Biological Assessment of

Mosaic Fertilizer, L.L.C. Bonnie Facility

Polk County

NPDES # FL0000523

Sampled October 29, 2018

October 2019

Biology Program

DEP Laboratory

Division of Environmental Assessment and Restoration

DEP Laboratory Quality Manual

NELAC Certification No. E31780

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Summary of Results

The nutrient and chlorophyll concentrations in the instream site samples were very similar upstream and downstream of the discharge site, suggesting no detectable nutrient enrichment from the effluent in the receiving water. The algal growth potential (AGP) values were similar among all three sites. The analytical chemistry suggests that all sites are nitrogen-limited.

Facility Overview

The Mosaic Fertilizer LLC Bonnie Facility is a closed facility used to manage non-process wastewater, process wastewater, and stormwater. A Facility Summary, including a description of the facility, summary of permit limits, and Discharge Monitoring Report (DMR) information is provided in Appendix A. The effluent is intermittently discharged into the North Prong Alafia River, a Class III Freshwater.

The North Prong Alafia River falls within the West Central Nutrient Watershed Region for Numeric Nutrient Criteria (NNC). For this region, the NNC thresholds, expressed as annual geometric means, are 0.49 mg/L total phosphorus and 1.65 mg/L total nitrogen. This FYI event only provides single sample results; therefore, compliance should be determined with additional sampling events. http://ca.dep.state.fl.us/mapdirect/?focus=nutrientcriteria

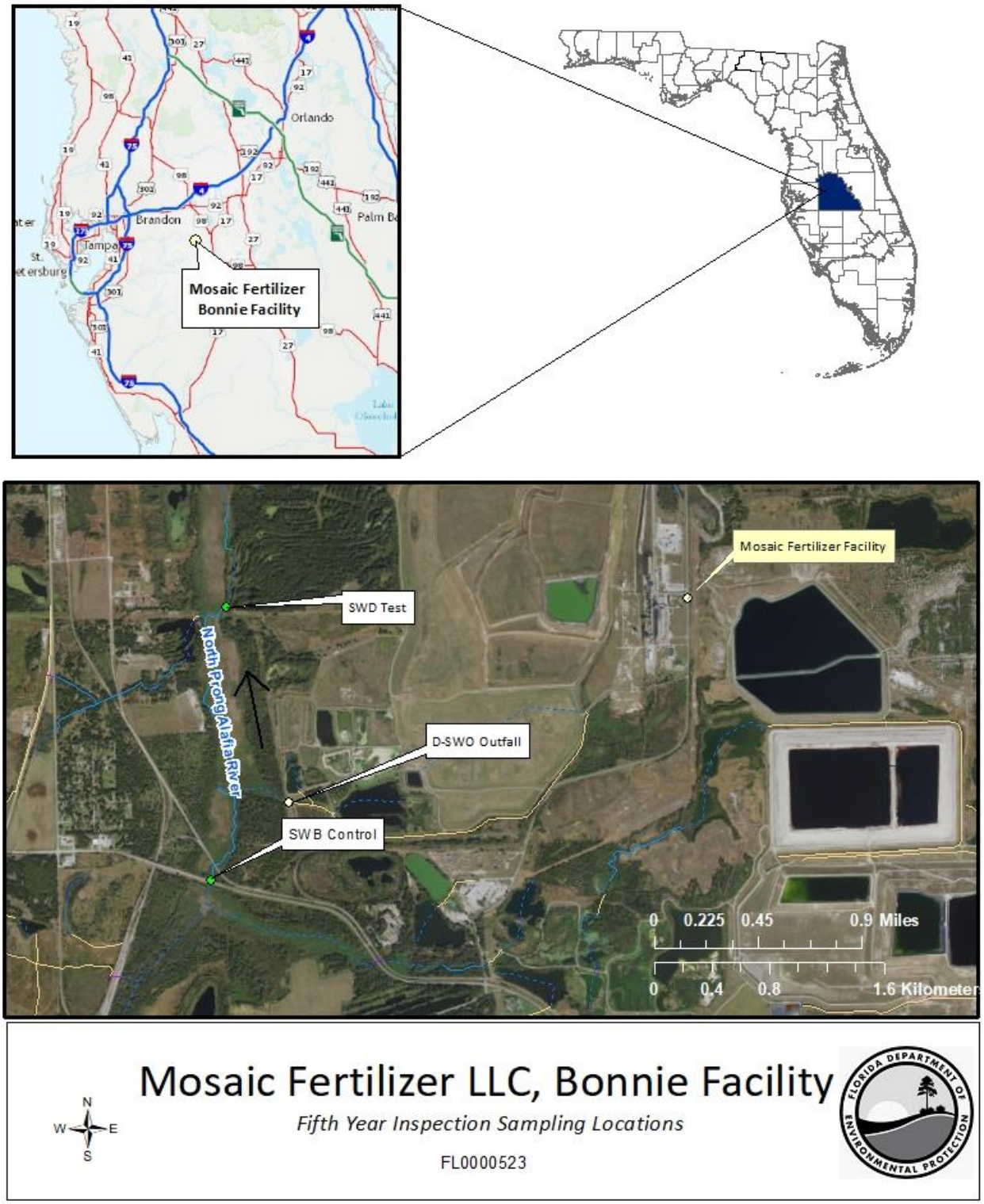
Methods

Effluent grab samples were collected from the southwest outfall D-SWO and effluent composite samples were collected from internal outfall OUI-001, which is routed to the southwest outfall D-SWO. Grab samples were collected from two instream monitoring stations in the North Prong Alafia River: SWB-001, which monitors conditions upstream of outfall D-SWO, and SWD-001, which monitors conditions downstream of the D-SWO discharge. Gordon P. D'Abreu and Edgar Guerron Orejuela collected the samples. The flow at internal outfall OUI-001 was 3.51 MGD at the time of sampling.

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.

All references to 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.

Map of facility and sampling locations



Map produced by Lisa Homann on 3/14/19

Results

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

- Dissolved oxygen, specific conductance, and pH measurements complied with effluent permit limits and Class III Freshwater Quality Criteria (62-302.530, F.A.C.).
- Specific conductance was greater at the downstream site compared to the upstream site, indicating the effluent is elevating the specific conductance in this portion of the North Prong Alafia River.

Analytical Water Chemistry (See Table 2 and Appendix D)

- All analytical water chemistry parameters complied with effluent permit limits and/or Class III Freshwater Quality Criteria (62-302.530, F.A.C.).
- The effluent sample had slightly higher nitrogen levels and slightly lower phosphorus levels than the instream sites. The nutrient levels in the instream site samples were very similar upstream and downstream of the discharge site, suggesting no detectable nutrient enrichment from the effluent in the receiving water.
- NNC thresholds are for Class III waters and in-stream numerical values are expressed as annual geometric means (62.302.531 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. For comparative purposes only, the single sample total phosphorus value of the effluent composite, effluent grab, downstream, and upstream site samples from this event were higher than the 0.49 mg/L numeric nutrient criteria threshold for the region. The single sample total nitrogen value of the effluent composite sample from this event was higher than the 1.65 mg/L numeric nutrient criteria threshold for the region.
- Chlorophyll *a* (corrected) was detected in the effluent sample at a much higher level than in the instream samples. Both instream samples had similarly low levels of chlorophyll *a* (corrected).
- Chloride and sulfate were detected in the effluent samples at a greater concentration than in the instream samples and detected in the downstream sample at a greater concentration than the upstream sample.

Toxicity Whole Effluent Test (See Table 2 and Appendix B)

- Tests were performed October 30-November 2, 2018.
- 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 0% mortality in 100% sample. The calculated LC50 for the fish, *Cyprinella leedsi*, was >100% effluent with 5% mortality in 100% sample. The effluent sample was not toxic to the fish, *Cyprinella leedsi,* or to the water flea, *Ceriodaphnia dubia,* 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)

- All metals detected in the effluent and instream grab samples were present at levels that complied with Class III Freshwater Quality Criteria (62-302.530, F. A. C.). There are no effluent permit limits for metals.

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 and instream sites.
- Nitrate and nitrite was not detected in the effluent sample. Using 1/2 the method detection limit (MDL) for nitrate and nitrite to calculate a value for total nitrogen to phosphorus ratio, the ratio suggests that the effluent is nitrogen-limited (Miller et al. 1978).
- The AGP values were similar among all three sites. The upstream sample had the highest AGP, then the effluent grab sample, and the downstream sample had the lowest AGP. The analytical chemistry suggests that all sites are nitrogen-limited (Miller et al. 1978).
- The downstream site AGP result is slightly lower than the AGP range (6.10 to 20.0 mg dry wt/L) suggested to be representative of high productivity for freshwater, while the upstream site AGP result is within this range (Miller et al. 1978).

Literature Cited

Miller, W. E., T. E. Maloney, and J. C. Greene. 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. Effluent limits, Class III Freshwater Criteria and field parameters

Parameter	Units	Class III Criteria	Effluent Permit Limits OUI-001	Effluent Composite OUI-001	Effluent Grab SWO	SWD downstream	SWB upstream
Sample Depth	m	-	-	-	0.1	0.2	0.3
Temperature	C	-	Report	22.1	20.7	18.4	21.5
pH	SU	6.0 - 8.5	6.0 - 8.5	6.8	6.8	7.1	7.2
Specific Conductance	umhos/cm	≤ 1,275	-	2,101	1,181	672	367
Salinity	ppt	-	-	0.1 c	0.6 c	0.4 c	0.2 c
Dissolved Oxygen	mg/L	-	-	9.4	4.3	5.5	5.4
Dissolved Oxygen	%Sat	≥ 38	-	108.6	47	59.6	61.0

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

Table 2. Effluent limits, Class III Freshwater Criteria and analytical water chemistry and toxicological data

Analyte	Units	Class III Criteria	Effluent Permit Limits OUI-001	Effluent Composite OUI-001	Effluent Grab SWO	SWD downstream	SWB upstream
Ortho-phosphate	mg P/L	-	-	-	0.62	1.0	1.6
Total Phosphorus	mg P/L	≤ 0.49 [1]	≤ 16 p	0.65	0.74	1.2	1.9
Total Ammonia	mg N/L	5.02 (SWD) 3.91 (SWB)	Report s	-	0.15	0.014	0.017
Un-ionized Ammonia (calculated salinity)	mg NH3/L	≤ 0.02 s	≤ 0.02	-	< 0.02 c	< 0.02 c	< 0.02 c
Nitrate and Nitrite	mg N/L	-	-	0.004 U	0.004 U	0.075	0.20
Total Kjeldahl Nitrogen	mg N/L	-	Report p	3.5	1.2	0.66	0.60
Organic Nitrogen	mg N/L	-	-	-	1.1 c	0.65 c	0.58 c
Total Nitrogen	mg N/L	≤ 1.65 [1]	Report	3.5 c	1.2 c	0.74 c	0.8 c
Total Organic Carbon	mg C/L	-	-	16	8.4	8.6	8.4
Chlorophyll *a* - Corrected	ug/L	-	-	-	34 A	1.4 I	1.4 I
Phaeophytin	ug/L	-	-	-	2.1 A	0.60 U	0.60 U
CBOD, 5 day, N - inhibited	mg/L	-	-	4.5	1.9 I	1.1 I	1.2 I
Total Suspended Solids	mg/L	-	Report p	38	5 I	3 I	4 IA
Turbidity	NTU	< 29 t	< 29 t (SWO)	-	7.8 A	0.80	3.2
Color (true)	PCU	-	-	-	25 A	32	29
Alkalinity	mg CaCO3/L	≥ 20	-	-	72	72	80 A
Chloride	mg Cl/L	-	-	-	15	13	8.7 A
Fluoride	mg F/L	≤ 10.0	≤ 10 p	5.1	2.5	2.6	3.0
Sulfate	mg SO4/L	-	Report p	1100	480	230	77 A
Alpha, Total	pCi/L	≤ 15	≤ 15 p	9.08 U	4.38 U	2.39 U	1.84 U
Alpha-Counting Error	pCi/L	-	-	5.12	3.05	1.36	1.11
Bioassay - Water flea *(Ceriodaphnia dubia)*, LC50	% effluent	-	≥ 100 s (SWO)	-	> 100	-	-
Bioassay - Fish *(Cyprinella leedsi)*, LC50	% effluent	-	≥ 100 s (SWO)	-	> 100	-	-

A dash (-) indicates sample/measurement was not collected or criterion/limit does not exist.
c - Value is calculated
p – 24-hour flow proportioned composite
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
1 - West Central Nutrient Watershed Region for Numeric Nutrient Criteria (NNC), 62-302.531(2)(c), F.A.C. Value expressed as an annual geometric mean.

Table 3. Effluent limits, Class III Freshwater Criteria and analytical metals data

Analyte	Units	Effluent Permit Limits	Effluent Grab Class III Criteria	Effluent Grab	SWD downstream Class III Criteria	SWD downstream	SWB upstream Class III Criteria	SWB upstream
Hardness	mg CaCO3/L	-	-	387 c	-	230 c	-	163 c
Aluminum	ug/L	-	-	16	-	60	-	125
Arsenic	ug/L	-	≤ 50	2.16	≤ 50	1.50	≤ 50	1.02
Cadmium	ug/L	-	≤ 0.738 b	0.020 U	≤ 0.502 b	0.020 U	≤ 0.388 b	0.047 I
Calcium	mg/L	-	-	134	-	71.3	-	48.5
Chromium, Total [2]	ug/L	-	≤ 261 b	0.40 U	≤ 171 b	0.47 I	≤ 128 b	0.66 I
Copper	ug/L	-	≤ 29.7 b	0.20 U	≤ 19 b	0.20 U	≤ 14.1 b	0.20 U
Iron	ug/L	-	≤ 1,000	57 I	≤ 1,000	120	≤ 1,000	90 I
Lead	ug/L	-	≤ 17.8 b	0.050 U	≤ 9.2 b	0.050 U	≤ 5.91 b	0.12 I
Magnesium	mg/L	-	-	12.8	-	12.7	-	10.1
Nickel	ug/L	-	≤ 164 b	0.67 I	≤ 106 b	1.02	≤ 78.7 b	0.82
Selenium	ug/L	-	≤ 5.0	0.20 U	≤ 5.0	0.20 U	≤ 5.0	0.20 U
Silver	ug/L	-	≤ 0.07	0.010 U	≤ 0.07	0.010 U	≤ 0.07	0.010 U
Sodium	mg/L	-	-	107	-	46.1	-	12.7
Zinc	ug/L	-	≤ 377 b	5.0 U	≤ 243 b	5.0 U	≤ 181 b	5.0 U

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

2 - Class III Freshwater Quality Criterion (62-302.530(43)(a), F.A.C.) is for chromium-III

Table 4. 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	*Pseudokirchneriella subcapitata*	11.0 A	5.8 ± 1.2 [3]	266.6 ± 53.3	45.7 ± 9.1 [3]	318.2 ± 63.6	0.2 [3]	1.6 [3]
SWD downstream	*Pseudokirchneriella subcapitata*	5.93	3.4 ± 0.7	430 ± 86	27.9 ± 5.6	516 ± 103.2	0.1	0.6
SWB upstream	*Pseudokirchneriella subcapitata*	14.2	8.2 ± 1.6	688 ± 137.6	30.4 ± 6.1	817 ± 163.4	0.1	0.4

A - Value reported is the mean of two or more determinations

3 - Nitrate-nitrite was not detected in the effluent grab sample. Predicted AGP and N:P ratios calculated using 1/2 the method detection limit (MDL) for non-detect value.

Facility Summary

State of Florida

Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Edgar Guerron Orejuela	Contact Number: 813-470-5749
Facility Name (as it appears on permit): Mosaic Fertilizer, L.L.C. Bonnie Facility	Former Names: CF Industries, Inc.
NPDES Permit Number: FL0000523	Permit Expiration Date: August 3, 2019
Physical Address: 2501 Bonnie Mine Road, Bartow, Florida	
District: DWRM-Phosphate Management (Tampa)	County: Polk

Function of Facility:

This permit (FL0000523) authorizes the continued maintenance and long-term care activities at the closed Mosaic Fertilizer, L.L.C. (Mosaic) – Bonnie Facility (formerly CF Industries, Inc. – Bartow Operations). A significant portion of the industrial complex has been demolished including all former manufacturing plant areas. The closed 709-acre phosphogypsum stack system consists of several lined areas, a closed seepage (leachate) collection ditch system, a closed process water cooling channel network, and a closed process water cooling pond. Additionally, there are other lined and unlined containment and treatment areas.

The Mosaic Bonnie Facility manages non-process wastewater, process wastewater (stack leachate), and stormwater. Process wastewater is managed through evaporation and treatment followed by further evaporation or discharge. Excess process water inventory is currently treated using single-stage liming at Lime Station No. 3, spray evaporation (in Areas 2C-4G), and an acidulation process in the treatment ponds prior to discharge. The solids from the liming process are allowed to settle in associated treatment impoundment areas. The lime treated wastewater is then pumped through one or two sets of sprays for ammonia removal, located at pools 4C and 4F. The water is then acidulated to lower the pH to within an

acceptable effluent range of 6.0 to 8.5 standard units. The treated process water is discharged by pumping or gravity flow through Internal Outfall I-001, thence to the Southwest Outfall D-SWO. The option to blend treated water with Floridan Aquifer well water is also available under the facility's Southwest Florida Water Management District (SWFWMD) Water Use Permit (WUP). Effluent from Internal Outfalls I-001 and I-003 can be diverted through the 10-acre wetland treatment area SWB-A for additional polishing prior to discharge through Outfall D-SWO. The flow from I-001 and I-003, or a portion thereof, can also be routed to the Southwest Outfall D-SWO via the Southwest Outfall Basin in order to allow the wetland treatment area SWB-A time for recovery, as needed; or during periods of high flow.

Facility Type:	Permitted Capacity (MGD):
Phosphate fertilizer manufacturing plant	N/A

Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months):
The values presented here are calculated based on DMRs submitted from 1/31/2017 – 8/31/2018

D-04A: 1.13 MGD

D-005: 2.36 MGD

D-006: 4.04 MGD

D-007: 0.75 MGD

D-07A: 1.40 MGD

I-001: 3.73 MGD*

I-003: 8.1 MGD*

*The treated process water is discharged by pumping or gravity flow through Internal Outfall I-001, thence to the Southwest Outfall D-SWO

If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months):

N/A

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):

EFF-SWO

Description of Permitted Outfall(s):

Outfall SWO discharges treated and commingled non-process wastewater and stormwater from Internal Outfall I-003, and/or treated process water and stormwater from Internal Outfall I-001, routed via the Southwest Outfall Basin and/or via the 10-acre wetland treatment area SWB-A, into the North Prong Alafia River, a Class III freshwater body (WBID #1621E)..

Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility):

The Mosaic Bonnie Facility manages non-process wastewater, process wastewater (stack leachate), and stormwater. Process wastewater is managed through evaporation and treatment followed by further evaporation or discharge. Excess process water inventory is currently treated using single-stage liming at Lime Station No. 3, spray evaporation (in Areas 2C-4G), and an acidulation process in the treatment ponds prior to discharge. The solids from the liming process are allowed to settle in associated treatment impoundment areas. The lime treated wastewater is then pumped through one or two sets of sprays for ammonia removal, located at pools 4C and 4F. The water is then acidulated to lower the pH to within an acceptable effluent range of 6.0 to 8.5 standard units. The treated process water is discharged by pumping or gravity flow through Internal Outfall I-001, thence to the Southwest Outfall D-SWO. The option to blend treated water with Floridan Aquifer well water is also available under the facility's Southwest Florida Water Management District (SWFWMD) Water Use Permit (WUP). Effluent from Internal Outfalls I-001 and I-003 can be diverted through the 10-acre wetland treatment area SWB-A for additional polishing prior to discharge through Outfall D-SWO. The flow from I-001 and I-003, or a portion thereof, can also be routed to the Southwest Outfall D-SWO via the Southwest Outfall Basin in order to allow the wetland treatment area SWB-A time for recovery, as needed; or during periods of high flow.

PART I: Continued

List current 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; note: all condition references, such as I.A.5., are from current NPDES permit)

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow Rate †	MGD	Max	Report	Daily Maximum	Monthly	Calculated	††	
Phosphorus, Total (as P)	mg/L	Max	20	Daily Maximum	Monthly	Grab	††	
Phosphorus, Total (as P)	lb/day	Max	Report	Daily Maximum	Monthly	Calculated	††	See I.A.8.
Nitrogen, Total (as N)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	††	
Nitrogen, Total (as N)	lb/day	Max	Report	Daily Maximum	Monthly	Calculated	††	See I.A.8.
Oxygen, Dissolved Percent Saturation	percent	Min	38	Daily Average	Quarterly	Grab	††	
pH	s.u.	Min Max	6.0 8.5	Daily Minimum Daily Maximum	Quarterly	Grab	††	
Temperature (C), Water	Deg C	Max	Report	Daily Maximum	Quarterly	Grab	††	
Specific Conductance	µmhos/cm	Max	1275	Daily Maximum	Quarterly	Grab	††	
Turbidity	NTU	Max	29.0	Daily Maximum	Quarterly	Grab	††	
Solids, Total Suspended	mg/L	Max	150	Daily Maximum	Annually	Grab	††	
Nitrogen, Ammonia, Total (as N)	mg/L	Max	Report	Daily Maximum	Annually	Grab	††	
Ammonia, Unionized (as NH_3)	mg/L	Max	0.02	Daily Maximum	Annually	Calculated	††	See I.A.5.
Fluoride, Total (as F)	mg/L	Max	10.0	Daily Maximum	Annually	Grab	††	
Sulfate, Total	mg/L	Max	Report	Daily Maximum	Annually	Grab	††	
Phosphorus, Total (as P)	lb/yr	Max	Report	5 Year Rolling Average	Annually	Calculated	††	See I.A.10.
Nitrogen, Total (as N)	lb/yr	Max	Report	Annual Total	Annually	Calculated	††	See I.A.8. and I.A.9.

† Flow calculation shall be based upon the rainfall, acreage, and a runoff factor of 100% for each area.

†† Sample Points for this parameter shall be EFF-04A, EFF-005, EFF-006, EFF-007, and EFF-07A.

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Phosphorus, Total (as P)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-SWO	
Phosphorus, Total (as P)	lb/day	Max	Report	Daily Maximum	Monthly	Calculated	EFF-SWO	
Nitrogen, Total (as N)	mg/L	Max	Report	Daily Maximum	Monthly	Grab	EFF-SWO	
Nitrogen, Total (as N)	lb/day	Max	Report	Daily Maximum	Monthly	Calculated	EFF-SWO	
Turbidity (effluent)	NTU	Max	Calculated	Single Sample	Monthly	Grab	EFF-SWO	See I.A.6.
Turbidity (background)	NTU	Max	Report	Single Sample	Monthly, when discharging	Grab	SWB-001	See I.A.6.
Acute Whole Effluent Toxicity, 96 Hour LC50 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Semi-Annually; twice per year	Grab	EFF-SWO	See I.A.7.
Acute Whole Effluent Toxicity, 96 Hour LC50 (Cyprinella leedsi)	percent	Min	100	Single Sample	Semi-Annually; twice per year	Grab	EFF-SWO	See I.A.7.

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow	MGD	Max Max	Report Report	Monthly Average Daily Maximum	Continuous	Recording Flow Meter with Totalizer	OUI-001 OUI-003	See I.B.6.
pH	s.u.	Min Max Max	6.0 Report 8.5	Daily Minimum Monthly Average Daily Maximum	Continuous	Meter	OUI-001 OUI-003	
Specific Conductance	µmhos/cm	Max Max	Report 1275	Monthly Average Daily Maximum	Continuous	Meter	OUI-SWL	See I.B.2.
Specific Conductance	µmhos/cm	Max Max	Report 2000	Monthly Average Daily Maximum	Continuous	Meter	OUI-SWL	See I.B.3.
Phosphorus, Total (as P)	mg/L	Max Max	14.0 16.0	Monthly Average Daily Maximum	Weekly	24-hr FPC	OUI-001	
Phosphorus, Total (as P)	mg/L	Max Max	18.0 20.0	Monthly Average Daily Maximum	Weekly	24-hr FPC	OUI-003	

			Effluent Limitations		Monitoring Requirements			
Parameter	Units	Max/ Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Phosphorus, Total (as P)	lb/day	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	Calculated	OUI-001 OUI-003	See I.A.8.
Nitrogen, Total (as N)	mg/L	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	24-hr FPC	OUI-001 OUI-003	
Nitrogen, Total (as N)	lb/day	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	Calculated	OUI-001 OUI-003	See I.A.8.
Temperature (C), Water	Deg C	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	Grab	OUI-SWL	
Temperature (C), Water	Deg C	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	Meter	OUI-001	
Solids, Total Suspended	mg/L	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	24-hr FPC	OUI-001	
Nitrogen, Ammonia, Total (as N)	mg/L	Max Max	Report Report	Monthly Average Daily Maximum	Weekly	Grab	OUI-001	
Ammonia, Unionized (as NH_3)	mg/L	Max Max	Report 0.02	Monthly Average Daily Maximum	Weekly	Calculated	OUI-001	See I.A.5.
Fluoride, Total (as F)	mg/L	Max Max	Report 10.0	Monthly Average Daily Maximum	Weekly	24-hr FPC	OUI-001 OUI-003	
Oxygen, Dissolved, Percent Saturation	percent	Max Min	38 Report	Daily Average Monthly Average	Weekly	Grab	OUI-SWL	
Nitrogen, Kjeldahl, Total (as N)	mg/L	Max	Report	Daily Maximum	Monthly	24-hr FPC	OUI-001	
Sulfate, Total	mg/L	Max	Report	Daily Maximum	Monthly	24-hr FPC	OUI-001 OUI-003	
Alpha, Gross Particle Activity	pCi/L	Max	15.0	Daily Maximum	Monthly	24-hr FPC	OUI-001	See I.B.5.
Radium 226 + Radium 228, Total	pCi/L	Max	5.0	Daily Maximum	Monthly	24-hr FPC	OUI-001	

PART I: Continued

Receiving Waters:	Classification (indicate whether fresh or marine):
Big Ditch (WBID 1469), a tributary of the Hillsborough River.	Class III freshwater

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

The permittee shall comply with the following requirements to evaluate acute whole effluent toxicity of the discharge from the Southwest Outfall D-SWO

(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.
(2) Routine toxicity tests shall be conducted once every six months, the first starting within 60 days of the effective date of this permit and lasting for the duration of this permit.
(3) All tests shall be conducted on a single grab sample of final effluent
(4) 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.
(5) 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.
(6) 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.
(7) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-012, Table 7.

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

N/A

Facility Mixing Zone Details (if applicable):

The permittee has been granted a mixing zone 730 meters downstream from the Southwest Outfall D-SWO for specific conductance during discharges of treated process water from Internal Outfall I-001 in accordance with Rule 62-4.244, F.A.C. During periods when the permittee is discharging treated process water from Internal Outfall I-001 and the specific conductance level exceeds 2000 micromhos per centimeter at the bottom of the cascade structure (Internal Monitoring Station I-SWL), the discharge shall be considered in violation of the water quality standard as per Rule 62-302.530(22), F.A.C., for Class III Fresh Waters of the State, at the end of the mixing zone due to its inaccessibility. The effluent at I-SWL when Internal Outfall I-001 is not discharging shall comply with the specific conductance limitation as per Rule 62-302.530(22), F.A.C.

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

Compliance well MWC-15, has had Arsenic exceedances on the following dates: 12/31/2012, 3/31/2018, 6/30/2018

Describe previous FYI and WQBEL study:

N/A

Describe previous or current Enforcement Actions (including WLs):

N/A

Describe any violations or problems noted in previous inspection: N/A
Discuss whether DMR trends within previous five years are improving or declining: N/A
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse): N/A

PART II: Sampling Event Information	
Date(s) sample collected: 10/28/2018 – 10/29/2018	Sampler(s): Gordon P. D'Abreu and Edgar Guerron Orejuela
Temperature (Deg C): 20.7	pH (SU): 6.77
Dissolved Oxygen (mg/L): 4.25 (47%)	Conductivity (umhos/cm): 1181
Total Residual Chlorine (mg/L): N/A	Total Residual Chlorine - after Disinfection (mg/L): N/A
Method of Chlorination: N/A	Method of De-chlorination: N/A
Flow During Sample Collection for each outfall(GPM): 2438 at Internal Outfall OUI-001	
Mean Flow for each outfall for previous 12 months based on sampling date (If samples are taken on more than one day, indicate Mean Flow for each day): OUI-001: 1.25 MGD OUI-003: 2.59 MGD EFF-04A: 1.32 MGD EFF-005: 2.74 MGD EFF-006: 4.75 MGD EFF-007: 0.88 MGD EFF-07A: 1.65 MGD	

Describe Discharge during Sampling Event:

☐ Continuous ☐ Intermittent ☒ Seasonal ☐ Rainfall Dependent

☐ Other, please specify:

Describe any conditions, difficulties or abnormal events that occurred during the sample collection and any other additional comments here:

N/A

Appendix B

Explanation 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.

1) 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 (62-302, F.A.C.) and facility permit limits.

2) Toxicity Bioassays

Greater than 50% mortality in an acute toxicity test may constitute an exceedance of 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 62-302.530(20), 62-302.530(61) and/or facility permit limits. A no observed effect concentration (NOEC) less than 100% effluent in a chronic test may constitute an exceedance of 62-302.530(61) and/or facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

3) Bacteriological Testing

High levels of fecal coliform bacteria may constitute an exceedance of 62-302.530(6) and/or facility permit limits. Fecal coliform and enterococci results often are based on colony counts outside the acceptable range (B-qualifier). The dilutions performed on the sample did not yield results within the method acceptable range of 20- 60 colony forming units per plate. The B-qualifier does not affect data quality.

4) Chlorophyll *a* Content

Chlorophyll *a* content is an estimate of algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may constitute exceedances of 62-302.530(90)(a) F.A.C. and/or 62-302.530(90)(b) F.A.C..

5) 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 62-302.530(46), F.A.C., 62-302.530(47)(a), F.A.C. and/or 62-302.530(47)(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 $\pm$ 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 62-302.530(61), F.A.C.

6) Definition of Qualifiers

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-2018-10-29-27

FYI5 _Mosaic Fertilizer Bonnie Facility _ Sampling Inspection

Customer: BMR-TAMPA

Project ID: FYI5

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Tanya Welborn

Field Report Prepared By: Edgar Guevara Orozco

Collected By: Edgar Guevara Orozco

Sampling Agency: FDEP

Location: Mosaic Bonnie	☐ Comp ☑ Grab	Collection (comp begin or grab) Date: 10/29/18 Time: 1400	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2): C				
Field ID: EFF - SWB	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 5.37 ☑ mg/L, 61.0 ☑ % sat	Total Res. Chlorine (mg/L)							
WIN/STORET #	Temp (C): 21.5	pH: 7.2	Sample Depth: 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm): 366.4						
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Turbidity : 4.87							
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							
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
				ABP	10-30-18 10:29

Request Number: RQ-2018-10-29-27

FYI5 _Mosaic Fertilizer Bonnie Facility _ Sampling Inspection

Customer: BMR-TAMPA

Project ID: FYI5

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Tanya Welborn

Field Report Prepared By: Edgar Guevara Orejuela.

Collected By: Edgar Guevara Orejuela.

Sampling Agency: FDEP PM

Location: Mosaic Bonnie.	☑ Comp ☐ Grab	Collection (comp begin or grab) Date 10/28/18 Time 1100	Eastern Central	Composite end Date 10/29/18 Time 1000	Bottle Group(s) (See pg 2): B						
Field ID: Bonnie Mine 001	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen 9.43 mg/L, 108.6 % sat	Total Res. Chlorine (mg/L)								
WIN/STORET #	Temp (C) 22.1	pH 6.80	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm) 2101							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Turbidity: 46.6 NTU.								
Location: Mosaic Bonnie	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 10/29/18 Time 1050	Eastern Central	Composite end Date Time	Bottle Group(s): A						
Field ID: EFF-SWD	Matrix (type, e.g., Salt, Fresh, etc): Water	Diss. Oxygen 4.23 mg/L, 47 % sat	Total Res. Chlorine (mg/L)								
WIN/STORET #	Temp (C) 20.7	pH 6.77	Sample Depth 0.1 ☑ ft ☑ m	Sp. Conductance (umho/cm) 1121							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Turbidity: 137 NTU @ 1200 12:00 = Turbidity 18.4								
Location: Mosaic Bonnie	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 10/29/18 Time 1140	Eastern Central	Composite end Date Time	Bottle Group(s): D						
Field ID: BLANK EFF-SWD	Matrix (type, e.g., Salt, Fresh, etc): DI WATER	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: Mosaic Bonnie	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 10/29/18 Time 1250	Eastern Central	Composite end Date Time	Bottle Group(s): C						
Field ID: EFF-SWD	Matrix (type, e.g., Salt, Fresh, etc): Fresh.	Diss. Oxygen 5.58 mg/L, 59.6 % sat	Total Res. Chlorine (mg/L)								
WIN/STORET #	Temp (C) 18.4	pH 7.05	Sample Depth 0.2 ☐ ft ☑ m	Sp. Conductance (umho/cm) 672							
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments: Turbidity: 1.45 NTU								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Edgar Guevara Orejuela	10/29/18 ;	Fedex.	1 2 8	ABB	10-30-18/1020

Ref:
Dep:

Date: 23Oct18
Wgt: 10.00 LBS

DV: 0.00

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

Svc: PRIORITY OVERNIGHT Master 4385 5034 9311
TRCK: 4385 5034 9377

4 bioassay jugs - 10.30.18 @ 1120 HJ

Appendix D

Chemical analysis of effluent and receiving water

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 10:00	EFF 001 Comp	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	4.5	mg/L	0.2	2
10/29/2018 10:00	EFF 001 Comp	Nutrients	Kjeldahl Nitrogen	3.5	mg N/L	0.08	0.2
10/29/2018 10:00	EFF 001 Comp	Nutrients	Fluoride	5.1	mg F/L	0.035	0.1
10/29/2018 10:00	EFF 001 Comp	Nutrients	Organic Carbon	16	mg C/L	0.5	1
10/29/2018 10:00	EFF 001 Comp	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
10/29/2018 10:00	EFF 001 Comp	Nutrients	TSS	38	mg/L	5	25
10/29/2018 10:00	EFF 001 Comp	Nutrients	Total-P	0.65	mg P/L	0.005	0.05
10/29/2018 10:00	EFF 001 Comp	Nutrients	Sulfate	1.1E+03	mg SO4/L	4	12
10/29/2018 10:00	EFF 001 Comp	Overflow	Alpha-Counting Error	5.12	pCi/L	9.08	
10/29/2018 10:00	EFF 001 Comp	Overflow	Alpha, Total	9.08 U	pCi/L	9.08	
10/29/2018 10:00	EFF 001 Comp	Nutrients	Specific Conductance	210.1	umhos/cm		
10/29/2018 10:00	EFF 001 Comp	Nutrients	Temperature	22.1	C		
10/29/2018 10:00	EFF 001 Comp	Nutrients	Dissolved Oxygen	108.6	%Sat		
10/29/2018 10:00	EFF 001 Comp	Nutrients	pH	6.80			
10/29/2018 10:50	EFF SWO	AGP/LN	Algal Growth Potential	11.0 A	mg DryWt/L	0.3	0.9
10/29/2018 10:50	EFF SWO	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	37 A	ug/L	0.4	1.2
10/29/2018 10:50	EFF SWO	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.9 I	mg/L	0.2	2
10/29/2018 10:50	EFF SWO	Chlorophyll/Grain Size/BOD	Phaeophytin-a	2.1 A	ug/L	0.6	1.8
10/29/2018 10:50	EFF SWO	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	34 A	ug/L	0.55	1.7
10/29/2018 10:50	EFF SWO	Toxicology	Bioassay-Acute-Def-FW-C.dubia, LC50	100 L	LC50		
10/29/2018 10:50	EFF SWO	Toxicology	Bioassay-Acute-Def-FW-Fish, LC50	100 L	LC50		
10/29/2018 10:50	EFF SWO	Metals	Silver	0.010 U	ug/L	0.01	0.04
10/29/2018 10:50	EFF SWO	Metals	Selenium	0.20 U	ug/L	0.2	0.8
10/29/2018 10:50	EFF SWO	Metals	Lead	0.050 U	ug/L	0.05	0.2
10/29/2018 10:50	EFF SWO	Metals	Magnesium	12.8	mg/L	0.04	0.16
10/29/2018 10:50	EFF SWO	Metals	Nickel	0.67 I	ug/L	0.2	0.8
10/29/2018 10:50	EFF SWO	Metals	Aluminum	16	ug/L	3	12
10/29/2018 10:50	EFF SWO	Metals	Cadmium	0.020 U	ug/L	0.02	0.08
10/29/2018 10:50	EFF SWO	Metals	Iron	57 I	ug/L	30	120
10/29/2018 10:50	EFF SWO	Metals	Chromium	0.40 U	ug/L	0.4	1.6
10/29/2018 10:50	EFF SWO	Metals	Sodium	107	mg/L	0.5	2
10/29/2018 10:50	EFF SWO	Metals	Copper	0.20 U	ug/L	0.2	0.8

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 10:50	EFF SWO	Metals	Arsenic	2.16	ug/L	0.05	0.2
10/29/2018 10:50	EFF SWO	Metals	Zinc	5.0 U	ug/L	5	20
10/29/2018 10:50	EFF SWO	Metals	Calcium	134	mg/L	0.075	0.3
10/29/2018 10:50	EFF SWO	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
10/29/2018 10:50	EFF SWO	Nutrients	O-Phosphate-P	0.62	mg P/L	0.04	0.1
10/29/2018 10:50	EFF SWO	Nutrients	Ammonia-N	0.15	mg N/L	0.002	0.005
10/29/2018 10:50	EFF SWO	Nutrients	Fluoride	2.5	mg F/L	0.035	0.1
10/29/2018 10:50	EFF SWO	Nutrients	Kjeldahl Nitrogen	1.2	mg N/L	0.08	0.2
10/29/2018 10:50	EFF SWO	Nutrients	Chloride	15	mg Cl/L	2	6
10/29/2018 10:50	EFF SWO	Nutrients	Color (true)	25 A	PCU	2.5	6
10/29/2018 10:50	EFF SWO	Nutrients	Total Alkalinity	72	mg CaCO3/L	0.65	2.5
10/29/2018 10:50	EFF SWO	Nutrients	Organic Carbon	8.4	mg C/L	0.5	1
10/29/2018 10:50	EFF SWO	Nutrients	TSS	5 I	mg/L	2	10
10/29/2018 10:50	EFF SWO	Nutrients	Turbidity	7.8 A	NTU	0.1	0.13
10/29/2018 10:50	EFF SWO	Nutrients	Total-P	0.74	mg P/L	0.005	0.05
10/29/2018 10:50	EFF SWO	Nutrients	Sulfate	480	mg SO4/L	2	6
10/29/2018 10:50	EFF SWO	Overflow	Alpha, Total	4.38 U	pCi/L	4.38	
10/29/2018 10:50	EFF SWO	Overflow	Alpha-Counting Error	3.05	pCi/L	4.38	
10/29/2018 10:50	EFF SWO	Pesticides	Terbufos	0.0048 U	ug/L	0.0048	0.019
10/29/2018 10:50	EFF SWO	Pesticides	Demeton	0.023 U	ug/L	0.023	0.092
10/29/2018 10:50	EFF SWO	Pesticides	Ethion	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Metalaxyl	0.17 U	ug/L	0.17	0.69
10/29/2018 10:50	EFF SWO	Pesticides	Atrazine Desethyl	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Atrazine Desisopropyl	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Chlorpyrifos Ethyl	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Fonofos	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Prometryn	0.019 U	ug/L	0.019	0.076
10/29/2018 10:50	EFF SWO	Pesticides	Simazine	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Atrazine	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Butylate	0.048 UJ	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Pesticides	Phorate	0.0048 U	ug/L	0.0048	0.019
10/29/2018 10:50	EFF SWO	Pesticides	Alachlor	0.057 U	ug/L	0.057	0.23
10/29/2018 10:50	EFF SWO	Pesticides	Ametryn	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Ethoprop	0.0048 U	ug/L	0.0048	0.019
10/29/2018 10:50	EFF SWO	Pesticides	Azinphos Methyl	0.086 U	ug/L	0.086	0.34

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 10:50	EFF SWO	Pesticides	Fenamiphos	0.029 UJ	ug/L	0.029	0.11
10/29/2018 10:50	EFF SWO	Pesticides	Prometon	0.019 U	ug/L	0.019	0.076
10/29/2018 10:50	EFF SWO	Pesticides	Bromacil	0.038 U	ug/L	0.038	0.15
10/29/2018 10:50	EFF SWO	Pesticides	Metribuzin	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Pesticides	Mevinphos	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Diazinon	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Hexazinone	0.067 U	ug/L	0.067	0.27
10/29/2018 10:50	EFF SWO	Pesticides	Malathion	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Naled	0.076 U	ug/L	0.076	0.31
10/29/2018 10:50	EFF SWO	Pesticides	Parathion Ethyl	0.019 U	ug/L	0.019	0.076
10/29/2018 10:50	EFF SWO	Pesticides	Chlorpyrifos Methyl	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Disulfoton	0.0048 U	ug/L	0.0048	0.019
10/29/2018 10:50	EFF SWO	Pesticides	Metolachlor	0.11 U	ug/L	0.11	0.46
10/29/2018 10:50	EFF SWO	Pesticides	Norflurazon	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Pesticides	Parathion Methyl	0.0095 U	ug/L	0.0095	0.038
10/29/2018 10:50	EFF SWO	Pesticides	Pendimethalin	0.10 U	ug/L	0.1	0.42
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Phenol	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Chrysene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Hexachlorobutadiene	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Naphthalene	0.095 U	ug/L	0.095	0.38
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	1,4-Dioxane	0.020 UJ	ug/L	0.02	0.08
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2,4-Dinitrophenol	9.5 U	ug/L	9.5	38
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2-Nitrophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Anthracene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Butyl benzyl phthalate	0.95 U	ug/L	0.95	3.8
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Hexachlorobenzene	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Nitrobenzene	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Acenaphthylene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 UJ	ug/L	1.9	7.6
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Pentachlorophenol	0.48 U	ug/L	0.48	1.9
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2,4-Dinitrotoluene	0.048 U	ug/L	0.048	0.19

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2,6-Dinitrotoluene	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2-Chloronaphthalene	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Hexachloroethane	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.6
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.095 U	ug/L	0.095	0.38
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Pyrene	0.095 U	ug/L	0.095	0.38
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Benzo(a)anthracene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	ug/L	1.9	7.6
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	4-Nitrophenol	9.5 U	ug/L	9.5	38
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Di-n-octyl phthalate	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2-Chlorophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.5 U	ug/L	9.5	38
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Benzo(a)pyrene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Dimethyl phthalate	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Fluorene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Phenanthrene	0.095 U	ug/L	0.095	0.38
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2,4-Dichlorophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2,4-Dimethylphenol	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	ug/L	2.9	11
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Acenaphthene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Diethyl phthalate	1.9 U	ug/L	1.9	7.6
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Fluoranthene	0.024 U	ug/L	0.024	0.095
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Isophorone	0.048 U	ug/L	0.048	0.19
10/29/2018 10:50	EFF SWO	Priority Organic Pollutants	Benzidine	9.5 U	ug/L	9.5	38

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 10:50	EFF SWO	Nutrients	Specific Conductance	1181	umhos/cm		
10/29/2018 10:50	EFF SWO	Nutrients	pH	6.77			
10/29/2018 10:50	EFF SWO	Nutrients	Temperature	20.7	C		
10/29/2018 10:50	EFF SWO	Nutrients	Dissolved Oxygen	47	%Sat		
10/29/2018 10:50	EFF SWO	Nutrients	Sample Depth	0.1	m		
10/29/2018 12:50	EFF SWD	AGP/LN	Algal Growth Potential	5.93	mg DryWt/L	0.3	0.9
10/29/2018 12:50	EFF SWD	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.4 I	ug/L	0.55	1.7
10/29/2018 12:50	EFF SWD	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.60 U	ug/L	0.6	1.8
10/29/2018 12:50	EFF SWD	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	1.3	ug/L	0.4	1.2
10/29/2018 12:50	EFF SWD	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.1 I	mg/L	0.2	2
10/29/2018 12:50	EFF SWD	Metals	Lead	0.050 U	ug/L	0.05	0.2
10/29/2018 12:50	EFF SWD	Metals	Nickel	1.02	ug/L	0.2	0.8
10/29/2018 12:50	EFF SWD	Metals	Arsenic	1.50	ug/L	0.05	0.2
10/29/2018 12:50	EFF SWD	Metals	Sodium	46.1	mg/L	0.5	2
10/29/2018 12:50	EFF SWD	Metals	Silver	0.010 U	ug/L	0.01	0.04
10/29/2018 12:50	EFF SWD	Metals	Selenium	0.20 U	ug/L	0.2	0.8
10/29/2018 12:50	EFF SWD	Metals	Chromium	0.47 I	ug/L	0.4	1.6
10/29/2018 12:50	EFF SWD	Metals	Magnesium	12.7	mg/L	0.04	0.16
10/29/2018 12:50	EFF SWD	Metals	Copper	0.20 U	ug/L	0.2	0.8
10/29/2018 12:50	EFF SWD	Metals	Cadmium	0.020 U	ug/L	0.02	0.08
10/29/2018 12:50	EFF SWD	Metals	Aluminum	60	ug/L	3	12
10/29/2018 12:50	EFF SWD	Metals	Zinc	5.0 U	ug/L	5	20
10/29/2018 12:50	EFF SWD	Metals	Calcium	71.3	mg/L	0.075	0.3
10/29/2018 12:50	EFF SWD	Metals	Iron	120	ug/L	30	120
10/29/2018 12:50	EFF SWD	Nutrients	Chloride	13	mg Cl/L	2	6
10/29/2018 12:50	EFF SWD	Nutrients	Kjeldahl Nitrogen	0.66	mg N/L	0.08	0.2
10/29/2018 12:50	EFF SWD	Nutrients	Sulfate	230	mg SO4/L	2	6
10/29/2018 12:50	EFF SWD	Nutrients	Fluoride	2.6	mg F/L	0.035	0.1
10/29/2018 12:50	EFF SWD	Nutrients	Organic Carbon	8.6	mg C/L	0.5	1
10/29/2018 12:50	EFF SWD	Nutrients	NO2NO3-N	0.075	mg N/L	0.004	0.01
10/29/2018 12:50	EFF SWD	Nutrients	O-Phosphate-P	1.0	mg P/L	0.04	0.1
10/29/2018 12:50	EFF SWD	Nutrients	Ammonia-N	0.014	mg N/L	0.002	0.005
10/29/2018 12:50	EFF SWD	Nutrients	Color (true)	32	PCU	2.5	6
10/29/2018 12:50	EFF SWD	Nutrients	Total Alkalinity	72	mg CaCO3/L	0.65	2.5
10/29/2018 12:50	EFF SWD	Nutrients	Turbidity	0.80	NTU	0.1	0.13

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 12:50	EFF SWD	Nutrients	TSS	3 I	mg/L	2	10
10/29/2018 12:50	EFF SWD	Nutrients	Total-P	1.2	mg P/L	0.025	0.25
10/29/2018 12:50	EFF SWD	Overflow	Alpha-Counting Error	1.36	pCi/L	2.39	
10/29/2018 12:50	EFF SWD	Overflow	Alpha, Total	2.39 U	pCi/L	2.39	
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2-Chloronaphthalene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Benzo(a)pyrene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Chrysene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	ug/L	1.9	7.7
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Dimethyl phthalate	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Fluoranthene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Hexachloroethane	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Nitrobenzene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2,6-Dinitrotoluene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Diethyl phthalate	1.9 U	ug/L	1.9	7.7
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Pyrene	0.096 U	ug/L	0.096	0.38
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	1,4-Dioxane	0.020 U	ug/L	0.02	0.08
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Hexachlorobenzene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2,4-Dimethylphenol	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2,4-Dinitrotoluene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9 U	ug/L	2.9	12
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	4-Nitrophenol	9.6 U	ug/L	9.6	38
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Acenaphthene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 UJ	ug/L	1.9	7.7
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.7
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Phenanthrene	0.096 U	ug/L	0.096	0.38

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2-Chlorophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Acenaphthylene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Anthracene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Benzidine	9.6 U	ug/L	9.6	38
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Di-n-octyl phthalate	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Isophorone	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Phenol	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Benzo(a)anthracene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Butyl benzyl phthalate	0.96 U	ug/L	0.96	3.8
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Fluorene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Naphthalene	0.096 U	ug/L	0.096	0.38
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Pentachlorophenol	0.48 U	ug/L	0.48	1.9
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2,4-Dichlorophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2,4-Dinitrophenol	9.6 U	ug/L	9.6	38
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	2-Nitrophenol	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.6 U	ug/L	9.6	38
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 U	ug/L	0.024	0.096
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	Hexachlorobutadiene	0.048 U	ug/L	0.048	0.19
10/29/2018 12:50	EFF SWD	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.096 U	ug/L	0.096	0.38
10/29/2018 12:50	EFF SWD	Nutrients	Temperature	18.4	C		
10/29/2018 12:50	EFF SWD	Nutrients	Dissolved Oxygen	59.6	%Sat		
10/29/2018 12:50	EFF SWD	Nutrients	pH	7.05			
10/29/2018 12:50	EFF SWD	Nutrients	Sample Depth	0.2	m		
10/29/2018 12:50	EFF SWD	Nutrients	Specific Conductance	672	umhos/cm		
10/29/2018 14:00	EFF SWB	AGP/LN	Algal Growth Potential	14.2	mg DryWt/L	0.3	0.9
10/29/2018 14:00	EFF SWB	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.2 I	mg/L	0.2	2
10/29/2018 14:00	EFF SWB	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.60 U	ug/L	0.6	1.8
10/29/2018 14:00	EFF SWB	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.4 I	ug/L	0.55	1.7
10/29/2018 14:00	EFF SWB	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Uncorrected	1.6	ug/L	0.4	1.2
10/29/2018 14:00	EFF SWB	Metals	Calcium	48.5	mg/L	0.075	0.3
10/29/2018 14:00	EFF SWB	Metals	Sodium	12.7	mg/L	0.5	2

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 14:00	EFF SWB	Metals	Chromium	0.66 I	ug/L	0.4	1.6
10/29/2018 14:00	EFF SWB	Metals	Arsenic	1.02	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Metals	Nickel	0.82	ug/L	0.2	0.8
10/29/2018 14:00	EFF SWB	Metals	Magnesium	10.1	mg/L	0.04	0.16
10/29/2018 14:00	EFF SWB	Metals	Selenium	0.20 U	ug/L	0.2	0.8
10/29/2018 14:00	EFF SWB	Metals	Copper	0.20 U	ug/L	0.2	0.8
10/29/2018 14:00	EFF SWB	Metals	Iron	90 I	ug/L	30	120
10/29/2018 14:00	EFF SWB	Metals	Silver	0.010 U	ug/L	0.01	0.04
10/29/2018 14:00	EFF SWB	Metals	Lead	0.12 I	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Metals	Zinc	5.0 U	ug/L	5	20
10/29/2018 14:00	EFF SWB	Metals	Cadmium	0.047 I	ug/L	0.02	0.08
10/29/2018 14:00	EFF SWB	Metals	Aluminum	125	ug/L	3	12
10/29/2018 14:00	EFF SWB	Nutrients	Organic Carbon	8.4	mg C/L	0.5	1
10/29/2018 14:00	EFF SWB	Nutrients	Total-P	1.9	mg P/L	0.025	0.25
10/29/2018 14:00	EFF SWB	Nutrients	Turbidity	3.2	NTU	0.1	0.13
10/29/2018 14:00	EFF SWB	Nutrients	Kjeldahl Nitrogen	0.60	mg N/L	0.08	0.2
10/29/2018 14:00	EFF SWB	Nutrients	NO2NO3-N	0.20	mg N/L	0.004	0.01
10/29/2018 14:00	EFF SWB	Nutrients	Total Alkalinity	80 A	mg CaCO3/L	0.65	2.5
10/29/2018 14:00	EFF SWB	Nutrients	TSS	4 IA	mg/L	2	10
10/29/2018 14:00	EFF SWB	Nutrients	Ammonia-N	0.017	mg N/L	0.002	0.005
10/29/2018 14:00	EFF SWB	Nutrients	O-Phosphate-P	1.6	mg P/L	0.04	0.1
10/29/2018 14:00	EFF SWB	Nutrients	Sulfate	77 A	mg SO4/L	0.2	0.6
10/29/2018 14:00	EFF SWB	Nutrients	Chloride	8.7 A	mg Cl/L	0.2	0.6
10/29/2018 14:00	EFF SWB	Nutrients	Color (true)	29	PCU	2.5	6
10/29/2018 14:00	EFF SWB	Nutrients	Fluoride	3.0	mg F/L	0.035	0.1
10/29/2018 14:00	EFF SWB	Overflow	Alpha-Counting Error	1.11	pCi/L	1.84	
10/29/2018 14:00	EFF SWB	Overflow	Alpha, Total	1.84 U	pCi/L	1.84	
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0 U	ug/L	3	12
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Benzidine	10 U	ug/L	10	40
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Benzo(k)fluoranthene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Chrysene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Hexachlorobutadiene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.025 U	ug/L	0.025	0.1

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Naphthalene	0.10 U	ug/L	0.1	0.4
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2,4-Dichlorophenol	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Anthracene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Benzo(a)anthracene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.10 U	ug/L	0.1	0.4
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2-Nitrophenol	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	4-Nitrophenol	10 U	ug/L	10	40
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Acenaphthylene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Di-n-butyl phthalate	2.0 U	ug/L	2	8
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Di-n-octyl phthalate	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Diethyl phthalate	2.0 U	ug/L	2	8
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Fluoranthene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Isophorone	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Phenol	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2,4-Dinitrotoluene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2-Chloronaphthalene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Acenaphthene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Benzo(b)fluoranthene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Dimethyl phthalate	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Hexachloroethane	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0 U	ug/L	2	8
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Pentachlorophenol	0.50 U	ug/L	0.5	2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Benzo(a)pyrene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Hexachlorobenzene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Nitrobenzene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Pyrene	0.10 U	ug/L	0.1	0.4
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2,4-Dimethylphenol	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0 UJ	ug/L	2	8
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Butyl benzyl phthalate	1.0 U	ug/L	1	4
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.050 U	ug/L	0.05	0.2

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Phenanthrene	0.10 U	ug/L	0.1	0.4
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2,6-Dinitrotoluene	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10 U	ug/L	10	40
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	Fluorene	0.025 U	ug/L	0.025	0.1
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	1,4-Dioxane	0.020 UY	ug/L	0.02	0.08
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2,4-Dinitrophenol	10 U	ug/L	10	40
10/29/2018 14:00	EFF SWB	Priority Organic Pollutants	2-Chlorophenol	0.050 U	ug/L	0.05	0.2
10/29/2018 14:00	EFF SWB	Nutrients	pH	7.2			
10/29/2018 14:00	EFF SWB	Nutrients	Temperature	21.5	C		
10/29/2018 14:00	EFF SWB	Nutrients	Dissolved Oxygen	61.0	%Sat		
10/29/2018 14:00	EFF SWB	Nutrients	Sample Depth	0.3	m		
10/29/2018 14:00	EFF SWB	Nutrients	Specific Conductance	366.9	umhos/cm		
10/29/2018 11:40	Field blank	Metals	Calcium	0.075 U	mg/L	0.075	0.3
10/29/2018 11:40	Field blank	Metals	Chromium	0.40 U	ug/L	0.4	1.6
10/29/2018 11:40	Field blank	Metals	Lead	0.050 U	ug/L	0.05	0.2
10/29/2018 11:40	Field blank	Metals	Iron	30 U	ug/L	30	120
10/29/2018 11:40	Field blank	Metals	Arsenic	0.050 U	ug/L	0.05	0.2
10/29/2018 11:40	Field blank	Metals	Silver	0.010 U	ug/L	0.01	0.04
10/29/2018 11:40	Field blank	Metals	Selenium	0.20 U	ug/L	0.2	0.8
10/29/2018 11:40	Field blank	Metals	Zinc	5.0 U	ug/L	5	20
10/29/2018 11:40	Field blank	Metals	Nickel	0.20 U	ug/L	0.2	0.8
10/29/2018 11:40	Field blank	Metals	Aluminum	3.0 U	ug/L	3	12
10/29/2018 11:40	Field blank	Metals	Copper	0.20 U	ug/L	0.2	0.8
10/29/2018 11:40	Field blank	Metals	Cadmium	0.020 U	ug/L	0.02	0.08
10/29/2018 11:40	Field blank	Metals	Sodium	0.50 U	mg/L	0.5	2
10/29/2018 11:40	Field blank	Metals	Magnesium	0.040 U	mg/L	0.04	0.16
10/29/2018 11:40	Field blank	Nutrients	Kjeldahl Nitrogen	0.080 U	mg N/L	0.08	0.2
10/29/2018 11:40	Field blank	Nutrients	Chloride	0.20 U	mg Cl/L	0.2	0.6
10/29/2018 11:40	Field blank	Nutrients	Total-P	0.002 U	mg P/L	0.002	0.005
10/29/2018 11:40	Field blank	Nutrients	Organic Carbon	0.50 U	mg C/L	0.5	1
10/29/2018 11:40	Field blank	Nutrients	Total Alkalinity	0.65 U	mg CaCO3/L	0.65	2.5

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 11:40	Field blank	Nutrients	Color (true)	2.5 U	PCU	2.5	6
10/29/2018 11:40	Field blank	Nutrients	Turbidity	0.10 U	NTU	0.1	0.13
10/29/2018 11:40	Field blank	Nutrients	O-Phosphate-P	0.004 U	mg P/L	0.004	0.01
10/29/2018 11:40	Field blank	Nutrients	Ammonia-N	0.002 U	mg N/L	0.002	0.005
10/29/2018 11:40	Field blank	Nutrients	NO2NO3-N	0.004 U	mg N/L	0.004	0.01
10/29/2018 11:40	Field blank	Pesticides	Atrazine Desethyl	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Ethion	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Ethoprop	0.0047 UJ	ug/L	0.0047	0.019
10/29/2018 11:40	Field blank	Pesticides	Fonofos	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Metolachlor	0.11 UJ	ug/L	0.11	0.46
10/29/2018 11:40	Field blank	Pesticides	Metribuzin	0.047 UJ	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Pesticides	Chlorpyrifos Ethyl	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Malathion	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Metalaxyl	0.17 UJ	ug/L	0.17	0.68
10/29/2018 11:40	Field blank	Pesticides	Mevinphos	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Azinphos Methyl	0.085 UJ	ug/L	0.085	0.34
10/29/2018 11:40	Field blank	Pesticides	Disulfoton	0.0047 UJ	ug/L	0.0047	0.019
10/29/2018 11:40	Field blank	Pesticides	Hexazinone	0.066 UJ	ug/L	0.066	0.27
10/29/2018 11:40	Field blank	Pesticides	Parathion Ethyl	0.019 UJ	ug/L	0.019	0.076
10/29/2018 11:40	Field blank	Pesticides	Terbufos	0.0047 UJ	ug/L	0.0047	0.019
10/29/2018 11:40	Field blank	Pesticides	Atrazine Desisopropyl	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Naled	0.076 UJ	ug/L	0.076	0.3
10/29/2018 11:40	Field blank	Pesticides	Ametryn	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Bromacil	0.038 UJ	ug/L	0.038	0.15
10/29/2018 11:40	Field blank	Pesticides	Chlorpyrifos Methyl	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Parathion Methyl	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Phorate	0.0047 UJ	ug/L	0.0047	0.019
10/29/2018 11:40	Field blank	Pesticides	Simazine	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Alachlor	0.057 UJ	ug/L	0.057	0.23
10/29/2018 11:40	Field blank	Pesticides	Butylate	0.047 UJ	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Pesticides	Prometon	0.019 UJ	ug/L	0.019	0.076
10/29/2018 11:40	Field blank	Pesticides	Prometryn	0.019 UJ	ug/L	0.019	0.076
10/29/2018 11:40	Field blank	Pesticides	Atrazine	0.0095 UJ	ug/L	0.0095	0.038
10/29/2018 11:40	Field blank	Pesticides	Demeton	0.023 UJ	ug/L	0.023	0.091
10/29/2018 11:40	Field blank	Pesticides	Diazinon	0.0095 UJ	ug/L	0.0095	0.038

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 11:40	Field blank	Pesticides	Fenamiphos	0.028 UJ	ug/L	0.028	0.11
10/29/2018 11:40	Field blank	Pesticides	Norflurazon	0.047 UJ	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Pesticides	Pendimethalin	0.10 UJ	ug/L	0.1	0.42
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8 U	ug/L	2.8	11
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Naphthalene	0.094 U	ug/L	0.094	0.38
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Fluorene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Hexachlorobutadiene	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Isophorone	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Pentachlorophenol	0.47 U	ug/L	0.47	1.9
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2-Chlorophenol	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1.9 UJ	ug/L	1.9	7.5
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Hexachloroethane	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	0.094 U	ug/L	0.094	0.38
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9 U	ug/L	1.9	7.5
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Anthracene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Acenaphthene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Benzidine	9.4 U	ug/L	9.4	38
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Butyl benzyl phthalate	0.94 U	ug/L	0.94	3.8
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.9 U	ug/L	1.9	7.5
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Dimethyl phthalate	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Pyrene	0.094 U	ug/L	0.094	0.38
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2,4-Dimethylphenol	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2,4-Dinitrophenol	9.4 U	ug/L	9.4	38
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2-Chloronaphthalene	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	9.4 U	ug/L	9.4	38

Date Sampled	Site	Analysis Group	Component	Result	Units	MDL	PQL
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Benzo(a)anthracene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Benzo(a)pyrene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Diethyl phthalate	1.9 U	ug/L	1.9	7.5
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Phenanthrene	0.094 U	ug/L	0.094	0.38
10/29/2018 11:40	Field blank	Priority Organic Pollutants	1,4-Dioxane	0.020 U	ug/L	0.02	0.08
10/29/2018 11:40	Field blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	4-Nitrophenol	9.4 U	ug/L	9.4	38
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Chrysene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Phenol	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2-Nitrophenol	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Acenaphthylene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Fluoranthene	0.024 U	ug/L	0.024	0.094
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Hexachlorobenzene	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	Nitrobenzene	0.047 U	ug/L	0.047	0.19
10/29/2018 11:40	Field blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.047 U	ug/L	0.047	0.19