Effluent Quality Assessment of Mazak Limerock Mine Sumter County NPDES # FL0322890 Sampled February 27, 2023

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
April 2023

DEP Laboratory, Biology Program
2600 Blair Stone Road, MS 6515
Tallahassee, FL 32399-2400
www.floridadep.gov

Contents

Summary of Results....3
Facility Overview....3
Methods....3
Results....5
Literature Cited....7
Appendix A. Facility Summary....13
Appendix B. Explanations of Measurements....20
Appendix C. Chain of Custody....22
Appendix D. Chemical Analysis of Effluent....23

List of Tables

Table 1. Measured field parameters.... 8
Table 2. Analytical water chemistry, and toxicological data.... 9
Table 3. Analytical metals data.... 10
Table 4. Algal Growth Potential (AGP).... 11
Table 5. Detected Organic Constituents.... 12

List of Figures

Figure 1. Map of Facility and Discharge Location.... 4

Summary of Results

All analytes measured in the effluent grab sample complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits. The nutrient and algal growth potential (AGP) results do not suggest a potential for nutrient enrichment of the receiving waters. There were two organic constituents detected in the effluent grab sample.

Facility Overview

The Mazak Limerock Mine Facility is limerock mining operation that generates industrial wastewater. A Facility Summary, including a description of the facility, summary of permit limits, and any relevant Administrative Order (AO), Consent Order (CO), and Discharge Monitoring Report (DMR) information is provided in Appendix A. The effluent is intermittently discharged into a transfer ditch and then to Jumper Creek, a Class III Fresh Water [waterbody identification (WBID) #1360] (Figure 1).

The Jumper Creek falls within the Peninsular Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). For this region, the NNC, expressed as annual geometric means, are 0.12 mg/L total phosphorus and 1.54 mg/L total nitrogen (Paragraph 62-302.531(2)(c), F.A.C.). Jumper Creek falls within the Peninsula bioregion; the daily average dissolved oxygen (DO) saturation shall not be below 38 percent in more than 10 percent of the values (Paragraph 62-302.533(1)(a), F.A.C.). This FYI event only provides single sample results. It should be noted that waterbody impairment assessments are based on longer-term data, and individual exceedances of a criterion do not indicate use impairment. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

Methods

Effluent grab samples were collected from monitoring site location EFF-2, for outfall D-002 on February 27, 2023.

Samples were collected by Phil Kane and Hannah VanBuren (Central District). Analyses were performed by the DEP Laboratory in Tallahassee.

All field and laboratory methods followed DEP Standard Operating Procedures (see https://floridadep.gov/dear/quality-assurance/content/dep-sops and https://floridadep.gov/dear/florida-dep-laboratory/content/dep-laboratory-quality-assurance-manual-and-sops for details) and met DEP quality assurance/quality control standards (see https://floridadep.gov/dear/quality-assurance). Explanations of specific methods and measurements can be found in Appendix B.

Class III Water Quality Criteria for Fresh and Marine Waters are found in Chapter 62-302, F.A.C. All references to Rule 62-302.530, F.A.C. are to the surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

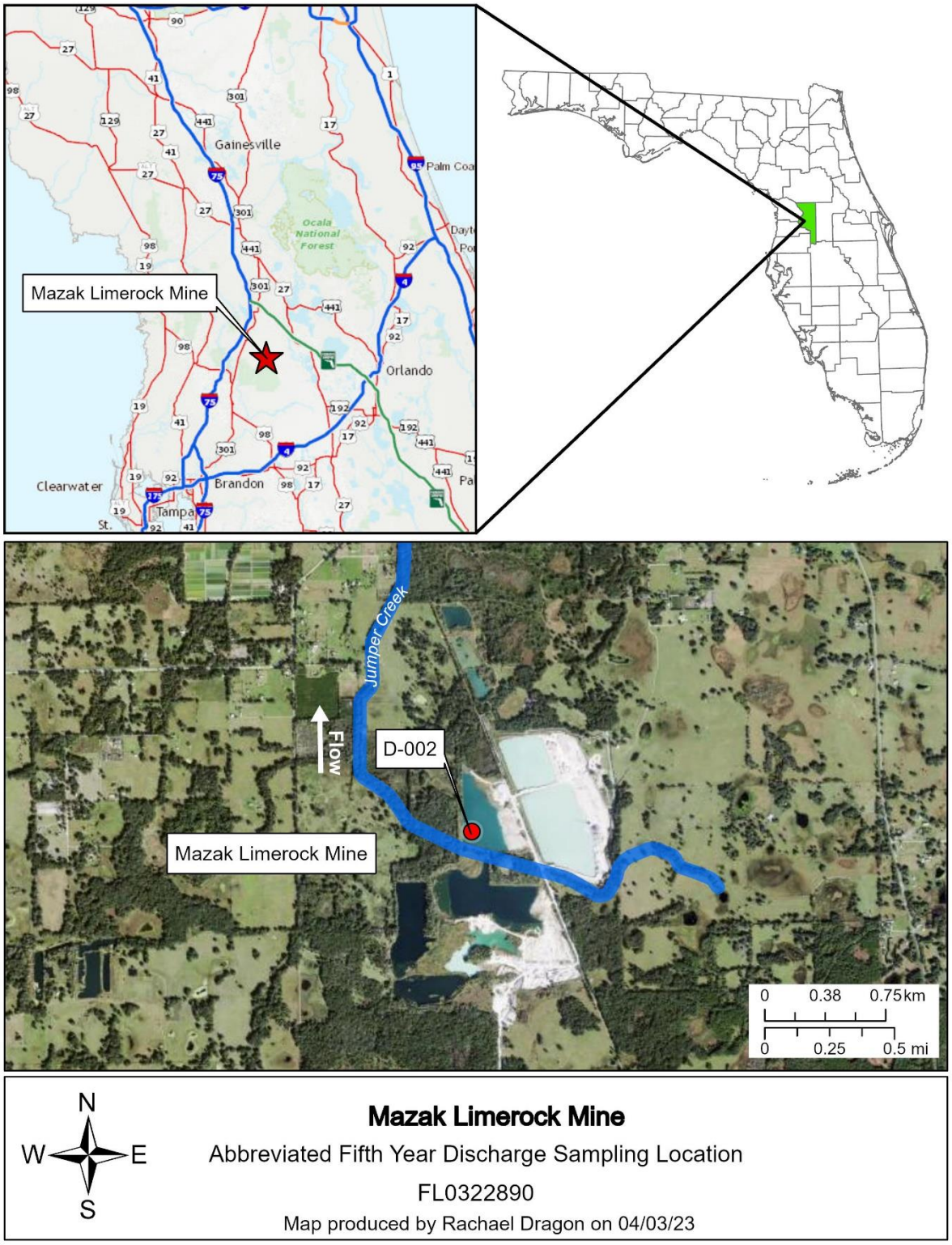


Figure 1. Map of Facility and Discharge Location

Results

Physical and Chemical Parameters (See Table 1 and Appendices C & D)

- All effluent water quality parameters complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

Analytical Water Chemistry (See Table 2 and Appendix D)

- All water chemistry analytes detected in the effluent grab sample complied with Class III Water Quality Criteria for Fresh Waters and effluent permit limits.

Toxicity Whole Effluent Test (See Table 2)

- Tests were performed February 28 through March 4, 2023.

- Acute bioassay results are reported as the Concentration Lethal to 50% of the test organisms (LC50).

- For the 96-hour acute definitive test, the calculated LC50 for the water flea, *Ceriodaphnia dubia*, was >100% effluent with 5% mortality in 100% sample. The calculated LC50 for the fish, *Cyprinella leedsi*, was >100% effluent with 15% mortality in 100% sample. The effluent sample was not toxic to either test species during the 96-hour acute definitive bioassays and therefore, complied with effluent permit limits.

- For more information or to obtain copies of the toxicity bench sheets, please contact the Biology Laboratory at 850-245-8177.

Metals (See Table 3 and Appendix D)

- Effluent metals complied with Class III Water Quality Criteria for Fresh Waters. There are no effluent permit limits for metals.

- Copper and nickel were detected in the field blank.

Algal Growth Potential (See Table 4 and Appendix B)

- The freshwater unicellular green alga, *Pseudokirchneriella subcapitata*, was used to determine the AGP values in the effluent grab sample. The measured AGP was undetected in the effluent grab sample. The analytical chemistry suggests that the effluent is ortho-phosphate limited.

- Differences greater than an order of magnitude between actual and predicted AGP values are considered sufficient evidence to warrant follow up testing with the algal growth inhibition bioassay. True algal growth inhibition can only be determined by performing an actual algal growth inhibition test. Should algal growth inhibition be suspected, the district should request that the algal growth inhibition test be performed as a follow-up to the inspection.

Organic Constituents (See Table 5 and Appendix D)

- Atrazine, an herbicide, and pyridaben, an insecticide, were detected in the effluent grab sample.

- There are no effluent permit limits for organic constituents.

Literature Cited

Miller, W. E., Maloney, T. E. and Greene, J. C. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA600/978-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Stevenson, R. J. and Bahls, L. L. 1999. Periphyton protocols. Pp. 6.1-6.22 in: Rapid bioassessment protocols for use in wadeable streams and rivers. 2nd edition. By: M. T. Barbour, J. Gerritsen, B. D. Snyder and J. B. Stribling. EPA 841-B-99-002. U. S. Environmental Protection Agency, Office of Water, Washington, D. C.

USEPA. 2000. Nutrient Criteria Technical Guidance Manual – River and Streams. EPA-822-B-00-002.

Table 1. Measured field parameters

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFF-2
Temperature	C	-	Report	22.1
pH	SU	6.0 - 8.5	6.0 - 8.5	7.2
Specific Conductance	µmhos/cm	≤ 1,275	≤ 1,275	239
Salinity	ppth	-	-	0.1 c
Dissolved Oxygen	% saturation	≥ 38	-	82.6
Dissolved Oxygen	mg/L	-	≥ 5.0	7.2

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated

Table 2. Analytical water chemistry, and toxicological data

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical water chemistry and toxicological data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFF-2
Ortho-phosphate	mg P/L	-	-	0.011
Total Phosphorus	mg P/L	≤ 0.12 g	Report	0.023
Total Ammonia Nitrogen	mg N/L	≤ 3.76 s	-	0.050
Un-ionized Ammonia (calculated salinity)	mg N/L	-	-	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	0.056
Total Kjeldahl Nitrogen	mg N/L	-	-	0.41
Organic Nitrogen	mg N/L	-	-	0.36 c
Total Nitrogen	mg N/L	≤ 1.54 g	Report	0.47 c
Total Organic Carbon	mg C/L	-	-	3.3
Chlorophyll *a* - Corrected	µg/L	-	-	2.2 IV
Phaeophytin	µg/L	-	-	0.90 U
Hardness	mg CaCO3/L	-	-	188 c
Total Suspended Solids	mg/L	-	-	2 I
Turbidity	NTU	≤ 29 t	≤ 29	0.60 I
Color (true)	PCU	-	-	4.8 I
Alkalinity	mg CaCO3/L	≥ 20	-	163 A
Chloride	mg Cl/L	-	-	18 A
Fluoride	mg F/L	≤ 10.0	-	0.18
Sulfate	mg SO4/L	-	-	9.3 A
Bioassay - Water flea *(Ceriodaphnia dubia)*	% effluent	-	≥ 100 s	> 100
Bioassay - Fish *(Cyprinella leedsi)*	% effluent	-	≥ 100 s	> 100

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
g - Value expressed as an annual geometric mean
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit
V - Analyte was detected in both sample and method blank

Table 3. Analytical metals data

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical metals data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFF-2
Hardness	mg CaCO3/L	-	-	188 c
Aluminum	µg/L	-	-	9.7 I
Arsenic	µg/L	≤ 50	-	0.73
Cadmium	µg/L	≤ 0.432 b	-	0.020 U
Calcium	mg/L	-	-	71.2
Chromium, Total [1]	µg/L	≤ 144 b	-	0.40 U
Copper [2]	µg/L	≤ 16 b	-	0.40 U
Iron	µg/L	≤ 1,000	-	30 U
Lead	µg/L	≤ 7.1 b	-	0.20 U
Magnesium	mg/L	-	-	2.45
Nickel [2]	µg/L	≤ 88.9 b	-	0.77 I
Potassium	mg/L	-	-	0.30 U
Selenium	µg/L	≤ 5.0	-	1.83
Silver	µg/L	≤ 0.07	-	0.026 I
Sodium	mg/L	-	-	10.4
Zinc	µg/L	≤ 204 b	-	5.4 I

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
b - Value is calculated based on hardness, (62-302.530(3))
c - Value is calculated
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
U - Material analyzed for but not detected; value reported is the method detection limit
1 - Class III Freshwater Quality Criterion (62-302.530(19)(a), F.A.C.) is for chromium-III
2 - Analyte detected in the field blank

Table 4. Algal Growth Potential (AGP)

Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN), ortho-phosphate (OP), total nitrogen (TN) and total phosphorus (TP) limitation and ratios of nitrogen to phosphorus

Location	Test Species	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Grab EFF-2	*Pseudokirchneriella subcapitata*	0.300 U	4 ± 0.8	4.7 ± 0.9	17.7 ± 3.5	9.9 ± 2	9.6	20.3

U - Material analyzed for but not detected; value reported is the method detection limit

Table 5. Detected Organic Constituents

Effluent limits, Class III Water Quality Criteria for Fresh Waters, and analytical organic and pesticide data

Analyte	Units	Class III Criteria	Effluent Permit Limits	Effluent Grab EFF-2
Atrazine	ng/L	-	-	0.77 I
Pyridaben	ng/L	-	-	0.77 I

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

Appendix A. Facility Summary

PART I: Information gathered prior to sampling event	
Prepared By: Carolyn Hall	**Contact Number:** (407) 897-4114
Facility Name (as it appears on permit): Mazak Limerock Mine	**Former Names:** N/A
NPDES Permit Number: FL0322890	**Permit Expiration Date:** August 9, 2024
Physical Address: 7000 SR 50, Webster, FL 33597	
District: Central	**County:** Sumter
Function of Facility: Industrial Wastewater Facility	
Facility Type: Industrial	**Permitted Capacity (MGD):** 5.575 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): D-002 outfall flow: 2.42 MGD monthly average as reported on the January 2023 DMR.	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months): Not applicable	
Description of type of Discharge: ☐ **Continuous** ☒ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify:**	
Description of Sampling Location(s) - actual permit designation of permitted sampling point(s): The sampling location of D-002 is EFF-2 at the point of discharge from the transfer ditch to Jumper Creek. pH, turbidity, specific conductance, dissolved oxygen, total nitrogen, total phosphorus, temperature, and toxicity are sampled from the point.	
Description of Permitted Outfall(s): Surface Water Discharge D-002: An existing 3.70 MGD Daily Maximum Flow permitted discharge to Transfer ditch then and Jumper Lake, Class III Fresh Waters, (WBID# 1360). The point of discharge is located approximately at latitude 28°36' 45" N, longitude 81°59' 22" W.	
Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility): The mining operation will generate 5.575 MGD of non-process wastewater. Ground water is removed from the active mine pit and pumped into former mine pits and a transfer ditch where it is allowed to recharge. Approximately 2.16 MGD of ground water will recharge to the aquifer and the remaining 3.677 MGD will be discharged off-site via a weir to Jumper Creek. Precipitation/evaporation will claim the remaining 0.263 MGD of ground water.	

PART I: Continued

List <u>current</u> Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under
(Leave cell blank if not applicable)

			Effluent Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow (D-002 Outfall)	MGD	Max	--	Report	--	3.7	Daily when discharging	calculated	EFF-2	See I.A.2
BOD, Carbonaceous 5 day, 20C	mg/L	Max								
Total Suspended Solids	mg/L	Max								
pH	s.u.	Min Max	--	--	--	6.0 8.5	Monthly, when discharging	Grab	EFF-2	See I.A.2
Nitrogen, Total	mg/L	Max	--	--	--	Report	Monthly, when discharging	Grab	EFF-2	See I.A.2
Phosphorus, Total (as P)	mg/L	Max	--	--	--	Report	Monthly, when discharging	Grab	EFF-2	See I.A.2
Oxygen, Dissolved (DO)	mg/L	Min	--	--	--	5	Monthly, when discharging	Meter	EFF-2	See I.A.2
*Nitrogen, Total	lb/day	Max								
*Phosphorus, Total (as P)	lb/day	Max								

PART I: Continued	
Receiving Waters: Jumper Creek	**Classification (indicate whether fresh or marine):** Class III Fresh Water

Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.):

Outfall D-002

1. The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from outfall D-002.
   a. Effluent Limitation
      (1) In any routine or additional follow-up test for acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent. [Rules 62-302.200(1), 62-302.500(1)(a)4., 62-4.244(3)(a), and 62-4.241, F.A.C.]
   b. Monitoring Frequency
      (1) Routine toxicity tests shall be conducted annually, the first starting within180days of the expiration date of this permit and lasting for the duration of this permit.
   c. Sampling Requirements
      (1) All tests shall be conducted on a single grab sample of final effluent.
   d. Test Requirements
      (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five dilutions: **100%, 75%, 50%, 25%**, and **12.5%** effluent.
      (2) The permittee shall conduct 96-hour acute static renewal multi-concentration toxicity tests using the daphnid, **Ceriodaphnia dubia**, and the bannerfin shiner, **Cyprinella leedsi**, concurrently.
      (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms**, 5th Edition, EPA-821-R-02-012. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct acute toxicity testing in accordance with the revised method.
      (4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.
   e. Quality Assurance Requirements
      (1) A standard reference toxicant (SRT) quality assurance (QA) acute toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly acute toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.
      (2) If the mortality in the control (0% effluent) exceeds 10% for either species in any test, the test for that species (including the control) shall be invalidated and the test repeated. The repeat test shall begin within 14 days after the last day of the invalid test.
      (3) If 100% mortality occurs in all effluent concentrations for either species prior to the end of any test and the control mortality is less than 10% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.
      (4) Routine and additional follow-up tests shall be evaluated for acceptability based on the concentration-response relationship, as required by EPA-821-R-02-012, Section 12.2.6.2., and included with the bioassay laboratory reports.
   f. Reporting Requirements
      (1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
         (a) Routine Test Results: If an LC50 >100% effluent occurs in the test for the test species, ">100%" shall be entered on the DMR for that test species. If an LC50 <100% effluent occurs, the calculated LC50 effluent concentration shall be entered on the DMR for that

test species.

(b) Additional Follow-up Test Results: For each additional test required, the calculated LC50 value shall be entered on the DMR for that test species.

(2) A bioassay laboratory report for the routine test shall be prepared according to EPA-821-R-02-012, Section 12, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-012, Section 12, and mailed within 30 days after the last day of the second valid additional follow-up test.

(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(5) The same bioassay data shall not be reported as the results of more than one test.

(6) All bioassay laboratory reports shall be sent to:

Florida Department of Environmental Protection
Central District Office
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767

g. Test Failures

(1) A test fails when the test results do not meet the limits in 1.a.(1).

(2) Additional Follow-up Tests:

(a) If a routine test does not meet the acute toxicity limitation in 1.a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with 1.d.

(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.

(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 75%, 50%, 25%, and 12.5% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the procedures in EPA-821-R-02-012.

(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.

(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.

(b) The Department shall review and approve the plan before initiation.

(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.

(d) Progress reports shall be submitted quarterly to the Department at the address above.

(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with 1.d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in 1.b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-012, a repeat test shall be initiated within 14 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in 1.a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 14 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose

of terminating the plan.

(4) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

2. The Whole Effluent Toxicity Test for the discharge from currently active mining areas shall be conducted once 180 days prior to the expiration date of the permit. Result shall be submitted with the permit renewal application. One toxocity shall be conduct when the surface water discharge commences from a new pahse(a new pit) of the mining. The second toxicity sampling event shall be 180 days later from the first event. These results shall be submitted with the concurrent DMR reports. *[The last permit required annual sampling for toxicity. Since the discharge is non-process wastewater and no toxicity was previously reported, the frequency is being reduced.]*

Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.): N/A

Facility Mixing Zone Details (if applicable): N/A

List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year:

Date	Parameter and Units	Limit	Result
11/2022 (D-002)	Flow MGD	3.86	3.7 * note on DMR Hurricane Nicole
07/2022 (D-002)	Dissolved Oxygen Min mg/L	5	4.64
06/2022	Dissolved Oxygen Min mg/L	5	3.89

Describe previous FYI and WQBEL study: No FYI or WQBEL have been completed previously

Describe previous or current Enforcement Actions (including WLs):

There are no current enforcement actions or noncompliance letters issued within the last 5 years.
A warning letter was issued May 11, 2009 for operating with an expired permit, including discharging with an expired permit and late submission of DMRs in 2008. This was resolved with a SFCO and the case was closed 10/22/2019

Describe any violations or problems noted in previous inspection:

The last inspection was conducted on 9/11/2019. During this inspection the only non-compliance item noted was a single flow exceedance for July 2019 that was attributed to excessive rainfall.

Discuss whether DMR trends within previous five years are improving or declining:

The facility has had minimal flow exceedances over the last 5 years. The most recent flow exceedance for 11/2022 which can be attributed to Hurricane Nicole and has been trending down since. Turbidity, dissolved oxygen, Total Nitrogen, and Total Phosphorus has been trending up and down but remains within permit limits. pH and specific conductance appear to relatively stable over the last 5 years.

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):
No additional comments

Appendix B. Explanations of Measurements

Biological assessments are prepared by DEP staff to provide information for review of NPDES permit renewal applications. Biological assessments, in conjunction with other information concerning the subject facility and its receiving-water body, are used to determine appropriate permit conditions. References to Rule 62-302.530, F.A.C., are to the currently applicable surface water quality criteria table with an effective date of 02/17/2016 and a notice identification number of 17115667.

- **Chemical Analyses of the Effluent**

  The effluent was analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides following DEP SOPs. The results from these analyses were compared with Water Quality Criteria (Chapter 62-302, F.A.C.) and facility permit limits.

- **Toxicity Bioassays**

  Greater than 50% mortality in an acute toxicity test may constitute an exceedance of Paragraph 62-302.500(1)(a) and/or facility permit limits. A 25% inhibition concentration (IC25) is the effluent concentration causing a 25% reduction in a biological response such as biomass or reproduction when compared to a control population. An IC25 of less than 100% in a chronic test may constitute exceedances of Subsection 62-302.530(20), Subsection 62-302.530(62) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of Subsection 62-302.530(62) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

- **Algal Growth Potential (AGP)**

  The algal growth potential (AGP) value is the peak growth of the alga within that 14-day period, recorded as mg dry weight/L. AGP results within the range 6.10 to 20.0 mg dry wt/L are suggested to be representative of high productivity for freshwaters (Miller et al. 1978). High AGP values may constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a), F.A.C. and/or Paragraph 62-302.530(48)(b), F.A.C.

  The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP under the assumption that other required nutrients (e.g. silicon, micronutrients) are present in excess (Miller *et al*. 1978). The expected amount of production is calculated as 38 times the total soluble inorganic nitrogen (nitrate and nitrite plus ammonia) under nitrogen limitation or 430 times the ortho-phosphate (OP) concentration under phosphorus limitation with an error of ± 20%. When the ratio of nitrogen to phosphorus (N: P) is less than 10:1, nitrogen limitation of algal production is likely. When the N: P ratio is 20:1 or greater, phosphorus limitation is likely (USEPA 2000). For ratios in-between, co-limitation may occur. Production of lower biomass than expected may be evidence of growth inhibition related to toxic compounds present in the water sample tested and may constitute an exceedance of Subsection 62-302.530(62), F.A.C.

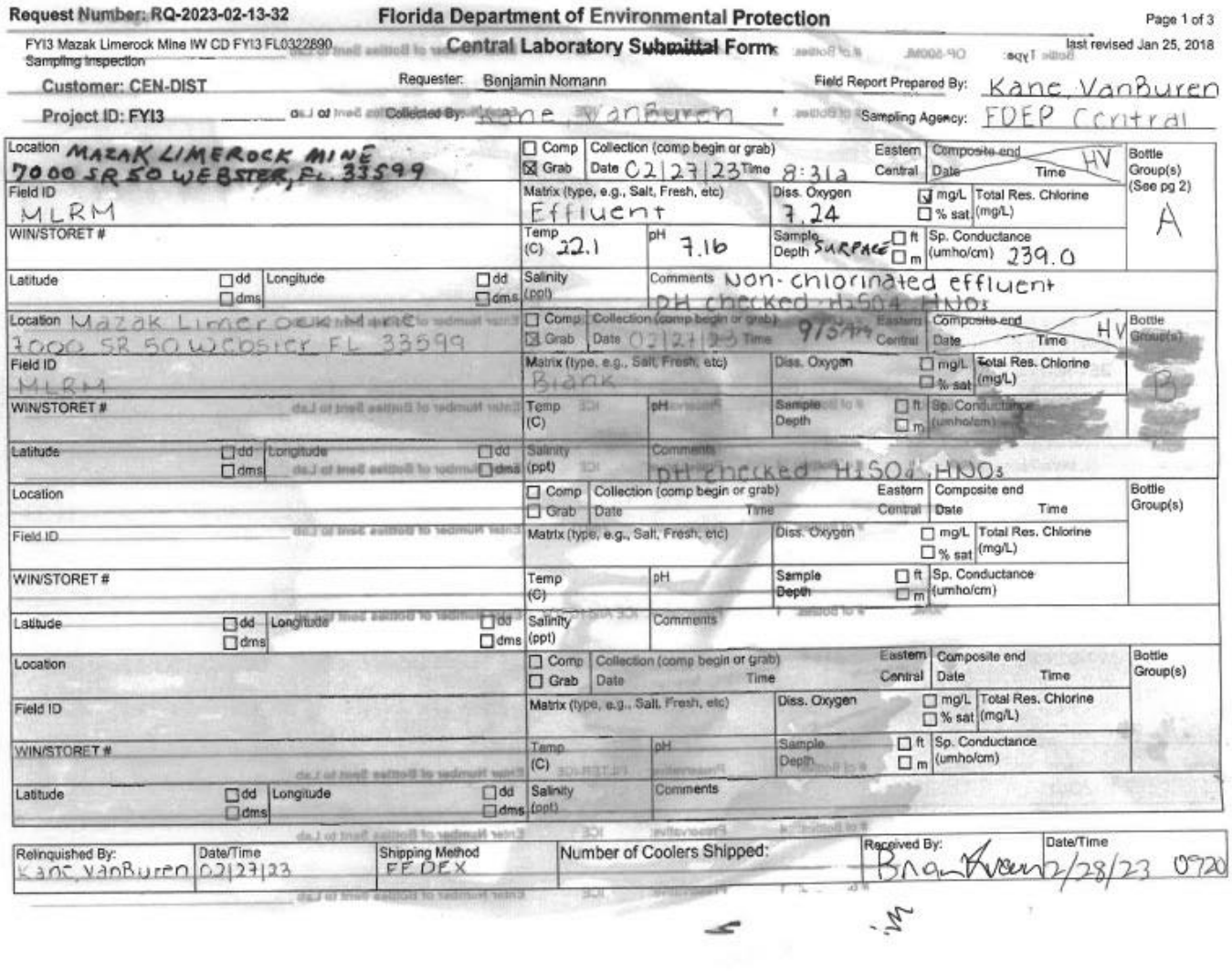
- **Chlorophyll *a* Content**

- Chlorophyll *a* content is an estimate of algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may be constitute exceedances of Subsection 62-302.530(47), F.A.C., Paragraph 62-302.530(48)(a) F.A.C. and/or Paragraph 62-302.530(48)(b) F.A.C..

- **Definition of Qualifiers** (Rule 62-160.700, F.A.C.)

  A - Value reported is the mean of two or more determinations
  B - Results based on colony counts outside the acceptable range.
  I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
  J - Estimated value
  K - Actual value is known to be less than value given
  L - Actual value is known to be greater than value given
  N - Presumptive evidence of presence of material.
  O - Sampled, but analysis lost or not performed.
  Q - Sample held beyond normal holding time.
  T - Value reported is less than the criterion of detection.
  U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
  V - Analyte was detected in both sample and method blank.
  X - Too few individuals to calculate SCI value.
  Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
  Z - Colonies were too numerous to count (TNTC)

Appendix C. Chain of Custody



Request Number: RQ-2023-02-13-32 **Florida Department of Environmental Protection** Page 1 of 3

FYI3 Mazak Limerock Mine IW CD FYI3 FL0322890 Sampling Inspection — **Central Laboratory Submittal Form** — last revised Jan 25, 2018

Customer: CEN-DIST — Requester: Benjamin Nomann — Field Report Prepared By: Kane VanBuren

Project ID: FYI3 — Collected By: Kane VanBuren — Sampling Agency: FDEP Central

Location: MAZAK LIMEROCK MINE 7000 SR 50 WEBSTER, FL. 33599	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 02/27/23 Time 8:31a	Eastern Central	Composite end Date	Time	HV	Bottle Group(s) (See pg 2): A		
Field ID: MLRM	Matrix (type, e.g., Salt, Fresh, etc): Effluent		Diss. Oxygen: 7.24	☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C): 22.1	pH: 7.16	Sample Depth: SURFACE	☐ ft ☐ m	Sp. Conductance (umho/cm): 239.0				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Non-chlorinated effluent pH checked - H_2SO_4, HNO_3						
Location: Mazak Limerock Mine 7000 SR 50 Webster FL 33599	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 02/27/23 Time 9:15a	Eastern Central	Composite end Date	Time	HV	Bottle Group(s): B		
Field ID: MLRM	Matrix (type, e.g., Salt, Fresh, etc): Blank		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: pH checked H_2SO_4, HNO_3						
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date	Time		Bottle Group(s)		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments						
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern Central	Composite end Date	Time		Bottle Group(s)		
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)				
WIN/STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments						

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Kane VanBuren	02/27/23	FEDEX		Brian Kwam	2/28/23 0920

Appendix D. Chemical Analysis of Effluent

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Metals	Calcium	0.075 U	mg/L	0.075	0.30
2/27/2023 9:15	Blank	Metals	Lead	0.20 U	µg/L	0.20	0.40
2/27/2023 9:15	Blank	Metals	Selenium	0.20 U	µg/L	0.20	0.80
2/27/2023 9:15	Blank	Metals	Sodium	0.50 U	mg/L	0.50	2.0
2/27/2023 9:15	Blank	Metals	Aluminum	5.0 U	µg/L	5.0	20
2/27/2023 9:15	Blank	Metals	Arsenic	0.050 U	µg/L	0.050	0.20
2/27/2023 9:15	Blank	Metals	Potassium	0.30 U	mg/L	0.30	1.2
2/27/2023 9:15	Blank	Metals	Copper	0.71 I	µg/L	0.40	0.80
2/27/2023 9:15	Blank	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
2/27/2023 9:15	Blank	Metals	Chromium	0.40 U	µg/L	0.40	1.6
2/27/2023 9:15	Blank	Metals	Nickel	0.58 I	µg/L	0.50	2.0
2/27/2023 9:15	Blank	Metals	Iron	30 U	µg/L	30	120
2/27/2023 9:15	Blank	Metals	Magnesium	0.040 U	mg/L	0.040	0.16
2/27/2023 9:15	Blank	Metals	Silver	0.010 U	µg/L	0.010	0.040
2/27/2023 9:15	Blank	Metals	Zinc	5.0 U	µg/L	5.0	20
2/27/2023 9:15	Blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5
2/27/2023 9:15	Blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.0040	0.010
2/27/2023 9:15	Blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.20	0.50
2/27/2023 9:15	Blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.0020	0.0050
2/27/2023 9:15	Blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.0040	0.010
2/27/2023 9:15	Blank	Nutrients	Turbidity	0.10 U	NTU	0.10	1.0
2/27/2023 9:15	Blank	Nutrients	Fluoride	0.025 U	mg F/L	0.025	0.10
2/27/2023 9:15	Blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.080	0.20
2/27/2023 9:15	Blank	Nutrients	Sulfate	0.20 U	mg SO4/L	0.20	0.50
2/27/2023 9:15	Blank	Nutrients	Total-P	0.002 U	mg P/L	0.0020	0.0050
2/27/2023 9:15	Blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.50	1.0
2/27/2023 9:15	Blank	Pesticides	Fipronil	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Fonofos	0.20 U	ng/L	0.20	0.81
2/27/2023 9:15	Blank	Pesticides	Hexazinone	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Metolachlor	0.35 U	ng/L	0.35	1.4
2/27/2023 9:15	Blank	Pesticides	Prometon	0.91 U	ng/L	0.91	3.6
2/27/2023 9:15	Blank	Pesticides	Pyriproxyfen	0.13 UJ	ng/L	0.13	0.50
2/27/2023 9:15	Blank	Pesticides	Propargite	1.5 U	ng/L	1.5	6.0
2/27/2023 9:15	Blank	Pesticides	Ametryn	0.60 U	ng/L	0.60	2.4
2/27/2023 9:15	Blank	Pesticides	Azinphos Methyl	2.0 U	ng/L	2.0	8.1
2/27/2023 9:15	Blank	Pesticides	Butylate	0.40 U	ng/L	0.40	1.6

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Pesticides	Difenoconazole	0.60 U	ng/L	0.60	2.4
2/27/2023 9:15	Blank	Pesticides	Fipronil Sulfone	0.15 U	ng/L	0.15	0.60
2/27/2023 9:15	Blank	Pesticides	Mevinphos	1.1 U	ng/L	1.1	4.2
2/27/2023 9:15	Blank	Pesticides	Norflurazon	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Terbufos	0.10 U	ng/L	0.10	0.40
2/27/2023 9:15	Blank	Pesticides	Dimethomorph	0.18 U	ng/L	0.18	1.1
2/27/2023 9:15	Blank	Pesticides	Carbophenothion	0.20 U	ng/L	0.20	0.81
2/27/2023 9:15	Blank	Pesticides	Chlorpyrifos Ethyl	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Dithiopyr	0.63 U	ng/L	0.63	2.5
2/27/2023 9:15	Blank	Pesticides	Fipronil Desulfinyl	0.13 U	ng/L	0.13	0.50
2/27/2023 9:15	Blank	Pesticides	Oxyfluorfen	0.15 U	ng/L	0.15	0.60
2/27/2023 9:15	Blank	Pesticides	Phorate	0.53 U	ng/L	0.53	2.1
2/27/2023 9:15	Blank	Pesticides	Napropamide	0.40 U	ng/L	0.40	1.6
2/27/2023 9:15	Blank	Pesticides	Propanil	0.13 U	ng/L	0.13	0.50
2/27/2023 9:15	Blank	Pesticides	Stirophos	0.13 U	ng/L	0.13	0.50
2/27/2023 9:15	Blank	Pesticides	Atrazine Desethyl	1.5 U	ng/L	1.5	6.0
2/27/2023 9:15	Blank	Pesticides	Azoxystrobin	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Carfentrazone Ethyl	0.10 U	ng/L	0.10	0.40
2/27/2023 9:15	Blank	Pesticides	Myclobutanil	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Terbuthylazine	0.43 U	ng/L	0.43	1.7

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Pesticides	Thiobencarb	0.60 U	ng/L	0.60	2.4
2/27/2023 9:15	Blank	Pesticides	Acetochlor	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Alachlor	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Dimethenamid	0.10 U	ng/L	0.10	0.40
2/27/2023 9:15	Blank	Pesticides	Disulfoton	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Fipronil Sulfide	0.15 U	ng/L	0.15	0.60
2/27/2023 9:15	Blank	Pesticides	Fluazifop-P-butyl	0.10 U	ng/L	0.10	0.40
2/27/2023 9:15	Blank	Pesticides	Flutolanil	0.10 U	ng/L	0.10	0.40
2/27/2023 9:15	Blank	Pesticides	Metribuzin	1.5 U	ng/L	1.5	6.0
2/27/2023 9:15	Blank	Pesticides	Molinate	0.30 U	ng/L	0.30	1.2
2/27/2023 9:15	Blank	Pesticides	Pendimethalin	1.0 U	ng/L	1.0	4.0
2/27/2023 9:15	Blank	Pesticides	Prodiamine	0.18 U	ng/L	0.18	0.70
2/27/2023 9:15	Blank	Pesticides	Loratadine	0.35 U	ng/L	0.35	1.4
2/27/2023 9:15	Blank	Pesticides	Pyraflufen Ethyl	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Triadimefon	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Atrazine	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Demeton	1.5 U	ng/L	1.5	6.0
2/27/2023 9:15	Blank	Pesticides	Fenbuconazole	0.13 U	ng/L	0.13	0.50
2/27/2023 9:15	Blank	Pesticides	Flumioxazin	4.5 U	ng/L	4.5	18
2/27/2023 9:15	Blank	Pesticides	Imazalil	0.76 U	ng/L	0.76	3.0

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Pesticides	Oxadiazon	0.30 U	ng/L	0.30	1.2
2/27/2023 9:15	Blank	Pesticides	Parathion Ethyl	0.25 U	ng/L	0.25	1.0
2/27/2023 9:15	Blank	Pesticides	Prometryn	0.20 U	ng/L	0.20	0.81
2/27/2023 9:15	Blank	Pesticides	Propiconazole	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Tebuconazole	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Pyridaben	0.45 U	ng/L	0.45	2.3
2/27/2023 9:15	Blank	Pesticides	Chlorpyrifos Methyl	0.050 U	ng/L	0.050	0.20
2/27/2023 9:15	Blank	Pesticides	Diazinon	0.13 U	ng/L	0.13	0.50
2/27/2023 9:15	Blank	Pesticides	Ethoprop	0.10 U	ng/L	0.10	0.40
2/27/2023 9:15	Blank	Pesticides	Fludioxonil	0.13 U	ng/L	0.13	0.50
2/27/2023 9:15	Blank	Pesticides	Iprodione	0.60 U	ng/L	0.60	2.4
2/27/2023 9:15	Blank	Pesticides	Pronamide	0.15 U	ng/L	0.15	0.60
2/27/2023 9:15	Blank	Pesticides	Simazine	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Chlorfenapyr	0.18 U	ng/L	0.18	0.70
2/27/2023 9:15	Blank	Pesticides	Etridiazole	0.15 U	ng/L	0.15	0.60
2/27/2023 9:15	Blank	Pesticides	Bromacil	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Cyanazine	3.3 U	ng/L	3.3	13
2/27/2023 9:15	Blank	Pesticides	Ethion	0.15 U	ng/L	0.15	0.60
2/27/2023 9:15	Blank	Pesticides	Fenamiphos	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Fluxapyroxad	0.10 U	ng/L	0.10	0.40

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Pesticides	Malathion	0.35 U	ng/L	0.35	1.4
2/27/2023 9:15	Blank	Pesticides	Metalaxyl	0.76 U	ng/L	0.76	3.0
2/27/2023 9:15	Blank	Pesticides	Naled	1.5 U	ng/L	1.5	6.0
2/27/2023 9:15	Blank	Pesticides	Parathion Methyl	0.55 U	ng/L	0.55	2.2
2/27/2023 9:15	Blank	Pesticides	Sulfentrazone	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Coumaphos	0.50 U	ng/L	0.50	2.0
2/27/2023 9:15	Blank	Pesticides	Cyprodinil	0.10 U	ng/L	0.10	0.50
2/27/2023 9:15	Blank	Pesticides	Phenytoin	3.5 U	ng/L	3.5	14
2/27/2023 9:15	Blank	Pesticides	EPTC	1.3 U	ng/L	1.3	5.0
2/27/2023 9:15	Blank	Priority Organic Pollutants	Acenaphthene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Dimethyl phthalate	0.22 U	µg/L	0.22	0.87
2/27/2023 9:15	Blank	Priority Organic Pollutants	Nitrobenzene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.4 U	µg/L	5.4	22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.5 I	µg/L	1.1	4.3
2/27/2023 9:15	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.054 U	µg/L	0.054	0.22

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Fluorene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Hexachlorobutadiene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Isophorone	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.2 U	µg/L	2.2	8.7
2/27/2023 9:15	Blank	Priority Organic Pollutants	Naphthalene	0.11 U	µg/L	0.11	0.43
2/27/2023 9:15	Blank	Priority Organic Pollutants	Phenanthrene	0.11 U	µg/L	0.11	0.43
2/27/2023 9:15	Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.11 U	µg/L	0.11	0.43
2/27/2023 9:15	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	11 U	µg/L	11	43
2/27/2023 9:15	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Anthracene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Chrysene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	2.2 U	µg/L	2.2	8.7
2/27/2023 9:15	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Hexachloroethane	0.054 U	µg/L	0.054	0.22

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Priority Organic Pollutants	Pentachlorophenol	0.54 U	µg/L	0.54	2.2
2/27/2023 9:15	Blank	Priority Organic Pollutants	Phenol	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	11 U	µg/L	11	43
2/27/2023 9:15	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Diethyl phthalate	2.2 U	µg/L	2.2	8.7
2/27/2023 9:15	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	2-Chlorophenol	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	2-Nitrophenol	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	4-Nitrophenol	11 U	µg/L	11	43
2/27/2023 9:15	Blank	Priority Organic Pollutants	Benzidine	11 U	µg/L	11	43
2/27/2023 9:15	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Fluoranthene	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.3 U	µg/L	3.3	13

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 9:15	Blank	Priority Organic Pollutants	Acenaphthylene	0.027 U	µg/L	0.027	0.11
2/27/2023 9:15	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.054 U	µg/L	0.054	0.22
2/27/2023 9:15	Blank	Priority Organic Pollutants	Pyrene	0.11 U	µg/L	0.11	0.43
2/27/2023 8:31	Effluent Grab	AGP/LN	Algal Growth Potential	0.300 U	mg DryWt/L	0.300	0.900
2/27/2023 8:31	Effluent Grab	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.90 U	µg/L	0.90	2.7
2/27/2023 8:31	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2.2 IV	µg/L	0.82	2.5
2/27/2023 8:31	Effluent Grab	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	2.3	µg/L	0.60	1.8
2/27/2023 8:31	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
2/27/2023 8:31	Effluent Grab	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
2/27/2023 8:31	Effluent Grab	Metals	Iron	30 U	µg/L	30	120
2/27/2023 8:31	Effluent Grab	Metals	Aluminum	9.7 I	µg/L	5.0	20
2/27/2023 8:31	Effluent Grab	Metals	Cadmium	0.020 U	µg/L	0.020	0.080
2/27/2023 8:31	Effluent Grab	Metals	Arsenic	0.73	µg/L	0.050	0.20
2/27/2023 8:31	Effluent Grab	Metals	Potassium	0.30 U	mg/L	0.30	1.2
2/27/2023 8:31	Effluent Grab	Metals	Sodium	10.4	mg/L	0.50	2.0
2/27/2023 8:31	Effluent Grab	Metals	Lead	0.20 U	µg/L	0.20	0.40
2/27/2023 8:31	Effluent Grab	Metals	Silver	0.026 I	µg/L	0.010	0.040
2/27/2023 8:31	Effluent Grab	Metals	Zinc	5.4 I	µg/L	5.0	20
2/27/2023 8:31	Effluent Grab	Metals	Selenium	1.83	µg/L	0.20	0.80
2/27/2023 8:31	Effluent Grab	Metals	Copper	0.40 U	µg/L	0.40	0.80

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Metals	Chromium	0.40 U	µg/L	0.40	1.6
2/27/2023 8:31	Effluent Grab	Metals	Magnesium	2.45	mg/L	0.040	0.16
2/27/2023 8:31	Effluent Grab	Metals	Calcium	71.2	mg/L	0.075	0.30
2/27/2023 8:31	Effluent Grab	Metals	Nickel	0.77 I	µg/L	0.50	2.0
2/27/2023 8:31	Effluent Grab	Nutrients	NO2NO3-N	0.056	mg N/L	0.0040	0.010
2/27/2023 8:31	Effluent Grab	Nutrients	Chloride	18 A	mg Cl/L	0.20	0.50
2/27/2023 8:31	Effluent Grab	Nutrients	Total Alkalinity	163 A	mg CaCO3/L	0.65	2.5
2/27/2023 8:31	Effluent Grab	Nutrients	TSS	2 I	mg/L	2.0	10
2/27/2023 8:31	Effluent Grab	Nutrients	Turbidity	0.60 I	NTU	0.10	1.0
2/27/2023 8:31	Effluent Grab	Nutrients	O-Phosphate-P	0.011	mg P/L	0.0040	0.010
2/27/2023 8:31	Effluent Grab	Nutrients	Kjeldahl Nitrogen	0.41	mg N/L	0.080	0.20
2/27/2023 8:31	Effluent Grab	Nutrients	Organic Carbon	3.3	mg C/L	0.50	1.0
2/27/2023 8:31	Effluent Grab	Nutrients	Color (true)	4.8 I	PCU	2.5	6.0
2/27/2023 8:31	Effluent Grab	Nutrients	Total-P	0.023	mg P/L	0.0020	0.0050
2/27/2023 8:31	Effluent Grab	Nutrients	Sulfate	9.3 A	mg SO4/L	0.20	0.50
2/27/2023 8:31	Effluent Grab	Nutrients	Fluoride	0.18	mg F/L	0.025	0.10
2/27/2023 8:31	Effluent Grab	Nutrients	Ammonia-N	0.050	mg N/L	0.0020	0.0050
2/27/2023 8:31	Effluent Grab	Pesticides	Norflurazon	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Pronamide	0.15 U	ng/L	0.15	0.58
2/27/2023 8:31	Effluent Grab	Pesticides	Cyprodinil	0.097 U	ng/L	0.097	0.48

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Pesticides	Propargite	1.5 U	ng/L	1.5	5.8
2/27/2023 8:31	Effluent Grab	Pesticides	Pyridaben	0.77 I	ng/L	0.44	2.2
2/27/2023 8:31	Effluent Grab	Pesticides	Bromacil	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Chlorpyrifos Ethyl	0.24 U	ng/L	0.24	0.97
2/27/2023 8:31	Effluent Grab	Pesticides	Cyanazine	3.2 U	ng/L	3.2	13
2/27/2023 8:31	Effluent Grab	Pesticides	Ethion	0.15 U	ng/L	0.15	0.58
2/27/2023 8:31	Effluent Grab	Pesticides	Fluazifop-P-butyl	0.097 U	ng/L	0.097	0.39
2/27/2023 8:31	Effluent Grab	Pesticides	Hexazinone	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Metribuzin	1.5 U	ng/L	1.5	5.8
2/27/2023 8:31	Effluent Grab	Pesticides	Etridiazole	0.15 U	ng/L	0.15	0.58
2/27/2023 8:31	Effluent Grab	Pesticides	Butylate	0.39 U	ng/L	0.39	1.6
2/27/2023 8:31	Effluent Grab	Pesticides	Dimethenamid	0.097 U	ng/L	0.097	0.39
2/27/2023 8:31	Effluent Grab	Pesticides	Dithiopyr	0.61 U	ng/L	0.61	2.4
2/27/2023 8:31	Effluent Grab	Pesticides	Fenbuconazole	0.12 U	ng/L	0.12	0.48
2/27/2023 8:31	Effluent Grab	Pesticides	Imazalil	0.73 U	ng/L	0.73	2.9
2/27/2023 8:31	Effluent Grab	Pesticides	Metolachlor	0.34 U	ng/L	0.34	1.4
2/27/2023 8:31	Effluent Grab	Pesticides	Mevinphos	1.0 U	ng/L	1.0	4.1
2/27/2023 8:31	Effluent Grab	Pesticides	Oxadiazon	0.29 U	ng/L	0.29	1.2
2/27/2023 8:31	Effluent Grab	Pesticides	Parathion Methyl	0.53 U	ng/L	0.53	2.1
2/27/2023 8:31	Effluent Grab	Pesticides	Prodiamine	0.17 U	ng/L	0.17	0.68

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Pesticides	Coumaphos	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Thiobencarb	0.58 U	ng/L	0.58	2.3
2/27/2023 8:31	Effluent Grab	Pesticides	Ametryn	0.58 U	ng/L	0.58	2.3
2/27/2023 8:31	Effluent Grab	Pesticides	Chlorpyrifos Methyl	0.048 U	ng/L	0.048	0.19
2/27/2023 8:31	Effluent Grab	Pesticides	Fenamiphos	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Fipronil	0.24 U	ng/L	0.24	0.97
2/27/2023 8:31	Effluent Grab	Pesticides	Fipronil Desulfinyl	0.12 U	ng/L	0.12	0.48
2/27/2023 8:31	Effluent Grab	Pesticides	Fipronil Sulfide	0.15 U	ng/L	0.15	0.58
2/27/2023 8:31	Effluent Grab	Pesticides	Flutolanil	0.097 U	ng/L	0.097	0.39
2/27/2023 8:31	Effluent Grab	Pesticides	Diazinon	0.12 U	ng/L	0.12	0.48
2/27/2023 8:31	Effluent Grab	Pesticides	Ethoprop	0.097 U	ng/L	0.097	0.39
2/27/2023 8:31	Effluent Grab	Pesticides	Fipronil Sulfone	0.15 U	ng/L	0.15	0.58
2/27/2023 8:31	Effluent Grab	Pesticides	Metalaxyl	0.73 U	ng/L	0.73	2.9
2/27/2023 8:31	Effluent Grab	Pesticides	Oxyfluorfen	0.15 U	ng/L	0.15	0.58
2/27/2023 8:31	Effluent Grab	Pesticides	Phorate	0.51 U	ng/L	0.51	2.0
2/27/2023 8:31	Effluent Grab	Pesticides	Tebuconazole	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Atrazine Desethyl	1.5 U	ng/L	1.5	5.8
2/27/2023 8:31	Effluent Grab	Pesticides	EPTC	1.2 U	ng/L	1.2	4.8
2/27/2023 8:31	Effluent Grab	Pesticides	Naled	1.5 U	ng/L	1.5	5.8
2/27/2023 8:31	Effluent Grab	Pesticides	Parathion Ethyl	0.24 U	ng/L	0.24	0.97

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Pesticides	Prometon	0.87 U	ng/L	0.87	3.5
2/27/2023 8:31	Effluent Grab	Pesticides	Dimethomorph	0.17 U	ng/L	0.17	1.0
2/27/2023 8:31	Effluent Grab	Pesticides	Napropamide	0.39 U	ng/L	0.39	1.6
2/27/2023 8:31	Effluent Grab	Pesticides	Phenytoin	3.4 U	ng/L	3.4	14
2/27/2023 8:31	Effluent Grab	Pesticides	Propanil	0.12 U	ng/L	0.12	0.48
2/27/2023 8:31	Effluent Grab	Pesticides	Pyraflufen Ethyl	0.24 U	ng/L	0.24	0.97
2/27/2023 8:31	Effluent Grab	Pesticides	Triadimefon	0.24 U	ng/L	0.24	0.97
2/27/2023 8:31	Effluent Grab	Pesticides	Acetochlor	0.24 U	ng/L	0.24	0.97
2/27/2023 8:31	Effluent Grab	Pesticides	Carbophenothion	0.19 U	ng/L	0.19	0.78
2/27/2023 8:31	Effluent Grab	Pesticides	Demeton	1.5 U	ng/L	1.5	5.8
2/27/2023 8:31	Effluent Grab	Pesticides	Molinate	0.29 U	ng/L	0.29	1.2
2/27/2023 8:31	Effluent Grab	Pesticides	Pendimethalin	0.97 U	ng/L	0.97	3.9
2/27/2023 8:31	Effluent Grab	Pesticides	Propiconazole	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Simazine	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Sulfentrazone	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Terbuthylazine	0.41 U	ng/L	0.41	1.6
2/27/2023 8:31	Effluent Grab	Pesticides	Chlorfenapyr	0.17 U	ng/L	0.17	0.68
2/27/2023 8:31	Effluent Grab	Pesticides	Loratadine	0.34 U	ng/L	0.34	1.4
2/27/2023 8:31	Effluent Grab	Pesticides	Stirophos	0.12 U	ng/L	0.12	0.48
2/27/2023 8:31	Effluent Grab	Pesticides	Atrazine	0.77 I	ng/L	0.24	0.97

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Pesticides	Flumioxazin	4.4 U	ng/L	4.4	17
2/27/2023 8:31	Effluent Grab	Pesticides	Malathion	0.34 U	ng/L	0.34	1.4
2/27/2023 8:31	Effluent Grab	Pesticides	Myclobutanil	0.24 U	ng/L	0.24	0.97
2/27/2023 8:31	Effluent Grab	Pesticides	Prometryn	0.19 U	ng/L	0.19	0.78
2/27/2023 8:31	Effluent Grab	Pesticides	Pyriproxyfen	0.12 UJ	ng/L	0.12	0.48
2/27/2023 8:31	Effluent Grab	Pesticides	Terbufos	0.097 U	ng/L	0.097	0.39
2/27/2023 8:31	Effluent Grab	Pesticides	Alachlor	0.24 U	ng/L	0.24	0.97
2/27/2023 8:31	Effluent Grab	Pesticides	Azinphos Methyl	1.9 U	ng/L	1.9	7.8
2/27/2023 8:31	Effluent Grab	Pesticides	Azoxystrobin	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Carfentrazone Ethyl	0.097 U	ng/L	0.097	0.39
2/27/2023 8:31	Effluent Grab	Pesticides	Difenoconazole	0.58 U	ng/L	0.58	2.3
2/27/2023 8:31	Effluent Grab	Pesticides	Disulfoton	0.48 U	ng/L	0.48	1.9
2/27/2023 8:31	Effluent Grab	Pesticides	Fludioxonil	0.12 U	ng/L	0.12	0.48
2/27/2023 8:31	Effluent Grab	Pesticides	Fluxapyroxad	0.097 U	ng/L	0.097	0.39
2/27/2023 8:31	Effluent Grab	Pesticides	Fonofos	0.19 U	ng/L	0.19	0.78
2/27/2023 8:31	Effluent Grab	Pesticides	Iprodione	0.58 U	ng/L	0.58	2.3
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Anthracene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Benzo(a)anthracene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Benzo(a)pyrene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	5.1 U	µg/L	5.1	20

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Naphthalene	0.10 U	µg/L	0.10	0.41
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2-Chlorophenol	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	µg/L	10	41
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Benzo(b)fluoranthene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Hexachlorobutadiene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Dimethyl phthalate	0.20 U	µg/L	0.20	0.82
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	µg/L	2.0	8.2
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Pyrene	0.10 U	µg/L	0.10	0.41
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1 U	µg/L	3.1	12
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	µg/L	1.0	4.1
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Pentachlorophenol	0.51 U	µg/L	0.51	2.0
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2-Nitrophenol	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Chrysene	0.026 U	µg/L	0.026	0.10

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Phenol	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	µg/L	2.0	8.2
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Fluorene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2-Chloronaphthalene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	µg/L	10	41
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Benzo(k)fluoranthene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Diethyl phthalate	2.0 U	µg/L	2.0	8.2
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Hexachloroethane	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Fluoranthene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	µg/L	0.10	0.41
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2,4-Dichlorophenol	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2,4-Dimethylphenol	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2,6-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Acenaphthene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Di-n-octyl phthalate	0.051 U	µg/L	0.051	0.20

Date Sampled	Site ID	Analysis Group	Component	Result	Units	MDL	PQL
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Isophorone	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	2,4-Dinitrotoluene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	4-Nitrophenol	10 U	µg/L	10	41
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Acenaphthylene	0.026 U	µg/L	0.026	0.10
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Benzidine	10 U	µg/L	10	41
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Hexachlorobenzene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Nitrobenzene	0.051 U	µg/L	0.051	0.20
2/27/2023 8:31	Effluent Grab	Priority Organic Pollutants	Phenanthrene	0.10 U	µg/L	0.10	0.41
2/27/2023 8:31	Effluent Grab	Nutrients	Dissolved Oxygen mg/L	7.24	mg/L		
2/27/2023 8:31	Effluent Grab	Nutrients	Specific Conductance	239.0	µmhos/cm		
2/27/2023 8:31	Effluent Grab	Nutrients	pH	7.16			
2/27/2023 8:31	Effluent Grab	Nutrients	Temperature	22.1	C		