No
1309	1.8	9.0	0.60	41.22	4.48	23.82	30.52	9.70	1.19	277.5	clear	No
1312	1.8	10.8	0.60	41.22	4.50	23.79	30.54	9.70	0.02	282.7	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony K Price / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1312	SAMPLING ENDED AT: 1317
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 22.06.15 08:15 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	2271
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	2271
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	2271
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	2271
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Meter Calibration Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 821852A14Ø6
Project: RH GW

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				Ø6.Ø2.2Ø22							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	~~29.95~~ KP KP	7.13.22	8:53	29.98	21.Ø	~~8.94~~	3Ø.Ø1	8.94	1ØØ.65	21.27	(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7.13.22	16:4Ø	~~29.96~~ KP ~~29.94~~ 29.96	19.8	9.14	29.98	9.1Ø	1ØØ.38	2Ø.24	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	KP	7.13.22	8:55	1ØØ.Ø	3-2Ø24	INV22Ø272	21.89	1Ø1.Ø9			(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7.13.22	16:42	1ØØ.Ø	3-2Ø24	INV22Ø272	21.59	98.46			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	KP	7.13.22	9:ØØ	7.Ø	12/2Ø23	INV22Ø274	71.2	7.Ø5			(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7.13.22	16:44	4.Ø	12/2Ø23	INV22Ø273	97.1	4.17			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	KP	7.13.22	9:Ø4	2ØBells	7/19/22	INV22Ø4Ø9	12.24	241.Ø			(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7-13.22	16:48	2ØBells	7/19/22	INV22Ø4Ø9	11.96	238.Ø			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 7.13.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 39.03	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 39.03 ft/BTOC= 75.19 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 39.03 feet) X 0.16 gallons/foot = 3.86 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 10:35	PURGING ENDED AT: 0.66	TOTAL VOLUME PURGED (gallons): 11.88

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
10:35											slight grey	No
10:47	7.92	7.92	0.66	41.0	4.40	22.74	57.83	3.14	0.6	259.5	slight grey	No
10:50	1.98	9.9	0.66	41.0	4.38	22.73	57.77	3.15	0.66	260.1	clear	No
10:53	1.98	11.88	0.66	41.02	3.38	22.73	57.72	3.16	0.43	258.2	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, D. Morton / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2022.07.13 15:45:44 -05'00'	SAMPLING INITIATED AT: 10:53	SAMPLING ENDED AT: 10:58
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 7.13.2022 8:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	2498
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	2498
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥ 9	None	Sulfide, H_2S	ESP	No	2498
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	2498
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 7.13.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 40.81	PURGE PUMP TYPE: ESP
FIELD METER ID: 821852	TURBIDITY METER ID: 2490	PUMP ID: 64519	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 40.81 ft/BTOC= 73.41 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 40.81 feet) X 0.16 gallons/foot = 3.86 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 12:24	PURGING ENDED AT: 12:43	TOTAL VOLUME PURGED (gallons): 19.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
12:24											slight grey	No
12:37	13.65	13.65	1.05	41.36	4.56	23.55	30.64	9.43	0.02	257.3	clear	No
12:40	3.15	16.8	1.05	41.36	4.56	23.55	30.67	9.43	0.02	257.6	clear	No
12:43	3.15	19.95	1.05	41.38	4.56	23.55	30.70	9.43	0.02	257.9	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, D. Morton / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2022.07.13 15:57:49 -05'00'	SAMPLING INITIATED AT: 12:43	SAMPLING ENDED AT: 12:48
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: MW-9	DATE/TIME: 7.13.2022 11:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	3975
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	3975
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	3975
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	3975
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: EQUIPMENT BLANK	SAMPLE ID: EQUIPMENT BLANK	DATE: 7/13/2022

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

……=……feet/NAVD -……ft/BTOC=……STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
11:45												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, D. Morton / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price Digitally signed by Kaitlyn Price Date: 2022.04.20 17:31:15 -05'00'	SAMPLING INITIATED AT: 11:45	SAMPLING ENDED AT: 11:50
WELL CASING COMPOSITION:	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-9 DATE/TIME: 7/13/2022 11:00 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	1000
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	1000
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	1000
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	1000
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 537460 AT600
Project: Rollins Hills GW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				06.02.2022								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	KP	8.2.22	8:55	30.05	20.9	8.97	30.06	8.95	101.04	21.41		(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:02	30.06	21.1	8.94	30.07	9.09	102.1	21.2		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	KP	8.2.22	8:56	100	3/2024	INV220272	22.96	97.94				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:04	100	3/2024	INV220272	22.4	97.15				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	KP	8.2.22	9:00	7.0	12/2023	INV220274	-34.6	7.11				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:07	4	12/2023	INV220273	129.7	4.19				(Pass) Fail
(CAL)	ICV	CCV	MAINT	ME	8-2-22	15:13	4,7,10	12/2023 → 2/2023 → 6/2023	INV220273 INV220274 INV211006						Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	(ICV)	CCV	MAINT	ME	8-2-22	15:24	4	12/2023	INV220273	134.9	3.93				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	KP	8.2.22	9:01	ZoBells	8/9/2022	INV220444	20.80	217.9				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:27	ZoBells	8/9/2022	INV220444	12.89	229.4				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 8.2.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 38.72	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 3321	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level (NGVD) = (TOC ELEVATION NGVD – STATIC WATER LEVEL)
= 114.22 feet/NGVD - 38.72 ft/BTOC= 75.5 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (63.19 feet – 38.72 feet) X 0.16 gallons/foot = 3.92 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 1058	PURGING ENDED AT: 11:27	TOTAL VOLUME PURGED (gallons): 23.78

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
1058			0.82				57				slightly turbid	
1121	18.86	18.86	0.82	40.95	4.45	22.96	~~57.59~~	error	0.27	178.7	clear	N
1124	2.46	21.32	0.82	40.95	4.46	22.96	57.58	error	0.24	180.7	clear	N
1127	2.46	23.78	0.82	40.95	4.49	22.95	57.52	error	0.29	183.1	clear	N

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Moloney, M. Emerson / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price ESCWQLM	SAMPLING INITIATED AT: 1127	SAMPLING ENDED AT: 1132
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 8.2.22/8:34 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4/ICE	Yes	≤2	None	NH_3	ESP	No	310⁴
EC MW-9	1	PE	250	HNO_3/ICE	Yes	≤2	None	7470	ESP	No	310⁴
EC MW-9	1	PE	250	$ZnC_4H_6O_4$/NaOH/ICE	Yes	≥9	None	Sulfide, H_2S	ESP	No	310⁴
EC MW-9	1	PE	250	ICE	No	NA	None	Cl, SO_4	ESP	No	310⁴
EC MW-9	2	CG	40	~~None~~ RFPP ICE	No	NA	None	8260	ESP	No	100

REMARKS:
error reading D.O.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: ESCAMBIA COUNTY, FLORIDA	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-1Ø	SAMPLE ID: MW-1Ø	DATE: 8.2.2Ø22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet): 4Ø.59	PURGE PUMP TYPE: ESP
FIELD METER ID: 537469	TURBIDITY METER ID: 3321	PUMP ID: 64519		CONTROLLER ID: 59876

Static Water Level (NGVD) = (TOC ELEVATION NGVD – STATIC WATER LEVEL)
..... = 114.22 feet/NGVD - 4Ø.59 ft/BTOC= 73.63 STATIC WATER LEVEL NGVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (64.94 feet – 4Ø.59 feet) X 0.16 gallons/foot = 3.9 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 12:08	PURGING ENDED AT: 12:25	TOTAL VOLUME PURGED (gallons): 1Ø.71

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	COLOR (describe)	SHEEN (Y/N)
12:08			Ø.63								Clear	N
12:19	6.93	6.93	Ø.63	4Ø.9Ø	4.55	23.9	29.56	9.44	Ø.78	214.7	clear	N
12:22	1.89	8.82	Ø.63	4Ø.9Ø	4.54	23.84	29.54	9.44	0.83	223.2	Clear	N
12:25	1.89	10.71	0.63	40.90	4.56	23.8	29.45	9.45	1.06	228.8	Clear	N

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: K. Price, T. Moloney, M. Emerson / EscWQLM	SAMPLER(S) SIGNATURE(S): Kaitlyn Price	SAMPLING INITIATED AT: 12:25	SAMPLING ENDED AT: 12:3Ø
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION: COC	DATE/TIME: 8.2.22 8:ØØ TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-1Ø	1	PE	25Ø	H_2SO_4/ICE	Yes	≤2	None	NH_3	ESP	No	2385
EC MW-1Ø	1	PE	25Ø	HNO_3/ICE	Yes	≤2	None	2476Ø	ESP	No	2385
EC MW-1Ø	1	PE	25Ø	$ZnC_4H_6O_4$/NaOH/ICE	Yes	≥9	None	Sulfide, H_2S	ESP	No	2385
EC MW-1Ø	1	PE	25Ø	ICE	No	NA	None	Cl, SO_4	ESP	No	2385
EC MW-1Ø	2	CG	4Ø	ICE	No	NA	None	826Ø	ESP	No	1ØØ

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 09.20.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 36.49	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 36.49 ft/BTOC= 77.73 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 36.49 feet) X 0.16 gallons/foot = 4.27 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.19	PURGING INITIATED AT: 1010	PURGING ENDED AT: 1027	TOTAL VOLUME PURGED (gallons): 6.97

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1010			0.41		4.58						clear	
1021	4.51	4.51	0.41	37.51	4.59	23.08	59.37	3.38	0.80	140.4	slight orange tin	No
1024	1.23	5.74	0.41	37.48	4.61	23.06	59.19	3.39	0.44	139.6	slight orange	No
1027	1.23	6.97	0.41	37.51	4.64	23.06	59.08	3.39	0.28	140.5	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M Emerson / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1027	SAMPLING ENDED AT: 1032
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 8.30.22 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	1552
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	1552
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	1552
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	1552
EC MW-9	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
1x 250mL PE Metals (HNO_3 ≤2), 1x 250mL PE Nutrients (H_2SO_4 ≤2), 1x 250mL PE TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 09.20.2022

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 38.51	PURGE PUMP TYPE: ESP
FIELD METER ID: 537460	TURBIDITY METER ID: 2490	PUMP ID: 64519	CONTROLLER ID: 59874	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 38.51 ft/BTOC= 75.71 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 38.51 feet) X 0.16 gallons/foot = 4.23 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.19	PURGING INITIATED AT: 1103	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 7.14

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1103			0.42								clear	
1114	4.62	4.62	0.42	38.74	4.39	24.32	34.30	8.76	0.14	156.1	clear	No
1117	1.26	5.88	0.42	38.69	4.35	24.31	34.14	8.82	0.09	161.7	clear	No
1120	1.26	7.14	0.42	38.70	4.35	24.37	34.09	8.79	0.12	164.5	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M Emerson / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1125
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 8.30.22 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	1590
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	1590
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	1590
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	1590
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
1x 250mL PE Metals (HNO_3 ≤2), 1x 250mL PE Nutrients (H_2SO_4 ≤2), 1x 250mL PE TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: **1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 2023.02.07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 39.50	PURGE PUMP TYPE: ESP
FIELD METER ID: 738999	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

..... = 114.22 feet/NAVD - 39.50 ft/BTOC= 74.72 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 39.50 feet) X 0.16 gallons/foot = 3.79 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.2	PURGING INITIATED AT: 1133	PURGING ENDED AT: 1158	TOTAL VOLUME PURGED (gallons): 7.8

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1133			0.31								clear	
1152	5.89	5.89	0.31	40.80	4.54	22.75	71.14	4.41	1.39	284.1	clear	No
1155	0.93	6.82	0.31	40.80	4.56	22.77	70.71	4.39	1.36	288.1	clear	No
1158	0.93	7.75	0.31	40.80	4.56	22.79	70.14	4.39	1.32	291.8	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M Emerson / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1158	SAMPLING ENDED AT: 1203
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: COC DATE/TIME: 2023.02.06 17:30 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	1173
EC MW-9	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	1173
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	1173
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	1173
EC MW-9	1	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
Additional bottles: 250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO:	SAMPLE ID: Equipment Blank	DATE: 2023.02.07

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: ft to ft	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE: ESP
FIELD METER ID:	TURBIDITY METER ID:	PUMP ID: 59874		CONTROLLER ID: 59876

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

……=……feet/NAVD -……ft/BTOC=……STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☐	DISSOLVED OXYGEN (circle units) mg/L or ☐ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1245												

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M Emerson / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1245	SAMPLING ENDED AT: 1250
WELL CASING COMPOSITION:	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-10 DATE/TIME: 2023.02.07 12:35 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
Eq. Blank	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	1000
Eq. Blank	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	1000
Eq. Blank	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	1000
Eq. Blank	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	1000
Eq. Blank	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
Additional bottles: 250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 2023.02.07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 40.13	PURGE PUMP TYPE: ESP
FIELD METER ID: 738999	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

= 114.22 feet/NAVD - 40.13 ft/BTOC= 74.09 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 40.13 feet) X 0.16 gallons/foot = 3.97 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.2	PURGING INITIATED AT: 1304	PURGING ENDED AT: 1326	TOTAL VOLUME PURGED (gallons): 9.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1304			0.42								clear	
1320	6.72	6.72	0.42	41.38	4.68	23.53	30.39	8.72	1.40	285.8	clear	No
1323	1.26	7.98	0.42	41.38	4.68	23.54	30.16	8.72	1.33	288.8	clear	No
1326	1.26	9.24	0.42	41.38	4.69	23.54	30.30	8.74	1.17	290.0	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M Emerson / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1326	SAMPLING ENDED AT: 1331
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: MW-10 DATE/TIME: 2023.02.07 12:35 TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes	≤2	None	NH_3	ESP	No	1590
EC MW-10	1	PE	250	HNO_3 / Ice	Yes	≤2	None	7470	ESP	No	1590
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes	≥9	None	Sulfide, H_2S	ESP	No	1590
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	1590
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
Additional bottles: 250mL Metals (HNO_3 ≤2), 250mL Nutrients (H_2SO_4 ≤2), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-9	SAMPLE ID: EC MW-9	DATE: 20230823

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 58.00 ft to 63.00 ft	STATIC DEPTH TO WATER (feet): 38.85	PURGE PUMP TYPE: ESP
FIELD METER ID: 738999	TURBIDITY METER ID: 2490	PUMP ID: 59874	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

..... = 114.22 feet/NAVD - 38.85 ft/BTOC= 75.37 .....STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (63.19 feet – 38.85 feet) X 0.16 gallons/foot = 3.89 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59.2	PURGING INITIATED AT: 1153	PURGING ENDED AT: 1112	TOTAL VOLUME PURGED (gallons): 21

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1053			1.06								clear	
1106	14.84	14.84	1.06	42.05	4.42	22.66	68.63	3.61	0.49	388.7	clear	No
1109	3.18	18.02	1.06	42.02	4.42	22.69	68.44	3.60	0.25	399.2	clear	No
1112	3.18	21.2	1.06	42.02	4.43	22.74	68.30	3.59	0.45	406.9	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M Kelly / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1112	SAMPLING ENDED AT: 1117
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP ☑Y ☐N	METHOD: Manufacturer	LOCATION:	DATE/TIME: TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-9	1	PE	250	H_2SO_4 / Ice	Yes		None	NH_3	ESP	No	
EC MW-9	1	PE	250	HNO_3 / Ice	Yes		None	7470	ESP	No	
EC MW-9	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes		None	Sulfide, H_2S	ESP	No	
EC MW-9	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	
EC MW-9	1	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3), 250mL Nutrients (H_2SO_4), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24-ESC-WQLM

GROUNDWATER SAMPLING LOG

SITE NAME: Rolling Hills Landfill	SITE LOCATION: **ESCAMBIA COUNTY, FLORIDA**	FACILITY ID: 3133 - Rolling Hills
WELL NO: MW-10	SAMPLE ID: EC MW-10	DATE: 20230823

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60.00 ft to 65.00 ft	STATIC DEPTH TO WATER (feet): 41.09	PURGE PUMP TYPE: ESP
FIELD METER ID: 738999	TURBIDITY METER ID: 2490	PUMP ID: rental	CONTROLLER ID: 59876	

Static Water Level (NAVD88) = (TOC ELEVATION NAVD88 **–** STATIC WATER LEVEL)

…… = 114.22 feet/NAVD - 41.09 ft/BTOC= 73.13 STATIC WATER LEVEL NAVD

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (64.94 feet – 41.09 feet) X 0.16 gallons/foot = 3.82 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 61.2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 61.2	PURGING INITIATED AT: 1234	PURGING ENDED AT: 1248	TOTAL VOLUME PURGED (gallons): 16

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm ☐ or µS/cm ☑	DISSOLVED OXYGEN (circle units) mg/L or ☑ % saturation ☐	TURBIDITY (NTUs)	ORP (mV)	**COLOR** (describe)	SHEEN (Y/N)
1234			1.14								clear	
1242	9.12	9.12	1.14	41.74	4.46	23.57	30.91	9.11	1.66	407.5	clear	No
1245	3.42	12.54	1.14	41.74	4.33	23.72	30.83	9.08	1.33	420.3	clear	No
1248	3.42	15.96	1.14	41.73	4.27	23.75	30.79	9.07	1.34	432.8	clear	No

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP =** Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T Molony M Kelly / EscWQLM	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1248	SAMPLING ENDED AT: 1253
WELL CASING COMPOSITION: PVC	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: ☐Y ☑N Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP ☑Y ☐N METHOD: Manufacturer LOCATION: DATE/TIME: TUBING ☐Y ☑N (replaced)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED	LAB PROVIDED? (Y/N)	FINAL pH	INTERMEDIATE CONTAINER	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	FILTERED (Y/N)	SAMPLE PUMP FLOW RATE (mL per minute)
EC MW-10	1	PE	250	H_2SO_4 / Ice	Yes		None	NH_3	ESP	No	
EC MW-10	1	PE	250	HNO_3 / Ice	Yes		None	7470	ESP	No	
EC MW-10	1	PE	250	$ZnC_4H_6O_4$ / NaOH / Ice	Yes		None	Sulfide, H_2S	ESP	No	
EC MW-10	1	PE	250	Ice	No	NA	None	Cl, SO_4	ESP	No	
EC MW-10	2	CG	40	Ice	No	NA	None	8260	ESP	No	100

REMARKS:
250mL Metals (HNO_3), 250mL Nutrients (H_2SO_4), 250mL TDS/NO_2

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES:
1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. **Depth to water must be stable prior to purge stabilization parameter collection unless prior drawdown history is known.**
3. STABILIZATION 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); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Appendix 10

Groundwater Monitoring

Equipment Calibration Records

Meter Calibra. ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Aquatroll
Project: Rolling Hills wells

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	RC	1-29-20	9:56	N	9.352	9.27	97.20	18.59	(Pass) Fail
CAL ICV (CCV) MAINT	RC	1-29-20	17:24	N	9.585	9.42	98.66	17.38	(Pass) Fail
CAL ICV (CCV) MAINT	RC	2-3-20	8:21	N	9.147	9.00	93.99	19.70	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	RC	1-29-20	9:58	146.9	5-20	INV190831	19.17	147.69	(Pass) Fail
CAL ICV (CCV) MAINT	RC	1-29-20	17:26	10,000	3-20	INV180274	18.03	10,147	(Pass) Fail
CAL ICV (CCV) MAINT	RC	2-3-20	8:23	146.9	5-20	INV190831	19.61	163.78	Pass (Fail)
(CAL) ICV CCV MAINT	RC	2-3-20	8:28	1000	6-21	INV190708	19.44		Pass Fail
CAL (ICV) CCV MAINT	RC	2-3-20	8:32	146.9	5-20	INV190831	19.62	146.85	(Pass) Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	RC	1-29-20	10:00	4	6-21	INV190812	-	4.03	(Pass) Fail
CAL ICV (CCV) MAINT	RC	1-29-20	17:27	10	5-21	INV190707	-	10.02	(Pass) Fail
CAL ICV (CCV) MAINT	RC	2-3-20	8:34	4	6-21	INV190812	-	4.04	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	RC	1-29-20	10:07	Zobells	~~INV190126~~ 1-29-20	INV190126	12.02	243.1	(Pass) Fail
CAL ICV (CCV) MAINT	RC	1-29-20	1730	Zobells	1-29-20	INV190126	11.34	244.5	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Smartroll
Project: Rolling Hills SLTG

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	RC	2-11-20	8:25	N	9.258	9.14	98.5	19.10	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	16:27	N	9.202	9.06	98.3	19.40	(Pass) Fail
CAL ICV (CCV) MAINT	RC	2-12-20	8:39	N	9.276	9.13	98.4	18.99	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV (CCV) MAINT	RC	2-11-20	8:30	146.9	8-20	INV200157	20.43	143.9	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	16:35	1000	6.21	INV190708	20.20	999.2	(Pass) Fail
(CAL) ICV CCV MAINT	RC	2-12-20	8:41	1000	6-21	INV190708	19.9		Pass Fail
CAL (ICV) CCV MAINT	RC	2-12-20	8:46	146.7	8-20	INV200157	20.15	147.3	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	RC	2-11-20	8:33	4	6-21	INV190812	-	4.10	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	16:41	10,00	5.21	INV190707	-	10.08	(Pass) Fail
CAL ICV (CCV) MAINT	RC	2-12-20	8:53	4	6-21	INV190812	-	4.10	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	RC	2-11-20	8:39	Zobell's	2-18-20	INV200192	18.09	267.8	Pass (Fail)
(CAL) ICV CCV MAINT	RC	2-11-20	8:41	Zobell's	2-18-20	INV200192	18.4		Pass Fail
CAL (ICV) CCV MAINT	RC	2-11-20	8:43	Zobell's	2-18-20	INV200192	18.54	237.7	(Pass) Fail
CAL ICV (CCV) MAINT	tm	2.11.20	17:07	Zobell's	2-18-20	INV200192	10.55	252.5	(Pass) Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: Smartroll
Project: Rolling Hills GW

Method/Parameter				Analyst	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1600 Turbidity *Meter ID:*				Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU		± 5%
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
(CAL)	ICV	CCV	MAINT	RC	2-13-20	8:29	Y		9.00	97.0	18.9		Pass Fail
CAL	(ICV)	CCV	MAINT	RC	2-13-20	8:30	Y	9.295	9.27	100.0	18.90		(Pass) Fail
CAL	ICV	(CCV)	MAINT	RC	2-25-20	8:27	RC N	9.371	9.34	100.1	18.47		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	2.25.20	15:24	N	9.314	9.30	100.4	18.78		(Pass) Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL	ICV	(CCV)	MAINT	RC	2-13-20	8:32	1000	6-21	INV190708	19.81	994.0		(Pass) Fail
(CAL)	ICV	CCV	MAINT	RC	2-25-20	8:29	1000	6-21	INV190708	19.6			Pass Fail
CAL	(ICV)	CCV	MAINT	RC	2-25-20	8:31	146.9	8-20	INV200157	19.81	149.2		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	2.25.20	15:26	100000	11.21	INV200219	19.95	100033		(Pass) Fail
CAL	ICV	CCV	MAINT										Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL	ICV	(CCV)	MAINT	RC	2-13-20	8:34	10	5-21	INV190707	-	10.10		(Pass) Fail
CAL	ICV	(CCV)	MAINT	RC	2-25-20	8:37	RC 4	6-21	INV190812	-	4.21		Pass (Fail)
(CAL)	ICV	CCV	MAINT	RC	2-25-20	8:40	7,4,10 /11-20	6-21 521	INV190541	INV190812	INV190707		Pass Fail
CAL	(ICV)	CCV	MAINT	RC	2-25-20	8:53	10	5-21	INV190707	-	10.03		(Pass) Fail
CAL	ICV	CCV	MAINT	tm	2.25.20	15:34	4.00	6.21	INV190812		4.00		(Pass) Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL	ICV	(CCV)	MAINT	RC	2-12-20	8:59	Zobells	2-18-20	INV200192	9.80	254.7		(Pass) Fail
CAL	ICV	(CCV)	MAINT	RC	2-13-20	8:39	Zobells	2-18-20	INV200192	9.06	254.5		(Pass) Fail
CAL	ICV	(CCV)	MAINT	DM	2.25.20	0907	Zobells	3-3-20	INV200229	18.51	236.2		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	2.25.20	15:53	Zobells	3.3.20	INV200229	12.28	2460		(Pass) Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL
Project: ROLLING HILLS SW + GW

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV (CCV) MAINT	tm	4.28.20	9:22		water	90729340	17.8	17.80	(Pass) Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	4.27.20	8:29	N	9.486	9.55	99.9	17.89	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	17:05	N	9.295	9.38	100.5	18.89	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.28.20	8:04	N	~~9.6~~ 9.53	9.60	100.7	17.93	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
(CAL) ICV CCV MAINT	tm	4.27.20	8:31	1000	6.21	INV190708			Pass Fail
CAL (ICV) CCV MAINT	tm	4.27.20	8:35	146.9	9.20	INV200264	19.14	151.6	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	17:09	1000	6.21	INV 190708	19.49	1003.6	(Pass) Fail
(CAL) ICV CCV MAINT	tm	4.28.20	8:10	1000	6.21	INV190708		~~150~~	Pass Fail
CAL (ICV) CCV MAINT	tm	4.28.20	8:25	146.9	9.20	INV200264	19.08	150.9	(Pass) Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	tm	4.27.20	8:44	4.00	8.21	INV200098	—	4.13	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	17:15	10.00	6.21	INV200099	—	10.17	(Pass) Fail
(CAL) ICV CCV MAINT	tm	4.27.20	17:31	4, 7, 10	8.21, 11.20, 6.21	INV-200098-190041-200099			Pass Fail
CAL (ICV) CCV MAINT	tm	4.28.20	8:56	4.00	8.21	INV200098	—	4.03	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	tm	4.27.20	8:56	ZoBell's	5.4.20	INV200310	18.78	227.5	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.27.20	18:17	ZoBell's	5.4.20	INV200310	10.81	242.6	(Pass) Fail
CAL ICV (CCV) MAINT	tm	4.28.20	9:01	ZoBell's	5.4.20	INV200310	14.07	236.7	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail

Notes: 4.27.20 ORP CCV mistakenly run after a 3-point pH CAL
4.28.20 - 8:00, barometric pressure = 30.10 in Hg = 764.5 mm Hg

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: SMARTROLL

Project: ROLLING HILLS GW

Method/Parameter	Analyst	MMDDYY	24 HH:MM						Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV (CCV) MAINT	tm	4.28.20	14:44		water	90729340	~~17.4~~ tm 17.5	17.54	(Pass) Fail
DEP SOP FT 1600 Turbidity *Meter ID:*	Initials	Date	Time	1° or 2° Standard	Standard Previous CV	Standard NTU	Standard ID	Meter NTU	± 5%
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Changed membrane?	Saturation mg/L	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	4.28.20	14:41	N		9.70	101.2	17.55	Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	tm	4.28.20	14:55	1000	6.21	INV190708	19.65	989.6	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	tm	4.28.20	14:56	10.00	6.21	INV2000099	-	10.07	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV (CCV) MAINT	tm	4.28.20	16:46	ZoBell's	5.4.20	INV2000310	9.53	243.5	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes: 4.28.20 – 14:41 barometric pressure = 30.03 in Hg = 762.8 mm Hg

Meter Calibrati. Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AQUATROLL s/n 532228
Project: 600
ROLLING HILLS GW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro Temp mm Hg	Water Temp °C	Saturation mg/L	Meter Baro mmHg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	5.19.20	8:38	29.78	17.9	9.45	765.69	9.50	99.51	17.94	(Pass) Fail
CAL ICV (CCV) MAINT	tm	5.19.20	16:32	29.73	18.2	9.37	765.69	9.50	100.30	18.30	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	tm	5.19.20	08:42	146.9	10.20	INV200311	19.66	143.61			(Pass) Fail
CAL ICV (CCV) MAINT	tm	5.19.20	16:39	10000	01.22	INV200144	~~1985~~ tm → 19.75	~~998.9~~ tm 1026.1			Pass Fail
CAL ICV CCV MAINT											(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	tm	5.19.20	08:46	4.00	08.21	INV200098	164.4	4.06			(Pass) Fail
CAL ICV (CCV) MAINT	tm	5.19.20	17:01	10.00	06.21	INV200099		10.25			Pass (Fail)
CAL ICV (CCV) MAINT	tm	5.19.20	17:25	7.00	11.20	INV190041	-17.6	7.19			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	tm	5.19.20	08:50	ZoBell's	5.19.20	INV200344	13.44	239.2			(Pass) Fail
CAL ICV CCV MAINT	tm	5.19.20	17:	ZoBell's	5.19.20	INV200344	13.45 →	~~237~~ tm 236.9			Pass Fail
CAL ICV CCV MAINT											(Pass) Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

5.19.20, AT600 10 pH bracket failed --- daily high pH was ~4, so pH 7 bracket used and just barely passed

Meter Calibrati.., Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: ROLLING HILLS GW

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				6.30.20							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	7.15.20	9:03	20.0	29.97	9.12	30.02	8.82	97.27	20.23	(Pass) Fail
(CAL)	ICV	CCV	MAINT	tm	7.15.20	9:06					8.85	97.22		Pass Fail
CAL	(ICV)	CCV	MAINT	tm	7.15.20	9:11	30.00	~~20.1~~ 19.9 tm	9.14	30.06	9.11	99.92	20.11	(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.15.20	13:54	29.98	20.1	9.10	30.02	9.08	100.01	20.20	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	tm	7.15.20	9:14	146.9	01.21	INV200456	21.94	140.32			(Pass) Fail
(CAL)	ICV	CCV	MAINT	tm	7.15.20	9:30	1000	01.22	INV200144	22.18	996.96			Pass Fail
CAL	(ICV)	CCV	MAINT	tm	7.15.20	9:40	146.9	01.21	INV200456	21.97	140.10			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.15.20	13:58	1000	01.22	INV200144	21.95	1005.3			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	7.15.20	9:42	4.00	08/21	INV200098	160.5mV	4.05			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.15.20	14:02	10.00	01.22	INV200394	-194.3	10.00			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	tm	7.15.20	9:52	ZoBell's	07/21/20	INV200455	11.44	251.7			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	7.15.20	14:06	ZoBell's	07.21.20	INV200455	11.44	250.1			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibrat. ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: KLONDIKE LF & ROLLING HILLS GW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				6.30.20								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:23	29.96	19.7	9.16	29.99	9.07	98.67	19.60		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	18:29	29.91	19.1	9.25	29.93	9.10	98.88	19.38		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:25	146.9	01.21	INV200456	21.16	141.85				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	18:38	1000	01.22	INV200144	21.26	1016.0				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:28	4.00	08.21	INV200098	158.2	4.08				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	18:40	10.00	01.22	INV200394	-196.2	10.03				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	tm	08.12.20	09:32	Z-Bell's	08.12.20	INV200555	14.15	244.5				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	08.12.20	18:43	Z-Bell's	08.12.20	INV200555	15.77	244.8				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrati. , Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: ROLLING HILLS GW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera	
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C	
CAL	ICV	CCV	MAINT				6.30.20								Pass	Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l	
CAL	ICV	(CCV)	MAINT	tm	11.19.20	08:39	30.40	18.2	9.58	30.43	9.63	100.65	18.29		(Pass)	Fail
CAL	ICV	(CCV)	MAINT	tm	11.19.20	13:25	30.32	18.5	9.49	30.36	9.52	100.58	18.65		(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%	
CAL	ICV	(CCV)	MAINT	tm	11.19.20	08:45	146.9	03.21	INV200683	19.98	142.21				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	tm	11.19.20	13:28	10000	01.22	INV200144	20.45	1014.9				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU	
CAL	ICV	(CCV)	MAINT	tm	11.19.20	08:50	7.00	06.22	INV200557	-19.9	7.08				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	tm	11.19.20	13:32	4.00	03.22	INV200556	153.1	4.06				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV	
CAL	ICV	(CCV)	MAINT	tm	11.19.20	08:55	ZoBell's	11.25.20	INV200803	11.22	250.2				(Pass)	Fail
CAL	ICV	(CCV)	MAINT	tm	11.19.20	13:36	ZoBell's	11.25.20	INV200803	10.81	250.5				(Pass)	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail
CAL	ICV	CCV	MAINT												Pass	Fail

Notes:

Meter Calibrat. /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: ROLLING HILLS GW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				6.30.20						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	12.21.20	09:18	30.11	18.5	9.43	30.15	9.39	99.30	18.42	(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.21.20	12:38	30.07	18.5	~~9.43~~ tm 9.41	30.10	9.43	100.01	18.46	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	tm	12.21.20	09:30	146.9	03.21	INV200683	19.67	140.66		(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.21.20	12:42	1000	01.22	INV200144	19:48	1010.8		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	tm	12.21.20	09:33	7.00	06.22	INV200557	-23.8	7.15		(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.21.20	12:46	4.00	03.22	INV200556	144.7	4.19		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	tm	12.21.20	09:35	ZoBell's	12.28.20	INV200927	19.77	233.1		(Pass) Fail
CAL ICV (CCV) MAINT	tm	12.21.20	12:51	ZoBell's	12.28.20	INV200927	13:97	241.7		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibra . ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: ROLLING HILLS GROUNDWATER

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				6.30.20						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	~~01.13.21~~	08:34	30.000	17.3	9.63	30.03	9.53	99.39	17.47	(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.14.21									Pass Fail
CAL ICV CCV MAINT	→	01.14.21	17:23	29.81	17.4	9.55	29.84	9.54	100.06	17.49	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	tm	01.14.21	08:37	146.9	03.21	INV 200683	18.38	141.75		(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.14.21	17:27	1000	01.22	INV200144	18.79	1002.3		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	tm	01.14.21	08:41	7.000	06.22	INV200557	-25.4	7.06		(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.14.21	17:40	4.000	03.22	INV200556	146.7	4.05		~~Pass~~ Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	tm	01.14.21	08:46	ZoBell's	01.20.21	INV210019	9.84	250.9		(Pass) Fail
CAL ICV (CCV) MAINT	tm	01.14.21	17:54	ZoBell's	01.20.21	INV210019	10.86	250.0		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT6000 537460
Project: ROLLING HILLS GW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV 6.30.20		Bath Type	NIST Thermometer S/N		NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT	7.16.20 tm											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	02.25.21	09:07	30.15	18.3	9.48	30.18	9.44	99.53	18.32		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.25.21	16:15	30.05	18.0	9.51	30.07	9.46	99.92	18.28		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	tm	02.25.21	09:11	146.9	07.21	INV2100052	19.26	141.52				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.25.21	16:19	1000	06.22	INV2000560	19.43	1006.1				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	02.25.21	09:19	4.00	07.22	INV2000833	142.7	4.12				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.25.21	16:25	10.00	06.22	INV2000558	-205.3	10.08				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	tm	02.25.21	09:23	ZoBell's	03.04.21	INV2100222	18.58	230.6				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	02.25.21	16:29	ZoBell's	03.04.21	INV2100222	11.55	243.2				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT6000 5374600
Project: ROLLING HILLS GROUNDWATER

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				6.30.20							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	03.24.21	08:30	29.92	18.7	9.33	29.95	9.17	98.42	18.73	(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.24.21	16:26	29.84	18.1	9.42	29.87	9.33	99.52	18.35	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	tm	03.24.21	08:33	146.9	08.21	INV2100223	19.77	142.98			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.24.21	16:30	10000	06.22	INV2000560	19.75	1019.2			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	03.24.21	08:36	4	07.22	INV2000133	140.0	3.98			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.24.21	16:33	10	12.22	INV2100368	-207.2	9.92			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	tm	03.24.21	08:39	ZoBell's	03.30.21	INV2100382	11.47	241.5			(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	03.24.21	16:36	ZoBell's	03.30.21	INV2100382	11.33	240.1			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibra. ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: ATG000 537460
Project: ROLLING HILLS CDD

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				6.30.20								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	tm	04.22.21	09:18	30.15	18.2	9.50	30.31	9.51	99.83	18.11		(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	04.22.21	14:41	30.09	18.0	9.52	30.11	9.36	99.44	18.48		Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	tm	04.22.21	~~09:19~~ 09:22	146.9	10.21	INV210431	~~18.09~~ 19.34	142.17				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	(CCV)	MAINT	tm	04.22.21	14:45	10000	02.23	INV210432	20.36	998.09				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	tm	04.22.21	09:25	4	07.22	INV2000833	136.3	4.05				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	04.22.21	14:49	10	12.22	INV210368	-215.7	10.06				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	tm	04.22.21	09:29	ZoBell's	04.28.21	INV210454	10.36	240.2				(Pass) Fail
CAL	ICV	(CCV)	MAINT	tm	04.22.21		ZoBell's	04.28.21	INV210454	10.76	237.8				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibrat. ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: ROLLING HILLS GW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N		NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT				6.30.20							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV CCV MAINT	tm	05.19.21	08:02	30.03	20.0	9.13	30.06	9.05	99.10	20.03	Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	15:01	30.03	19.8	9.17	30.05	9.14	99.92	19.90	Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV CCV MAINT	tm	05.19.21	08:14	146.9	11.21	INV210557	21.42	143.42			Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	15:08	1000	06.22	INV200560	21.75	1009.0			Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV CCV MAINT	tm	05.19.21	08:17	4	07.22	INV200833	167.9	3.51			Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	08:18	4/7/10	07.22/11.22/12.22	INV200833/INV210026/INV210368					Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	08:31	4	07.22	INV200833	176.5	3.93			Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	15:18	7	11.22	INV210026	-9.3	7.17			Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	15:25	10	06.22	INV200558	-186.2	10.20			Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV CCV MAINT	tm	05.19.21	09:33	ZoBell's	05.25.21	INV210566	15.65	276.6			Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	09:37	ZoBell's	05.25.21	INV210566	14.75	242.2			Pass Fail
CAL ICV CCV MAINT	tm	05.19.21	15:28	ZoBell's	05.25.21	INV210566	13.03	243.3			Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

- pH FAILED BECAUSE REF SOLN. WAS REFILLED — CORRECTIVE ACTION RECALIBRATION
- pH SENSOR (SN687083) REF SOLN ~~REPLA~~ tm REFILLED
  ↳ LOT #06F1025

Meter Calibrat.../Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT6000 537460
Project: ROLLING HILLS GW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				06.01.21						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	NW	06.23.21	08:32	29.97	19.1	9.28	30.23	9.36	100.91	19.46	(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.24.21	07:38	30.03	20.0	9.13	30.05	9.29	101.82	20.04	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	NW	06.23.21	08:43	146.9	12.21	INV210620	21.66	141.19			(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.24.21	07:48	1000	06.22	INV200560	21.44	1008.6			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	NW	06.23.21	08:49	4	07.22	INV200833	169.8	3.92			(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.24.21	08:14	7	06.22	~~INV200833~~ INV200557	-5.8	6.98			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	NW	06.23.21	09:00	ZOBELLS	06.29.21	INV210642	11.62	243.3			(Pass) Fail
CAL ICV (CCV) MAINT	tm	06.24.21	08:26	ZoBell's	06.29.21	INV210642	11.43	244.3			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibrat ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT 600 537460
Project: ROLLING HILLS GW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				06.01.21								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	NW	07.15.21	8:35	30.12	20.7	9.02	30.15	9.20	102.21	20.89		(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	07.15.21	17:02	30.01	20.7	8.99	29.34	9.02	104.62	21.62		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	NW	07.15.21	8:40	146.9	01.22	INV210698	22.88	140.80				(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	07.15.21	17:08	1000	02:23	INV210432	23.74	1004.5				Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	NW	07.15.21	8:49	4.0	01.23	INV210619	166.4	3.99				(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	07.15.21	17:19	7.0	06.22	INV200557	-21.9	7.26				Pass (Fail)
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	NW	07.15.21	8:57	ZOBELLS	07.20.21	INV210697	12.19	241.0				(Pass) Fail
CAL	ICV	(CCV)	MAINT	NW	07.15.21	17:25	ZOBELLS	07.20.21	INV210697	12.15	234.7				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibra[illegible]./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills GW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N		NIST Thermometer Temp °C	Meter Temp °C	± 0.5 °C
CAL ICV CCV MAINT				06.01.21							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV CCV MAINT	KP	8-17-21	9:00								Pass Fail
CAL ICV CCV MAINT	KP	8-17-21	9:05	29.89	20.9	8.93	29.93	8.94	100.59	21.09	Pass Fail
CAL ICV CCV MAINT	tm	8-17-21	16:14	29.86	20.7	8.95	29.91	8.67	99.59	21.73	Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV CCV MAINT	KP	8-17-21	9:15	146.9	1/2022	INV210776	22.70	152.32			Pass Fail
CAL ICV CCV MAINT	tm	8-17-21	16:18	1000	02.23	INV210432	22.32	997.91			Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV CCV MAINT	KP	8-17-21	9:20	4.0	1/2023	INV210619		~4.24			Pass Fail
CAL ICV CCV MAINT	KP	8-17-21	9:25	4/7/10	01/23/11/2022/12/2022	INV210619/INV210026/INV210368		4.25/7.21/10.21			Pass Fail
CAL ICV CCV MAINT	KP	8-17-21	9:50	4.0	1/2023	INV210619	>96.4/>76	-260.9			Pass Fail
CAL ICV CCV MAINT	tm	8.17.21	16:30	7	11.22	INV210026	>98.9	4.19			Pass Fail
CAL ICV CCV MAINT	tm	8-17-21	17:45	4/7/10	01.23/11.22/12.22	INV210619/210026/210368	-78.2	7.22			Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV CCV MAINT	KP	8-17-21	10:20	ZoBells	8/17/21	INV210800	11.48	237.3			Pass Fail
CAL ICV CCV MAINT	KP	8-17-21	10:30	ZoBells	8/17/21	INV210800	12.74	241.8			Pass Fail
CAL ICV CCV MAINT	tm	8-17-21	16:51	ZoBell's	8.24.21	INV210841	22.16	223.0			Pass Fail
CAL ICV CCV MAINT	tm	8-17-21	18:00	ZoBell's	8.24.21	INV210841					Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT4000 821852
Project: ROLLING HILLS GROUNDWATER

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT				06.01.21							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	JM	09.21.21	08:36	29.97	20.6	8.99	30.02	8.94	99.96	20.98	(Pass) Fail
CAL ICV (CCV) MAINT	KP	09.21.21	16:54	29.91	21.1	8.89	29.95	8.92	100.66	21.31	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	JM	09.21.21	08:41	146.9	02.22	INV2109000	22.27	145.46			(Pass) Fail
CAL ICV (CCV) MAINT	KP	09.21.21	16:56	146.9	02.22	INV2109000	22.75	147.40			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	JM	09.21.21	08:45	4	05.23	INV2108862	68.1	4.19			(Pass) Fail
(CAL) ICV CCV MAINT	JM	09.21.21	08:58	4/7/10	05.23/04.23/12.22	INV2108862/2108863/2103687					Pass Fail
CAL (ICV) CCV MAINT	JM	09.21.21	09:03	4	01.23	INV2106619	71.5	3.96			(Pass) Fail
CAL ICV (CCV) MAINT	KP	09.21.21	17:04	4.0 KP 7.0	04.23	INV2108863	-111.4	7.05			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
(CAL) ICV CCV MAINT	JM	09.21.21	09:09	Zo Bell's	09.27.21	INV2106619					Pass Fail
CAL (ICV) CCV MAINT	JM	09.21.21	09:13	Zo Bell's	09.27.21	INV2106619	13.98	245.0			(Pass) Fail
CAL ICV (CCV) MAINT	KP	09.21.21	17:10	Zo Bell's	09.27.21	INV2106619	11.80	253.2			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibrat... ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 521852
Project: Rolling Hills (GW)

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT				6.1.21							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	K.P.	11.03.21	8:46	30.13	20.0	9.15	30.18	9.10	99.58	20.11	(Pass) Fail
CAL ICV (CCV) MAINT	K.P.	11.03.21	15:44	30.03	20.0	9.12	30.07	9.06	99.96	20.33	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	K.P.	11.03.21	8:50	146.9	3.2022	INV210952	21.36	152.47			(Pass) Fail
CAL ICV (CCV) MAINT	K.P.	11.03.21	15:48	146.9	3.2022	INV210952	21.93	146.01			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	K.P.	11.03.21	8:51	4.0	5.2023	INV210862	46.4	4.16			(Pass) Fail
(CAL) ICV CCV MAINT	K.P.	11.03.21	9:03	4.0/7.0/10.0	(5.23)(4.23)(3.23)	(210862)(210863)(210864)					Pass Fail
CAL (ICV) CCV MAINT	K.P.	11.03.21	9:17	4.0	5.2023	INV210862	46.7	4.03			(Pass) Fail
CAL ICV (CCV) MAINT	K.P.	11.03.21	15:54	7.0	4.2023	INV210863	-133.3	7.10			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	K.P.	11.03.21	9:00	ZoBells	11.9.21	INV211013	11.27	258.2			(Pass) Fail
CAL ICV (CCV) MAINT	K.P.	11.03.21	16:00	ZoBells	11.9.21	INV211013	11.75	255.0			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibra[illegible]./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: FT 4000 821852
Project: AWQ - BPCP - EMC + CENTURY + Rolling Hills GW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT		06.01.21									Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (SCV) MAINT	KP	11.16.21	07:53	30.16	19.5	9.26	30.21	9.23	99.79	19.53	(Pass) Fail
CAL ICV (CCV) MAINT	K.P.	11.17.21	07:35	30.15	19.8	9.20	30.20	9.12	99.37	19.96	(Pass) Fail
CAL ICV (CCV) MAINT	K.P.	11.17.21	15:08	30.09	19.8	9.18	30.14	9.07	99.66	20.24	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	KP	11.16.21	08:00	146.9	03.22	INV210952	21.29	150.20			(Pass) Fail
CAL ICV (CCV) MAINT	KP	11.17.21	7:41	1,000	07.23	INV210764	21.23	982.85			(Pass) Fail
CAL ICV (CCV) MAINT	KP	11.17.21	15:14	146.9	03.22	INV210952	22.02	154.66			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	KP	11.16.21	08:04	4	03.23	INV210039	41.7	4.11			(Pass) Fail
CAL ICV (CCV) MAINT	KP	11.17.21	7:50	10.0	~~07.23~~	INV210564	-319.4	10.17			(Pass) Fail
(CAL) ICV CCV MAINT	KP	11/17/21	8:06	4/7/10	3/23, 4/23, 03.23 3/23	INV211039, INV210863, INV210864					Pass Fail
CAL (ICV) CCV MAINT	KP	11.17.21	8:20	4.0	3/23	INV211039	40.8	4.02			(Pass) Fail
CAL ICV (CCV) MAINT	KP	11.17.21	15:14	7.0	4.23	INV210863	-137.4	7.06			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	KP	11.17.21	7:51	Zobells	11.24.21	INV211044	17.93	224.7			(Pass) Fail
CAL ICV (CCV) MAINT	KP	11.17.21	15:31	Zobells	11.24.21	INV211044	11.86	249.6			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibra... ./Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 S21452
Project: Rolling Hills ~~SW~~ GW

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				06.01.21							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	RJL	12/8/21	0750	29.92	19.1	9.25	29.96	9.17	99.40	19.31	(Pass) Fail
CAL	ICV	~~CCV~~	MAINT	dm	12.08.21	1642	29.93	19.4	9.21	29.98	9.19	99.00	19.53	~~Pass~~ Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	RJL	12/8/21	0753	146.9	5/22	INV211045	20.79	149.11			(Pass) Fail
CAL	ICV	~~CCV~~	MAINT	dm	12.08.21	1647	1000	07.23	INV210904	20.46	1006.5			~~Pass~~ Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	RJL	12/8/21	0757	4	3.23	INV211039	33.0	3.99			(Pass) Fail
CAL	ICV	~~CCV~~	MAINT	dm	12.08.21	1657	7	04.23	INV210863	-145.9	7.06			~~Pass~~ Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
(CAL)	ICV	(CCV)	MAINT	RJL	12/8/21	0856	ZoBell's	12/15/21	INV211079					Pass Fail
CAL	(ICV)	CCV	MAINT	RJL	12/8/21	0859	ZoBells	12/15/21	INV211079	23.86	230.2			(Pass) Fail
CAL	ICV	(CCV)	MAINT	dm	12.08.21	1655	ZoBell's	12.15.21	INV210879	17.87	247.5			~~Pass~~ Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: Hendrick LF GW
ROLLING HILLS
Groundwater

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				06.01.21						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	tm	01.24.22	08:27	29.98	19.2	9.26	30.00	9.04	98.45	19.46	Pass Fail
CAL ICV (CCV) MAINT	tm	01.24.22	13:44	29.91	18.9	9.29	29.93	9.28	100.73	19.33	Pass Fail
~~CAL ICV (CCV) MAINT~~	~~KP~~	~~01.25.22~~	~~8:44~~	~~29.91~~	~~19.8~~	~~9.12~~	~~29.95~~	~~9.97~~	~~114.10~~	~~21.44~~	~~Pass Fail~~
~~(CAL) ICV CCV MAINT~~	~~KP~~	~~01.25.22~~	~~8:48~~								Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	tm	01.24.22	08:33	100	07.22	INV2200008	20.24	102.99		~~Pass~~ Fail
CAL ICV (CCV) MAINT	tm	01.24.22	13:10	100	07.22	INV2200008	20.44	102.47		Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	tm	01.24.22	08:37	7	04.23	~~INV2138~~ INV210863	-15.9	7.08		Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV (CCV) MAINT	tm	01.24.22	13:13	4	03.23	INV211039	148.5	4.18		~~Pass~~ Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	tm	01.24.22	08:40	ZoBell's	01.25.22	INV2200004	19.59	253.1		~~Pass~~ Fail
CAL ICV (CCV) MAINT	tm	01.24.22	13:15	ZoBell's	01.25.22	INV2200004	11.31	249.4		Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 37460
Project: RH GW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO / Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	KP	2/9/22	8:40	30.12	19.4	9.24	30.13	9.43	101.01 / 19.53	(Pass) Fail
CAL ICV (CCV) MAINT	KP	2/9/22	15:40	30.02	19.0	9.30	30.03	9.41	101.17 / 19.05	(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	KP	2/9/22	8:43	100.0	7-22	INV220090	19.98	100.29		(Pass) Fail
CAL ICV (CCV) MAINT	KP	2/9/22	15:41	1,000.0	7-23	INV210904	19.41	1001.20		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	KP	2/9/22	8:49	7.0	9-23	INV211105	-18.6	7.12		(Pass) Fail
CAL ICV (CCV) MAINT	KP	2/9/22	15:46	4.0	3-23	INV211039	148.6	4.18		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	KP	2/9/22	8:52	240Zells	2-15-22	INV220093	13.34	246.4		(Pass) Fail
CAL ICV (CCV) MAINT	KP	2/9/22	15:50	240Zells	2-15-22	INV220093	12.45	248.6		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibrat /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 S37460
Project: Rolling Hills GW

Method/Parameter	Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	KP	3/22/22	8:48	29.90	20.0	9.09	29.91	9.19	101.47	20.09	(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	16:56	29.76	20.8	8.90	29.77	9.03	101.70	20.9	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL ICV (CCV) MAINT	KP	3/22/22	8:52	100.0	9/2022	INV220189	21.35	98.40			(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	16:57	100.0	9/2022	INV220189	21.96	98.17			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL ICV (CCV) MAINT	KP	3/22/22	8:52	7.0	9/2023	INV211105		7.20			(Pass) Fail
(CAL) ICV CCV MAINT	KP	3/22/22	8:57	(4.0,7.0,10.0)							Pass Fail
CAL (ICV) CCV MAINT	KP	3/22/22	9:05	7.0	9/2023	INV211105	-19.7	7.03			(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	17:00	4.0	7/2023	INV211104	146.6	4.04			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL ICV (CCV) MAINT	KP	~~ZoBells~~	9:14	ZoBells	3/29/22	INV220210	19.87	~~233.4~~ 230.0			(Pass) Fail
CAL ICV (CCV) MAINT	KP	3/22/22	17:03	ZoBells	3/29/22	INV220210	11.20	~~245.6~~			(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills SW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				6.1.21						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO / Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ZP	4/20/22	8:40	30.14	19.1	9.33	30.12	9.31	100.48 / 19.34	(Pass) Fail
CAL ICV (CCV) MAINT	dm	4.20.22	1456	30.15	19.1	9.33	30.14	9.30	100.42 / 19.37	(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	ZP	4/20/22	8:41	100.0	2/2024	INV220208	20.35	98.01		(Pass) Fail
CAL ICV (CCV) MAINT	dm	4.20.22	1459	100	09.22	INV220189	20.04	100.63		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	ZP	4/20/22	8:45	7.0	INV211105	9/2023	-47.3	7.13		(Pass) Fail
CAL ICV (CCV) MAINT	dm	4.20.22	1503	4	INV211104	07.23	124.4	4.17		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	ZP	4/20/22	8:48	ZoBell's	4/26/22	INV220251	10.36	240.7		(Pass) Fail
CAL ICV (CCV) MAINT	dm	4.20.22	1506	ZoBell's	4.29.22	INV220257	11.19	237.2		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT400 821852
Project: Rolling Hills SW

06-27-23

Method/Parameter	Technician Initials	MMDDYY Date	24 HH:MM Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C	Acceptance Critera
DEP SOP FT 1400 *Temperature*									± 0.5 °C
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	9-11-23	9:51	29.98	20.6	9.01	29.94	9.06	99.96	20.07	(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-11-23	17:17	29.96	20.8	8.94	29.87	8.90	100.09	20.76	(Pass) Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail

DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm	± 5%
CAL ICV (CCV) MAINT	ME	9-11-23	9:54	100	04/2025	INV230396	20.25	103.73	(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-11-23	17:20	1,000	02/2025	INV230202	21.44	995.74	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU	± 0.2 SU
CAL ICV (CCV) MAINT	ME	9-11-23	9:59	7	02/2025	INV230200	-54.2	7.13	(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-11-23	17:33	4	03/2025	INV230409	121.4	4.16	(Pass) Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV	± 20 mV
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail
CAL ICV CCV MAINT									Pass Fail

Notes:

Meter Calibra /Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600 537460
Project: Rolling Hills NW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				06.02.2022						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL ICV CCV MAINT	ZP	6.15.22	8:05	29.98	20.5	9.03	30.00	9.23	102.3	20.67	Pass Fail
CAL ICV CCV MAINT	KP	6.15.22	15:30	29.97	20.4	9.04	29.97	~~10~~8.94	101.57	21.87	Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
CAL ICV CCV MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV CCV MAINT	ZP	6.15.22	~~807~~	100.0	3/2024	INV220272	21.63	96.46		Pass Fail
CAL ICV CCV MAINT	ZP	6.15.22	15:33	~~5019.99~~ 1,000	1/2024	INV220173	22.91	~~1146.1~~ KP 1,021.2		Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV CCV MAINT	ZP	6.15.22	8:17	7.0	12/2023	INV220274	-28.6	7.00		Pass Fail
CAL ICV CCV MAINT	KP	6.15.22	15:40	4.0	12/2023	INV220273	133.2	4.14		Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibra[illegible] Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 8218S2AT400
Project: RH GW

Method/Parameter				Technician	MMDDYY	24 HH:MM								Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C			± 0.5 °C
CAL	ICV	CCV	MAINT				06.02.2022							Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C	± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	~~KP~~ KP	7.13.22	8:53	29.98	21.0	8.94	30.01	8.94	100.65	21.27	(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7.13.22	16:40	~~29.96~~ 29.98 ~~29.94~~ 29.96	19.8	9.14	29.98	9.10	100.38	20.24	(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm			± 5%
CAL	ICV	(CCV)	MAINT	KP	7.13.22	8:55	100.0	3-2024	INV220272	21.89	101.09			(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7.13.22	16:42	100.0	3-2024	INV220272	21.59	98.46			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU			± 0.2 SU
CAL	ICV	(CCV)	MAINT	KP	7.13.22	9:00	7.0	12/2023	INV220274	-71.2	7.05			(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7.13.22	16:44	4.0	12/2023	INV220273	97.1	4.17			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV			± 20 mV
CAL	ICV	(CCV)	MAINT	KP	7.13.22	9:04	220Bells	7/19/22	INV220409	12.24	241.0			(Pass) Fail
CAL	ICV	(CCV)	MAINT	KP	7.13.22	16:48	220Bells	7/19/22	INV220409	11.96	238.0			(Pass) Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail
CAL	ICV	CCV	MAINT											Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: S37460 AT600
Project: Rolling Hills GW

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C				± 0.5 °C
CAL	ICV	CCV	MAINT				06.02.2022								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	KP	8.2.22	8:55	30.05	20.9	8.97	30.06	8.95	101.04	21.41		(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:02	30.06	21.1	8.94	30.07	9.09	102.1	21.2		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	KP	8.2.22	8:56	100	3/2024	INV220272	22.96	97.94				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:04	100	3/2024	INV220272	22.4	97.15				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	KP	8.2.22	9:00	7.0	12/2023	INV220274	-34.6	7.11				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:07	4	12/2023	INV220273	129.7	4.19				(Pass) Fail
(CAL)	ICV	CCV	MAINT	ME	8-2-22	15:13	4,7,10	12/2023 → 12/2023 → 6/2023	INV220273 INV220274 INV211006						Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	(ICV)	CCV	MAINT	ME	8-2-22	15:24	4	12/2023	INV220273	134.9	3.93				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	KP	8.2.22	9:01	ZoBells	8/9/2022	INV220444	20.80	217.9				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	8-2-22	15:27	ZoBells	8/9/2022	INV220444	12.89	229.4				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: AT600
Project: Maintenance

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO / Meter Temp °C	± 0.3 mg/l
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
(CAL) ICV CCV MAINT	ME	9-1-22	ME ~~4:30~~ 16:36	4	06/2023	INV220348				Pass Fail
CAL ICV CCV MAINT			16:39	7	06/2023	INV220349				Pass Fail
CAL ICV CCV MAINT			16:42	10	02/2024	INV220350				Pass Fail
CAL (ICV) CCV MAINT	ME	9-1-22	16:46	7	06/2023	INV220349	7.4	7.03		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
(CAL) ICV CCV MAINT	ME	9-1-22	16:59	ZoBells	9/6/2022	INV220539				Pass Fail
CAL (ICV) CCV MAINT	ME	9-1-22	17:05	ZoBells	9/6/2022	INV220539	13.85	244.9		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 537460 AT600
Project: USDA + Rolling Hills GW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				06-02-22						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO / Temp °C	± 0.3 mg/l
CAL ICV (CCV) MAINT	ME	9-19-22	8:59	29.98	20.1	9.10	30.00	ME ~~8.82~~	98.07 / 20.62	Pass Fail
CAL ICV (CCV) MAINT	ME	9-20-22	8:57	29.96	20.2	9.08	29.99	8.92	8.98 / 99.23 / 20.37	Pass Fail
CAL ICV (CCV) MAINT	ME	9-20-22	14:10	29.91	20.2	9.05	29.92	8.96	99.89 / 20.53	Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV (CCV) MAINT	ME	9-19-22	9:04	100	03/2024	INV220272	21.87	97.00		Pass Fail
CAL ICV (CCV) MAINT	ME	9-20-22	8:59	1,000	01/2024	INV220173	22.01	1,040.4		Pass Fail
CAL ICV (CCV) MAINT	ME	9-20-22	ME ~~2:14~~ 14:14	1,000	01/2024	INV220173	22.07	1,043.1		Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV (CCV) MAINT	ME	9-19-22	9:06	7	06/2023	INV220349	-0.4	7.17		Pass Fail
CAL ICV (CCV) MAINT	ME	9-20-22	9:01	4	06/2023	INV220348	166.8	4.21		Pass (Fail)
(CAL) ICV CCV MAINT	ME	9-20-22	9:04	4	06/2023	INV220348				Pass Fail
CAL (ICV) CCV MAINT	ME	9-20-22	9:08	4	06/2023	INV220348	169.2	3.98		(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-20-22	14:17	10	02/2024	INV220350	-197.9	10.22		Pass (Fail)
(CAL) ICV CCV MAINT	ME	9-20-22	14:19	4	06/2023	INV220348				Pass Fail
(CAL) ICV CCV MAINT	ME	9-20-22	14:21	7	06/2023	INV220349				Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV (CCV) MAINT	ME	9-20-22	9:09	20Bells	9-27-22	INV220573	20.24	226.9		(Pass) Fail
CAL ICV (CCV) MAINT	ME	9-20-22	14:29	20Bells	9-27-22	INV220573	12.95	232.3		(Pass) Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

(CAL)	ICV	CCV	ME	9-20-22	14:24	10	02/2024	INV220350	Pass Fail
CAL	(ICV)	CCV	ME	9-20-22	14:27	10	02/2024	INV220350	22.03 / 10.04 (Pass) Fail

Meter Calibrat. Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: 738999 AT 500
Project: ~~RH-Sw~~ RH-GW
ME

Method/Parameter				Technician	MMDDYY	24 HH:MM									Acceptance Critera
DEP SOP FT 1400 *Temperature*				Initials	Date	Time	Previous CV		Bath Type	NIST Thermometer S/N		NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL	ICV	CCV	MAINT				06-02-22								Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*				Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO	Meter Temp °C		± 0.3 mg/l
CAL	ICV	(CCV)	MAINT	ME	02-07-23	8:24	30.14	20.2	9.13	30.15	9.06	99.55	20.32		(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	15:16	30.11	20.0	8 9.15 ME	30.12	9.14	100.68	20.38		(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1200 *Specific Conductance*				Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm				± 5%
CAL	ICV	(CCV)	MAINT	ME	02-07-23	8:27	100	03/2024	INV220272	20.50	100.0				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	15:19	1,080	01/2024	INV220173	20.53	1063.9				Pass (Fail)
(CAL)	ICV	CCV	MAINT	ME	02-07-23	15:22	1,000	01/2024	INV220173						Pass Fail
CAL	(ICV)	CCV	MAINT	ME	02-07-23	15:32	1,000	01/2024	INV220173	20.33	1000.0				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1100 *pH*				Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU				± 0.2 SU
CAL	ICV	(CCV)	MAINT	ME	02-07-23	8:30	7	06/2023	INV220349	-33.8	7.04				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	15:27	4	06/2023	INV220348	130.5	4.22				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
DEP SOP FT 1000 *ORP*				Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV				± 20 mV
CAL	ICV	(CCV)	MAINT	ME	02-07-23	8:32	ZoBells	2/7/23	INV230051	7.58	238.1				(Pass) Fail
CAL	ICV	(CCV)	MAINT	ME	02-07-23	15:30	ZoBells	2/7/23	INV230051	8.69	234.1				(Pass) Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail
CAL	ICV	CCV	MAINT												Pass Fail

Notes: Post CCV ~~RDO~~ Specific Con. ~~1~~ ~~Sol.~~ Failed. Calibration completed @ 15:22. J Code for data,
ME ME
- old 1,000 Con. standard may be to blame (low amount in jug)
- new 1,000 Con. standard started

Conductivity actually passed. → Accidently calibrated RDO Con. instead of Specific Conductivity

(02-08-23)

Meter Calibration/Verification Logsheet
(FDEP SOP FT 1000-FT 1600, FD 1000-FD 4000)

Meter ID: ~~A1500~~ 738999
Project: Rolling Hills GW

Method/Parameter	Technician	MMDDYY	24 HH:MM							Acceptance Critera
DEP SOP FT 1400 *Temperature*	Initials	Date	Time	Previous CV	Bath Type	NIST Thermometer S/N	NIST Thermometer Temp °C	Meter Temp °C		± 0.5 °C
CAL ICV CCV MAINT				6.27.23						Pass Fail
DEP SOP FT 1500 *Dissolved Oxygen*	Initials	Date	Time	Baro in Hg	Water Temp °C	Saturation mg/L	Meter Baro in Hg	Meter DO mg/L	Meter % DO / Temp °C	± 0.3 mg/l
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	0909	29.91	22.4	8.67	29.92	8.36	96.48 / 22.47	Pass ~~Fail~~
~~CAL~~ ICV CCV MAINT	fm	8.23.23	0910					8.69	99.26	Pass Fail
CAL ~~ICV~~ CCV MAINT	fm	8.23.23	0915	29.91	22.3	8.69	29.92	8.67	99.91 / 22.44	~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	1757	29.84	21.6	8.79	29.84	8.99	102.77 / 21.85	~~Pass~~ Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1200 *Specific Conductance*	Initials	Date	Time	Standard µmhos/cm	Standard Expiration	Standard ID	Meter Temp °C	Meter µmhos/cm		± 5%
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	0920	100	4.25	INV220396	22.99	96.19		~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	1759	100	4.25	INV220396	22.50	95.90		~~Pass~~ Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1100 *pH*	Initials	Date	Time	Standard SU	Standard Expiration	Standard ID	Meter pH mV	Meter SU		± 0.2 SU
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	0921	7	2.25	INV230200	-53.9	7.09		~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	1800	4	11.24	INV230201	-118.2	4.17		~~Pass~~ Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
DEP SOP FT 1000 *ORP*	Initials	Date	Time	Standard mV	Standard Expiration	Standard ID	Meter Temp °C	Meter mV		± 20 mV
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	0922	ZoBell's	8.30.23	INV230522	17.66	234.2		~~Pass~~ Fail
CAL ICV ~~CCV~~ MAINT	fm	8.23.23	1803	ZoBell's	8.30.23	INV230522	8.87	242.0		~~Pass~~ Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail
CAL ICV CCV MAINT										Pass Fail

Notes:

Appendix 11

Summary of Data Provided as Electronic Files

No.	Monitoring Program	File Name	Electronic Format	Period	Description
1	Outdoor Air Quality - Hydrogen Sulfide, etc.	All H2S Data (Filtered).xlsx	Microsoft Excel	9/2014 - 6/2021	File contains results collected from four separate fixed, continuous monitoring stations located around the former Rolling Hills C&DD facility. Data collected on 30-minute intervals. Dataset includes H_2S concentrations and sensor temperature at all stations with the addition of meteorological data (wind speed, wind direction, & air temperature) for the station located at the Wedgewood Community Center. Dataset is filtered to remove known errors and is separated in tabs by station.
2	Outdoor Air Quality - Hydrogen Sulfide, etc.	Station #1 - Wedgewood CC (Unfiltered).xlsx	Microsoft Excel	9/2014 - 6/2021	File contains results collected from fixed, continuous monitoring station located at the Wedgewood Community Center. Dataset includes H_2S concentrations, sensor temperature, wind speed, wind direction, and air temperature. Data collected on 30-minute intervals. Dataset includes all raw data (unfiltered).
3	Outdoor Air Quality - Hydrogen Sulfide, etc.	Station #2 - 6964 Rolling Hills Road (Unfiltered).xlsx	Microsoft Excel	8/2015 - 6/2021	File contains results collected from fixed, continuous monitoring station located at 6964 Rolling Hills Road. Dataset includes H_2S concentrations and sensor temperature. Data collected on 30-minute intervals. Dataset includes all raw data (unfiltered).
4	Outdoor Air Quality - Hydrogen Sulfide, etc.	Station #3 - 901W Pinestead Road (Unfiltered).xlsx	Microsoft Excel	9/2015 - 6/2021	File contains results collected from fixed, continuous monitoring station located at 901 Pinestead Road. Dataset includes H_2S concentrations and sensor temperature. Data collected on 30-minute intervals. Dataset includes all raw data (unfiltered).
5	Outdoor Air Quality - Hydrogen Sulfide, etc.	Station #4 - Little Zion Church (Unfiltered).xlsx	Microsoft Excel	10/2015 - 6/2021	File contains results collected from fixed, continuous monitoring station located at 6760 Rolling Hills Road. Dataset includes H_2S concentrations and sensor temperature. Data collected on 30-minute intervals. Dataset includes all raw data (unfiltered).
6	Outdoor Air Quality - Particulates	Rolling Hills Area Particulate Monitoirng.xlsx	Microsoft Excel	5/2016 - 6/2021	File contains results collected from two county-permitted recycling facilities located within the Rolling Hills area. Dataset includes particulate fractions measured as PM_1, $PM_{2.5}$, PM_{Resp}, PM_{10}, and PM_{total}. Meteorological data (relative humidity, wind speed, & wind direction) and QC information is also included. Data generally collected twice per quarter. Dataset is separated in tabs by station.
7	Surface Water & Groundwater	Surface Water & Groundwater Compiled Datasets.xlsx	Microsoft Excel	3/2019 - 6/2021	File contains all surface water and groundwater results used to produce figures and tables for this report including both field and laboratory results. Dataset is separated in tabs by monitoring program.
8	Surface Water & Groundwater	Rolling Hills Data Table 190325 Signed.xlsx	Microsoft Excel	3/2019	Files contain raw surface water and ground water data (field & laboratory results) generated by Escambia County Field Operations, Escambia County Water Quality Laboratory, Pace Analytical Services, LLC, and Eurofins TestAmerica. Datasets are separated in tabs by data source.
		Rolling Hills Data Table 190424 Signed.xlsx	Microsoft Excel	4/2019	
		Rolling Hills Data Table 190520 Signed.xlsx	Microsoft Excel	5/2019	
		Rolling Hills Data Table 190611 Signed.xlsx	Microsoft Excel	6/2019	
		Rolling Hills Data Table 190723 Signed.xlsx	Microsoft Excel	7/2019	
		Rolling Hills Data Table 190813 Signed.xlsx	Microsoft Excel	8/2019	
		Rolling Hills Data Table 190918 Signed.xlsx	Microsoft Excel	9/2019	
		Rolling Hills Data Table 191022 Signed.xlsx	Microsoft Excel	10/2019	

No.	Monitoring Program	File Name	Electronic Format	Period	Description
8	Surface Water & Groundwater	Rolling Hills Data Table 191112 Signed.xlsx	Microsoft Excel	11/2019	Files contain raw surface water and ground water data (field & laboratory results) generated by Escambia County Field Operations, Escambia County Water Quality Laboratory, Pace Analytical Services, LLC, and Eurofins TestAmerica. Datasets are separated in tabs by data source.
		Rolling Hills Data Table 191217 Signed.xlsx	Microsoft Excel	12/2019	
		Rolling Hills Data Table 200121 R CD080421.xlsx	Microsoft Excel	1/2020	
		Rolling Hills Data Table 200211 R CD080421.xlsx	Microsoft Excel	2/2020	
		Rolling Hills Data Table 200318 R CD080521.xlsx	Microsoft Excel	3/2020	
		Rolling Hills Data Table 200427 R CD081021.xlsx	Microsoft Excel	4/2020	
		Rolling Hills Data Table 200519 R CD081121.xlsx	Microsoft Excel	5/2020	
		Rolling Hills Data Table 200615 R CD081221.xlsx	Microsoft Excel	6/2020	
		Rolling Hills Data Table 200714 R CD082421.xlsx	Microsoft Excel	7/2020	
		Rolling Hills Data Table 200812 R CD083121.xlsx	Microsoft Excel	8/2020	
		Rolling Hills Data Table 200930 R CD083121.xlsx	Microsoft Excel	9/2020	
		Rolling Hills Data Table 201021 R CD083121.xlsx	Microsoft Excel	10/2020	
		Rolling Hills Data Table 201110 R CD090121.xlsx	Microsoft Excel	11/2020	
		Rolling Hills Data Table 201209 R CD090121.xlsx	Microsoft Excel	12/2020	
		Rolling Hills Data Table 210113 R CD090121.xlsx	Microsoft Excel	1/2021	
		Rolling Hills Data Table 210215 R CD090221.xlsx	Microsoft Excel	2/2021	
		Rolling Hills Data Table 210323 R CD090221.xlsx	Microsoft Excel	3/2021	
		Rolling Hills Data Table 210421 R CD111721.xlsx	Microsoft Excel	4/2021	
		Rolling Hills Data Table 210518 R CD111821.xlsx	Microsoft Excel	5/2021	
		Rolling Hills Data Table 210622 R CD111821.xlsx	Microsoft Excel	6/2021	
9	Surface Water	RH 200121 SW 35525665_frc.pdf	Adobe PDF	1/2020	Files contain analytical reports generated by Pace Analytical Services, LLC for select surface water parameters (volatiles, metals, etc.).
		RH 200211 SW 35530250_frc.pdf	Adobe PDF	2/2020	
		RH 200318 SW 35538377_frc.pdf	Adobe PDF	3/2020	
		RH 200427 SW 35546093_frc.pdf	Adobe PDF	4/2020	
		RH 200428 SW 35546362_frc.pdf	Adobe PDF	4/2020	
		RH 200519 SW 35551145_frc_rev1.pdf	Adobe PDF	5/2020	
		RH 200615 SW 35556632_frc.pdf	Adobe PDF	6/2020	
		RH 200714 SW 35563039_frc.pdf	Adobe PDF	7/2020	
		RH 200812 SW 35570140_frc.pdf	Adobe PDF	8/2020	
		RH 200930 SW 35581508_frc.pdf	Adobe PDF	9/2020	
		RH 201021 SW 35586673_frc.pdf	Adobe PDF	10/2020	
		RH 201110_SW 35591241_frc.pdf	Adobe PDF	11/2020	
		RH 201110 SW EB Narrative.pdf	Adobe PDF	11/2020	
		RH 201209 SW 35597897_frc.pdf	Adobe PDF	12/2020	
		RH 210113 SW 35604616_frc.pdf	Adobe PDF	1/2021	
		RH 210224 SW 35614593_frc.pdf	Adobe PDF	2/2021	
10	Surface Water	RH SW J167773-1 UDS Level 2 Report Final Report 032519.pdf	Adobe PDF	3/2019	Files contain analytical reports generated by Eurofins TestAmerica for select surface water parameters (volatiles, metals, etc.).
		RH SW J169248-1 UDS Level 2 Report Final Report 042419.pdf	Adobe PDF	4/2019	
		RH SW J170473-1 UDS Level 2 Report Final Report 052019.pdf	Adobe PDF	5/2019	
		RH SW J171458-1 UDS Level 2 Report Final Report 061119.pdf	Adobe PDF	6/2019	
		RH SW J173557-1 UDS Level 2 Report Final Report 072319.pdf	Adobe PDF	7/2019	
		RH SW J174616-1 UDS Level 2 Report Final Report 081319.pdf	Adobe PDF	8/2019	
		RH SW J176536-1 UDS Level 2 Report Final Report 091819.pdf	Adobe PDF	9/2019	
		RH SW J178377-1 UDS Level 2 Report Final Report 102219.pdf	Adobe PDF	10/2019	
		RH SW J179454-1 UDS Level 2 Report Final Report 111219.pdf	Adobe PDF	11/2019	
		RH SW J181440-1 UDS Level 2 Report Final Report 121719.pdf	Adobe PDF	12/2019	
		RH SW J204679-1 UDS Level 2 Report Final Report Metals Sub 071420.pdf	Adobe PDF	7/2020	
		RH SW J204679-1 UDS Level 2 Report Rev(1) Final Report Metals Sub 071420.pdf	Adobe PDF	7/2020	
		RH SW J204676-1 UDS Level 2 Report Final Report Metals Sub 081220.pdf	Adobe PDF	8/2020	
		RH SW J204676-1 UDS Level 2 Report Rev(1) Final Report Metals Sub 081220.pdf	Adobe PDF	8/2020	
		RH SW J202135-1 UDS Level 2 Report Final Report Metals Sub 102120.pdf	Adobe PDF	10/2020	
		RH SW J202135-2 UDS Level 2 Report Rev(1) Final Report V Metals Sub 102120.pdf	Adobe PDF	10/2020	

No.	Monitoring Program	File Name	Electronic Format	Period	Description
10	Surface Water	RH SW J202134-1 UDS Level 2 Report Final Report 111920.pdf	Adobe PDF	11/2020	Files contain analytical reports generated by Eurofins TestAmerica for select surface water parameters (volatiles, metals, etc.).
		RH SW J202136-1 UDS Level 2 Report Final Report 111020.pdf	Adobe PDF	11/2020	
		RH SW J202138-1 UDS Level 2 Report Final Report 120920.pdf	Adobe PDF	12/2020	
		RH SW J204675-1 UDS Level 2 Report Final Report Metals Sub 011321.pdf	Adobe PDF	1/2021	
		RH SW J204675-1 UDS Level 2 Report Rev(1) Final Report Metals Sub 011231.pdf	Adobe PDF	1/2021	
		RH SW J204678-1 UDS Level 2 Report Final Report Metals Sub 022421.pdf	Adobe PDF	2/2021	
		RH SW J204678-1 UDS Level 2 Report Rev(1) Final Report Metals Sub 022421.pdf	Adobe PDF	2/2021	
		RH SW J201016-1 UDS Level 2 Report Final Report 032321.pdf	Adobe PDF	3/2021	
		RH SW J204677-1 UDS Level 2 Report Final Report Metals Sub 032321.pdf	Adobe PDF	3/2021	
		RH SW J204677-1 UDS Level 2 Report Rev(1) Final Report Metals Sub 032321.pdf	Adobe PDF	3/2021	
		RH SW J202386-1 UDS Level 2 Report Final Report 042121.pdf	Adobe PDF	4/2021	
		RH SW J203552-1 UDS Level 2 Report Final Report 051821.pdf	Adobe PDF	5/2021	
		RH SW J204983-1 UDS Level 2 Report Final Report 062221.pdf	Adobe PDF	6/2021	
11	Groundwater	RH 200129 GW 35527399_frc.pdf	Adobe PDF	1/2020	Files contain analytical reports generated by Pace Analytical Services, LLC for select groundwater parameters (volatiles, metals, etc.).
		RH 200212 GW 35530732_frc.pdf	Adobe PDF	2/2020	
		RH 200319 GW 35538777_frc.pdf	Adobe PDF	3/2020	
		RH 200428 GW 35546470_frc.pdf	Adobe PDF	4/2020	
		RH 200519 GW 35551298_frc.pdf	Adobe PDF	5/2020	
		RH 200616 GW 35557156_frc.pdf	Adobe PDF	6/2020	
		RH 200715 GW 35563676_frc.pdf	Adobe PDF	7/2020	
		RH 200715 GW 35563676_frc_rev1.pdf	Adobe PDF	7/2020	
		RH 200812 GW 35570359_frc.pdf	Adobe PDF	8/2020	
		RH 201119 GW 35594012_frc.pdf	Adobe PDF	11/2020	
		RH 201221 GW 35600578_frc.pdf	Adobe PDF	12/2020	
		RH 210114 GW 35605070_frc.pdf	Adobe PDF	1/2021	
		RH 210225 GW 35615147_frc.pdf	Adobe PDF	2/2021	
12	Groundwater	RH GW J204680-1 UDS Level 2 Report Rev(1) Final Report Boron.pdf	Adobe PDF	5/2020 - 3/2021	Files contain analytical reports generated by Eurofins TestAmerica for select groundwater parameters (volatiles, metals, etc.).
		RH GW J204680-1 UDS Level 2 Report Final Report Metals Sub 072020_032421.pdf	Adobe PDF	7/2020 - 3/2021	
		RH GW J201036-1 UDS Level 2 Report Final Report 032421.pdf	Adobe PDF	3/2021	
		RH GW J202422-1 UDS Level 2 Report Final Report 042221.pdf	Adobe PDF	4/2021	
		RH GW J203601-1 UDS Level 2 Report Final Report 051921.pdf	Adobe PDF	5/2021	
		RH GW J205017-1 UDS Level 2 Report Final Report 062321.pdf	Adobe PDF	6/2021	