Biological Assessment of

Military Point Regional AWT Facility

NPDES #FL0167959

Military Point Industrial Lagoon

NPDES #FL0002631

Bay County

Sampled June 10 and 12, 2013

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Biology Section

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Facility Overview

The Military Point Regional Advanced Wastewater Treatment (AWT) Facility is an Advanced Domestic Wastewater Treatment plant. The Military Point Industrial Lagoon is an industrial wastewater treatment plant. Effluents of both facilities are discharged via a diffuser through a common outfall into St. Andrew Bay, a Class III Marine Water (see map Appendix A). The permitted design flow for the Military Point Regional AWT Facility wastewater system is 7.0 million gallons per day (MGD) annual average daily flow (AADF) and 37 MGD AADF for Military Point Industrial Lagoon. The actual mean flow during this survey was 4.17 MGD for Military Point Regional AWT and 28.0 MGD for Military Point Industrial Lagoon (Northwest District sampling staff).

Biological assessments are prepared by FDEP 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.

See the Facility Summary (Appendix B) for a description of the facility, a summary of permit limits, and Consent Order (CO) and Discharge Monitoring Report (DMR) information.

Methods

The purpose of this investigation was to determine the discharger's effects on the biota of the receiving waters. Chemical and biological comparisons were made between a Test Site at the outfall and a Control Site approximately 1.24 miles northwest of the outfall. These two locations were used because they are historical sampling sites for this facility. The facility was discharging to the bay when the Fifth Year sampling was conducted. Sites were sampled on an outgoing tide (water flowing west); the effluent pipe's diffuser boil could be seen at the time of sampling. Effluent grab samples from Military Point AWT were collected from the EFF-04 sampling point on 6/10/13 for biological and chemical analyses. Effluent composite samples from Military Point AWT were also collected on 6/10/13 for biological and chemical analyses and toxicity testing. Effluent grab samples from Military Point Industrial Lagoon were collected from the EFF-1 sampling point on 6/10/13 for biological and chemical analyses and toxicity testing. Effluent composite samples from Military Point Industrial Lagoon were collected from the EFF-1 sampling point on 6/12/13 for additional chemical testing. Grab samples for biological and chemical analyses, including sediment samples, were collected from the Control and Test Sites on 6/12/13.

All field and laboratory biological methods followed Bureau of Laboratories and Biology Section Standard Operating Procedures (see http://www.dep.state.fl.us/labs/library/lab_sops.htm and http://www.dep.state.fl.us/water/sas/sop/sops.htm for details) and met DEP quality assurance/quality control standards (see http://www.dep.state.fl.us/water/sas/qa/index.htm). Explanations of specific methods and measurements can be found in Appendix C.

The following were involved in this investigation: Nathan Mulkey and Rick Abad (DEP Northwest District) and FDEP Central Laboratory in Tallahassee. The report was reviewed by District representatives and the Point Source Studies Review Committee (Mike Tanski, Andrew Tintle, and Jennifer Weger).

Results

Organic Constituents - Water (See Table 1 and Appendix F)

- 1,4-Dioxane, bromacil and sucralose were detected in the Military Point AWT effluent grab sample.
- 1,2,3,4,6,7,8-heptachlorodibenzo-*p*-dioxin, 1,2,3,4,6,7,8-heptachlorodibenzofuran, 1,2,3,4,5,6,7,8-octachlorodibenzo-*p*-dioxin, and total hepta-dioxins were detected in the Military Point Industrial Lagoon effluent grab sample at a level between the method detection limit (MDL) and the practical quantitation limit (PQL). 1,2,3,4,6,7,8-heptachlorodibenzofuran and 1,2,3,4,5,6,7,8-octachlorodibenzo-*p*-dioxin were also detected in the method blank (V-qualifier).
- 1,4-Dioxane was detected in the Military Point Industrial Lagoon composite sample. However, this sample was not properly preserved (Y-qualifier).
- 2,3,7,8-tetrachlorodibenzo-*p*-dioxin, an effluent permitted analyte for the Military Point Industrial Lagoon, was not detected in either facility's effluent during this inspection.
- 1,4-Dioxane and sucralose were detected in the Control and Test Site grab samples.
- 1,2,3,4,5,6,7,8-octachlorodibenzo-*p*-dioxin was detected in the Control Site sample at a level between the MDL and PQL.

- 1,4-Dioxane was detected in the field blanks for both effluents
- 1,2,3,4,5,6,7,8-octachlorodibenzo-*p*-dioxin was detected at a level between the MDL and PQL in the Military Point Industrial Lagoon field blank. 1,2,3,4,5,6,7,8-octachlorodibenzo-*p*-dioxin was also detected in the method blank (V-qualifier).

Nutrients (See Table 1 and Appendix F)

- There was no detectable nutrient enrichment from either effluent at the Test Site.
- Total phosphorus and total nitrogen detected in the Military Point AWT composite sample complied with permitted limits.
- Total ammonia and nitrate+nitrite were detected between the MDL and PQL in the Military Point Industrial Lagoon field blank.

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

- The shoreline was mostly natural at the Control and Test Sites. Both sites had similar tidal fluctuations, flow, and wave action. The sediment at both sites consisted of a mixture of sand and mud. Both sites receive only natural runoff.
- The pH (Standard Units) of the Military Point AWT effluent was below the minimum limit for Class III Marine Water Quality Criterion (62-302.530(51)(c), F.A.C.) but complied with the permit limit. Dissolved oxygen (mg/L) complied with Class III Marine Water Quality Criterion and the permitted limit.
- Dissolved oxygen and pH of the Military Point Industrial Lagoon effluent and the receiving water complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.) and effluent permit limits.
- Total residual chlorine (TRC) was not measured in the field for either effluent and was not detected in either toxicity sample received in the Central Laboratory.
- Chlorophyll *a* was undetected in the effluent grab samples from both facilities and was detected at low levels at the Control and Test Sites.
- Carbonaceous biochemical oxygen demand (CBOD) was detected between the MDL and PQL (I-qualifier) in the Military Point AWT effluent composite sample, which complies with the permitted limit, but was held beyond the normal holding time (Q-qualifier). This value is considered to be estimated because the control sample level was not within the acceptable limits (J-qualifier). CBOD was also detected in the method blank (V-qualifier).
- CBOD was detected in the Military Point Industrial Lagoon effluent grab sample, but the permit limit was for biochemical oxygen demand (BOD) (ψ-qualifier), which measures both carbonaceous and nitrogenous oxygen demand. This value is considered to be estimated because the control sample level was not within the acceptable limits (J-qualifier).
- Total suspended solids (TSS) were undetected in the Military Point AWT effluent composite sample, which complies with the permitted limit.
- TSS were detected in the Military Point Industrial Lagoon effluent grab sample, but the result was in milligrams per liter while the permit limit was in pounds per day (ϕ-qualifier). There was not enough information available to convert units, so compliance with the permit limit was unable to be determined.

Toxicity Whole Effluent Test (See Table 1 and Appendices F and G)

- Tests were performed June 11 through June 17, 2013.
- The Military Point AWT effluent composite sample was not toxic to the fish, *Pimephales promelas*, or to the water flea*, Ceriodaphnia dubia,* during the chronic definitive bioassays and therefore, complied with effluent permit limits. The sample used for renewal of the fish test was received 59 minutes out of hold, which caused the test result to be Q and J-qualified.
- The Military Point Industrial Lagoon effluent composite sample was toxic to the fish, *Pimephales promelas*, and to the water flea, *Ceriodaphnia dubia*, during the chronic definitive bioassays and therefore, did not comply with effluent permit limits. Toxicity can be partially attributed to the concentration of aluminum in the sample. The aluminum concentration of 2,590 µg/L exceeded the MATC (maximum acceptable toxicant concentration) reported for reproductive effects on *C. dubia* of 1,600 - 1,900 µg/L of aluminum (McCauley, D. J., *et al*. 1986). Unidentified constituents in the sample cannot be ruled out as contributing to the observed toxicity. When the samples were received, the temperature of one of the three sample bottles used for renewal of the fish test was above the acceptable limit by 2.6 ° C (Y-qualifier). The sample submittal sheet that documented the above-temperature toxicity sample was lost prior to being scanned or copied and is unavailable for reference.

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

Microbiology (See Table 1 and Appendix F)

- Enterococci were detected in the Military Point AWT effluent grab sample at a level that complies with permit limits and were detected at a higher level in the Industrial Lagoon; however, there is no permitted enterococci limit for the Industrial Lagoon effluent. Enterococci were undetected at the Control Site and detected at a low level at the Test Site.
- Fecal coliforms were not detected in the Military Point AWT effluent grab sample, which complies with Class III Marine Water Quality Criterion (62-302.530, F.A.C) and the permitted limit. Fecal coliforms were detected in the Industrial Lagoon effluent grab sample at a level that complies with the Class III Criterion and permitted limits. Control and Test Site fecal coliforms were detected at levels that complied with the Class III Marine Water Quality Criterion (62-302.530, F.A.C.).

Metals - Water (See Table 2 and Appendix F)

- Military Point AWT effluent composite sample copper was detected at a level that exceeded Class III Marine Quality Criterion (6-302.530(23), F.A.C.) but was not in violation of the facility's permitted limit.
- Military Point AWT effluent composite sample nickel and zinc were detected at levels that complied with Class III Marine Quality Criteria (62-302.530, F.A.C.) and effluent permit limits. All other metals in the Military Point AWT effluent composite sample were present at levels that complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.).
- Military Point Industrial Lagoon effluent grab sample aluminum and iron were detected at levels that exceeded the Class III Marine Quality Criteria (62-302.530(2), F.A.C. and 62-302.530(38), F.A.C., respectively) but complied with the permit limits.
- All metals in Control and Test Site grab samples were either undetected or detected at levels that complied with Class III Marine Water Quality Criteria (62-302.530, F.A.C.).
- Lead was detected in the Military Point Industrial Lagoon field blank between the MDL and PQL.

Algal Growth Potential (See Table 3 and Appendix F)

- Raschke and Shultz (1987) determined that AGP values above 10.0 mg dry weight/L, which represents a "problem" threshold for marine receiving waters, imply nutrient enrichment. The AGP of the salinity adjusted Military Point AWT effluent grab sample was slightly above this threshold, and the AGP of the salinity adjusted Industrial Lagoon effluent grab sample was approximately three times higher than this threshold. The AGP values of the marine receiving water Control and Test Sites were below detection for the saltwater species *Dunaliella tertiolecta*. The ratio of total nitrogen to total phosphorus suggests that the Military Point AWT effluent is co-limited, the Military Point Industrial Lagoon is nitrogen limited and the receiving water is phosphate limited.
- The AGP of the freshwater Military Point AWT effluent grab sample was 35.3 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. The AGP of the freshwater Military Point Industrial Lagoon effluent grab sample was 5.55 mg dry wt/L. Raschke and Schultz (1987) found that AGP values above 5.0 mg dry weight/L, which represents a "problem" threshold for fresh receiving waters, imply nutrient enrichment.

Sediments (See Table 3, Figures 1 and 2, and Appendix F)

- The Control and Test Site sediments had similar organic content.
- The Control and Test site sediments had similar sediment particle size distribution except the Control Site had slightly more < 0.063 mm particles and the Test Site had slightly more 0.25-0.5 mm particles.
- In sediments, no organic constituents were detected at the Control Site. Total chromium, copper, lead, nickel and zinc were detected in the Control Site sediment sample at levels that did not exceeded the Threshold Effects Level (TEL) or Probable Effects Level (PEL) for sediment metals. Silver was detected between the MDL and PQL.
- Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene were detected in the Test Site sediment sample, all at levels between the MDL and PQL. Total chromium, copper, lead, nickel and zinc were also detected in the Test Site sediment sample, and silver was detected between the MDL and PQL. None of these sediment levels exceeded the TEL or PEL for sediment levels.

Bioassessment

Phytoplankton (See Table 4)

- Phytoplankton communities at the Control and Test Sites consisted mostly of diatoms (85-90%). Of the wet algae counted, the dinoflagellate, *Protoperidinium* sp., was dominant, but it was not present in great quantity. There were no apparent adverse effects on the phytoplankton community in St. Andrew Bay from these effluents.

Macroinvertebrates (See Table 5)

- No study establishing the path of the effluent plume was conducted prior to sampling. Historical sampling sites were used for this assessment, and the Test Site is under the influence of both the Military Point AWT and the Military Point Industrial Lagoon discharges.
- The Test Site sample (Shannon Weaver Diversity score 4.91) contained more taxa than the Control Site sample (Shannon Weaver Diversity score 3.95). The Test Site was mostly polychaetes (50.9%) followed by bivalves (32.6%) while the Control Site was mostly amphipods (33.9%) followed by polychaetes (28.9%).
- There were no apparent adverse effects on the macroinvertebrate community in St. Andrew Bay from the effluents.
- For more information or to obtain a copy of the taxa lists, please call the Biology Laboratory at 850-245-8177.

Conclusion

The Military Point AWT effluent was below the minimum Class III Marine Quality Criterion limit for pH but complied with the permit limit. The Military Point AWT effluent composite sample exceeded the Class III Criterion for copper but not the permit limit. The Military Point Industrial Lagoon effluent grab sample exceeded the Class III Marine Water Quality Criterion limit for aluminum (62-302.530(2), F.A.C.) and iron (62-302.530(38), F.A.C.). Several polychlorinated dibenzodioxins and polychlorinated dibenzofurans were detected in effluents from both facilities, but they were also detected in field blanks and method blanks, so field and laboratory contamination is suspected. The Military Point Industrial Lagoon effluent composite sample was toxic to both the water flea, *Ceriodaphnia dubia*, and the fish, *Pimephales promelas*, during the chronic definitive bioassay. AGP values of both effluents suggest the potential for nutrient enrichment, but the combined effluent did not appear to be contributing to nutrient enrichment at the Test Site. There were no apparent adverse effects on either the macroinvertebrate or phytoplankton communities in St. Andrew Bay from the effluents.

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Table 1a. Effluent limits, Class III Criteria for predominantly marine waters and chemical, microbiological and toxicological data

Military Point Regional AWT Facility and Industrial Lagoon	Class III Criteria	Military Point Regional AWT Effluent Limits	Military Point Regional AWT Effluent Composite	Military Point Regional AWT Effluent Grab	Military Point Industrial Lagoon Effluent Limits	Military Point Industrial Lagoon Effluent Grab	Military Point Industrial Lagoon Effluent Composite	Control Site	Test Site
Organic Constituents (µg/L unless otherwise noted)									
1,4-Dioxane	-	-	-	0.58	-	-	58 Y	0.33	0.69
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin (pg/L) ⍰	-	-	-	-	≤ 0.014 s	2.25 U	-	1.41 U	1.4 U
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin (pg/L) ⍰	-	-	-	-	-	2.04 IJ	-	2.34 U	5.19 I
1,2,3,4,6,7,8-Heptachlorodibenzofuran (pg/L) ⍰	-	-	-	-	-	0.625 IJV	-	0.33 U	0.954 IJV
Bromacil	-	-	-	1.2	-	-	0.22 U	0.20 U	0.20 U
Chloroform	-	-	-	-	Report	0.20 U	-	0.20 U	0.20 U
1,2,3,4,5,6,7,8-Octachlorodibenzo-*p*-dioxin (pg/L) ⍰	-	-	-	-	-	16 IV	-	5.81 IJV	68 V
Sucralose	-	-	-	33	-	-	0.010 U	0.12	0.18
Total Hepta-Dioxins (pg/L) ⍰	-	-	-	-	-	3.47 I	-	2.34 U	10.5 I
Nutrients (mg/L)									
Ortho-phosphate	-	-	-	0.031	-	0.45	-	0.004 U	0.007 I
Total Phosphorus	-	≤ 4.0 s	0.069	-	Report	0.85	-	0.016	0.02
Total Ammonia	-	Report	-	0.009	Report	0.97	-	0.004 IJ	0.007
Un-ionized Ammonia	-	Report	-	< 0.02 c	Report	< 0.02 c	-	< 0.02 c	< 0.02 c
Nitrate and Nitrite	-	Report	0.63	-	Report	0.007 I	-	0.01	0.011
Total Kjeldahl Nitrogen	-	-	0.77	0.82	Report	3	-	0.4	0.43
Organic Nitrogen	-	-	-	-	-	2.03 c	-	0.3960 c	0.4230 c
Total Nitrogen	-	≤ 16.0 s	1.4	-	Report	3.007 c	-	0.4100 c	0.4410 c
Total Organic Carbon	-	-	-	6.6	-	92	-	3.3	3.9
General Physical and Chemical Parameters									
Habitat Assessment	-	-	-	-	-	-	-	63	55
Dissolved Oxygen (mg/L)	≥ 4.0	≥ 6.0	-	6.4	≥ 5.0	7.4	-	6.76	6.79
pH (SU)	6.5 - 8.5	6.0 - 8.5	-	6.4	6.5 - 8.5	7.2	-	8.1	8.1
Specific Conductance (µmhos/cm)	-	-	-	643	-	2,018	-	48,241	47,278
Temperature (°C)	-	Report	-	27.68	Report	30.21	-	29.45	29.46
Salinity - calculated	-	-	-	0	-	0	-	28.6 c	28 c
Sample Depth (m)	-	-	-	-	-	-	-	0.15	0.15
Total Residual Chlorine (mg/L)	≤ 0.01	-	-	< 0.03 UQ£	-	< 0.03 UQ£	-	-	-
Chlorophyll *a* (µg/L) - Corrected	-	-	-	0.55 U	-	1.0 U	-	1.3 I	2
Phaeophytin (µg/L)	-	-	-	0.40 U	-	0.73 U	-	0.40 U	0.40 U
Total Suspended Solids (mg/L)	-	≤ 20.0 s	2 U	-	-	10 Aϕ	-	3 U	3 I
Turbidity (NTU)	< 29 t	Report	-	0.55	Report	23	-	0.70	1.0
Color (true, PCU)	-	-	-	24 A	Report	1,000	-	5.4 I	2.5 U
Alkalinity (mg CaCO3/L)	-	-	-	72 A	-	310	-	110	110
CBOD, 5 day (mg/L), N - inhibited	-	≤ 20.0 s	1.2 IVJQ	-	-	9.6 AJψ	-	1.1 I	0.75 I
Chemical Oxygen Demand (mg/L)	-	-	-	-	Report	390	-	780	590
Chloride (mg/L)	-	-	-	110	-	200	-	17,000	17,000
Cyanide (µg/L)	≤ 1.0	-	-	-	-	0.005 U	-	0.005 U	0.005 U
Fluoride (mg/L)	≤ 5.0	-	-	0.41	-	0.15	-	1.1	1.1
Sulfate (mg/L)	-	-	-	54 A	-	380	-	2,500	2,400
Flow (MGD)	-	-	4.17	-	Report	28.0	-	-	-
Hardness (mg $CaCO_3$)	-	-	122.90 c	-	-	199.00 c	-	5753.17 c	5959.07 c
Toxicity (Chronic Definitive, IC25, % effluent)									
Bioassay - Water flea *(Ceriodaphnia dubia)*	-	≥ 100	> 100	-	≥ 100	-	41	-	-
Bioassay - Fish *(Pimephales promelas)*	-	≥ 100	> 100 QJ	-	≥ 100	-	43.2 Y	-	-
Microbiology (Number of colony forming units/100ml)									
Fecal Coliforms ¥	≤ 400 s #	≤ 86 s	-	1 U	≤ 800 s	53	-	2	4
Enterococci ¥	-	≤ 104 s	-	40 B	-	2120 B	-	4 U	4 B

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

Value exceeds the Class III Water Quality Criteria or permit limits

b - Value is calculated based on hardness
c - Value is calculated
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
B - Results based on colony counts outside the acceptance range
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
L - Actual value is known to be greater than value given (Appears in Appendix F)
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
V - Analyte was detected in both sample and method blank
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
IC25 - A 25% inhibition concentration less than 100% effluent will constitute a violation of either permit
¥ - Fecal coliform analysis performed by The Water Spigot, Panama City
- If 10 or fewer samples are taken within a month, the single sample limit is 400 CFU (62-302.530(6), F.A.C.)
£ - measurement taken in the FDEP laboratory
ϕ - Permitted limit is 15,012 lbs/day
ψ - Permitted limit is for BOD (15,012 lbs/day)
⍰ - Polychlorinated dibenzodioxins and polychlorinated dibenzofurans were analyzed by ALS Environmental laboratory in Houston, Texas.

Table 1b. Class III Criteria for predominantly marine waters and general physical and chemical parameter depth profile

Military Point Regional AWT Facility and Industrial Lagoon	Class III Criteria	Control Site (6/12/13)	Test Site (6/12/13)
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L) - top	≥ 4.0	6.76	6.79
Dissolved Oxygen (mg/L) - middle	≥ 4.0	6.39	6.32
Dissolved Oxygen (mg/L) - bottom	≥ 4.0	6.12	6.05
Dissolved Oxygen (% saturation) - top	-	105.7	105.6
Dissolved Oxygen (% saturation) - middle	-	98.0	97.1
Dissolved Oxygen (% saturation) - bottom	-	93.9	93
pH (SU) - top	6.5 - 8.5	8.1	8.1
pH (SU) - middle	6.5 - 8.5	8.0	8.07
pH (SU) - bottom	6.5 - 8.5	8.0	8.02
Conductivity (µmhos/cm) - top	-	48,241	47,278
Conductivity (µmhos/cm) - middle	-	50,901	49,039
Conductivity (µmhos/cm) - bottom	-	52,014	51,536
Temperature (°C) - top	-	29.45	29.46
Temperature (°C) - middle	-	28.03	28.26
Temperature (°C) - bottom	-	27.83	27.83
Salinity (ppt) - top	-	31.32	30.65
Salinity (ppt) - middle	-	33.34	31.90
Salinity (ppt) - bottom	-	34.17	33.79
Measurement Depth (m) - top	-	0.216	0.260
Measurement Depth (m) - middle	-	3.511	3.356
Measurement Depth (m) - bottom	-	6.819	6.794

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

Table 2. Effluent limits, Class III Marine Criteria and metals data

Military Point Regional AWT Facility and Industrial Lagoon	Class III Criteria	Military Point Regional AWT Effluent Limits	Military Point Regional AWT Effluent Composite	Military Point Industrial Lagoon Effluent Limits	Military Point Industrial Lagoon Effluent Grab	Control Site	Test Site
Metals (µg/L unless otherwise noted)							
Aluminum	≤ 1,500	≤ 1,500 s	14 I	≤ 10,000 s	2,590	180 U	180 U
Antimony	≤ 4,300	-	-	≤ 4,300 s	0.65 I	0.75 U	0.75 U
Arsenic	≤ 50	-	0.49 I	≤ 36 s	12.6	1.6 I	1.4 I
Cadmium	≤ 8.8	-	0.050 U	-	0.14 I	0.15 U	0.15 U
Calcium (mg/L)	-	-	36.9	-	54.3	358	358
Chromium, total	-	-	0.40 I	-	3.8	0.90 U	0.90 U
Chromium-VI	≤ 50	-	-	≤ 50 s	12 UQ	2.4 U	2.4 U
Copper	≤ 3.7	≤ 25 s	20.4	≤ 21 s	3.25	1.5 U	1.5 U
Iron	≤ 300	≤ 300 s	53 I	≤ 1,100 s	490	90 U	90 U
Lead	≤ 8.5	-	0.20 U	≤ 8.5 s	0.95 ‡	0.60 U	0.60 U
Magnesium (mg/L)	-	-	7.47	-	15.4	1,180	1,230
Mercury €	≤ 0.025	-	-	≤ 0.025 s	0.0013	0.0018	0.00066
Molybdenum	-	-	-	Report	3.89	10.3	9.6
Nickel	≤ 8.3	-	3.83	Report	3.29	0.75 U	0.75 U
Selenium	≤ 71	-	0.20 U	-	0.94	0.73 I	0.60 U
Silver	≤ 2.3	-	0.025 U	-	0.040 I	0.075 U	0.075 U
Sodium	-	-	74.6	-	380	9,490	9,820
Zinc	≤ 86	-	41	≤ 86.0 s	26	15 U	15 U

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

Value exceeds the Class III Water Quality Criteria or permit limits

s - Single sample

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

Q - Sample held beyond normal holding time

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

€ - Laboratory blank result was 0.0011 µg/L

‡ - Field blank result was 0.20 I µg/L

Table 3. 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 of the freshwater species *Pseudokirchneriella subcapitata*, salt adjusted AGP for the saltwater species *Dunaliella tertiolecta*, and ratios of nitrogen to phosphorus

Military Point Regional AWT Facility and Industrial Lagoon								
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**
Military Point Regional AWT Effluent *	Marine	10.8	-	-	-	-	20.6 #	11.9 #
Military Point Regional AWT Effluent	Fresh	35.3	24.3 ± 4.9	13.3 ± 2.7	55.1 ± 11.0	29.7 ± 5.9	20.6 #	11.9 #
Military Point Industrial Lagoon Effluent *	Marine	33.0	-	-	-	-	2.2	3.5
Military Point Industrial Lagoon Effluent	Fresh	5.55	37.1 ± 7.4	-	114.3 ± 22.9	-	2.2	3.5
Control Site	Marine	3.00 UJQ	-	-	-	-	-	25.6
Test Site	Marine	3.00 UJQ	-	-	-	-	-	22.1

A dash (-) indicates that the predicted AGP/ratio is not applicable.

Fresh - *Pseudokirchneriella subcapitata* (freshwater species)
Marine - *Dunaliella tertiolecta* (saltwater species)
* - Military Point AWT sample salinity adjusted to 7.6 ppth; Industrial Lagoon sample salinity adjusted to 7.5 ppth
# - ratios calculated using NH3 and TKN from grab sample and NO2NO3 and TP from composite sample
J - Estimated value
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit

Table 4. Sediment data for Military Point Regional AWT Facility and Industrial Lagoon

Military Point Regional AWT Facility and Industrial Lagoon	TEL†	PEL†	Control Site	Test Site
Particle Size Distribution (percent volume < 2mm)				
< 0.063 mm	-	-	36.2	28.4
0.063 - 0.125 mm	-	-	4.65	4.47
0.125 - 0.25 mm	-	-	16.3	17
0.25 - 0.5 mm	-	-	26.8	33.9
0.5 - 2.0 mm	-	-	16.1	16.2
> 2.0 mm (percent dry weight)	-	-	1.0 K	2.2
Organic Content				
Organic Content (percent dry weight)	-	-	3.7	3.3
Organic Constituents (ug/kg)				
Benzo(a)anthracene	74.8	693	11 U	19 I
Benzo(a)pyrene	88.8	763	11 U	22 I
Benzo(b)fluoranthene	-	-	11 U	33 I
Benzo(g,h,i)perylene	-	-	11 U	15 I
Chrysene	108	846	11 U	16 I
Fluoranthene	113	1494	11 U	21 I
Indeno(1,2,3-cd)pyrene	-	-	11 U	12 I
Pyrene	153	1398	11 U	24 I
Metals (mg/kg)				
Cadmium	0.676	4.21	0.038 U	0.039 U
Chromium, total	52.3	160	8.11	6.23
Copper	18.7	108	2.59	2.11
Lead	30.2	112	4.3	3.3
Nickel	15.9	42.8	2.16	1.71
Silver	0.733	1.77	0.019 I	0.014 I
Zinc	124	271	10	8.3

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

† - Sediment Quality Assessment Guidelines (MacDonald 1994): TEL = Threshold Effects Level; PEL = Probable Effects Level

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

K - Actual value is known to be less than value given

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

Table 5. Phytoplankton composition

Military Point Regional AWT Facility and Industrial Lagoon	**Control Site**	**Test Site**
Number of Taxa	17	16
Number of Wet Algal Units Identified	300	301
Algal Density (number/mL)	1,072	991
Percent Dominant Wet Taxon	52.3	38.7
Dominant Wet Taxon Name	*Protoperidinium* sp. (Dinophyceae)	*Protoperidinium* sp. (Dinophyceae)
Number of Diatom Taxa	37	30
Number of Diatom Valves Identified	500	500
Percent Dominant Diatom Taxon	19.2	24.0
Dominant Diatom Taxon Name	*Tabularia investiens*	*Skeletonema* sp.
Percentage Composition of Wet Algae		
Blue-green algae	2.6	2.6
Green algae	3.0	2.0
Diatoms	85.5	89.7
Cryptophytes	0.0	1.0
Euglenophytes	1.3	0.0
Pyrrophytes	7.7	4.6

Table 6. Macroinvertebrate petite ponar samples - quantitative

Military Point Regional AWT Facility and Industrial Lagoon	Control Site	Test Site
Summary Statistics		
Shannon-Weaver Diversity	3.95	4.91
Number of Taxa	48	67
Percent Dominant Taxon	30.5	10.5
Dominant Taxon Name	*Ampelisca* sp. (Amphipoda)	*Fabricinuda trilobata* (Sabellida)
Number of samples/site	6	6
Total Number of Individuals (counted)	357	521
Community Composition: Percent of total		
Amphipoda	33.9	6.5
Bivalvia	19.3	32.6
Cumacea	3.9	0.2
Decapoda	3.1	2.7
Gastropoda	1.4	0.8
Isopoda	0.0	0.4
Nemertea	5.6	3.5
Oligochaeta	0.0	0.2
Polychaeta	28.9	50.9
Sipuncula	1.4	1.5
Tanaidacea	2.0	0.4
Other	0.6	0.4
Functional Feeding Groups: Percent of total		
Browser-Grazers	18.8	4.0
Burrowing Deposit Feeders	11.2	9.4
Predators	19.2	18.9
Scavengers	17.6	4.5
Scrapers	1.0	0.8
Surface Deposit Feeders	3.7	6.2
Suspension Feeders	25.2	42.8
Unknown	3.4	13.4

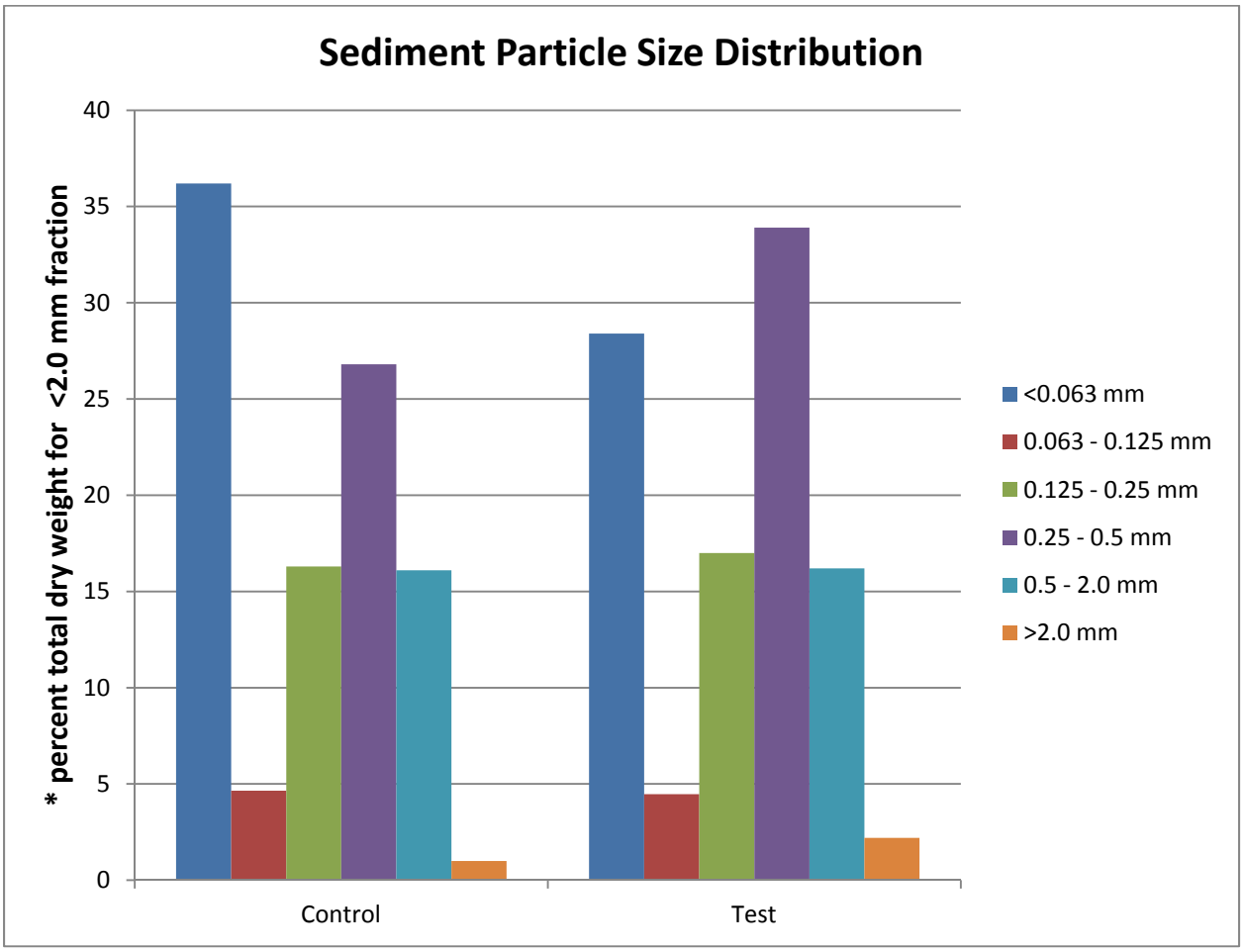


Figure 1. Sediment particle size

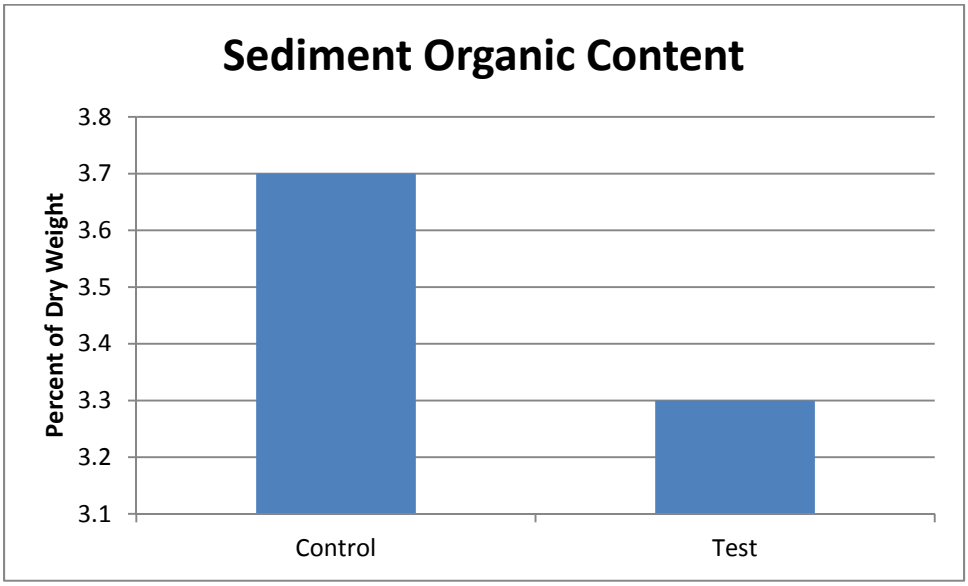
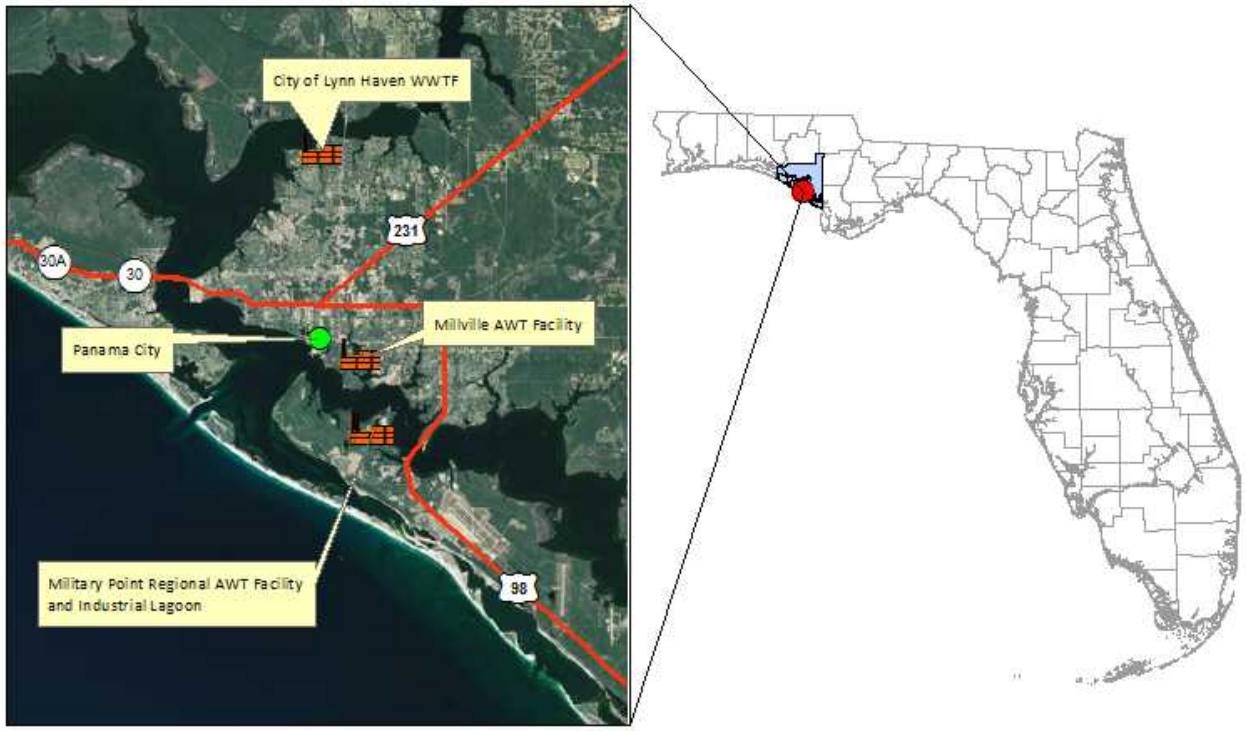
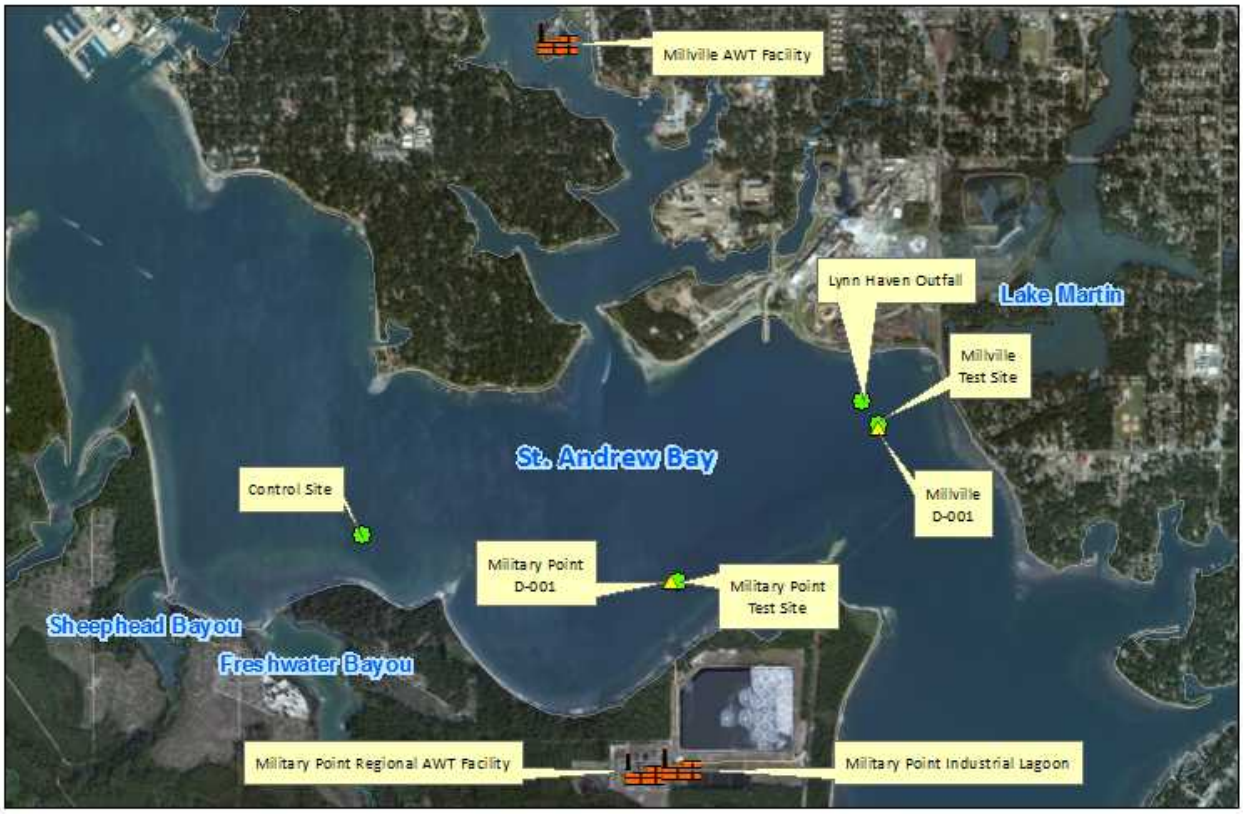


Figure 2. Sediment percent organics

Appendix A
Military Point Regional AWT Facility and Industrial Lagoon/Millville AWT Facility

Fifth Year Bioassessment Sampling Locations





Appendix B-1

Military Point Regional AWT Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event

Prepared By: Daniel J. Crean and Josie Penton	**Contact Number:** (850) 767-0054
Facility Name (as it appears on permit): Military Point Regional AWT Facility	**Former Names:**
NPDES Permit Number: **FL0167959**	**Permit Expiration Date:** September 17, 2014
Physical Address: 100 Lagoon Road, Panama City, Florida 33404-2079	
District: NWD	**County:** Bay County
Function of Facility: Municipal Wastewater Treatment Plant	
Facility Type: 5-Stage Biological Nutrient Removal Wastewater Treatment System	**Permitted Capacity (MGD):** 7.0 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): 3.7 MGD 08/01/2012 to 08/31/2013	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months):	
Description of type of Discharge: **X Continuous** ☐ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify**	

Actual permit designation of permitted sampling point(s):

2. Effluent samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site	Description of Monitoring Site
FLW-01	Flow Meter on Effluent Pipe to Military Point Lagoon Outfall Structure
EFB-01	Filter Effluent Channel, Turbidity Meter and Grab Sample Point
EFF-04	Effluent Pump Station Clear Well
CAL-01	Calculated Value

Description of Permitted Outfall(s):

The discharge pipe extends approximately 1300 feet into the bay and discharges via a diffuser at adepth of approximately 17 feet. The point of discharge is located approximately at latitude 30°7' 28" N, longitude 85°37' 52" W.

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

5-Stage Biological Nutrient Removal Wastewater Treatment System including screening, degritting, an anaerobic zone, first anoxic zone, an aeration zone, second anoxic zone, and a reaeration zone, clarification, filtration, and two methods of disinfection. Basic and intermediate levels of disinfection are provided by an ultraviolet light (UV) system and high-level disinfection is achieved through chlorination with sodium hypochlorite. Effluent disposal following intermediate-level UV disinfection is to St. Andrew Bay.

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)

			Limitations		Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site	Notes
Flow, to Surface Waters	MGD	Max Max	7.0 9.1	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-01	See I.A.4
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	10.0 10.0 15.0 20.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFF-04	
Solids, Total Suspended	mg/L	Max Max Max Max	10.0 10.0 15.0 20.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFF-04	
Nitrogen, Total	mg/L	Max Max Max Max	8.0 8.0 12.0 16.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFF-04	
Phosphorus, Total (as P)	mg/L	Max Max Max Max	2.0 2.0 3.0 4.0	Annual Average Monthly Average Weekly Average Single Sample	5 Days/Week	24-hr FPC	EFF-04	
Coliform, Fecal	#/100mL	Max Max Max	14 14 86	Annual Average Monthly Median Single Sample	5 Days/Week	Grab	EFF-04	See I.A.5
Enterococci	#/100mL	Max Max	35 104	Monthly Geo. Mean Single Sample	5 Days/Week	Grab	EFF-04	See I.A.9
pH	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	Continuous	Grab	EFF-04	See I.A.3
Oxygen, Dissolved (DO)	mg/L	Min	6.0	Single Sample	Daily; 24 hours	Grab	EFF-04	
Copper, Total Recoverable	ug/L	Max	25.0	Single Sample	Quarterly	24-hr FPC	EFF-04	
Aluminum, Total Recoverable	ug/L	Max	1500	Single Sample	Quarterly	24-hr FPC	EFF-04	
Iron, Total Recoverable	ug/L	Max	300	Single Sample	Quarterly	24-hr FPC	EFF-04	
Ultraviolet Light Dosage	mW-s/sqcm	Min	43.5	See Condition I.A.8	Continuous	Calculated	CAL-01	
Turbidity	NTU	Max	Report	See Condition I.A.8	Continuous	Meter	EFB-01	
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-04	See I.A.6
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	Quarterly	24-hr FPC	EFF-04	See I.A.6

PART I: Continued

Receiving Waters:	Classification (indicate whether fresh or marine):
St. Andrews Bay	**Marine**

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

Chronic Whole Effluent Toxicity – Ceriodaphnia dubia
Chronic Whole Effluent Toxicity – Pimephales promelas

c. Sampling Requirements

(1) For each routine test or additional follow-up test conducted, a total of three 24-hr Flow Proportioned Composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-014, Section 8.

(2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.

(3) Samples for routine and additional follow-up tests shall not be collected on the same day.

d. Test Requirements

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.

(2) The permittee shall conduct a daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and a fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.

(3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th ed., EPA-821-R-02-013. 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 chronic 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-02-013, Section 7.

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic 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 chronic 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 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (**Ceriodaphnia dubia**) and Section 11.11 (**Pimephales promelas**). The repeat test shall begin within 21 days after the last day of the invalid test.

(3) If 100% mortality occurs in all effluent concentrations prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

Facility Mixing Zone Details (if applicable):

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

Date	Parameter and Units	Limit	Result
none			

Describe previous FYI and WQBEL study:

Effluent limitations are based on a Level II WQBEL, which was finalized by FDEP NWD in June 2004.

Previous FYI – Sampled 1/26/09. Report issued 2/2010

Describe previous or current Enforcement Actions (including WLs):

OGC #00-0294 closed 3/24/09.

Describe any violations or problems noted in previous inspection:

None

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

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

Partial reuse.

PART II: Sampling Event Information

Date(s) sample collected: 6/10/13	Sampler(s): Nathan Mulkey
Temperature (Deg C): 27.68	pH (SU): 6.37
Dissolved Oxygen (mg/L): 6.49	Conductivity (umhos/cm): 643
Total Residual Chlorine (mg/L):	Total Residual Chlorine - after Disinfection (mg/L):
Method of Chlorination:	Method of De-chlorination:

Flow During Sample Collection for each outfall(MGD):

4.17

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):

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:

Appendix B-2

Military Point Industrial Lagoon Facility Summary

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Kim Allen	**Contact Number:** x10553
Facility Name (as it appears on permit): Military Point Industrial Lagoon	**Former Names:**
NPDES Permit Number: FL0002631	**Permit Expiration Date:** 12/2/14
Physical Address: Lagoon Road, Tyndall AFB, FL 32403	
District: NWD	**County:** Bay
Function of Facility: Treatment facility for Paper Mill and Arizona Chemical	
Facility Type: Industrial	**Permitted Capacity (MGD):** 37 MGD
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months): **22.69 monthly average daily flow (7/12 – 6/13)**	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months):	
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):

Sample Point	Description of Monitoring Location
EFF-1	Sampling Point at Top of Cascade
I- 002 (Arizona Chem)	Internal Outfall – Arizona Chemical
BayBack	Background Sampling Station – St. Andrews Bay (to be proposed in Bay Study required by AO064NW)

Description of Permitted Outfall(s):

The St. Andrew Bay Outfall outfall line is approximately 1300 feet in length, discharges at a depth of approximately 17.5 feet and the point of discharge is located approximately at latitude 30° 07' 30" N, longitude 85° 37' 52" W.

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

Military Point Aerated Lagoon's secondary treatment system consists of a 69 acre lagoon divided into 5 cells by 4 curtain walls to direct flow and create an aerated stabilization cells with forty-five, 75 horsepower aerators and a quiescent cell, Cell #5, for solids settling.

A sludge handling facility, constructed in 1992, consists of two lined ponds, approximately 8.8 acres, the thickening pond is built with 6 inches of concrete over a 20 mil visquine lining and the decant pond is built with a 20 mil PVC lining. Mechanical dewatering will be allowed on a case-by-case basis following the Florida Department of Environmental Protection (DEP) approval. Solids are dredged from the solids settling cell on a routine basis into the sludge handling facility. Decant water is returned to Cell #1 of the 69 acre lagoon. Residuals from the sludge handling facility are land applied at agronomic rates to farm land sites pre-approved by DEP or disposed of by incineration following DEP approval.

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)

	Discharge Limitations			Monitoring Requirements		
Parameters (units)	Monthly Average	Daily Maximum	Other	Monitoring Frequency	Sample Type	Sample Point
Biochemical Oxygen Demand-5 (LBS/DAY)	7,506	15,012	NA	3/week	Calculated	CALC
Flow (MGD)	Report	Report	NA	Continuous	Recorder	EFF-1
pH (SU)	NA	8.5	6.5 min	Continuous	Grab	EFF-1
Oxygen, Dissolved (DO) (MG/L)	NA	NA	5.0 min.	Daily	Grab	See Note 3
Coliform, Fecal (General) (#/100ML)	NA	800	200 Annual Ave.	Monthly	Grab	EFF-1
Solids, Total Suspended (LBS/DAY)	7,506	15,012	NA	3/week	Calculated	CALC
Nitrogen, Total (LBS/DAY)	Report	Report	NA	Monthly	Calculated	CALC
Whole Effluent Toxicity (Chronic)	See Permit Condition I.A.5					EFF-1
Nitrogen, Kjeldahl, Total (as N) (MG/L)	Report	Report	NA	Monthly	24-hour comp.	EFF-1
Nitrogen, Ammonia, Total (as N) (MG/L)	Report	Report	NA	Monthly	24-hour comp.	EFF-1
Ammonia, Unionized (as NH3) (MG/L)	Report	Report	NA	Monthly	Calculated	CALC
Nitrite plus Nitrate, Total 1 det. (as N) (MG/L)	Report	Report	NA	Monthly	24-hour comp.	EFF-1
Temperature (DEG.C)	Report	Report	NA	2/week	Grab	EFF-1
Phosphorus, Total (as P) (LBS/DAY)	Report	Report	NA	Monthly	Calculated	CALC
COD mg/l	Report	Report	NA	Weekly	24-hour comp.	EFF-1
Color (PT-CO)	Report	Report	NA	Monthly	24-hour comp.	EFF-1
Arsenic, Total Recoverable (UG/L)	36	36	NA	Quarterly	24-hour comp.	EFF-1
Aluminum, Total Recoverable (MG/L)	10.0	10.0	NA	Quarterly	24-hour comp.	EFF-1
Copper, Total Recoverable (UG/L)	21	21	NA	Quarterly	24-hour comp.	EFF-1
Iron, Total Recoverable (MG/L)	1.10	1.10	NA	Quarterly	24-hour comp.	EFF-1

	Discharge Limitations			Monitoring Requirements		
Parameters (units)	**Monthly Average**	**Daily Maximum**	**Other**	**Monitoring Frequency**	**Sample Type**	**Sample Point**
Lead, Total Recoverable (UG/L)	8.5	8.5	NA	Quarterly	24-hour comp.	EFF-1
Mercury, Tot. Rec. (UG/L)	0.025	0.025	NA	Quarterly	Grab	EFF-1
Nickel, Total Recoverable (UG/L)	8.3 See Note 2	8.3 See Note 2	NA	Quarterly	24-hour comp.	EFF-1
Antimony, Total Recoverable (UG/L)	4300	4300	NA	Quarterly	24-hour comp.	EFF-1
Chromium, Total Recoverable Hexavalent (UG/L)	50	50	NA	Quarterly	Grab	EFF-1
Molybdenum, Total Recoverable (UG/L)	Report	Report	NA	Quarterly	24-hour comp.	EFF-1
Zinc, Total Rec. (UG/L)	86.0	86.0	NA	Quarterly	24-hour comp.	EFF-1
Chloroform (UG/L)	Report	Report	NA	Quarterly	Grab	EFF-1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (PG/L)	0.014	0.014	NA	Quarterly	24-hour comp.	EFF-1
Turbidity(Background)(NTU)	Report	Report	NA	Weekly	24-hour comp.	BayBack
Turbidity(Effluent)(NTU)	Report	Report	NA	Weekly	24-hour comp.	EFF-1
Turbidity (Calculated Limit) (NTU)	NA	See I.A.4	NA	Weekly	Calculated	CALC
Transparency See Note 1	NA	NA	See Note 1 & 62-302.530 (67)	Quarterly	24-hour comp.	EFF-1

Note 1 – Administrative Order AO064NW establishes an interim limit for Transparency and Turbidity as "Report Only". Also, Administrative Order AO064NW requires submittal of a POS which will establish the proper protocol and methodology for sampling and monitoring of Transparency and Turbidity as well as appropriate locations for background sampling and monitoring for Transparency and Turbidity throughout the permit term.

Note 2 - Interim limit for Nickel set by AO064NW is "Report Only" until Mixing Zone (MZ) request for Nickel is reviewed and processed.

Note 3 – Sample is taken from the bottom of the cascade when MP Regional AWTF is not discharging. Location lat 30° 07' 10.9" N, long 85° 37' 49.6" W

PART I: Continued

Receiving Waters:	Classification (indicate whether fresh or marine):
St. Andrew Bay	Class III Marine

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

c. Sampling Requirements

(1) For each routine test or additional follow-up test conducted, a total of three 24-hr Flow Proportioned Composite samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-014, Section 8.
(2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
(3) Samples for routine and additional follow-up tests shall not be collected on the same day.

d. Test Requirements

(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.
(2) The permittee shall conduct a daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and a fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.
(3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th ed., EPA-821-R-02-013. 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 chronic 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-02-013, Section 7.

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic 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 chronic 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 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (**Ceriodaphnia dubia**) and Section 11.11 (**Pimephales promelas**). The repeat test shall begin within 21 days after the last day of the invalid test.
(3) If 100% mortality occurs in all effluent concentrations prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.
(4) Additional follow-up tests shall be evaluated for acceptability based on the observed doseresponse relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

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

AO064NW was issued on 12/3/09 with the permit on and was Amended on 12/2/12 to extend the final compliance date. The extension gives until 12/31/13 for the final compliance with the Permit's Final limits or other relief mechanism, AO paragraph III.8, for Transparency, Turbidity and Nickel.

Facility Mixing Zone Details (if applicable):

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

Date	Parameter and Units	Limit	Result
3/13	TSS Total Recoverable Hex. Chromium	7506 lbs/day 50 mg/L	6552 lbs/day 60 mg/L

Describe previous FYI and WQBEL study:

A Level I Water Quality Based Effluent Limit (WQBEL) study was conducted, utilizing in part, the results of pretreatment permit monitoring from 2002 through 2007 during the preparation of this permit and fact sheet. Most if not all of the organics sampled during that 5 year period were "Non-Detects". A few of the metals and chloroform were detected at low levels and were therefore included with the discharge monitoring scheme for this permit. A Level II WQBEL study was submitted to the Department in 1996 and indicated that the discharge had no impact on the receiving waters.

Describe previous or current Enforcement Actions (including WLs):

Describe any violations or problems noted in previous inspection:

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

Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse):

PART II: Sampling Event Information

Date(s) sample collected: 6/10/13	Sampler(s): Nathan Mulkey, Rick Abad
Temperature (Deg C): 30.21	pH (SU): 7.16
Dissolved Oxygen (mg/L): 7.40	Conductivity (umhos/cm): 2018
Total Residual Chlorine (mg/L):	Total Residual Chlorine - after Disinfection (mg/L):
Method of Chlorination:	Method of De-chlorination:
Flow During Sample Collection for each outfall(MGD): 28.0	
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):	
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:

Appendix C

Explanation of Measurements

(1) Quality Assurance and Quality Control

FDEP's quality assurance requirements for analytical laboratories and field activities are codified in Chapter 62-160, F.A.C., Quality Assurance (QA Rule) and in internal Standard Operating Procedures (FDEP SOPs). Methods for all analyses are on file at the FDEP Central Laboratory in Tallahassee and may be viewed on the web at http://www.dep.state.fl.us/labs/library/lab_sops.htm and/or http://www.dep.state.fl.us/water/sas/sop/sops.htm.

(2) Chemical Analyses

The effluent and water from sampling stations were analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides. The results from these analyses were compared with Water Quality Criteria (62-302 F.A.C.) and facility permit limits. Exceedances of Water Quality Criteria may constitute violations of specific provisions of Chapter 62-302 (F.A.C.) and/ or facility permit limits.

(3) Toxicity Bioassays

Greater than 50% mortality in an acute toxicity test may constitute an exceedance of 62-302.500(1)a and/or a violation of 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 a violation of 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 a violation of facility permit limits. Standard reference toxicant (SRT) tests are conducted monthly to ensure quality in toxicity testing.

(4) Bacteriological Testing

High levels of fecal coliform bacteria may constitute an exceedance of 62-302.530(6) and/or a violation of 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.

(5) Chlorophyll *a* Content

Chlorophyll *a* content is an estimate algal biomass. High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and 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..

(6) 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. Raschke and Shultz (1987) found that an AGP above 10.0 mg dry weight/L represents a “problem” threshold for marine receiving waters, implying nutrient enrichment. 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..f

The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP in a low salinity sample 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 (EPA-822-B-00-002). 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. Expected AGP is not calculated for marine samples incubated with *Dunaliella*.

(7) Sediment Sampling

Sediments were collected using a petite ponar dredge at all sampling stations. Sediment samples were analyzed for metals, organic constituents, pesticides, organic content and sediment grain size. The results from these analyses were compared with sediment quality assessment guidelines applicable to Florida coastal waters (Table 4. in MacDonald 1994). The range of sediment contaminant concentrations that fall below the threshold effects level (TEL) are not likely to be associated with adverse biological effects on aquatic organisms. The range of sediment contaminant concentrations that fall above the probable effects level (PEL) are usually or always associated with adverse biological effects. Within the range of concentrations delineated by the TEL (lower limit) and the PEL (upper limit), adverse biological effects are possible but it is difficult to predict the occurrence, nature, and/or severity of these effects (MacDonald 1994).

(8) Benthic Macroinvertebrate Assemblages

Benthic macroinvertebrates were collected using a petite ponar dredge at all sampling stations. Five replicate ponar samples were collected at each station and sieved through a 500 μm mesh. Benthic macroinvertebrates were sorted and identified to the lowest practical taxonomic level, usually species.

Taxa richness: Taxa richness is the number of distinct macroinvertebrate taxa present in a sample. Decreases in taxa richness related to a facility's effluent may constitute exceedances of 62-302.530(46) F.A.C., 62-302.530(47)(a) F.A.C., 62-302.530(47)(b) F.A.C. and/or 62-302.530(61) F.A.C..

Percent Contribution of Dominant Taxon: Percent contribution of the dominant taxon is calculated by dividing the number of individuals in the most abundant taxa by the total number of individuals counted. Percent contribution of the dominant taxon tends to increase with increasing perturbation (Plafkin *et al*., 1989). Increases in the percent contribution of the dominant taxon related to a facility's effluent 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..

Community Composition: Shifts in proportions of major groups of organisms downstream of a point source, compared to upstream, control conditions, may indicate negative effects of a discharge (Karr and Chu 1998). Shifts in community composition related to a facility's effluent may constitute exceedances of 62-302.530(46) F.A.C., 62-302.530(47)(a) F.A.C., 62-302.530(47)(b) F.A.C. and/or 62-302.530(61) F.A.C..

Functional Feeding Groups: Environmental degradation may differentially affect groups of invertebrates based on how the group feeds (e.g. predators, deposit feeders, etc.). Changes in the proportions of functional feeding groups related to a facility's effluent may constitute exceedances of 62-302.530(46) F.A.C., 62-302.530(47)(a) F.A.C., 62-302.530(47)(b) F.A.C. and/or 62-302.530(61) F.A.C..

Shannon-Weaver Diversity Index: This index is specified in the Florida Administrative Code 62-302 as a measure of biological integrity. Low diversity scores are undesirable. Where diversity is low, only a few taxa are abundant as compared to an area where many taxa are present in equitable abundance among taxa (Magurran 1988). A difference of 25% in Shannon-Weaver diversity between samples at test and control sites constitutes exceedances of 62-302.530(10) F.A.C..

(9) 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 D

Chain of Custody

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-06-10-25
FYI Military Point AWT Sampling Inspection

Requester: Michelle Fish
Field Report Prepared By: N. Milby
Collected By: Nathan Milby / Rick Abud
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
	Military Point AWT	☑ Comp ☐ Grab Date 6/9/13 Time 1200 Eastern Central	Date 6/10/13 Time 0001 Eastern Central	B
	Field ID: TOX 1	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments	

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
	Military Point AWT	☑ Comp ☐ Grab Date 6/9/13 Time 0001 Eastern Central	Date 6/10/13 Time 0001 Eastern Central	B
	Field ID: Effluent (comp)	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments	

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
	Military Point AWT	☐ Comp ☑ Grab Date 6/10/13 Time 1120 Eastern Central	Date Time Eastern Central	A
	Field ID: Effluent AWT	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L) 6.40	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C) 29.68	pH 6.37	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm) 643; NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments	

Lab ID *	Location	Collection (comp begin or grab)	Composite end	Bottle Group(s)**
	Military Point AWT	☐ Comp ☐ Grab Date 6/10/13 Time 1145 Eastern Central	Date Time Eastern Central	C D
	Field ID: Field Blank	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number
	Matrix (include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number
	Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Comments	

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	6/10/13	Fed Ex	ARB	6-11-13 @920				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

6/11/13 @10am
2 bioassays AP

Page 1 of 4

The Water Spigot
5806 E. Hwy. 22 * Panama City, FL 32404
(850) 871-1900 * Fax (850) 871-9303
Email:trishj-waterspigot@comcast.net

No. 64818

CHAIN OF CUSTODY RECORD

Company Name / Plant: FDEP
Company Address: 160 W. Gart St.
City, State, Zip: Pensacola, FL 32502
Sent Report To: Nathan Milky
Copy To DEP / DOH (circle one): Yes ☒ No ☐
Email Address ☒ Yes ☐ No: nathan.milky@dep.state.fl.us
Phone #: 850 595 0626
Fax #:
Fax Results ____ Yes ____ No

Project Name: FYI Milton Pt AWT
Lab Dispose ☑
Return to Client ☐
Other ☐
Sample #
Container #
Check If Rush
Special Instructions
P.O. # RQ-2013-06-10-25

Sampling Date	Sampling Time	Type: Comp	Type: Grab	Matrix: Water	Matrix: Sludge	Matrix: W. Water	Matrix: Soil	Sample Site (Be Specific)	# of Containers	Analysis Requested: Enter.D MF	Analysis Requested: Fecal MF	Field Data: Temp.	Field Data: CL2	Field Data: pH	Preservative Codes
6/10/13	1120		X			X		Effluent AWT	1	X	X				

Analysis Requested / Preservatives / Containers

Preservative Codes: A - Ammonium Chloride; C - Cool Only; H - Hydrochloric Acid; M - Monochloracetic Acid; N - Nitric Acid; OH - Sodium Hydroxide; S - Sulfuric Acid; T - Sodium Thiosulfate; Z - Zinc Acetate

Container Codes: V - VOA vial; G - glass; P - plastic; M - micro bag/cup; O - Other

Sampled By & Title: Nathan Milky - FDEP — Date: 6/10/13 — Time: 1120
Received By
Received By
Received By
Received in Lab By: [illegible] — Date: 6/11/13 — Time: 1115

Relinquished By: [signature] — Date / Time: 6/11/13 1415
Relinquished By — Date / Time
Relinquished By — Date / Time
Shipped VIA: UPS BUS HAND FED EX OTHER
Remarks
Temp. Received in Lab: 5.6

Distribution: Original - LAB Yellow - CLIENT

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-06-10-24
FYI Military Point Industrial Lagoon Sampling Inspection

Requester: Michelle Fish
Field Report Prepared By: N. Mulky
Collected By: Nathan Mulky / Rick Abad
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location / Field ID / Matrix / Temp (C) / pH / Latitude / Longitude	Collection (comp begin or grab) Eastern Central / Composite end Eastern Central / Tot Res Chlorine (mg/L) / Diss Oxygen (mg/L) / Storet Station Number / Sample Depth / Salinity (PPTh) / Sp Conductance (umho/cm) / NPDES Number / Comments	Bottle Group(s)**
	Location: Military Point Industrial Lagoon Field ID: Effluent Lagoon Matrix: Temp (C): 30.21 pH: 7.16 Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms	☐ Comp ☑ Grab Collection Date 6/10/13 Time 1300 Central Tot Res Chlorine (mg/L) Diss Oxygen (mg/L) 7.40 Sample Depth ☐ m ☐ ft 2018 ☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm) Comments	A
	Location: Military Point Industrial Lagoon Field ID: TOX 1 Matrix: Temp (C): pH: Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms	☑ Comp ☐ Grab Collection (comp begin or grab) Eastern Central Date 6/9/13 Time 0800 Central Composite end Eastern Central Date 6/10/13 Time 0800 Central Tot Res Chlorine (mg/L) Diss Oxygen (mg/L) Sample Depth ☐ m ☐ ft ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm) Comments	B
	Location: Military Point Industrial Lagoon Field ID: Field Blank Matrix: Temp (C): pH: Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms	☐ Comp ☐ Grab Collection (comp begin or grab) Eastern Central Date 6/10/13 Time 1330 Central Tot Res Chlorine (mg/L) Diss Oxygen (mg/L) Sample Depth ☐ m ☐ ft ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm) Comments	C/D
	Location: Military Point Industrial Lagoon Field ID: Effluent Composite Matrix: Temp (C): pH: Latitude: ☐ dd ☐ dms Longitude: ☐ dd ☐ dms	☐ Comp ☐ Grab Collection (comp begin or grab) Eastern Central Date Time Composite end Eastern Central Date Time Tot Res Chlorine (mg/L) Diss Oxygen (mg/L) Sample Depth ☐ m ☐ ft ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm) Comments	B

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	6/10/13	Fed Ex		6-11-13 0920				

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

6/11/13 @ 10am
2 bioassays AP

The Water Spigot
5806 E. Hwy. 22 * Panama City, FL 32404
(850) 871-1900 * Fax (850) 871-9303
Email:trishj-waterspigot@comcast.net

No. 64819

CHAIN OF CUSTODY RECORD

Company Name / Plant: FDEP
Company Address: 160 W Gart St
City, State, Zip: Pensacola, FL 32502
Sent Report To: Nathan Mulkey
Copy To DEP / DOH (circle one): Yes [X] No [ ]
Email Address: [ ] Yes [ ] No: nathan.mulkey@dep.state.fl.us
Phone #: 850 595 0626
Fax #: Fax Results ____ Yes ____ No

Project Name: FYI Military Pk. Aerated Lagoon
Lab Dispose [ ]
Return to Client [ ]
Other [ ]

Sample #
Container #
Check If Rush
Special Instructions
P.O. # RQ-2013-06-10-24

Sampling Date	Sampling Time	Type Comp	Type Grab	Matrix Water	Matrix Sludge	Matrix WW Water	Matrix Soil	Sample Site (Be Specific)	# of Containers	Analysis Requested: Preservatives / Containers / Entire MF / Final MF	Field Data: Temp.	Field Data: CL2	Field Data: pH
6/10/13	1300		X			X		Effluent Lagoon	1	Entire MF: X; Final MF: X; 6 13; 2 16 11			

Preservative Codes: A - Ammonium Chloride; C - Cool Only; H - Hydrochloric Acid; M - Monochloracetic Acid; N - Nitric Acid; OH - Sodium Hydroxide; S - Sulfuric Acid; T - Sodium Thiosulfate; Z - Zinc Acetate

Container Codes: V - VOA vial; G - glass; P - plastic; M - micro bag/cup; O - Other

Sampled By & Title: Nathan Mulkey FDEP | Date: 6/10/13 | Time: 1300 | CL
Received By
Received By
Received By
Received in Lab By: Brittney Saturday | 14:15

Relinquished By: [signature] | Date / Time: 6/10/13 14:15
Relinquished By | Date / Time
Relinquished By | Date / Time
Shipped VIA: UPS BUS HAND FED EX OTHER
Remarks | Temp. Received in Lab: 5.6

Distribution: Original - LAB Yellow - CLIENT

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2013-06-10-24
FYI Military Point Industrial Lagoon Sampling Inspection

Requester: Michelle Fish
Field Report Prepared By: N. Mulkey
Collected By: Nathan Mulkey / Rick Abad
Send Final Report To: Kim Allen
Sampling Agency: FDEP

Customer: NW-DIST
Project ID: FYI5
PMAS: 1143

Lab ID *	Location / Field ID / Matrix / Temp / pH / Latitude / Longitude	Collection / Composite / Chlorine / Oxygen / Sample Depth / Salinity / Conductance / NPDES / Comments	Bottle Group(s)**
	Location: Military Point Industrial Lagoon Field ID: Effluent Lagoon Matrix:	☐ Comp ☑ Grab; Collection (comp begin or grab) Eastern Date 6/12/13 Time 1100 Central; Composite end Eastern Date Time Central; Tot Res Chlorine (mg/L); Diss Oxygen (mg/L); Storet Station Number; Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number; Temp (C); pH; Latitude ☐ dd ☐ dms; Longitude ☐ dd ☐ dms; Comments	A
	Location: Military Point Industrial Lagoon Field ID: TOX 2 Lagoon Matrix:	☑ Comp ☐ Grab; Collection (comp begin or grab) Eastern Date 6/11/13 Time 0800 Central; Composite end Eastern Date 6/12/13 Time 0800 Central; Tot Res Chlorine (mg/L); Diss Oxygen (mg/L); Storet Station Number; Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm); NPDES Number; Temp (C); pH; Latitude ☐ dd ☐ dms; Longitude ☐ dd ☐ dms; Comments: 24 hr composite	B
	Location: St. Andrew Bay off Palmetto Point Field ID: Control Matrix: Salt, Fresh, etc)	☐ Comp ☑ Grab; Collection (comp begin or grab) Eastern Date 6/12/13 Time 1330 Central; Composite end Eastern Date Time Central; Tot Res Chlorine (mg/L); Diss Oxygen (mg/L) 6.76; Storet Station Number; Sample Depth ☑ m ☐ ft; ☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm) 48241; NPDES Number; Temp (C) 29.45; pH 8.07; Latitude 30.12693 ☑ dd ☐ dms; Longitude 85.64887 ☑ dd ☐ dms; Comments: Total Hg ID T3	
	Location: St. Andrew Bay @ Military Pt Discharge Field ID: Test Matrix: Salt, Fresh, etc)	☐ Comp ☑ Grab; Collection (comp begin or grab) Eastern Date 6/12/13 Time 1230 Central; Composite end Eastern Date Time Central; Tot Res Chlorine (mg/L); Diss Oxygen (mg/L) 6.79; Storet Station Number; Sample Depth ☑ m ☐ ft; ☐ Salinity (PPTh) ☑ Sp Conductance (umho/cm) 47278; NPDES Number; Temp (C) 29.46; pH 8.10; Latitude ☑ dd ☐ dms; Longitude ☑ dd ☐ dms; Comments: Total Hg ID T2	

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	6/12/13 1630	FedEx						6/13/13, 10:32a

2 bioassays 6-13-13 @ 10:32 AP

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

The Water Spigot
5806 E. Hwy. 22 * Panama City, FL 32404
(850) 871-1900 * Fax (850) 871-9303
Email:trishj-waterspigot@comcast.net

64820

CHAIN OF CUSTODY RECORD

Company Name / Plant: FDEP
Company Address: 160 W East St
City, State, Zip: Pensacola, FL 32502
Sent Report To: Nathan Mulkey
Copy To DEP / DOH (circle one): Yes ☑ No ☐
Email Address ☑ Yes ☐ No: nathan.mulkey@dep.state.fl.us
Phone #: 850 595 0626
Fax #:
Fax Results ____ Yes ____ No

Project Name: FYI Military Pt. AWT/Lagoon
Lab Dispose ☐
Return to Client ☐
Other ☐
Analysis Requested
Sample #
Container #
Check If Rush
Special Instructions
P.O. # RQ-2013-06-10-24

Sampling Date	Sampling Time	Type Comp	Type Grab	Matrix Water	Matrix Sludge	Matrix W. Water	Matrix Soil	Sample Site (Be Specific)	# of Containers	Preservatives	Containers	Analysis Requested	Field Data Temp.	Field Data CL2	Field Data pH	Preservative Codes
										T	T	Enter MF Final MF				A - Ammonium Chloride
										M	M	M-F Ent				C - Cool Only
																H - Hydrochloric Acid
																M - Monochloracetic Acid
																N - Nitric Acid
																OH - Sodium Hydroxide
																S - Sulfuric Acid
																T - Sodium Thiosulfate
																Z - Zinc Acetate
6/12/13	1330		X	X				MP-Control Site		✓	✓	0 613 15 31 M				Container Codes
↓	1230		X	X				MP-Test Discharge		✓	✓	0 613 15 32 M				V - VOA vial
																G - glass
																P - plastic
																M - micro bag/cup
																O - Other

Sampled By & Title: Nathan Mulkey FDEP — Date: 6/12/13 — Time: 1530
Received By
Received By
Received By
Received in Lab By: Darrell Travers — Date: 6/12 — Time: 15:30

Relinquished By: Nathan Mulkey — Date / Time: 6-12-13 15:30
Relinquished By — Date / Time
Relinquished By — Date / Time
Shipped VIA: UPS BUS HAND FED EX OTHER
Remarks
Temp. Received in Lab: 10°

Distribution: Original - LAB Yellow - CLIENT

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

2013-06-10-25

Request Number: RQ ~~2010-01-11-03~~ ~~Choctawhatchee Bay~~ AWT

Event ID *

Customer: NW-DIST

Project ID: ~~DISCRTNARY~~ FYE5

PMAS: ~~1306~~ 1143

Requester: ~~Cheryl Bunch~~

Collected By: Nathan Malloy / Rick Bland

Sampling Agency: FDEP

Field Report Prepared By: N. Malloy

Send Final Report To ~~Cheryl Bunch~~

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Military Point AWT	☑ Comp ☐ Grab	Date 6/11/13 Time 0001 Eastern Central	Date 6/12/13 Time 0001 Eastern Central	
	Field ID: TOX 2	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' " .	Longitude o ' " .		Comments: 24 hr composite	

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' " .	Longitude o ' " .		Comments	

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' " .	Longitude o ' " .		Comments	

Lab ID *	Location	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
		☐ Comp ☐ Grab			
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft; ☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number
	Latitude o ' " .	Longitude o ' " .		Comments	

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	6/12/13 1630	Fed Ex						6/13/13, 10 Sam

2 bioassays @ 10:32 AP 6-13-13

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

2013-06-10-24 **Florida Department of Environmental Protection**

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ ~~2010-02-25-20~~

~~Apalachicola - Huckleberry Creek instream only~~

Requester: ~~Elizabeth Miller~~

Field Report Prepared By: N. Mulky

Customer: NW-DIST

Project ID: ~~DISCRTNARY~~ FIRS

PMAS: 1143

Collected By: Nathan Mulky

Sampling Agency: FDEP

Send Final Report To: ~~Toni Edwards~~

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date / Time	Composite end Eastern Central: Date / Time	Bottle Group(s)**
	Pensacola NW District				
	Field ID: T4 (Lab Blank)	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc) / Temp (C) / pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Comments: Total Hg Field ID T4/Lab Blank QL NWDIS			

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date / Time	Composite end Eastern Central: Date / Time	Bottle Group(s)**
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc) / Temp (C) / pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Comments			

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date / Time	Composite end Eastern Central: Date / Time	Bottle Group(s)**
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc) / Temp (C) / pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Comments			

Lab ID *	Location	Comp / Grab	Collection (comp begin or grab) Eastern Central: Date / Time	Composite end Eastern Central: Date / Time	Bottle Group(s)**
	Field ID	Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (include type e.g. Salt, Fresh, etc) / Temp (C) / pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Comments			

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	6/13/13	Fed Ex						6/14/13; 9:10

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

2013-06-10-25

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ ~~2010-01-11-03~~
~~Choctawhatchee Bay~~ AWT

Requester: ~~Cheryl Bench~~

Field Report Prepared By:

Customer: NW-DIST

Collected By:

Send Final Report To ~~Cheryl Bench~~

Project ID: ~~DISCRTNARY~~ FIS

Sampling Agency: FDEP

PMAS: ~~1386~~ 1143

Lab ID *	Location	Temp (C)	pH	Comp / Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Military Point AWT			☒ Comp ☐ Grab	Date 6/13/13 Time 0001 Central	Date 6/14/13 Time 0001 Central	
	Field ID: TOX3			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc			Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude o ' "	Longitude o ' "		Comments: 24 Hr Composite			
Lab ID *	Location			☐ Comp ☐ Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude o ' "	Longitude o ' "		Comments			
Lab ID *	Location			☐ Comp ☐ Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude o ' "	Longitude o ' "		Comments			
Lab ID *	Location			☐ Comp ☐ Grab	Collection (begin) Date Time Eastern Central	Collection (end) Date Time Eastern Central	Bottle Group(s)**
	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)	Storet Station Number	
	Matrix (Include type e.g. Salt, Fresh, etc	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number	
	Latitude o ' "	Longitude o ' "		Comments			

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	6/14/13 9:38AM	FM Ex		6/15/13 0900				

* Shaded Areas for Lab use only.

3.6 °C

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

Appendix E

Habitat Assessment Field Sheets

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/25/00)

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
30.12693 85.64887	32030M14*	6/12/13	1330	St. Andrew Bay

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
FYI Military Pt	Bay	Off Palmetto Point	MP Control

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
✓							

Local Watershed Erosion (check box): None [X] Slight [ ] Moderate [ ] Heavy [ ]

Local Watershed NPS Pollution (check box): No evidence [ ] Slight [X] Moderate potential [ ] Obvious sources [ ]

Width of riparian vegetation (m) on least buffered side:

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized [ ] no [ ] recent, severe [ ] some recovery [ ] mostly recovered, more sinuous
Artificially Impounded [ ] yes

High Water Mark: ____ (m above present water level) + ____ (present depth in m) = ____ (m above bed)

Tide Types and Times

High	11:18	AM (PM)	AM / PM
Low	9:34	(AM) PM	AM / PM

Canopy Cover % : Open : [X] Lightly Shaded (11-45%): [ ] Moderately Shaded (46-80%): [ ] Heavily Shaded: [ ]

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: [X] Sewage: [ ] Petroleum: [ ] Chemical: [ ] Anaerobic: [ ] Other: [ ]
Sediment Oils: Absent: [X] Slight: [ ] Moderate: [ ] Profuse: [ ]
Sediment Deposition: Sludge: [ ] Sand smothering: none slight moderate severe Silt smothering: none slight moderate severe Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand	25	6	P Poner
Rock or Shell Rubble	70	6	P Poner	Mud/Muck/Silt	25	6	P Poner
Aquatic Vegetation				Other:			

Community Types
Mangroves [ ] Oyster bars [ ] Reef [ ] Natural beach [X] Other: [ ]

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	%	‰	Secchi (m):
Top	0.216	29.45	8.07	6.76	48741	105.7	31.32	
Mid-depth	3.511	28.03	8.03	6.39	50901	98.0	33.34	
Bottom	6.819	27.83	7.97	6.12	52014	93.9	34.17	

System Type : Stream: [ ] (1st - 2nd order 3rd - 4th order 5th - 6th order 7th order or greater) Estuary: [X] Other: [ ]
Water Odors (check box): Normal: [X] Sewage: [ ] Petroleum: [ ] Chemical: [ ] Other: [ ]
Water Surface Oils (check box): None: [X] Sheen: [ ] Globs: [ ] Slick: [ ]
Clarity (check box): Clear: [X] Slightly turbid: [ ] Turbid: [ ] Opaque: [ ]
Color (check box): Tannic: [ ] Green (algae): [ ] Clear: [X] Other: [ ]

Weather Conditions/Notes:
Mostly sunny humid winds 5-10 mph
*control site also used for Millville FYI

Abundance:

	Absent	Rare	Common	Abundant
Periphyton	[ ]	[ ]	[ ]	[ ]
Fish	[ ]	[ ]	[ ]	[ ]
Aquatic Macrophytes	[ ]	[ ]	[ ]	[ ]
Iron/sulfur Bacteria	[ ]	[ ]	[ ]	[ ]

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Mullkey Rick Abad	Rick Abad	6/12/13

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD 9000-30 MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y):	RECEIVING BODY OF WATER:
	320304	6/12/13	St. Andrew Bay

REMARKS:	LOCATION:	FIELD ID/NAME:
FYI Military Point	off Palmetto Point	MP Control

Habitat Parameter / score	Excellent	Good	Fair	Poor
Littoral Alterations 9	None—Unaltered shoreline. **9-10 points**	Mostly natural shoreline, but with occasional riprap. **6-8 points**	Shoreline consisting mostly of riprap and vertical seawalls. **3-5 points**	Shoreline consisting almost entirely of vertical seawalls. **0-2 points**
Community Types Observed ~~26~~ VM	At least four communities observed from the following list: mangrove swamp, marsh, oyster bar, grass bed, reef, saltern, natural beach, or tidal creek. **38-50 points**	Two or three communities observed from those listed. **26-37 points**	One community observed from those listed. **13-25 points**	No communities observed from those listed. **0-12 points**
Tidal Fluctuation 3	>0.75 m. **4-5 points**	0.5 - 0.75 m. **3 points**	0.25 - 0.5 m. **2 points**	<0.25 m. **0-1 point**
Freshwater Discharges/ Alterations 9	Only natural runoff.. **9-10 points**	Mostly natural runoff, but with a few, small stormwater sources. **6-8 points**	Considerable stormwater discharge from local roads, parking lots, etc. **3-5 points**	Extensive manmade discharges, especially from canals draining large tracts of land. **0-2 points**
Flow and Wave Action 9	Light to moderate wave action present except under the harshest weather conditions. Flow unrestricted by manmade structures. **9-10 points**	—	—	Heavy wave action sometimes present even during average weather conditions, or flow restricted by manmade structures so that velocities are very high. **0-2 points**
Sediment Type 7	Combination of sand, gravel, and shell. **12-15 points**	Primarily sand, with small areas of mud. **8-11 points**	Mixture of sand and mud, or well-aerated mud only. **4-7 points**	Anaerobic mud. **0-3 points**

TOTAL SCORE 63

COMMENTS: Control Site for both Military Pt AWT, MP Lagoon, and Millville FYIs

ANALYSIS DATE:	ANALYST:	SIGNATURE:
6/12/13	Nathan Malloy	

30.12471
85.63072

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD9000-26 MARINE PHYSICAL/CHEMICAL CHARACTERIZATION FIELD DATA SHEET (4/25/00)

LAT/LONGS: 30 07 28.3 / 85 37 50.6	STORET STATION NUMBER: 32030M21	DATE (M/D/Y): 6/12/13	TIME: 1230	RECEIVING BODY OF WATER: St. Andrews

REMARKS: FYI Military Pt	COUNTY: Bay	SITE LOCATION: Military Point Aut/Lagoon Discharge	FIELD ID/NAME: MP-Test

RIPARIAN ZONE/INSTREAM FEATURES

Predominant Land-Use in Watershed (specify relative percent in each category):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
✓						✓	

Local Watershed Erosion (check box): None ☒ Slight ☐ Moderate ☐ Heavy ☐

Local Watershed NPS Pollution (check box): No evidence ☐ Slight ☐ Moderate potential ☐ Obvious sources ☒

Width of riparian vegetation (m) on least buffered side:

Draw aerial view sketch of sampling area including habitats and community types

Artificially Channelized ☐ no ☐ recent, severe ☐ some recovery ☐ mostly recovered, more sinuous

Artificially Impounded ☐ yes

High Water Mark: ____ (m above present water level) + ____ (present depth in m) = ____ (m above bed)

Tide Types and Times

High 11:18 AM / PM : AM / PM

Low 9:34 AM / PM : AM / PM

Canopy Cover % : Open : ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded:

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐

Sediment Oils: Absent: ☒ Slight: ☐ Moderate: ☐ Profuse: ☐

Sediment Deposition: Sludge: ☒ Sand smothering: none slight moderate severe Silt smothering: none slight moderate severe Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass				Sand			
Rock or Shell Rubble	10	6	P Pond	Mud/Muck/Silt	90	6	P Pond
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☒ Other: ☒ ~~Rip Rap~~

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	%	‰	Secchi (m):
Top	0.260	29.46	8.10	6.79	47278	105.6	30.65	
Mid-depth	3.356	28.26	8.07	10.32	49039	97.1	31.90	
Bottom	6.794	27.83	8.02	6.05	45163	93	33.79	

System Type : Stream: ☐ (1st - 2nd order / 3rd - 4th order / 5th - 6th order / 7th order or greater) Estuary: ☒ Other: ☐

Water Odors (check box): Normal: ☐ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☒ Effluent

Water Surface Oils (check box): None: ☒ Sheen: ☐ Globs: ☐ Slick: ☐

Clarity (check box): Clear: ☐ Slightly turbid: ☒ Turbid: ☐ Opaque: ☐

Color (check box): Tannic: ☐ Green (algae): ☐ Clear: ☒ Other: ☐

Weather Conditions/Notes:

Mostly sunny humid winds NW 12-15 mph

#2 separate facilities share discharge

Abundance:	Absent	Rare	Common	Abundant
Periphyton	☐	☐	☐	☐
Fish	☐	☐	☐	☐
Aquatic Macrophytes	☐	☐	☐	☐
Iron/sulfur Bacteria	☐	☐	☐	☐

SAMPLING TEAM:	SIGNATURE:	DATE:
Nathan Mulkey Rick Abad	Rick Abad	6/12/13

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FD 9000-30 MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y):	RECEIVING BODY OF WATER:
	32630M21	6/12/13	St. Andrew Bay

REMARKS:	LOCATION:	FIELD ID/NAME:
FYI Military Point	Military Point AWT/Lagoon Discharge	MP-Test

Habitat Parameter / score	Excellent	Good	Fair	Poor
Littoral Alterations 9	None—Unaltered shoreline. **9-10 points**	Mostly natural shoreline, but with occasional riprap. **6-8 points**	Shoreline consisting mostly of riprap and vertical seawalls. **3-5 points**	Shoreline consisting almost entirely of vertical seawalls. **0-2 points**
Community Types Observed 20	At least four communities observed from the following list: mangrove swamp, marsh, oyster bar, grass bed, reef, saltern, natural beach, or tidal creek. **38-50 points**	Two or three communities observed from those listed. **26-37 points**	One community observed from those listed. **13-25 points**	No communities observed from those listed. **0-12 points**
Tidal Fluctuation 3	>0.75 m. **4-5 points**	0.5 - 0.75 m. **3 points**	0.25 - 0.5 m. **2 points**	<0.25 m. **0-1 point**
Freshwater Discharges/ Alterations 9	Only natural runoff.. **9-10 points**	Mostly natural runoff, but with a few, small stormwater sources. **6-8 points**	Considerable stormwater discharge from local roads, parking lots, etc. **3-5 points**	Extensive manmade discharges, especially from canals draining large tracts of land. **0-2 points**
Flow and Wave Action 9	Light to moderate wave action present except under the harshest weather conditions. Flow unrestricted by manmade structures. **9-10 points**	—	—	Heavy wave action sometimes present even during average weather conditions, or flow restricted by manmade structures so that velocities are very high. **0-2 points**
Sediment Type 5	Combination of sand, gravel, and shell. **12-15 points**	Primarily sand, with small areas of mud. **8-11 points**	Mixture of sand and mud, or well-aerated mud only. **4-7 points**	Anaerobic mud. **0-3 points**

TOTAL SCORE 55

COMMENTS: Discharge for both Military Point AWT and Industrial Lagoon

ANALYSIS DATE:	ANALYST:	SIGNATURE:
6/12/13	Nathan Milby	

Appendix F

Chemical analysis of effluent and receiving water

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 12:20	Military Point Regional AWT Effluent	AGP/LN	Algal Growth Potential-Salinity Adjusted	10.8		mg DryWt/L	3	3
6/10/2013 12:20	Military Point Regional AWT Effluent	AGP/LN	Algal Growth Potential	35.3		mg DryWt/L	0.3	0.9
6/10/2013 12:20	Military Point Regional AWT Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.55	U	ug/L	0.55	1.7
6/10/2013 12:20	Military Point Regional AWT Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40	U	ug/L	0.4	1.2
6/10/2013 12:20	Military Point Regional AWT Effluent	Overflow	Fecal Coliforms-Membrane Filter	1	U	cfu/100 mL	1	
6/10/2013 12:20	Military Point Regional AWT Effluent	Overflow	Enterococci-Membrane Filter	40	B	cfu/100 mL	4	
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Organic Carbon	6.6		mg C/L	0.5	1
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Fluoride	0.41		mg F/L	0.035	0.1
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Color (true)	24	A	PCU	2.5	6
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Chloride	110		mg Cl/L	0.4	1
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Turbidity	0.55		NTU	0.1	0.1
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Alkalinity	72	A	mg CaCO3/L	0.65	2.5
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	O-Phosphate-P	0.031		mg P/L	0.004	0.01
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Sulfate	54	A	mg SO4/L	0.4	1
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Ammonia-N	0.009		mg N/L	0.002	0.005
6/10/2013 12:20	Military Point Regional AWT Effluent	Nutrients	Kjeldahl Nitrogen	0.82		mg N/L	0.08	0.2
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Butylate	0.10	U	ug/L	0.1	0.41
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Phorate	0.026	UJ	ug/L	0.026	0.1
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Atrazine	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Ethion	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Fonofos	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Naled	0.21	U	ug/L	0.21	0.82
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Simazine	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Alachlor	0.31	U	ug/L	0.31	1.2
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Ethoprop	0.026	U	ug/L	0.026	0.1
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Fenamiphos	0.15	U	ug/L	0.15	0.62
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Parathion Methyl	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Metribuzin	0.10	U	ug/L	0.1	0.41
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Metalaxyl	0.21	U	ug/L	0.21	0.82
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Metolachlor	0.31	U	ug/L	0.31	1.2
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Ametryn	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Sucralose	33		ug/L	0.2	1
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Hexazinone	0.15	U	ug/L	0.15	0.62
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Mevinphos	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Azinphos Methyl	0.10	U	ug/L	0.1	0.41
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.62
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Chlorpyrifos Ethyl	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Prometryn	0.10	U	ug/L	0.1	0.41

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Parathion Ethyl	0.10	UJ	ug/L	0.1	0.41
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Malathion	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Chlorpyrifos Methyl	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Bromacil	1.2		ug/L	0.21	0.82
6/10/2013 12:20	Military Point Regional AWT Effluent	Pesticides	Diazinon	0.051	U	ug/L	0.051	0.21
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2-Chlorophenol	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Benzidine	99	U	ug/L	99	400
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Hexachlorobenzene	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Isophorone	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Diethyl phthalate	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	1,4-Dioxane	0.58		ug/L	0.02	0.1
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2-Nitrophenol	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	9.9	U	ug/L	9.9	40
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	7.9
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Hexachlorobutadiene	3.0	UJ	ug/L	3	12
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Phenol	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	59
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	7.9
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	7.9
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	7.9

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	59
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	7.9
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	2-Chloronaphthalene	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.79
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Dimethyl phthalate	0.99	U	ug/L	0.99	4
6/10/2013 12:20	Military Point Regional AWT Effluent	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
6/10/2013 12:20	Military Point Regional AWT Effluent	Field Parameter	Dissolved Oxygen	6.4		mg/L		
6/10/2013 12:20	Military Point Regional AWT Effluent	Field Parameter	Temperature	27.68		C		
6/10/2013 12:20	Military Point Regional AWT Effluent	Field Parameter	pH	6.37				
6/10/2013 12:20	Military Point Regional AWT Effluent	Field Parameter	Specific Conductance	643		umhos/cm		
6/10/2013 1:01	Military Point Regional AWT Effluent	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.2	IVJQ	mg/L	0.2	2
6/10/2013 1:01	Military Point Regional AWT Effluent	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	100	QJL	IC25		
6/10/2013 1:01	Military Point Regional AWT Effluent	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	100	L	IC25		
6/10/2013 1:01	Military Point Regional AWT Effluent	Toxicology	Bioassay-Chron-Def-FW-C.dubia, NOEC	100		NOEC		
6/10/2013 1:01	Military Point Regional AWT Effluent	Toxicology	Bioassay-Chron-Def-FW-Fish, NOEC	100	QJ	NOEC		
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Zinc	41		ug/L	5	20
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Copper	20.4		ug/L	0.5	1
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Lead	0.20	U	ug/L	0.2	0.8
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Iron	53	I	ug/L	30	120
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Sodium	74.6		mg/L	0.5	2
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Nickel	3.83		ug/L	0.25	1
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Calcium	36.9		mg/L	0.075	0.3
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Arsenic	0.49	I	ug/L	0.25	1
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Selenium	0.20	U	ug/L	0.2	0.8
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Magnesium	7.47		mg/L	0.04	0.16
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Potassium	11.2		mg/L	0.3	1.2
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Aluminum	14	I	ug/L	5	20
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Cadmium	0.050	U	ug/L	0.05	0.2
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Chromium	0.40	I	ug/L	0.3	1.2
6/10/2013 1:01	Military Point Regional AWT Effluent	Metals	Silver	0.025	U	ug/L	0.025	0.1
6/10/2013 1:01	Military Point Regional AWT Effluent	Nutrients	Kjeldahl Nitrogen	0.77		mg N/L	0.08	0.2

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 1:01	Military Point Regional AWT Effluent	Nutrients	TSS	2	U	mg/L	2	10
6/10/2013 1:01	Military Point Regional AWT Effluent	Nutrients	Total-P	0.069		mg P/L	0.005	0.05
6/10/2013 1:01	Military Point Regional AWT Effluent	Nutrients	NO2NO3-N	0.63		mg N/L	0.004	0.01
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Metribuzin	0.11	U	ug/L	0.11	0.44
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Fenamiphos	0.16	U	ug/L	0.16	0.66
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Prometryn	0.11	U	ug/L	0.11	0.44
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Parathion Ethyl	0.11	UJ	ug/L	0.11	0.44
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Metolachlor	0.33	U	ug/L	0.33	1.3
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Bromacil	0.22	U	ug/L	0.22	0.87
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Naled	0.22	U	ug/L	0.22	0.87
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Phorate	0.027	UJ	ug/L	0.027	0.11
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Ametryn	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Azinphos Methyl	0.11	U	ug/L	0.11	0.44
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Chlorpyrifos Methyl	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Simazine	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Hexazinone	0.16	U	ug/L	0.16	0.66
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Ethion	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Malathion	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Norflurazon	0.16	U	ug/L	0.16	0.66
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Sucralose	0.010	U	ug/L	0.01	0.05
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Chlorpyrifos Ethyl	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Parathion Methyl	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Diazinon	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Ethoprop	0.027	U	ug/L	0.027	0.11
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Mevinphos	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Atrazine	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Alachlor	0.33	U	ug/L	0.33	1.3
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Butylate	0.11	U	ug/L	0.11	0.44
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Fonofos	0.055	U	ug/L	0.055	0.22
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Pesticides	Metalaxyl	0.22	U	ug/L	0.22	0.87
6/12/2013 12:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,4-Dioxane	58	Y	ug/L	0.2	1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	AGP/LN	Algal Growth Potential	5.55		mg DryWt/L	0.3	0.9
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	AGP/LN	Algal Growth Potential-Salinity Adjusted	33		mg DryWt/L	3	3
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	9.6	AJ	mg/L	0.2	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.0	U	ug/L	1	3.1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.73	U	ug/L	0.73	2.2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Enterococci-Membrane Filter	2,120	B	cfu/100 mL	20	
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Fecal Coliforms-Membrane Filter	53		cfu/100 mL	1	
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Chromium	3.8		ug/L	0.3	1.2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Selenium	0.94		ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Iron	490		ug/L	30	120
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Silver	0.040	I	ug/L	0.025	0.1

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Aluminum	2,590		ug/L	15	60
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Zinc	26		ug/L	5	20
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Mercury	1.3		ng/L	0.1	0.4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Lead	0.95		ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Arsenic	12.6		ug/L	0.25	1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Nickel	3.29		ug/L	0.25	1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Cadmium	0.14	I	ug/L	0.05	0.2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Calcium	54.3		mg/L	0.075	0.3
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Potassium	18.8		mg/L	0.3	1.2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Sodium	380		mg/L	2.5	10
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Molybdenum	3.89		ug/L	0.15	0.6
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Copper	3.25		ug/L	0.5	1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Antimony	0.65	I	ug/L	0.25	1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Metals	Magnesium	15.4		mg/L	0.04	0.16
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Turbidity	22		NTU	0.1	0.1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	TSS	10	A	mg/L	2	10
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Organic Carbon	92		mg C/L	0.5	1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Sulfate	380		mg SO4/L	2	5
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Color (true)	1,000		PCU	25	60
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Ammonia-N	0.97		mg N/L	0.02	0.05
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Specific_Conductance	2,020	A	umhos/cm	2	8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Kjeldahl Nitrogen	3		mg N/L	0.16	0.4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Turbidity	23		NTU	0.1	0.1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	O-Phosphate-P	0.45		mg P/L	0.04	0.1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Cyanide	0.005	U	mg CN/L	0.005	0.02
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Alkalinity	310		mg CaCO3/L	0.65	2.5
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Chloride	200		mg Cl/L	2	5
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Fluoride	0.15		mg F/L	0.035	0.1
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	NO2NO3-N	0.007	I	mg N/L	0.004	0.01
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Nutrients	Total-P	0.85		mg P/L	0.005	0.05
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Tetra-Furans	0.395	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Hexa-Furans	0.292	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Hepta-Dioxins	3.47	I	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	OCDF	0.663	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	2,3,4,6,7,8-HxCDF	0.278	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,7,8-PeCDD	2.24	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,6,7,8-HxCDF	0.252	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,4,6,7,8-HpCDD	2.04	IJ	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Tetra-Dioxins	2.25	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Hepta-Furans	0.557	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,4,6,7,8-HpCDF	0.625	IJV	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Hexa-Dioxins	2.78	U	pg/L		

Date Sampled	UDL	SCH Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	2,3,4,7,8-PeCDF	0.137	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Penta-Dioxins	2.24	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	OCDD	16	IV	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,7,8,9-HxCDD	2.67	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Chemical Oxygen Demand	390		mg/L	6.3	20
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Hexavalent Chromium	12	UQ	ug/L	12	50
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,7,8,9-HxCDF	0.37	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	Total Penta-Furans	0.139	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	2,3,7,8-TCDF	0.395	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,6,7,8-HxCDD	2.84	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,4,7,8-HxCDF	0.291	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	2,3,7,8-TCDD	2.25	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,7,8-PeCDF	0.142	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,4,7,8,9-HpCDF	0.668	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Overflow	1,2,3,4,7,8-HxCDD	2.8	U	pg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,1-Dichloroethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,2-Dichloroethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Bromodichloromethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Chloroethane	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Tetrachloroethene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2-Nitrophenol	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Dimethyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Bromoform	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Chlorobenzene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Toluene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Trichloroethene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Vinyl chloride	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Chloroform	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Chloromethane	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	60

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2-Chloronaphthalene	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Diethyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,2-Dichloropropane	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Carbon tetrachloride	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Ethylbenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	40
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2-Chlorophenol	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Isophorone	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Hexachlorobutadiene	3.0	UJ	ug/L	3	12
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Phenol	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.50	UJ	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Benzene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Bromomethane	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Dibromochloromethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Hexachlorobenzene	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	60
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,1-Dichloroethene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Methylene chloride	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Trichlorofluoromethane	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	trans-1,2-Dichloroethene	0.50	U	ug/L	0.5	2
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	400
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	Temperature	30.21		C		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	pH	7.16				
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	Dissolved Oxygen	7.4		mg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	Temperature	30.21		C		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	Specific Conductance	2,018		umhos/cm		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	Specific Conductance	2,018		umhos/cm		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	Dissolved Oxygen	7.4		mg/L		
6/10/2013 14:00	Military Point Industrial Lagoon Effluent	Field Parameter	pH	7.16				
6/10/2013 9:00	Military Point Industrial Lagoon Effluent	Toxicology	Bioassay-Chron-Def-FW-Fish, NOEC	25.0	Y	NOEC		
6/10/2013 9:00	Military Point Industrial Lagoon Effluent	Toxicology	Bioassay-Chron-Def-FW-Fish, IC25	43.2	Y	IC25		
6/10/2013 9:00	Military Point Industrial Lagoon Effluent	Toxicology	Bioassay-Chron-Def-FW-C.dubia, IC25	41		IC25		
6/10/2013 9:00	Military Point Industrial Lagoon Effluent	Toxicology	Bioassay-Chron-Def-FW-C.dubia, NOEC	25		NOEC		
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1		%totdrywt	0	1
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	16.3		% vol <2mm	0	0.01
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	16.1		% vol <2mm	0	0.01
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	36.2		% vol <2mm	0	0.01
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	4.65		% vol <2mm	0	0.01
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	26.8		% vol <2mm	0	0.01
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Sediment % Organic	3.7		% dry wt		
6/12/2013 14:30	Control Site	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	48		# Taxa		
6/12/2013 14:30	Control Site	Metals	Silver	0.019	I	mg/Kg	0.0096	0.038
6/12/2013 14:30	Control Site	Metals	Nickel	2.16		mg/Kg	0.15	0.61
6/12/2013 14:30	Control Site	Metals	Lead	4.3		mg/Kg	0.29	1.2
6/12/2013 14:30	Control Site	Metals	Copper	2.59		mg/Kg	0.19	0.77
6/12/2013 14:30	Control Site	Metals	Zinc	10		mg/Kg	1.5	6.1
6/12/2013 14:30	Control Site	Metals	Cadmium	0.038	U	mg/Kg	0.038	0.15
6/12/2013 14:30	Control Site	Metals	Chromium	8.11		mg/Kg	0.12	0.46
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Dimethyl phthalate	99	U	ug/kg	99	400

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 14:30	Control Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Nitrobenzene	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	300	U	ug/kg	300	1200
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	5,900	U	ug/kg	5900	24000
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(a)pyrene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Naphthalene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Acenaphthene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Di-n-butyl phthalate	590	U	ug/kg	590	2400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Fluorene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,6-Dinitrotoluene	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Chloronaphthalene	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Nitrophenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Diethyl phthalate	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Isophorone	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(b)fluoranthene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	590	U	ug/kg	590	2400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Butyl benzyl phthalate	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Di-n-octyl phthalate	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Pyrene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dinitrotoluene	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Anthracene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Fluoranthene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachlorobenzene	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	N-Nitrosodimethylamine	590	U	ug/kg	590	2400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachloroethane	300	U	ug/kg	300	1200
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Phenanthrene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Phenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dimethylphenol	590	U	ug/kg	590	2400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Chlorophenol	300	U	ug/kg	300	1200
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Acenaphthylene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzidine	2,100	U	ug/kg	2100	8600
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	99	U	ug/kg	99	400

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachlorobutadiene	300	UJ	ug/kg	300	1200
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Pentachlorophenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Chrysene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(k)fluoranthene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(a)anthracene	11	U	ug/kg	11	44
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Nitrophenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dichlorophenol	99	U	ug/kg	99	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dinitrophenol	590	UJ	ug/kg	590	2400
6/12/2013 14:30	Control Site	Field Parameter	Sample Depth	0.15		m		
6/12/2013 14:30	Control Site	Field Parameter	pH	8.07				
6/12/2013 14:30	Control Site	Field Parameter	Dissolved Oxygen	6.76		mg/L		
6/12/2013 14:30	Control Site	Field Parameter	Specific Conductance	48,241		umhos/cm		
6/12/2013 14:30	Control Site	Field Parameter	Dissolved Oxygen	6.76		mg/L		
6/12/2013 14:30	Control Site	Field Parameter	Temperature	29.45		C		
6/12/2013 14:30	Control Site	Field Parameter	pH	8.07				
6/12/2013 14:30	Control Site	Nutrients	% Solid	60.8		%	0.1	0.1
6/12/2013 14:30	Control Site	Field Parameter	Specific Conductance	48,241		umhos/cm		
6/12/2013 14:30	Control Site	Field Parameter	Sample Depth	0.15		m		
6/12/2013 14:30	Control Site	Field Parameter	Temperature	29.45		C		
6/12/2013 14:30	Control Site	AGP/LN	Algal Growth Potential	3.00	UJQ	mg DryWt/L	3	3
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40	U	ug/L	0.4	1.2
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.1	I	mg/L	0.2	2
6/12/2013 14:30	Control Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	1.3	I	ug/L	0.55	1.7
6/12/2013 14:30	Control Site	Overflow	Fecal Coliforms-Membrane Filter	2		cfu/100 mL	1	
6/12/2013 14:30	Control Site	Overflow	Enterococci-Membrane Filter	4	U	cfu/100 mL	4	
6/12/2013 14:30	Control Site	Metals	Aluminum	180	U	ug/L	180	720
6/12/2013 14:30	Control Site	Metals	Antimony	0.75	U	ug/L	0.75	3
6/12/2013 14:30	Control Site	Metals	Nickel	0.75	U	ug/L	0.75	3
6/12/2013 14:30	Control Site	Metals	Lead	0.60	U	ug/L	0.6	2.4
6/12/2013 14:30	Control Site	Metals	Copper	1.5	U	ug/L	1.5	3
6/12/2013 14:30	Control Site	Metals	Potassium	349		mg/L	15	60
6/12/2013 14:30	Control Site	Metals	Selenium	0.73	I	ug/L	0.6	2.4
6/12/2013 14:30	Control Site	Metals	Zinc	15	U	ug/L	15	60
6/12/2013 14:30	Control Site	Metals	Sodium	9,490		mg/L	25	100
6/12/2013 14:30	Control Site	Metals	Chromium	0.90	U	ug/L	0.9	3.6
6/12/2013 14:30	Control Site	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
6/12/2013 14:30	Control Site	Metals	Arsenic	1.6	I	ug/L	0.75	3
6/12/2013 14:30	Control Site	Metals	Molybdenum	10.3		ug/L	0.45	1.8
6/12/2013 14:30	Control Site	Metals	Iron	90	U	ug/L	90	360

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 14:30	Control Site	Metals	Calcium	358		mg/L	0.22	0.9
6/12/2013 14:30	Control Site	Metals	Mercury	1.8		ng/L	0.1	0.4
6/12/2013 14:30	Control Site	Metals	Magnesium	1,180		mg/L	2	8
6/12/2013 14:30	Control Site	Metals	Silver	0.075	U	ug/L	0.075	0.3
6/12/2013 14:30	Control Site	Nutrients	Ammonia-N	0.004	IJ	mg N/L	0.002	0.005
6/12/2013 14:30	Control Site	Nutrients	Color (true)	5.4	I	PCU	2.5	6
6/12/2013 14:30	Control Site	Nutrients	Alkalinity	110		mg CaCO3/L	0.65	2.5
6/12/2013 14:30	Control Site	Nutrients	Turbidity	0.7		NTU	0.1	0.1
6/12/2013 14:30	Control Site	Nutrients	Chloride	17,000		mg Cl/L	40	100
6/12/2013 14:30	Control Site	Nutrients	Kjeldahl Nitrogen	0.4		mg N/L	0.16	0.4
6/12/2013 14:30	Control Site	Nutrients	Total-P	0.016		mg P/L	0.004	0.01
6/12/2013 14:30	Control Site	Nutrients	NO2NO3-N	0.01		mg N/L	0.004	0.01
6/12/2013 14:30	Control Site	Nutrients	Cyanide	0.005	U	mg CN/L	0.005	0.02
6/12/2013 14:30	Control Site	Nutrients	TSS	3	U	mg/L	3	10
6/12/2013 14:30	Control Site	Nutrients	Fluoride	1.1		mg F/L	0.18	0.5
6/12/2013 14:30	Control Site	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
6/12/2013 14:30	Control Site	Nutrients	Organic Carbon	3.3		mg C/L	1	2
6/12/2013 14:30	Control Site	Nutrients	Sulfate	2,500		mg SO4/L	40	100
6/12/2013 14:30	Control Site	Overflow	Total Penta-Dioxins	1.65	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	2,3,7,8-TCDF	0.247	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,6,7,8-HxCDD	3.1	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,7,8,9-HxCDF	0.385	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,7,8-PeCDF	0.398	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Total Hepta-Dioxins	2.34	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Total Tetra-Furans	0.247	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,4,6,7,8-HpCDD	2.34	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Chemical Oxygen Demand	780		mg/L	63	200
6/12/2013 14:30	Control Site	Overflow	1,2,3,4,7,8-HxCDF	0.319	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,4,7,8,9-HpCDF	0.456	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,4,7,8-HxCDD	3	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,6,7,8-HxCDF	0.27	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Total Hepta-Furans	0.387	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Total Hexa-Dioxins	3	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Total Tetra-Dioxins	1.41	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,4,6,7,8-HpCDF	0.33	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Total Penta-Furans	0.397	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	OCDD	5.81	IJV	pg/L		
6/12/2013 14:30	Control Site	Overflow	Hexavalent Chromium	2.4	U	ug/L	2.4	10
6/12/2013 14:30	Control Site	Overflow	2,3,4,7,8-PeCDF	0.396	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,7,8,9-HxCDD	2.89	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	2,3,4,6,7,8-HxCDF	0.294	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	2,3,7,8-TCDD	1.41	U	pg/L		

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 14:30	Control Site	Overflow	OCDF	0.435	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	1,2,3,7,8-PeCDD	1.65	U	pg/L		
6/12/2013 14:30	Control Site	Overflow	Total Hexa-Furans	0.312	U	pg/L		
6/12/2013 14:30	Control Site	Pesticides	Alachlor	0.30	U	ug/L	0.3	1.2
6/12/2013 14:30	Control Site	Pesticides	Chlorpyrifos Ethyl	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Diazinon	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Fenamiphos	0.15	U	ug/L	0.15	0.59
6/12/2013 14:30	Control Site	Pesticides	Metalaxyl	0.20	U	ug/L	0.2	0.79
6/12/2013 14:30	Control Site	Pesticides	Metribuzin	0.099	U	ug/L	0.099	0.4
6/12/2013 14:30	Control Site	Pesticides	Naled	0.20	U	ug/L	0.2	0.79
6/12/2013 14:30	Control Site	Pesticides	Bromacil	0.20	U	ug/L	0.2	0.79
6/12/2013 14:30	Control Site	Pesticides	Ethoprop	0.025	U	ug/L	0.025	0.099
6/12/2013 14:30	Control Site	Pesticides	Sucralose	0.12		ug/L	0.01	0.05
6/12/2013 14:30	Control Site	Pesticides	Fonofos	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.59
6/12/2013 14:30	Control Site	Pesticides	Parathion Ethyl	0.099	UJ	ug/L	0.099	0.4
6/12/2013 14:30	Control Site	Pesticides	Prometryn	0.099	U	ug/L	0.099	0.4
6/12/2013 14:30	Control Site	Pesticides	Hexazinone	0.15	U	ug/L	0.15	0.59
6/12/2013 14:30	Control Site	Pesticides	Ametryn	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Chlorpyrifos Methyl	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Phorate	0.025	UJ	ug/L	0.025	0.099
6/12/2013 14:30	Control Site	Pesticides	Azinphos Methyl	0.099	U	ug/L	0.099	0.4
6/12/2013 14:30	Control Site	Pesticides	Malathion	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Butylate	0.099	U	ug/L	0.099	0.4
6/12/2013 14:30	Control Site	Pesticides	Parathion Methyl	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Atrazine	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Ethion	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Metolachlor	0.30	U	ug/L	0.3	1.2
6/12/2013 14:30	Control Site	Pesticides	Mevinphos	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Pesticides	Simazine	0.049	U	ug/L	0.049	0.2
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	40
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	60
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachlorobenzene	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Chloroform	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Chloromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Tetrachloroethene	0.20	U	ug/L	0.2	0.8

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 14:30	Control Site	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	400
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Phenol	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bromomethane	0.20	UJ	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Ethylbenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Trichlorofluoromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	trans-1,2-Dichloroethene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Chloronaphthalene	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Nitrophenol	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Di-n-octyl phthalate	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Diethyl phthalate	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Vinyl chloride	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dichlorophenol	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2-Chlorophenol	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Dimethyl phthalate	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,2-Dichloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bromoform	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Methylene chloride	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	60
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,4-Dinitrotoluene	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Butyl benzyl phthalate	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20	U	ug/L	0.2	0.8

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,1-Dichloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,1-Dichloroethene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,4-Dichlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Chlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Trichloroethene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Isophorone	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,2-Dichloropropane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Chloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	2,6-Dinitrotoluene	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Di-n-butyl phthalate	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Dibromochloromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.0	U	ug/L	1	4
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Hexachlorobutadiene	3.0	UJ	ug/L	3	12
6/12/2013 14:30	Control Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,4-Dioxane	0.33		ug/L	0.02	0.1
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,2-Dichlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	1,3-Dichlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Bromodichloromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	Toluene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20	U	ug/L	0.2	0.8
6/12/2013 14:30	Control Site	Field Parameter	Specific Conductance	48,241		umhos/cm		
6/12/2013 14:30	Control Site	Field Parameter	pH	8.07				
6/12/2013 14:30	Control Site	Field Parameter	Dissolved Oxygen	6.76		mg/L		
6/12/2013 14:30	Control Site	Field Parameter	Sample Depth	0.15		m		
6/12/2013 14:30	Control Site	Field Parameter	Temperature	29.45		C		
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	2.2		%totdrywt	0	1
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	16.2		% vol <2mm	0	0.01
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	17		% vol <2mm	0	0.01
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Sediment % Organic	3.3		% dry wt		
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	4.47		% vol <2mm	0	0.01
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	33.9		% vol <2mm	0	0.01
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	28.4		% vol <2mm	0	0.01
6/12/2013 13:50	Test Site	Overflow	Macroinvert-Marine-Quan-NatSubstr-# Taxa	67		# Taxa		

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 13:30	Test Site	Metals	Zinc	8.3		mg/Kg	1.6	6.3
6/12/2013 13:30	Test Site	Metals	Copper	2.11		mg/Kg	0.2	0.78
6/12/2013 13:30	Test Site	Metals	Nickel	1.71		mg/Kg	0.16	0.63
6/12/2013 13:30	Test Site	Metals	Silver	0.014	I	mg/Kg	0.0098	0.039
6/12/2013 13:30	Test Site	Metals	Lead	3.3		mg/Kg	0.29	1.2
6/12/2013 13:30	Test Site	Metals	Chromium	6.23		mg/Kg	0.12	0.47
6/12/2013 13:30	Test Site	Metals	Cadmium	0.039	U	mg/Kg	0.039	0.16
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	530	U	ug/kg	530	2100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Fluorene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dichlorophenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Acenaphthene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(a)pyrene	22	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(b)fluoranthene	33	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachlorobutadiene	270	UJ	ug/kg	270	1100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Isophorone	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Pentachlorophenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Phenanthrene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Nitrophenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Acenaphthylene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Butyl benzyl phthalate	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Dimethyl phthalate	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Phenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Chrysene	16	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Fluoranthene	21	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	12	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	N-Nitrosodimethylamine	530	U	ug/kg	530	2100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	270	U	ug/kg	270	1100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dinitrotoluene	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,6-Dinitrotoluene	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Chlorophenol	270	U	ug/kg	270	1100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Anthracene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzidine	1,900	U	ug/kg	1900	7700
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Di-n-butyl phthalate	530	U	ug/kg	530	2100

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Di-n-octyl phthalate	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Naphthalene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Nitrobenzene	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(a)anthracene	19	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Diethyl phthalate	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Pyrene	24	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dimethylphenol	530	U	ug/kg	530	2100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dinitrophenol	530	UJ	ug/kg	530	2100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	5,300	U	ug/kg	5300	21000
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachloroethane	270	U	ug/kg	270	1100
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Chloronaphthalene	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Nitrophenol	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	15	I	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(k)fluoranthene	9.9	U	ug/kg	9.9	39
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachlorobenzene	89	U	ug/kg	89	350
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	89	U	ug/kg	89	350
6/12/2013 13:50	Test Site	Field Parameter	Specific Conductance	47,278		umhos/cm		
6/12/2013 13:50	Test Site	Field Parameter	Dissolved Oxygen	6.79		mg/L		
6/12/2013 13:50	Test Site	Field Parameter	pH	8.1				
6/12/2013 13:30	Test Site	Field Parameter	Dissolved Oxygen	6.79		mg/L		
6/12/2013 13:30	Test Site	Field Parameter	Temperature	29.46		C		
6/12/2013 13:50	Test Site	Field Parameter	Sample Depth	0.15		m		
6/12/2013 13:30	Test Site	Field Parameter	Specific Conductance	47,278		umhos/cm		
6/12/2013 13:30	Test Site	Field Parameter	pH	8.1				
6/12/2013 13:30	Test Site	Field Parameter	Sample Depth	0.15		m		
6/12/2013 13:30	Test Site	Nutrients	% Solid	67.8	A	%	0.1	0.1
6/12/2013 13:50	Test Site	Field Parameter	Temperature	29.46		C		
6/12/2013 13:30	Test Site	AGP/LN	Algal Growth Potential	3.00	UJQ	mg DryWt/L	3	3
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.75	I	mg/L	0.2	2
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2		ug/L	0.55	1.7
6/12/2013 13:30	Test Site	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.40	U	ug/L	0.4	1.2
6/12/2013 13:30	Test Site	Overflow	Enterococci-Membrane Filter	4	B	cfu/100 mL	4	
6/12/2013 13:30	Test Site	Overflow	Fecal Coliforms-Membrane Filter	4		cfu/100 mL	1	
6/12/2013 13:30	Test Site	Metals	Lead	0.60	U	ug/L	0.6	2.4
6/12/2013 13:30	Test Site	Metals	Zinc	15	U	ug/L	15	60
6/12/2013 13:30	Test Site	Metals	Potassium	368		mg/L	15	60
6/12/2013 13:30	Test Site	Metals	Aluminum	180	U	ug/L	180	720
6/12/2013 13:30	Test Site	Metals	Arsenic	1.4	I	ug/L	0.75	3
6/12/2013 13:30	Test Site	Metals	Mercury	0.66		ng/L	0.1	0.4

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 13:30	Test Site	Metals	Magnesium	1,230		mg/L	2	8
6/12/2013 13:30	Test Site	Metals	Calcium	358		mg/L	0.22	0.9
6/12/2013 13:30	Test Site	Metals	Iron	90	U	ug/L	90	360
6/12/2013 13:30	Test Site	Metals	Sodium	9,820		mg/L	50	200
6/12/2013 13:30	Test Site	Metals	Chromium	0.90	U	ug/L	0.9	3.6
6/12/2013 13:30	Test Site	Metals	Molybdenum	9.6		ug/L	0.45	1.8
6/12/2013 13:30	Test Site	Metals	Nickel	0.75	U	ug/L	0.75	3
6/12/2013 13:30	Test Site	Metals	Silver	0.075	U	ug/L	0.075	0.3
6/12/2013 13:30	Test Site	Metals	Antimony	0.75	U	ug/L	0.75	3
6/12/2013 13:30	Test Site	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
6/12/2013 13:30	Test Site	Metals	Copper	1.5	U	ug/L	1.5	3
6/12/2013 13:30	Test Site	Metals	Selenium	0.60	U	ug/L	0.6	2.4
6/12/2013 13:30	Test Site	Nutrients	Organic Carbon	3.9		mg C/L	1	2
6/12/2013 13:30	Test Site	Nutrients	Cyanide	0.005	U	mg CN/L	0.005	0.02
6/12/2013 13:30	Test Site	Nutrients	Chloride	17,000		mg Cl/L	40	100
6/12/2013 13:30	Test Site	Nutrients	Turbidity	1		NTU	0.1	0.1
6/12/2013 13:30	Test Site	Nutrients	Total-P	0.02		mg P/L	0.004	0.01
6/12/2013 13:30	Test Site	Nutrients	NO2NO3-N	0.011		mg N/L	0.004	0.01
6/12/2013 13:30	Test Site	Nutrients	Alkalinity	110		mg CaCO3/L	0.65	2.5
6/12/2013 13:30	Test Site	Nutrients	Kjeldahl Nitrogen	0.43		mg N/L	0.16	0.4
6/12/2013 13:30	Test Site	Nutrients	TSS	3	I	mg/L	3	10
6/12/2013 13:30	Test Site	Nutrients	Fluoride	1.1		mg F/L	0.18	0.5
6/12/2013 13:30	Test Site	Nutrients	O-Phosphate-P	0.007	I	mg P/L	0.004	0.01
6/12/2013 13:30	Test Site	Nutrients	Color (true)	2.5	U	PCU	2.5	6
6/12/2013 13:30	Test Site	Nutrients	Ammonia-N	0.007		mg N/L	0.002	0.005
6/12/2013 13:30	Test Site	Nutrients	Sulfate	2,400		mg SO4/L	40	100
6/12/2013 13:30	Test Site	Overflow	1,2,3,4,7,8-HxCDF	0.233	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,7,8-PeCDF	0.221	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,4,6,7,8-HpCDD	5.19	I	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,7,8,9-HxCDD	2.58	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	2,3,7,8-TCDF	0.229	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Hexa-Dioxins	2.67	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Tetra-Dioxins	1.4	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,4,7,8,9-HpCDF	0.295	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,6,7,8-HxCDD	2.77	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,6,7,8-HxCDF	0.207	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	2,3,7,8-TCDD	1.4	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	OCDF	3.23	IV	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Hexa-Furans	0.231	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Penta-Furans	0.216	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	Hexavalent Chromium	2.4	U	ug/L	2.4	10
6/12/2013 13:30	Test Site	Overflow	1,2,3,4,7,8-HxCDD	2.66	U	pg/L		

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 13:30	Test Site	Overflow	OCDD	68	V	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Hepta-Dioxins	10.5	I	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Hepta-Furans	0.24	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Tetra-Furans	0.229	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	Chemical Oxygen Demand	590		mg/L	63	200
6/12/2013 13:30	Test Site	Overflow	1,2,3,7,8-PeCDD	1.61	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	2,3,4,6,7,8-HxCDF	0.211	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	2,3,4,7,8-PeCDF	0.211	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,4,6,7,8-HpCDF	0.954	IJV	pg/L		
6/12/2013 13:30	Test Site	Overflow	1,2,3,7,8,9-HxCDF	0.291	U	pg/L		
6/12/2013 13:30	Test Site	Overflow	Total Penta-Dioxins	1.61	U	pg/L		
6/12/2013 13:30	Test Site	Pesticides	Sucralose	0.18		ug/L	0.01	0.05
6/12/2013 13:30	Test Site	Pesticides	Hexazinone	0.15	U	ug/L	0.15	0.61
6/12/2013 13:30	Test Site	Pesticides	Naled	0.20	U	ug/L	0.2	0.81
6/12/2013 13:30	Test Site	Pesticides	Azinphos Methyl	0.10	U	ug/L	0.1	0.41
6/12/2013 13:30	Test Site	Pesticides	Chlorpyrifos Ethyl	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Mevinphos	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Butylate	0.10	U	ug/L	0.1	0.41
6/12/2013 13:30	Test Site	Pesticides	Fenamiphos	0.15	U	ug/L	0.15	0.61
6/12/2013 13:30	Test Site	Pesticides	Malathion	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Ametryn	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Atrazine	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Chlorpyrifos Methyl	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Ethion	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Metalaxyl	0.20	U	ug/L	0.2	0.81
6/12/2013 13:30	Test Site	Pesticides	Metolachlor	0.30	U	ug/L	0.3	1.2
6/12/2013 13:30	Test Site	Pesticides	Alachlor	0.30	U	ug/L	0.3	1.2
6/12/2013 13:30	Test Site	Pesticides	Ethoprop	0.025	U	ug/L	0.025	0.1
6/12/2013 13:30	Test Site	Pesticides	Parathion Ethyl	0.10	UJ	ug/L	0.1	0.41
6/12/2013 13:30	Test Site	Pesticides	Phorate	0.025	UJ	ug/L	0.025	0.1
6/12/2013 13:30	Test Site	Pesticides	Prometryn	0.10	U	ug/L	0.1	0.41
6/12/2013 13:30	Test Site	Pesticides	Simazine	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Fonofos	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Metribuzin	0.10	U	ug/L	0.1	0.41
6/12/2013 13:30	Test Site	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.61
6/12/2013 13:30	Test Site	Pesticides	Bromacil	0.20	U	ug/L	0.2	0.81
6/12/2013 13:30	Test Site	Pesticides	Diazinon	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Pesticides	Parathion Methyl	0.051	U	ug/L	0.051	0.2
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dimethylphenol	9.9	U	ug/L	9.9	40
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Dimethyl phthalate	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachlorobutadiene	3.0	UJ	ug/L	3	12
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20	U	ug/L	0.2	0.8

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Trichloroethene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	59
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	7.9
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Phenol	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,4-Dioxane	0.69		ug/L	0.02	0.1
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Vinyl chloride	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Isophorone	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,1-Dichloroethene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,2-Dichlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,2-Dichloropropane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bromodichloromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Chlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Chloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Chloronaphthalene	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Chlorophenol	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Di-n-butyl phthalate	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,2-Dichloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bromoform	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Chloroform	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Toluene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Trichlorofluoromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dichlorophenol	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,6-Dinitrotoluene	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2-Nitrophenol	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.99	U	ug/L	0.99	4

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	7.9
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	7.9
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bromomethane	0.20	UJ	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	trans-1,2-Dichloroethene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dinitrotoluene	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Diethyl phthalate	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Ethylbenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Methylene chloride	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Tetrachloroethene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	59
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzidine	99	U	ug/L	99	400
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Butyl benzyl phthalate	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Di-n-octyl phthalate	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachlorobenzene	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	7.9
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,1-Dichloroethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,3-Dichlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Chloromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.99	U	ug/L	0.99	4
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
6/12/2013 13:30	Test Site	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	7.9
6/12/2013 13:30	Test Site	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.79
6/12/2013 13:30	Test Site	Priority Organic Pollutants	1,4-Dichlorobenzene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	Dibromochloromethane	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20	U	ug/L	0.2	0.8
6/12/2013 13:30	Test Site	Field Parameter	Sample Depth	0.15		m		
6/12/2013 13:30	Test Site	Field Parameter	Dissolved Oxygen	6.79		mg/L		
6/12/2013 13:30	Test Site	Field Parameter	Specific Conductance	47,278		umhos/cm		
6/12/2013 13:30	Test Site	Field Parameter	pH	8.1				
6/12/2013 13:30	Test Site	Field Parameter	Temperature	29.46		C		

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Arsenic	0.25	U	ug/L	0.25	1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Chromium	0.30	U	ug/L	0.3	1.2
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Selenium	0.20	U	ug/L	0.2	0.8
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Magnesium	0.040	U	mg/L	0.04	0.16
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Potassium	0.30	U	mg/L	0.3	1.2
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Lead	0.20	U	ug/L	0.2	0.8
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Copper	0.50	U	ug/L	0.5	1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Aluminum	5.0	U	ug/L	5	20
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Calcium	0.075	U	mg/L	0.075	0.3
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Sodium	0.50	U	mg/L	0.5	2
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Cadmium	0.050	U	ug/L	0.05	0.2
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Zinc	5.0	U	ug/L	5	20
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Iron	30	U	ug/L	30	120
6/10/2013 12:45	Military Point Regional AWT Field Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Alkalinity	0.65	U	mg CaCO3/L	0.65	2.5
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Kjeldahl Nitrogen	0.080	U	mg N/L	0.08	0.2
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Turbidity	0.10	U	NTU	0.1	0.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Kjeldahl Nitrogen	0.080	U	mg N/L	0.08	0.2
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Chloride	0.20	U	mg Cl/L	0.2	0.5
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Color (true)	2.5	U	PCU	2.5	6
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Total-P	0.002	U	mg P/L	0.002	0.005
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Sulfate	0.20	U	mg SO4/L	0.2	0.5
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Fluoride	0.035	U	mg F/L	0.035	0.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Organic Carbon	0.50	U	mg C/L	0.5	1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Nutrients	Ammonia-N	0.002	U	mg N/L	0.002	0.005
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Parathion Methyl	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Prometryn	0.11	U	ug/L	0.11	0.44
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Fenamiphos	0.16	U	ug/L	0.16	0.66
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Naled	0.22	U	ug/L	0.22	0.88
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Norflurazon	0.16	U	ug/L	0.16	0.66
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Ethion	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Chlorpyrifos Methyl	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Butylate	0.11	U	ug/L	0.11	0.44
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Alachlor	0.33	U	ug/L	0.33	1.3
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Atrazine	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Metalaxyl	0.22	U	ug/L	0.22	0.88
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Phorate	0.027	UJ	ug/L	0.027	0.11
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Sucralose	0.0099	U	ug/L	0.0099	0.05
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Chlorpyrifos Ethyl	0.055	U	ug/L	0.055	0.22

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Ametryn	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Bromacil	0.22	U	ug/L	0.22	0.88
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Simazine	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Ethoprop	0.027	U	ug/L	0.027	0.11
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Azinphos Methyl	0.11	U	ug/L	0.11	0.44
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Fonofos	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Parathion Ethyl	0.11	UJ	ug/L	0.11	0.44
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Mevinphos	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Metolachlor	0.33	U	ug/L	0.33	1.3
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Malathion	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Hexazinone	0.16	U	ug/L	0.16	0.66
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Metribuzin	0.11	U	ug/L	0.11	0.44
6/10/2013 12:45	Military Point Regional AWT Field Blank	Pesticides	Diazinon	0.055	U	ug/L	0.055	0.22
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Isophorone	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	8.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	40
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Dimethyl phthalate	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	3.0	UJ	ug/L	3	12
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	61
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	8.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Diethyl phthalate	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Hexachlorobenzene	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Phenol	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.0	U	ug/L	1	4

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	8.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	1,4-Dioxane	0.41		ug/L	0.02	0.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2-Nitrophenol	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	400
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	8.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	61
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2-Chlorophenol	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	8.1
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	1.0	U	ug/L	1	4
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.81
6/10/2013 12:45	Military Point Regional AWT Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Color (true)	2.5	U	PCU	2.5	6
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Ammonia-N	0.002	I	mg N/L	0.002	0.005
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Fluoride	0.035	U	mg F/L	0.035	0.1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Turbidity	0.10	U	NTU	0.1	0.1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Chloride	0.20	U	mg Cl/L	0.2	0.5
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Cyanide	0.005	U	mg CN/L	0.005	0.02
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Organic Carbon	0.50	U	mg C/L	0.5	1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Alkalinity	0.65	U	mg CaCO3/L	0.65	2.5
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Sulfate	0.20	U	mg SO4/L	0.2	0.5
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Hexavalent Chromium	2.4	U	ug/L	2.4	10
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Metalaxyl	0.20	U	ug/L	0.2	0.82
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Metribuzin	0.10	U	ug/L	0.1	0.41
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Parathion Ethyl	0.10	UJ	ug/L	0.1	0.41
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Sucralose	0.011	U	ug/L	0.011	0.054
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Alachlor	0.31	U	ug/L	0.31	1.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Butylate	0.10	U	ug/L	0.1	0.41

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Parathion Methyl	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Prometryn	0.10	U	ug/L	0.1	0.41
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Bromacil	0.20	U	ug/L	0.2	0.82
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Chlorpyrifos Ethyl	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Ethion	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Ethoprop	0.025	U	ug/L	0.025	0.1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Fenamiphos	0.15	U	ug/L	0.15	0.61
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Hexazinone	0.15	U	ug/L	0.15	0.61
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Malathion	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Azinphos Methyl	0.10	U	ug/L	0.1	0.41
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Diazinon	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.61
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Phorate	0.025	UJ	ug/L	0.025	0.1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Ametryn	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Atrazine	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Chlorpyrifos Methyl	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Fonofos	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Metolachlor	0.31	U	ug/L	0.31	1.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Mevinphos	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Naled	0.20	U	ug/L	0.2	0.82
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Pesticides	Simazine	0.051	U	ug/L	0.051	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	60
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2-Chlorophenol	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	400
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	3.0	UJ	ug/L	3	12
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.0	U	ug/L	3	12
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,4-Dioxane	0.42	Y	ug/L	0.02	0.1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Bromodichloromethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.0	U	ug/L	3	12
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	40	U	ug/L	40	160
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Acenaphthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Fluorene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Pyrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,1-Dichloroethene	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	trans-1,2-Dichloroethene	0.50	U	ug/L	0.5	2

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	60
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Anthracene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	2.0	U	ug/L	2	8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Hexachlorobenzene	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,2-Dichloropropane	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Chlorobenzene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Chloroethane	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Ethylbenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Tetrachloroethene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Toluene	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2-Nitrophenol	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Acenaphthylene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	2.0	U	ug/L	2	8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Pentachlorophenol	3.0	U	ug/L	3	12
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Phenol	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Chloromethane	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Methylene chloride	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Trichlorofluoromethane	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Vinyl chloride	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	trans-1,3-Dichloropropene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	40
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.0	U	ug/L	3	12
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Chrysene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Hexachloroethane	3.0	U	ug/L	3	12
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.0	U	ug/L	2	8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Nitrobenzene	2.0	U	ug/L	2	8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,1,2-Trichloroethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Chloroform	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Dibromochloromethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Isophorone	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Phenanthrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,1,1-Trichloroethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,1-Dichloroethane	0.20	U	ug/L	0.2	0.8

Date_Sampled	UDL	SCH_Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Benzene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Diethyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Naphthalene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,2-Dichloroethane	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Bromoform	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	cis-1,3-Dichloropropene	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.0	U	ug/L	2	8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Dimethyl phthalate	1.0	U	ug/L	1	4
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Fluoranthene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.0	U	ug/L	3	12
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,1,2,2-Tetrachloroethane	0.50	UJ	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Bromomethane	0.50	U	ug/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Priority Organic Pollutants	Trichloroethene	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Arsenic	0.25	U	ug/L	0.25	1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Sodium	0.50	U	mg/L	0.5	2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Copper	0.50	U	ug/L	0.5	1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Selenium	0.20	U	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Molybdenum	0.15	U	ug/L	0.15	0.6
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Lead	0.20	I	ug/L	0.2	0.8
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Magnesium	0.040	U	mg/L	0.04	0.16
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Cadmium	0.050	U	ug/L	0.05	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Antimony	0.25	U	ug/L	0.25	1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Potassium	0.30	U	mg/L	0.3	1.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Iron	30	U	ug/L	30	120
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Calcium	0.075	U	mg/L	0.075	0.3
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Aluminum	5.0	U	ug/L	5	20
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Zinc	5.0	U	ug/L	5	20
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Metals	Chromium	0.30	U	ug/L	0.3	1.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Total-P	0.002	U	mg P/L	0.002	0.005
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Turbidity	0.10	U	NTU	0.1	0.1
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Kjeldahl Nitrogen	0.080	U	mg N/L	0.08	0.2
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	NO2NO3-N	0.010	I	mg N/L	0.004	0.01
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Nutrients	Color (true)	2.5	U	PCU	2.5	6

Date Sampled	UDL	SCH Group	Component	Value	Qualifier	Units	MDL	PQL
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Hexa-Furans	0.0836	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,7,8,9-HxCDF	0.104	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,4,7,8-HxCDF	0.0858	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,4,6,7,8-HpCDD	1.31	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Tetra-Dioxins	1.6	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Penta-Furans	0.163	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	2,3,7,8-TCDF	0.286	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	2,3,7,8-TCDD	1.6	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	2,3,4,7,8-PeCDF	0.16	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,6,7,8-HxCDF	0.0731	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Hepta-Dioxins	1.31	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	OCDD	3.98	IV	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Penta-Dioxins	1.69	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,7,8-PeCDF	0.169	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,6,7,8-HxCDD	2.85	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,4,7,8,9-HpCDF	0.135	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Chemical Oxygen Demand	6.3	U	mg/L	6.3	20
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Hexa-Dioxins	2.78	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Tetra-Furans	0.286	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,7,8,9-HxCDD	2.68	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	2,3,4,6,7,8-HxCDF	0.0794	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	Total Hepta-Furans	0.116	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	OCDF	0.535	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,4,7,8-HxCDD	2.8	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,7,8-PeCDD	1.69	U	pg/L		
6/10/2013 14:30	Military Point Industrial Lagoon Field Blank	Overflow	1,2,3,4,6,7,8-HpCDF	0.0995	U	pg/L		

Appendix G

Military Point Industrial Lagoon toxicological results

FDEP Biology Laboratory - Chronic Definitive Bench Sheet

Ceriodaphnia dubia

Facility: Military Point Aerated lagoon
Address: 106 Lagoon Road, Tyndall AFB, Panama City
County: BAY
NPDES Permit #: FL 0002631
Contact/District: Nathan Mulkey / Northwest

LIMS entry: 6-20-13 MF verified: BA 6.20.13

Diluent/ Batch: MHWCD 6.1.13 Test Days Used: 0-1
MHWCD / 6.8.13 Test Days Used: 2-5

SOP#: TA07_05 EPA 821-R-02-013 Method 1002.0

Organism: *Ceriodaphnia dubia*
Organism Batch #: 6-11-13
Organism age : <24 hours
Feeding: Prior to Test and Daily
Food: [4] YCT [4] *P. subcapitata*
Food Batch: 4-3-13 4-22-13
Chamber size : 30 ml
Sample volume : 20 ml

Sample Received	LAB Sample #	LIMS JOB #	LIMS SAMPLE #	Collection Date/Time	Received Date/Time
Test Day 0	1	TLH-2013-06-11-41	1509883	6-10-13 AP 0900	6-11-13 1000
Test Day 2	2	TLH-2013-06-13-79	1510925	6-12-13 0900	6-13-13 1032
Test Day 4	3	TLH-2013-06-17-03	1511344	6-14-13 0900	6-15-13 0945

Batch #	6.1.13	6.8.13	NA	NA	NA			
Water Quality Parameters	MHWCD	MHWCD	Sample 1	Sample 2	Sample 3	Other:	Measured By:	Verified by:
Field Total Residual Cl_2 (mg/L):	NA	NA	*NM	NM	NM			CR/MF
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03	<0.03	<0.03	<0.03		CR/HW	AP
Alkalinity (mg/L as $CaCO_3$):	70	64	317	336	334		CR/AP/HW	MF
Hardness (mg/L as $CaCO_3$):	88	65	190	195	199		CR/AP/HW	MF
Total Ammonia (mg/L as N):	<0.017	<0.017	0.900	0.806	0.247		MF	AP
Conductivity: µmhos mmhos:	312	265	2090	2040	2000		CR	AP
Salinity (ppth):								

*NM=not measured CR

Test Incubated in: Incubator #: 5

Temperature Shipped ≤ 6° C (all samples) yes (no)
Holding Time ≤ 36 hours yes no
Light Intensity : 50 - 100 ft. candles
Photoperiod : 16 light 8 dark
Temperature Range °C:
Incubator # 5 min. 24.4 max. 26.1
Room B246 min. 24.6 max. 25.3
Test min. 23.3 max. 25.9

Loaded by: MF

Test Replicates	Loaded from culture vial
1	B11
2	B14
3	B15
4	B21
5	B27
6	B28
7	C25
8	C26
9	B7
10	B4

Results	
Control % CV:	16.9 %
Dunnetts PMSD:	18.1 %
Reproduction NOEC:	25 %
Reproduction LOEC:	50 %
Survival NOEC:	100 %
Survival LOEC:	>100 %
ICP_{20}:	37.7 %
ICP_{25}:	41 %

Investigators' signatures

	Initials
Marshall Faircloth	MF
Adrienne Pennington	AP
Cassidy Reistat	CR
Bruce Abbott	BA
Hans Webb	HW

REVIEWER Liz Miller

Comments: 3rd Sample Shipped Jug 8.6°C, This Jug was NOT used for C. dubia Renewal, MF 6-20-13

Test Page 1 of 6

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revised 02/15/13 MF

FDEP Biology Laboratory - Chronic Definitive Bench Sheet

Ceriodaphnia dubia Survival and Reproduction

SOP TA07_05

Facility: Military Point Aerated Lagoon

LIMS Sample #: 1509883 for lab sample #1

Start Date: 6-11-13 Time: 1220

End Date: 6-17-13 Time: 1230

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organisms	Neonates per female
Control	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	4	4	2	5	6	5	5	6	4	5	46	10	4.6
	4	0	0	0	0	0	0	0	0	0	0	0	10	0
	5	9	9	8	4	6	8	8	7	10	6	75	10	7.5
	6	15	11	12	13	15	13	16	12	14	4	125	10	12.5
	7													
	8													
	Total	28	24	22	22	27	26	29	25	28	15	246	10	24.6

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organisms	Neonates per female
6.25%	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	4	6	3	6	4	5	5	4	5	6	48	10	4.8
	4	0	0	0	0	0	0	0	0	0	0	0	10	0
	5	7	5	6	9	8	8	3	4	4	8	62	10	6.2
	6	12	15	15	15	15	14	11	12	16	14	139	10	13.9
	7													
	8													
	Total	23	26	24	30	27	27	19	20	25	28	249	10	24.9

Organisms loaded by: MF

Day	Counted/ verified by:	Concentrations prepared by:
0	AP	MF
1	CR	CR
2	MF	MF
3	MF	MF
4	MF	MF
5	MF	MF
6	MF	—
7		
8		

Concentration	Mean neonates /female	% survival
Control	24.6	100
6.25%	24.9	100
12.50%	27.6	100
25%	25.4	90
50%	15.8	100
100%	5.3	100

Test acceptability		
Mean control reproduction 15/female	(yes)	no
3rd brood in 60% of surviving females	(yes)	no
Control survival ≥ 80%:	(yes)	no

Comments:

*Day 0 is test initiation day
X = Dead (original organism)

8cUUU

FDEP Biology Laboratory - Chronic Definitive Bench Sheet

Ceriodaphnia dubia Survival and Reproduction

SOP TA07_05

Facility: Military Point Aerated Lagoon

LIMS Sample # : 1509883 for lab sample #1

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organism	Neonates per female
12.50%	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	4	4	4	6	6	4	5	5	5	5	48	10	4.8
	4	10/AF	0	8	0	0	10	0	0	0	10	38	10	3.8
	5	0	6	0	12	6	0	8	5	7	0	44	10	4.4
	6	18	14	11	13	19	10	16	9	16	20	146	10	14.6
	7													
	8													
	Total	32	24	23	31	31	24	29	19	28	35	276	10	27.6

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organism	Neonates per female
25%	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	5	2	4	5	3	3	4	5	3	10	* 34	10(9)	3.78
	4	10	0	10	13	0	0	0	0	10		43	9	4.78
	5	0	9	0	0	6	8	7	8	0		38	9	~~4.22~~ 4.78
	6	13 ~~18~~	11	15	10	15	8	15	15	12		114	9	~~4.22~~ 12.7
	7													~~12.7~~
	8													
	Total	28	22	29	28	24	19	26	28	25	NC	229	9	25.44

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organism	Neonates per female
50%	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	2	0	0	0	0	0	0	0	2	0	4	10	0.4
	4	1	0	5	6	0	0	0	0	0	6	18	10	1.8
	5	0	6	0	0	9	0	4	6	5	0	30	10	3.0
	6	7	12	9	5	18	10	13	11	9	12	106	10	10.6
	7													
	8													
	Total	10	18	14	11	27	10	17	17	16	18	158	10	15.8

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Surviving orginal organism	Neonates per female
100%	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	0	0	0	0	0	0	0	0	0	0	0	10	0
	4	0	0	0	0	0	0	0	0	0	0	0	10	0
	5	0	0	0	6	0	1	0	0	2	3	12	10	1.2
	6	0	8	4	4	4	4	3	2	4	8	41	10	4.1
	7													
	8													
	Total	0	8	4	10	4	5	3	2	6	11	53	10	5.3

6200029

Comments: * killed in transfer MF 6-14-13 NC = not counted

*Day 0 is test initiation day
X = Dead (original organism)

FDEP Biology Laboratory - Chronic Definitive Bench Sheet

Ceriodaphnia dubia Parameters

Facility: Military Point Aerated Lagoon SOP TA07_05

LIMS Sample #: 1509883 for lab sample 1

Circle µmhos-cm or mmhos-cm

Test Day ↓		Concentration	New Sample					Old Sample				
			Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)	Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)
Day 0	sample	Control	M	7.7	24.3	8.0	312					
	1	6.25%	M	7.8	24.6	8.1	435					
	1	12.5%	M	8.0	24.6	8.1	553					
	1	25%	M	8.2	24.6	8.0	786					
	1	50%	M	8.3	24.6	8.0	1235					
	1	100%	M	8.4	24.9	8.0	2090					
	Measured by:			CR	MF	CR	CR					
	Recorded by:			CR	MF	CR	CR					
Day 1	sample:	Control	M	8.1	24.9	8.2	318	M	7.8	23.3	8.1	458
	1	6.25%	M	8.1	24.9	8.2	443	M	7.9	23.6	8.1	462
	1	12.5%	M	8.1	24.7	8.2	566	M	7.9	24.2	8.1	570
	1	25%	M	8.2	24.4	8.1	790	M	8.0	24.2	8.0	814
	1	50%	M	8.3	24.3	8.1	1231	M	8.2	24.4	7.8	1279
	1	100%	M	8.3	24.4	8.2	2130	M	8.4	24.2	7.8	2200
	Measured by:			CR	AP	CR	CR		CR	CR	CR	CR
	Recorded by:			AP	AP	CR	CR		AP	CR	CR	CR
Day 2	sample:	Control	M	8.2	24.5	8.1	265	M	8.0	24.4	8.6	517
	2	6.25%	M	8.1	24.5	8.3	390	M	8.1	24.8	8.5	462
	2	12.5%	M	8.2	24.6	8.3	505	M	8.1	25.0	8.6	588
	2	25%	M	8.2	24.6	8.3	730	M	8.1	25.2	8.4	812
	2	50%	M	8.3	24.6	8.3	1175	M	8.3	25.2	8.4	1276
	2	100%	M	8.3	24.5	8.2	2040	M	8.4	25.3	8.1	2220
	Measured by:			AP	MF	AP	CR		AP	MF	CR	CR
	Recorded by:			CR	MF	CR	CR		CR	MF	CR	CR
Day 3	sample:	Control	M	8.2	24.4	7.8	264	M	7.8	24.0	7.9	378
	2	6.25%	M	8.2	24.8	8.0	386	M	7.9	24.5	7.9	407
	2	12.5%	M	8.2	24.9	8.0	501	M	7.9	24.7	7.9	517
	2	25%	M	8.3	24.9	8.0	725	M	8.0	24.7	7.9	748
	2	50%	M	8.4	24.9	7.9	1156	M	8.2	24.7	7.8	1190
	2	100%	M	8.4	24.7	7.8	1993	M	8.4	24.7	7.7	2080
	Measured by:			AP	MF	AP	AP		AP	MF	AP	AP
	Recorded by:			AP	MF	CR	CR		AP	MF	CR	CR

Comments:

Replicate M= "Metered" vial, a surrogate vial for parameters

FDEP Biology Laboratory - Chronic Definitive Bench Sheet

Ceriodaphnia dubia Parameters

Facility: Military Point Aerated Lagoon SOP TA07_05

LIMS Sample #: 1589883 for lab sample 1

Circle µmhos-cm or mmhos-cm

Test Day ↓		Concentration	New Sample					Old Sample				
			Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)	Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)
Day 4	sample:	Control	M	8.1	24.2	8.3	273	M	8.1	24.0	8.4	289
	3	6.25%	M	8.2	24.7	8.4	389	M	8.1	24.3	8.4	409
	3	12.5%	M	8.3	24.7	8.3	503	M	8.1	24.5	8.3	524
	3	25%	M	8.3	24.7	8.4	727	M	8.2	24.8	8.2	753
	3	50%	M	8.4	24.7	8.4	1157	M	8.3	24.8	8.1	1196
	3	100%	M	8.4	24.5	8.3	2000	M	8.5	24.8	8.0	2010
	Measured by:			CR	MF	CR	CR		CR	MF	CR	CR
	Recorded by:			CR	MF	CR	CR		CR	MF	CR	CR
Day 5	sample:	Control	M	8.1	24.6	8.1	271	M 8.1	7.9 MF	24.6	8.0	299
	3	6.25%	M	8.1	25.0	8.2	394	M 8.3	7.9 MF	25.4	7.9	399
	3	12.5%	M	8.1	25.1	8.2	515	M	8.04 MF	25.8	8.0	515
	3	25%	M	8.1	25.1	8.2	744	M	8.5	25.8	8.0	756
	3	50%	M	8.1	25.1	8.2	1179	M	8.5	25.9	7.8	1178
	3	100%	M	8.3	25.0	8.2	2050	M	8.4	25.6	7.7	2140
	Measured by:			MF	MF	MF	MF		MF	MF	MF	MF
	Recorded by:			MF	MF	MF	MF		MF	MF	MF	MF
Day 6	sample:	Control	M					M	8.0	25.2	8.1	301
	3	6.25%	M					M	8.0	25.4	8.1	409
	3	12.5%	M					M	8.0	25.6	8.1	522
	3	25%	M					M	7.9	25.6	8.0	735
	3	50%	M					M	7.9	25.8	7.9	1166
	3	100%	M					M	8.2	25.8	7.7	2090
	Measured by:								MF	MF	MF	MF
	Recorded by:								MF	MF	MF	MF
Day 7	sample:	Control	M					M				
	3	6.25%	M					M				
	3	12.5%	M					M				
	3	25%	M					M				
	3	50%	M					M				
	3	100%	M					M				
	Measured by:											
	Recorded by:											
Day 8	sample:	Control	M					M				
	3	6.25%	M					M				
	3	12.5%	M					M				
	3	25%	M					M				
	3	50%	M					M				
	3	100%	M					M				
	Measured by:											
	Recorded by:											

DO in pH spec MF 6/6/13

Comments:

Test ID: Military Point Aerated Lagoon Dates: 6-11-13 — 6-17-13

METER / DEVICE	ID	SOP	Parameter	Method	√ used
YSI Model 58 Dissolved Oxygen Meter	90H018262	TA06_04	Dissolved Oxygen	SM 4500 O G	✓
YSI DO Probe	5905	TA06_04	Dissolved Oxygen	SM 4500 O G	✓
Accumet AR-10 pH Meter	93312105	TA06_23	pH	SM 4500 H+	✓
Mettler-Toledo SevenMulti Conductivity Meter	SN 1225117049 Probe H04257	TA06_25	Conductivity Salinity	SM 2510 B SM 2520 B	✓
Denver Model 225 ISE with ammonia probe	SN K01377	TA06_17	Ammonia	SM 4500 NH3 F	✓
Traceable Thermometer	#1-SN101686412 #2-SN221295527 #3-SN240116020 #4-SN80361795 #5-SN61990624	TA06_05	Temperature	SM-2530B modified DEP SOP-001/01 FT1400	#4 ✓
Hach Pocket Colorimeter II #1	05110C042029	TA06_22	Total Residual Chlorine	EPA 330.5 SM 4500 CL G	NA
Hach Pocket Colorimeter II #2	05050C026378	TA06_22	Total Residual Chlorine	EPA 330.5 SM 4500 CL G	✓
Alkalinity (Hach Kit)	No SN	TA06_08	Alkalinity	SM 2320 B	✓
Hardness (Hach Kit)	No SN	TA06_09	Hardness	SM 2340 C	✓
OHAUS Balance 250D	1125481084	TA06_21 TA06_27	Weight	-	
S-Weights	BIO-S-WEIGHTS-01	NA	Balance check	-	

SM-2530B modified to allow use of electronic and non-mercury filled thermometers.

Insert other device information in blank spaces(if used). Test ID = Facility or SRTs (acute SRT--Chronic SRT)

Entered By: M. Faircloth 6-25-13

V 1.3 2/15/13 MF

PAGE

FDEP Biology Laboratory - Chronic Bioassay Bench Sheet

Pimphales promelas or Menidia beryllina

Facility: Military Point Aerated Lagoon
Address: 106 Lagoon Rd, Tyndall AFB, Panama City
County: Bay
NPDES Permit #: FL0002631
Contact/District: Nathan Mullikey / North west

Test Species (circle one)
(*P. promelas*) SOP#: TA07_09 EPA-821-R-02-013 Method 1000.0
M. beryllina SOP#: TA07_14 EPA-821-R-02-014 Method 1006.0

Start Date: 6-11-13 Time: 1500
End Date: 6-18-13 Time: 1130

Diluent/ Batch:
MHW / 6.1.13 Test Days Used: 0-1
MHW / 6.11.13 Test Days Used: 2-6
ASW / _____ Test Days Used: _____
ASW / _____ Test Days Used: _____

Organism age : <24 hrs ~~days~~ AP
Feeding Prior to Test and Daily
Artemia Lot # : 08812
Chamber size : 1000 ml
Test volume : 500 ml

Organism Batch #:	
Artemia Batch #	Day 3 112.13
Day 0 109.13	Day 4 113.13
Day 1 110.13	Day 5 114.13
Day 2 111.13	Day 6 115.13

LIMS entry: 6-24-13 MF Entry verification: 6,25,13 BE

Sample Received	Lab Sample #	LIMS Job #	LIMS Sample #	Collection Date/Time	Received Date/Time
Test Day 0	1	TLH-2013-06-11-41	1509883	6-10-13 0900	6-11-13 1000
Test Day 2	2	TLH-2013-06-13-79	1510925	6-12-13 0900	6-13-13 1032
Test Day 4	3	TLH-2013-06-17-03	1511344	6-14-13 0900	6-15-13 0945

Water Quality Parameters	Batch # 6.1.13 MHW/ASW (circle one)	6-11-13 MHW/ASW (circle one)	NA Sample 1	NA Sample 2	NA Sample 3	Other:	Measured By:	Verified by:
Field Total Residual Cl_2 (mg/L):	NA	NA	*NM	NM	NM			CR/MF
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03	<0.03	<0.03	<0.03		CR/AP/HW/MF	AP
Alkalinity (mg/L as $CaCO_3$):	64	63	317	336	334		HW/CR/AP	AP/MF
Hardness (mg/L as $CaCO_3$):	89	82	190	195	199		HW/CR/AP	AP/MF
Total Ammonia (mg/L as N):	<0.017	<0.017	0.900	0.806	0.247		MF	AP/MF
Conductivity: ~~µmhos~~ mmhos:	322	298	2130	~~AP~~ 2050	2020		CR/AP	MF
Salinity (ppth):								

*NM = not measured CR

Light Intensity : 50 - 100 ft. candles
Photoperiod : 16 light 8 dark
Temperature Range °C:
Incubator # 2 min 24.0 max 25.2
Water bath # ___ min. ___ max. ___
Room B246 min 24.6 max 25.3

Sample Validation:
Instructions: Check yes or no. Fill in temperatures.
Temperature: Shipped ≤ 6°C □ Yes ☒ No *
If Hand Delivered:Cooling □ Yes □ No (received ____°C collected___°C)
Holding Time: ≤ 36 Hours ☑ Yes □ No
(Composite-end of collection; grab-when collected;
4 in 24 - time last sample collected)

Statistics	MF
Growth NOEC:	~~19.9~~ 50%
Growth LOEC:	~~33.8~~ 100%
Growth IC_{20}:	37.8%
Growth IC_{25}:	43.2%
Ctrl % CV:	19.9%
Dunnetts PMSD:	33.8%
Survival NOEC:	25%
Survival LOEC:	50%

Investigators' signatures

	Initials:
Cassidy Resicliff	CR
Arianne Pennington	AP
Brie Allen	BA
Hans Walk	HW
Marshall Faircloth	MF

REVIEWER Liz Miller

Comments: * 3rd Jug (24 mg/L Cooler) of 3rd set of samples was out of range for temperature (8.6°C). Results ~~y~~ qualified and NCR 4522 created.

revised 03/26/13 MF

Chronic Bioassay Survival Benchsheet

Facility: Military Point Aerated Lagoon

LIMS Sample Number: 1509883
(for Lab Sample # 1)

Department of Environmental Protection
Biology Laboratory Chronic Screening Bioassay
***P. promelas* SOP TA07_09 *M. beryllina* SOP TA07_14**

Organism: *P. promelas* *M.beryllina* (circle one)

		TEST DAY							
Concentration	Replicate	0	1	2	3	4	5	6	7
Control	A	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	10	10	10
	D	10	10	10	10	10	10	10	10
Sample 6.25%	A	10	10	10	10	10	10	~~10~~ 8 AP	10
	B	10	10	10	10	9^{1D}	9	9	8^{1D}
	C	10	10	10	10	10	8^{2D}	8	8
	D	10	10	10	9^{1D}	9	9	9	9
Sample 12.5 %	A	10	10	10	10	10	10	10	10
	B	10	10	10	9^{1D}	9	8^{1D}	7^{1D}	7
	C	10	10	10	10	10	10	10	9^{1D}
	D	10	10	10	10	10	10	10	10
Sample 25 %	A	10	10	10	10	10	10	10	10
	B	10	10	10	10	10	10	10	10
	C	10	10	10	10	10	9^{1D}	9	9
	D	10	10	10	10	9^{1D}	9	8^{1D}	8
Sample 50 %	A	10	10	10	10	9^{1D}	9	7^{2D}	7
	B	10	10	10	9^{1D}	9	7^{2D}	7	7
	C	10	10	10	10	10	8^{2D}	7^{1D}	6^{1D}
	D	10	9^{1D}	9	9	9	9	9	9
Sample 100 %	A	10	10	10	10	8^{2D}	7^{1D}	6^{1D}	6
	B	10	10	10	10	9^{1D}	8^{1D}	8	7^{1D}
	C	10	10	10	10	9^{1D}	8^{1D}	6^{2D}	6
	D	10	10	10	10	9^{1D}	5^{4D}	3^{2D}	3
Sample %	A	10							
	B	10							
	C	10							
	D	10							
Loaded by: CR	Checked by:		CR	AP	CR	CR	AP	AP	AP
Verified by: BA									

Comments:

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Chronic Bioassay Parameters Benchsheet

P. promelas and M. beryllina SOP TA07_09 and TA-07_14 parameter pg 1

Sample Source: Military Point Aerated Lagoon

LIMS Sample #: 1509883 (for Lab sample #1)

conc = concentration rep = replicate circle umhos or mmhos

Test Day ↓		Conc.	Before Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity umhos mmhos	Salinity ppth	After Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity umhos mmhos	Salinity ppth
Day 0	sample:	Control	A	7.9	24.6	8.1	322							
	1	6.25%	A	8.0	24.6	8.1	418							
	1	12.5%	A	8.1	24.6	8.1	504							
	1	25%	A	8.2	24.7	8.1	743							
	1	50%	A	8.3	24.8	8.2	1204							
	1	100%	A	8.3	25.3	8.2	2130							
	1		A											
	Measured by:			CR	AP	CR	CR							
	Recorded by:			CR	AP	CR	CR							
			Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 1	sample:	Control	B	8.0	24.9	8.1	316		B	8.0	24.2	8.0	318	
	1	6.25%	B	8.0	25.5	8.2	433		B	8.0	24.2	8.0	415	
	1	12.5%	B	8.0	25.8	8.0	523		B	8.1	24.2	7.9	518	
	1	25%	B	8.1	24.9	7.8	754		B	8.1	24.2	7.8	748	
	1	50%	B	8.3	25.6	7.8	1242		B	8.2	24.3	7.7	1196	
	1	100%	B	8.4	26.2	7.1	2130		B	8.3	24.4	7.5	2050	
	1		B						B					
	Measured by:			CR	CR	CR	CR			CR	CR	CR	CR	
	Recorded by:			CR	CR	CR	CR			CR	CR	CR	CR	
			Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 2	sample:	Control	C	7.8	25.1	7.7	303		C	7.9	24.4	7.9	298	
	2	6.25%	C	7.8	25.2	7.6	427		C	7.9	24.4	7.9	416	
	2	12.5%	C	7.8	25.2	7.6	533		C	7.9	24.4	8.0	526	
	2	25%	C	7.9	25.4	7.3	773		C	8.1	24.4	7.8	739	CR
	2	50%	C	8.1	24.0	7.3	1228		C	8.2	24.4	7.8	~~105~~	1205
	2	100%	C	8.2	24.5	6.6	2090		C	8.3	24.5	7.7	2000	
	2		C						C					
	Measured by:			CR	CR	CR	CR			AP	AP	AP	AP	
	Recorded by:			CR	AP	CR	CR			CR	AP	CR	CR	
			Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 3	sample:	Control	D	7.4	24.0	6.5	368		D	7.9	24.6	7.5	313	
	2	6.25%	D	7.5	24.4	6.5	425		D	7.9	24.5	7.5	430	
	2	12.5%	D	7.5	24.3	6.6	538		D	7.9	24.5	7.4	547	
	2	25%	D	7.6	23.9	6.6	758		D	8.0	24.5	7.4	766	
	2	50%	D	7.9	24.1	6.5	1212		D	8.1	24.5	7.3	1196	
	2	100%	D	8.1	24.5	5.8	2060		D	8.2	24.6	7.2	2070	
	2		D						D					
	Measured by:			AP	AP	AP	AP			AP	CR	AP	AP	
	Recorded by:			AP	AP	AP	AP			AP	CR	CR	CR	

Comments:

For salinity <1 ppth insert <1. For salinity > 1 ppth, conductivity measurement is not required if salinity probe is functional.

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Chronic Bioassay Parameters Benchsheet

P. promelas and M. beryllina SOP TA07_09 and TA-07_14 parameter pg. 2

Sample Source: Military Point Aerated Lagoon

LIMS Sample #: 1509883 (for Lab sample #1)

conc = concentration rep = replicate

Test Day ↓		% Conc.	Before Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (umhos) mmhos	Salinity ppth	After Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (umhos) mmhos	Salinity ppth
Day 4	sample:	Control	A	7.6	25.1	7.1	314		A	7.9	24.7	8.1	305	
	3	6.25	A	7.6	25.6	6.8	440		A	7.9	24.8	7.8	423	
	3	12.5	A	7.6	25.7	6.4	559		A	7.9	24.8	7.5	535	
	3	25	A	7.7	25.9	6.3	791		A	8.0	24.8	7.6	758	
	3	50	A	7.9	25.6	6.4	1743		A	8.1	24.7	7.6	1171	
	3	100	A	8.1	25.6	6.2	>100		A	8.3	24.8	7.5	>200	
	3		A		~~25.5~~ MA				A					
	Measured by:			CR	MA	CR	CR			CR	CR	CR	CR	
	Recorded by:			CR	MA	CR	CR			CR	CR	CR	CR	
			Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 5	sample:	Control	B	7.3	24.9	6.0	474		B	7.5	24.0	6.9	399	
	3	6.25	B	7.3	24.5	6.0	431		B	7.5	24.1	6.6	416	
	3	12.5	B	7.4	24.4	6.0	541		B	7.6	24.0	6.6	526	
	3	25	B	7.5	24.6	6.1	775		B	7.7	24.0	6.6	765	
	3	50	B	7.7	25.0	6.1	1183		B	7.9	24.2	6.7	1162	
	3	100	B	8.0	24.9	5.4	2010		B	8.1	24.6	6.6	2020	
	3		B						B					
	Measured by:			AP	MA	AP	AP			AP	AP	AP	AP	
	Recorded by:			AP	MA	AP	AP			AP	AP	AP	AP	
			Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 6	sample:	Control	C	7.4	24.1	7.0	399		C	7.3	24.3	7.4	333	
	3	6.25%	C	7.4	24.4	6.4	408		C	7.4	24.3	7.4	401	
	3	12.5%	C	7.5	24.3	6.4	518		C	7.5	24.3	7.4	517	
	3	25%	C	7.5	24.3	6.1	726		C	7.6	24.3	7.4	730	
	3	50%	C	7.7	24.7	6.0	1127		C	7.8	24.4	7.0	1145	
	3	100%	C	8.0	24.4	5.5	1888		C	8.2	24.6	6.9	1919	
	3		C						C					
	Measured by:			AP	AP	AP	AP			AP	AP	AP	AP	
	Recorded by:			AP	AP	AP	AP			AP	AP	AP	AP	
			Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 7	sample:	Control	D	7.6	24.2	7.1	598		D					
	3	6.25%	D	7.6	25.2	6.7	421		D					
	3	12.5%	D	7.6	25.4	6.6	526		D					
	3	25%	D	7.7	24.8	6.4	734		D					
	3	50%	D	7.8	25.5	6.5	1157		D					
	3	100%	D	8.0	25.1	6.2	1900		D					
	3								D					
	Measured by:			AP	AP	AP	AP							
	Recorded by:			AP	AP	AP	AP							

Comments:

For salinity <1 ppth insert <1. For salinity > 1 ppth, conductivity measurement is not required if salinity probe is functional

Chronic Bioassay Weighing Benchsheet

Facility: Military Point Aerated Lagoon

LIMS Sample Number: 1509883

(for Lab Sample # 1)

***P. promelas* and *M. beryllina* Bench Sheet**

SOP TA06_21

			mean wt = fish wt divided by 10 convert g to mg: move decimal 3 places to right					
Concentration	Replicate	Pan #	Pan wt. g	Pan + Fish g	Fish wt. g	Original # Fish	Mean wt. mg	Avg
Control	A	1	0.02547	0.03326	0.00779	10	0.779	
	B	2	0.02538	0.03049	0.00511	10	0.511	0.62
	C	3	0.02485	0.03021	0.00536	10	0.536	
	D	4	0.02439	0.03099	0.00660	10	0.660	
sample 6.25 %	A	5	0.02588	0.03240	0.00652	10	0.652	
	B	6	0.02467	0.03021	0.00554	10	0.554	0.56
	C	7	0.02494	0.02932	0.00438	10	0.438	
	D	8	0.02521	0.03118	0.00597	10	0.597	
sample 12.5 %	A	9	0.02603	0.03268	0.00665	10	0.665	
	B	10	0.02619	0.03116	0.00497	10	0.497	0.58
	C	11	0.02599	0.03109	0.00510	10	0.510	
	D	12	0.02515	0.03180	0.00665	10	0.665	
sample 25 %	A	13	0.02499	0.03259	0.00760	10	0.760	
	B	14	0.02620	0.03318	0.00698	10	0.698	0.57
	C	15	0.02448	0.02978	0.00530	10	0.530	
	D	16	0.02594	0.02890	0.00296	10	0.296	
sample 50 %	A	17	0.02567	0.02940	0.00373	10	0.373	
	B	18	0.02566	0.02960	0.00394	10	0.394	
	C	19	0.02582	0.03028	0.00446	10	0.446	0.42
	D	20	0.02524	0.03020	0.00496	10	0.496	
sample 100 %	A	21	0.02671	0.03053	0.00382	10	0.382	
	B	22	0.02506	0.02653	0.00147	10	0.147	0.24
	C	23	0.02449	0.02749	0.00300	10	0.300	
	D	24	0.02546	0.02706	0.00160	10	0.160	
sample %	A					10		
	B					10		
	C					10		
	D					10		
	Weighed by initials:		AP	CR		revised 7/16/08 mf		

Comments:

Balance: Ohaus 250D Ser# 1125481084
S-Weights: BIO-S-Weights-01

Note: Pan number (#) refers to actual Pan number.

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Chronic Bioassay Weighing Benchsheet

Quality Control

Facility: Military Point Aerated Lagoon

LIMS Sample Number: 1509883
(for Lab Sample # 1)

***P. promelas and M. beryllina* Bench sheet**
SOPs TA07_09, TA07_14 and TA06_21

Drying Oven ID:	ER-034000
Temperature °C:	100
Hours:	8

Tare weighed by: AP
Final weighed by: CR

Tare Weighing Date: 6.17.13	Final Weighing Date: 6.19.13

		Measured Value (g)		S-weight Value (g)
Tare Pan 1 after Pan 5 (g)	0.02547 @ 0.02547	S-weights	0.01000	@ 0.01
Tare Pan 1 after Pan 10 (g)	0.02546 @ 0.02547	at tare	0.03003	@ 0.03
Tare Pan 1 after Pan 15 (g)	0.02547 @ 0.02547	S-weights	0.00999	@ 0.01
Tare Pan 1 after Pan 20 (g)	0.02547 @ 0.02547	at final	0.05003	@ 0.05
Tare Pan 1 after Pan 25 (g)	0.02548 @ 0.02547			
Tare Pan 1 after Pan 30 (g)	@	Balance: Ohaus 250D Ser# 1125481084		
Tare Pan 1 after Pan 35 (g)	@	S-Weights: BIO-S-Weights-01		
Tare Pan 1 after Pan 40 (g)	@			
Tare Pan 1 after Pan 45 (g)	@			
Tare Pan 1 after Pan 48 (g)	@			
Final Pan 1 after Pan 5 (g)	0.03326 @ 0.03326			
Final Pan 1 after Pan 10 (g)	0.03326 @ 0.03326			
Final Pan 1 after Pan 15 (g)	0.03327 @ 0.03326			
Final Pan 1 after Pan 20 (g)	0.03326 @ 0.03326			
Final Pan 1 after Pan 25 (g)	0.03327 @ 0.03326			
Final Pan 1 after Pan 30 (g)	@			
Final Pan 1 after Pan 35 (g)	@			
Final Pan 1 after Pan 40 (g)	@			
Final Pan 1 after Pan 45 (g)	@			
Final Pan 1 after Pan 48 (g)	@			

Note: Pan numbers (5, 10, etc.) for Tare and Final refers to sequence of weighing as actual Pan #s may differ.

Comments:

revised 7/16/08 MF

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Appendix H

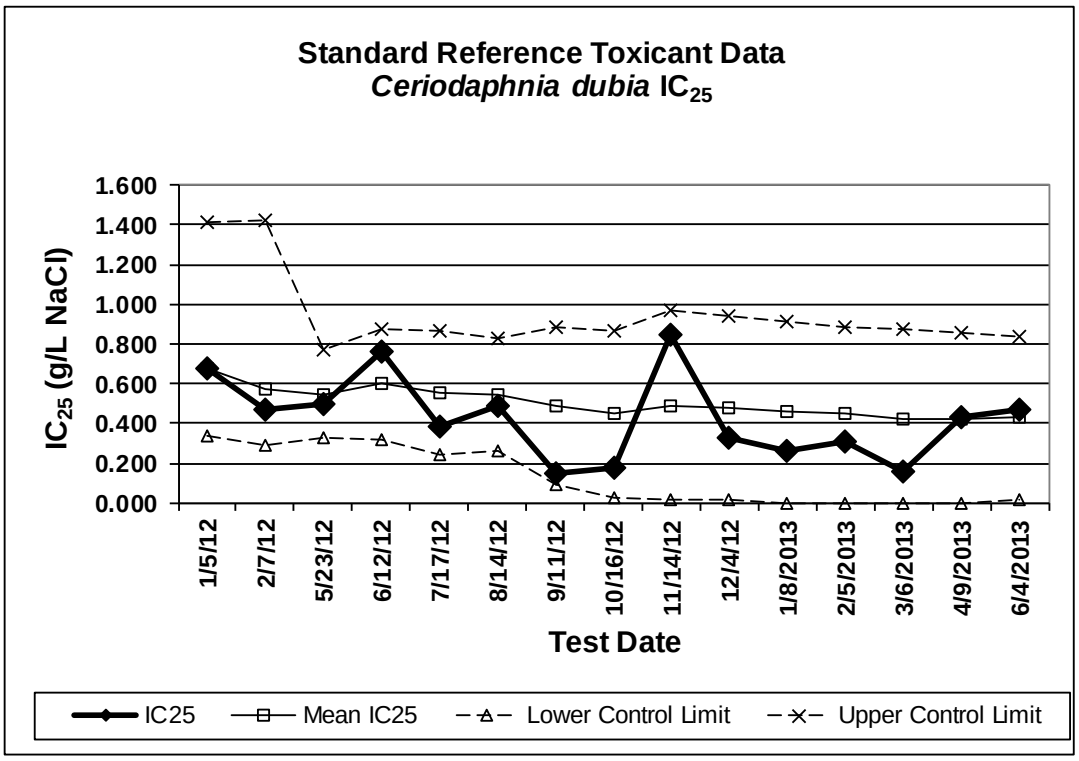
Military Point Industrial Lagoon Standard Reference Toxicant Data

Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - 7-Day Chronic Toxicity
Ceriodaphnia dubia (water flea) - Sodium Chloride (NaCl)

Date	IC25	Mean IC25	Std Dev	Lower Control Limit	Upper Control Limit
1/5/12	0.674	0.67	0.14	0.34	1.41
2/7/12	0.470	0.57	0.11	0.29	1.42
5/23/12	0.498	0.55	0.11	0.33	0.77
6/12/12	0.760	0.60	0.14	0.32	0.88
7/17/12	0.383	0.56	0.15	0.25	0.87
8/14/12	0.489	0.55	0.14	0.26	0.83
9/11/12	0.153	0.49	0.20	0.10	0.88
10/16/12	0.179	0.45	0.21	0.03	0.87
11/14/12	0.843	0.49	0.24	0.02	0.97
12/4/12	0.328	0.48	0.23	0.02	0.94
1/8/2013	0.266	0.46	0.23	0.00	0.91
2/5/2013	0.309	0.45	0.22	0.00	0.89
3/6/2013	0.163	0.42	0.23	0.00	0.88
4/9/2013	0.429	0.42	0.22	0.00	0.86
6/4/2013	0.472	0.43	0.21	0.02	0.84

Data are from the last 15 SRT tests. Test media changed from 20% DMW to SMHW 1/5/12.
Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev
EPA 75th Percentile %CV for Reproduction **45%**
Last 15 - Lab %CV Repr **49.0%**



FDEP Biology Laboratory - Chronic SRT Bench Sheet

Ceriodaphnia dubia

Diluent/ Batch: ~~20% SDMHW~~ AP MHWCD / 5-21-13 Test Days Used: 0 - 1

~~AP 20% SDMHW~~ MHWCD / 6-1-13 Test Days Used: 2 - 5

Toxicant/ Batch: NaCl / 4 g/L

SOP # : TA 07_05

EPA-821-R-02-013 Method 1002.0

Organism: *Ceriodaphnia dubia*

Organism Batch #/ Age: 6.4.13 / <24 hr.

Feeding: Prior to Test and Daily

Food: ☑ YCT ☑ ~~*P. subcapitata*~~

Food Batch: 4.3.13 4.22.13

Chamber size: 30 mL

Test Volume: 20 mL

Start Date: 6-4-13 Time: 1115

End Date: 6-10-13 Time: 1000

Batch:	5-21-13	6-1-13			
Water Quality Parameters CR	~~20% SDMHW~~ MHWCD	~~20% SDMHW~~ MHWCD	CR Other	Measured by:	Verified by:
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03		AP/CR	CR/AP
Alkalinity (mg/L as $CaCO_3$):	71	70		AP/CR	MF
Hardness (mg/L as $CaCO_3$):	89	88		AP/CR	MF
Total Ammonia (mg/L as N):	<0.017	<0.017		MF	AP
Conductivity ~~µmhos-cm~~ mmhos-cm :	321	307		AP	CR

Loaded by: MF

Results	
Control % CV:	28.6%
Dunnetts PMSD:	26.9%
Reproduction NOEC:	0.375 g/L
Reproduction LOEC:	0.75 g/L
Survival NOEC:	1.5 g/L
Survival LOEC:	3 g/L
ICP_{20}:	0.401 g/L
ICP_{25}:	0.472 g/L

Day	Concentrations prepared by	Counted by
0	MF	~~BA~~
1	MF	AP
2	MF	AP
3	MF	AP
4	MF	MF
5	MF	BA
6	—	MF
7		
8		

Test Replicate	Loaded from culture vial
1	C1
2	C6
3	C11
4	C12
5	C13
6	C21
7	C25
8	C27
9	B1
10	B6

Comments:

Investigators' signatures

Adrienne Pennington

Cassidy Reichert

Marshall Faircloth

~~Bruce Rhodes~~

Liz Miller

REVIEWER

Test Incubated in: Incubator: # 5

Light Intensity : 50 - 100 ft. candles

Photoperiod : 16 light 8 dark

Temperature Range °C:

Incubator # 5 min. 24.9 max. 26.3 mean —

Room B246 — min. 24.6 max. 25.3 mean —

Test min. ~~24.0~~ 23.8 max. 25.3 mean

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Ceriodaphnia dubia Survival and Reproduction

Start Date: 6-4-13 Time: 1115 Loaded by: MF
End Date: 6-10-13 Time: 1000 Verified by: BA

Concentration	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Live adults	Neonates per adult
Control	0												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	3	3	1	4	4	3	2	2	4	1	27	10	2.7
	4	0	0	0	0	0	0	0	0	0	0	0	10	0
	5	8	7	3	6	8	9	8	6	9	6	70	10	~~8.7~~ 7.0 BA
	6	8	12	4	8	8	14	18	9	14	13	108	10	10.8
	7													
	8													
	Total	19	22	8	18	20	26	28	17	27	20	205	10	20.5
AP 0.375 ~~0.59~~ ppth	0												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	0	2	0	3	2	3	3	4	3	1	21	10(9)	2.33
	4	6	0	0	0	0	0	0	0	0	0	6	10(9)	0.66
	5	0	6	0	7	~~8~~ BA	4	6	4	4	8	39	10(9)	4.33
	6	1	7	00	8	6	14	13	11	11	14	85	10(9)	9.44
	7													
	8													
	Total	7	15	~~0~~	18	8	21	22	19	18	23	151	10 (9)	16.78
AP 0.75 ~~0.89~~ ppth	0												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	0	1	0	0	1	3	2	2	2	1	12	10(9)	2.11
	4	0	0	0	4	0	0	0	0	0	0	4	10(9)	0.44
	5	4	3	0	1	3	6	5	7	3	0	32	10(9)	4.33
	6	4	3	00	0	4	12	8	10	13	0	54	10(9)	6.0
	7													
	8													
	Total	8	7	0	5	8	21	15	19	18	1	102	10(9)	11.33

Comments: (9) Indicates total # of females tested, final # of neonates divided by # of Females
BA 6.12.13

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FDEP Biology Laboratory - Chronic SRT Bench Sheet

Ceriodaphnia dubia Survival and Reproduction

Concentration	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total neonates	Live adults	Neonates per adult
1.5 AP ~~1.3~~ ppth	0												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	0	0	0	0	0	0	0	0	0	0	0	10	0
	4	0	0	0	0	0	0	0	0	0	0	0	10	0
	5	0	X2	0	0	0	0	5	4	0	0	11	9	1.1
	6	0	|	0	0	X0	X4	3	3	2	3	~~15~~	7	1.5
	7		|											
	8		|											
	Total	0	2	0	0	0	4	8	7	2	3	26	7	2.6
3.0 AP ~~2.0~~ ppth	0												10	
	1												10	
	2	0	0	X0	0	0	X0	0	0	X0	X0	0	6	0
	3	X0	X0	|	X0	X0 ~~X0 AP~~	|	X0	X0	|	|	0	0	
	4	|	|	|	|	|	|	|	|	|	|			
	5	|	|	|	|	|	|	|	|	|	|			
	6	|	|	|	|	|	|	|	|	|	|			
	7	|	|	|	|	|	|	|	|	|	|			
	8	|	|	|	|	|	|	|	|	|	|			
	Total	|	|	|	|	|	|	|	|	|	|	0	0	0
4.0 AP ~~3.0~~ ppth	0												10	
	1	X	X	X	X	X	X	X	X	X	X		0	
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	Total											0	0	0

Comments:

FDEP Biology Laboratory - Chronic SRT Bench Sheet

Ceriodaphnia dubia Parameters

Test Day ↓	Conc.	New Sample Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)	Old Sample Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)
Day 0	Control	M	8.0	24.4	8.1	321					
	0.375 AP 0.59 ppth	M	8.0	24.4	8.0	830					
	0.75 AP 0.89 ppth	M	8.1	24.5	7.9	1341					
	1.5 AP 1.3ppth	M	8.1	24.3	7.9	2310					
	3 AP 2.0 ppth	M	8.1	24.3	7.9	4140					
	4 AP 3.0 ppth	M	8.1	24.1	7.9	7730					
	Measured by:		AP	MF	AP	AP					
	Recorded by:		AP	AP	AP	AP					
Day 1	Control	M	7.8	24.7	8.3	306	A	7.8	24.6	8.4	365
	0.375 AP 0.59 ppth	M	7.8	24.8	8.3	1052	A	7.8	24.6	8.3	851
	0.75 AP 0.89 ppth	M	7.8	24.8	8.4	1885	A	7.9	24.6	8.3	1389
	1.5 AP 1.3ppth	M	7.9	24.8	8.3	3260	A	7.9	24.7	8.3	2440
	3 AP 2.0 ppth	M	7.9	24.9	8.4	5970	A	7.9	24.7	8.2	4480
	4 AP 3.0 ppth	M					A	7.9	24.8	8.1	8210
	Measured by:		AP	AP	AP	AP		AP	AP	AP	AP
	Recorded by:		AP	AP	AP	AP		AP	AP	AP	AP
Day 2	Control	M	7.9	25.2	8.3	307	A	7.8	23.6 AP 23.9	7.9	352
	0.375 AP 0.59 ppth	M	7.9	24.8	8.4	1066	A	7.9	23.8	8.1	1189
	0.75 AP 0.89 ppth	M	7.9	24.9	8.4	1835	A	7.9	24.0	8.2	1968
	1.5 AP 1.3ppth	M	7.9	24.8	8.3	3290	A	7.9	24.6	8.2	3430
	3 AP 2.0 ppth	M	7.9	25.0	8.4	6100	A	7.9	25.1	8.2	6210
	3.0 ppth	M									
	Measured by:		AP	AP	AP	AP		AP	AP	AP	AP
	Recorded by:		AP	AP	AP	AP		AP	AP	AP	AP
Day 3	Control	M	8.0	25.1	8.4	313	A	7.9	24.3	8.3	371
	0.375 AP 0.59 ppth	M	7.9	25.2	8.5	1090	A	7.9	24.3	8.7 AP 8.73	1135
	0.75 AP 0.89 ppth	M	7.9	25.3	8.6	1847	A	7.9	24.2	8.7	1950
	1.5 AP 1.3ppth	M	8.0	25.2	8.5	3300	A	8.0	24.4	8.7	3420
	3 AP 2.0 ppth	M		25.4 AP			A	8.0	24.6	8.8	6300
	3.0 ppth	M									
	Measured by:		AP	AP	AP	AP		AP	AP	AP	AP
	Recorded by:		AP	AP	AP	AP		AP	AP	AP	AP

Comments:

M= "Metered" vial, a surrogate vial for parameters

0004U

FDEP Biology Laboratory - Chronic SRT Bench Sheet

Ceriodaphnia dubia Parameters

Test Day	Conc.	New Sample Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)	Old Sample Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity (µmhos/cm) (mmhos/cm)	
Day 4 ←	Control	M	8.0	25.0	8.0	319	A	8.0	24.3	7.9	~~319~~	335
	~~0.59 ppth~~ 0.375 AP	M	8.0	24.9	8.1	1117	A	8.0	24.1	8.0	~~1117~~	1200
	~~0.89 ppth~~ 0.75 AP	M	8.0	24.9	8.1	1869	A	8.0	24.0	8.0	~~1869~~	2050
	~~1.3ppth~~ 1.5 AP	M	8.0	24.9	8.1	3350	A	7.9	24.4	8.0	~~3350~~	3530
	~~2.0 ppth~~ 3.0 AP	M										
	3.0 ppth	M										
	Measured by:		MF	MF	MF	MF		MF	MF	MF	MF	
	Recorded by:		MF	MF	MF	MF		MF	MF	MF	MF	
Day 5	Control	M	7.8	24.0	7.4	322	A	7.8	24.0	7.2	359	
	~~0.59 ppth~~ 0.375 AP	M	7.7	24.0	7.3	1129	A	7.8	24.0	7.3	1168	
	~~0.89 ppth~~ 0.75 AP	M	7.7	24.0	7.2	1884	A	7.8	24.0	7.4	1967	
	~~1.3ppth~~ 1.5 AP	M	7.7	24.0	7.2	3400	A	7.8	24.0	7.4	3600	
	2.0 ppth	M										
	3.0 ppth	M										
	Measured by:		BA	BA	BA	BA		BA	BA	BA	BA	
	Recorded by:		BA	BA	BA	BA		BA	BA	BA	BA	
Day 6	Control	M					A	7.6	24.7	8.3	339	
	~~0.59 ppth~~ 0.375 AP	M					A	7.7	24.8	8.3	1190	
	~~0.89 ppth~~ 0.75 AP	M					A	7.7	25.1	8.3	1911	
	~~1.3ppth~~ 1.5 AP	M					A	7.7	25.4	8.2	3420	
	2.0 ppth	M										
	3.0 ppth	M										
	Measured by:							MF	MF	MF	MF	
	Recorded by:							MF	MF	MF	MF	
Day 7	Control	M										
	0.59 ppth	M										
	0.89 ppth	M										
	1.3ppth	M										
	2.0 ppth	M										
	3.0 ppth	M										
	Measured by:											
	Recorded by:											
Day 8	Control	M										
	0.59 ppth	M										
	0.89 ppth	M										
	1.3ppth	M										
	2.0 ppth	M										
	3.0 ppth	M										
	Measured by:											
	Recorded by:											

No + Renewed MF

Replicate M= "Metered" vial, a surrogate vial for parameters

C. dubia

BIOASSAY INSTRUMENT ID Chronic SRT 6.4.13-6.10.13

METER / DEVICE	ID	SOP	Parameter	Method
YSI Model 58 Dissolved Oxygen Meter	90H018262	TA06_04	Dissolved Oxygen	SM 4500 O G ✓
YSI DO Probe	5750 SN 05J1720	TA06_04	Dissolved Oxygen	SM 4500 O G ✓
YSI DO Probe	5905	TA06_04	Dissolved Oxygen	SM 4500 O G ✓
Accumet AR-10 pH Meter	93312105	TA06_23	pH	SM 4500 H+ ✓
Mettler-Toledo SevenMulti Conductivity Meter	SN 1225117049 Probe H04257	TA06_25	Conductivity Salinity	SM 2510 B ✓ SM 2520 B
Denver Model 225 ISE with ammonia probe	SN K01377	TA06_17	Ammonia	SM 4500 NH3 F ✓
Themometer	BIOLAB #1 BIOLAB #2 BIOLAB #3 BIOLAB #4 BIOLAB #5	TA06_05	Temperature	AP ~~#4~~ NA SM-2530B modified DEP SOP-001/01 FT1400
Traceable Thermometer	EC#1-SN101686412 EC #2-SN221295527 EC#3-SN240116020 EC#4-SN80361795 EC#5-SN61990624	TA06_05	Temperature	#4 SM-2530B modified DEP SOP-001/01 FT1400
Hach Pocket Colorimeter II #1	05110C042029	TA06_22	Total Residual Chlorine	EPA 330.5 SM 4500 CL G
Hach Pocket Colorimeter II #2	05050C026378	TA06_22	Total Residual Chlorine	EPA 330.5 ✓ SM 4500 CL G
Alkalinity (Hach Kit)	No SN	TA06_08	Alkalinity	SM 2320 B ✓
Hardness (Hach Kit)	No SN	TA06_09	Hardness	SM 2340 C ✓
OHAUS Balance 250D	1125481084	TA06_21 TA06_27	Weight	-
S-Weights	BIO-S-WEIGHTS-01	NA	Balance check	-

SM-2530B modified to allow use of electronic and non-mercury filled thermometers.

Insert other device information in blank spaces(if used). Test ID = Facility or SRTs (acute SRT--Chronic SRT)

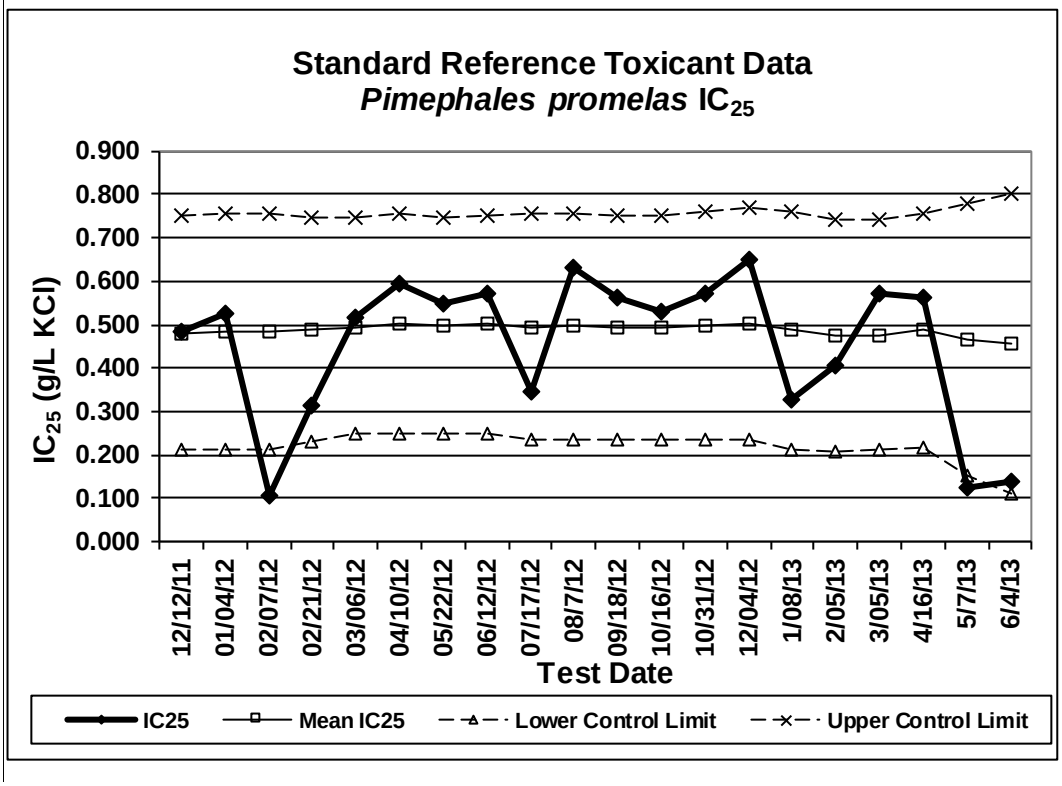
Entered By: AP 6-13-13

V 1.1 9/21/10 MF/jd

Florida Department of Environmental Protection
Bureau of Laboratories
Standard Reference Toxicant (SRT) Test Data - 7-Day Chronic Toxicity
Pimephales promelas (fathead minnow) - Potassium Chloride (KCl)

Date	IC25	Mean IC25	Std Dev	Lower Control Limit	Upper Control Limit
12/12/11	0.483	0.481	0.14	0.211	0.751
01/04/12	0.527	0.484	0.14	0.213	0.755
02/07/12	0.106	0.484	0.14	0.210	0.757
02/21/12	0.312	0.489	0.13	0.232	0.745
03/06/12	0.518	0.495	0.13	0.247	0.748
04/10/12	0.596	0.503	0.13	0.248	0.758
05/22/12	0.548	0.499	0.12	0.250	0.748
06/12/12	0.570	0.501	0.12	0.250	0.751
07/17/12	0.345	0.494	0.13	0.234	0.754
08/7/12	0.631	0.496	0.13	0.236	0.756
09/18/12	0.564	0.493	0.13	0.234	0.753
10/16/12	0.529	0.493	0.13	0.234	0.752
10/31/12	0.571	0.498	0.13	0.237	0.759
12/04/12	0.648	0.501	0.13	0.234	0.768
1/08/13	0.329	0.488	0.14	0.214	0.761
2/05/13	0.408	0.477	0.13	0.209	0.744
3/05/13	0.574	0.477	0.13	0.213	0.741
4/16/13	0.561	0.486	0.13	0.217	0.756
5/7/13	0.124	0.467	0.16	0.153	0.781
6/4/13	0.140	0.456	0.17	0.111	0.800

Means are from the last 20 SRTs.
Lower Confidence Limit = mean - 2 * Std Dev EPA 75th %CV: 38%
Upper Confidence Limit = mean + 2 * Std Dev lab % CV:37.8%



FDEP Biology Laboratory - Chronic SRT Benchsheet

Pimephales promelas or *Menidia beryllina*

Test Species (circle one)

(*P. promelas*)	SOP#: TA07_09	EPA-821-R-02-013	Method 1000.0
M. beryllina	SOP#: TA07_14	EPA-821-R-02-014	Method 1006.0

Diluent/ Batch: MHW/5-17-13 Test Days Used: 0-CR1

Diluent/ Batch: MHW/6-1-13 Test Days Used: 2-6

Toxicant/ Batch # : 2g/L KCl / 6.4.13

Artemia Lot # : 08812

Start Date: 6-4-13 Time: 1400

End Date: 6-11-13 Time: 0900

Organism Batch #/ Age: 6.4.13 / 2 days

Artemia Batch #	Day 2 104.13	Day 5 107.13
Day 0 102.13	Day 3 105.13	Day 6 108.13
Day1 103.13	Day 4 106.13	

Chamber size : 1000 ml

Test volume : 500 ml

Feeding: *P. promelas* 0.15 g wet wt. 2X day 6 hour interval

M. beryllina 0.10 g wet wt days 0-2 0.15g wet wt. days 3-7

Water Quality Parameters	MHW Diluent 5-17-13	Diluent MHW 6-1-13 (or other)	Method	Measured by	Verified by
Total Residual Cl_2 (mg/L):	<0.03	<0.03	HACH	AP	CR
Alkalinity (mg/L as $CaCO_3$):	71	64	HACH	CR	AP
Hardness (mg/L as $CaCO_3$):	90	89	HACH	CR	AP
Total Ammonia (mg/L as N):	<0.017	<0.017	DENVER	MF	CR
Conductivity (µmhos-cm) mmhos-cm:	331	296	METTLER	AP	CR

Statistics	
Growth NOEC:	<0.125 g/L
Growth LOEC:	0.125 g/L
Growth IC_{20}:	0.103 g/L
Growth IC_{25}:	0.140 g/L
Ctrl % CV:	12.6%
Dunnetts PMSD:	19.3%
Survival NOEC:	0.25 g/L
Survival LOEC:	0.5 g/L

Light Intensity : 50 - 100 ft. candles

Photoperiod : 16 light 8 dark

Test incubated in : Temperature Range °C:

Incubator # CR-2 min 24.5 max. 25.6

Water bath # ____ min.____ max.____

Room B246 min 24.6 max. 25.3

P. promelas PMSD Bounds for Growth: Lower 12 Upper 30

M. beryllina PMSD Bounds for Growth: Lower 11 Upper 28

Investigators' signatures

Adrienne Pennington

Cassidy Reichel

Marshall Faircloth

Bree Hooker

REVIEWER Liz Miller

Comments:

FDEP Biology Laboratory - Chronic SRT Benchsheet

Pimephales promelas or Menidia beryllina Survival

Organism: *P. promelas* *M.beryllina* (circle one) D = dead M = missing

Concentration: µg/L g/L (circle one)

Concentration	Replicate	Chamber	TEST DAY 0	1	2	3	4	5	6	7
Control	A	D1	10	10	10	10	10	10	10	10
	B	D2	10	10	10	10	10	10	10	10
	C	D3	10	10	10	CR 9 10	10	10	10	10
	D	D4	10	10	10	10	10	10	10	10
0.125	A	D5	10	10	10	10	10	10	10	10
	B	D6	10	10	10	10	10	10	10	10
	C	D7	10	10	10	10	10	10	10	10
	D	D8	10	10	10	9 10	9	9	9	9
0.25	A	D9	10	10	10	10	10	10	10	9 1D
	B	D10	10	10	10	10	10	10	10	10
	C	D11	10	10	10	10	10	10	10	10
	D	D12	10	10	10	10	10	10	9 1D	9
0.5	A	D13	10	10	10	10	10	10	9 1D	9
	B	D14	10	10	10	10	10	10	9 1D	9
	C	D15	10	CR 9M 10	5 5D	5	5	5	5	5
	D	D16	10	10	10	9 10 10	10	9 1D	9	9
1.0	A	D17	10	6 4D	6	6	5 1D	5	4 1D	4
	B	D18	10	2 8D	2	2	2	2	2	2
	C	D19	10	5 5D	5	5	5	5	3 3D	3
	D	D20	10	1 9D	0 1D	—	—	—	—	—
2.0	A	D21	10	0 10D						
	B	D22	10	0 10D						
	C	D23	10	0 10D						
	D	D24	10	0 10D						
	A		10							
	B		10							
	C		10							
	D		10							
Loaded by (0 hr): AP		Checked by:		CR	CR	CR	BA	AP	CR	AP
Verified by (0 hr): CR										
Concentrations prepared by:			CR	CR	CR	AP	BA	AP	AP	

Comments:

Chronic SRT Parameters Benchsheet

P. promelas and M. beryllina SOP TA07_09 and TA-07_15

parameter pg. 1

Start Date: 6-4-13 End Date: 6-11-13

Start Time: 1400 End Time: 0900

conc = concentration rep = replicate circle umhos or mmhos

Test Day		Before Renewal						After Renewal					
	Test Conc.	Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity umhos mmhos	Salinity ppth	Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity umhos mmhos	Salinity ppth
Day 0	Control	A	7.5	~~24.7~~	8.0	331							
	0.125	A	7.6	24.7	7.9	556							
	0.25	A	7.8	24.7	7.9	794							
	0.50	A	7.8	24.7	7.9	1274							
	1.0	A	7.9	24.7	7.9	2200							
	2.0	A	7.9	24.6	7.9	4110							
		A											
	Measured by		AP	AP	AP	AP							
	Recorded by		AP	CR	AP	AP							
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 1	Control	B	7.9	24.7	8.1	313		B	7.9	24.4	8.1	304	
	0.125	B	8.0	25.1	8.1	544		B	7.9	24.5	8.0	~~764~~ 565 CR	
	0.25	B	7.9	25.5	8.1	776		B	7.9	24.4	8.0	792	
	0.50	B	7.9	25.6	8.0	1227		B	7.9	24.4	8.0	1258	
	1.0	B	8.0	24.8	8.0	2174		B	8.0	24.4	8.0	2230	
	2.0	B	8.0	25.3	8.0	3990		B					
		B						B					
	Measured by		AP	AP	AP	AP			CR	CR	CR	CR	
	Recorded by		AP	CR	AP	AP			CR	AP	CR	CR	
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 2	Control	C	7.8	25.0	7.9	306		C	7.8	24.6	8.2	300	
	0.125	C	7.8	25.0	8.0	550		C	7.8	24.6	8.2	549	
	0.25	C	7.8	24.5	8.1	795		C	7.8	24.5	8.1	797	
	0.50	C	7.8	24.9	8.1	1255		C	7.8	24.5	8.1	1258	
	1.0	C	7.9	24.0	8.1	2200		C	7.9	24.6	8.3	2200	
	2.0	C						C					
		C						C					
	Measured by		CR	AP	CR	CR			CR	CR	CR	CR	
	Recorded by		CR	CR	CR	CR			CR	CR	CR	CR	
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 3	Control	D	7.7	25.1	8.2	303		D	7.8	24.6	8.2	~~293~~	
	0.125	D	7.8	24.9	8.2	558		D	7.8	24.6	8.2	537	
	0.25	D	7.8	25.2	8.1	810		D	7.9	24.5	8.1	772	
	0.50	D	7.8	24.9	8.2	1272		D	7.9	24.5	8.2	1240	
	1.0	~~A~~ D AP	7.8	25.1	8.3	2230		~~A~~ D CR	7.9	24.7	8.3	2230	
		D						D					
		D						D					
	Measured by		CR	CR	CR	CR			CR	CR	CR	CR	
	Recorded by		CR	AP	CR	CR			CR	CR	CR	CR	

Comments:

For salinity <1 ppth insert <1. For salinity > 1 ppth, conductivity measurement is not required if salinity probe is functional.

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Chronic SRT Parameters Benchsheet

P. promelas and M. beryllina SOP TA07_09 and TA-07_15 parameter pg. 2

Start Date: 6-4-13 End Date: 6-11-13

Start Time: 1400 End Time: 0900

conc = concentration rep = replicate

Test Day ↓	Conc.	Before Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity µmhos mmhos	Salinity ppth	After Renewal: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Conductivity µmhos mmhos	Salinity ppth
Day 4	Control	A	7.5	24.5	7.0	303		A	7.4	24.8	6.9	305	
	0.125	A	7.5	24.5	7.1	568		A	7.4	24.4	6.8	609	
	0.25	A	7.5	24.9	7.1	825		A	7.4	24.2	6.8	837	
	0.5	A	7.5	25.0	6.9	1316		A	7.4	24.1	6.9	1317	
	1.0	A	7.6	24.6	7.1	2280		A	7.5	24.0	6.9	2270	
		A						A					
		A						A					
	Measured by		BA	MF	BA	BA			BA	BA	BA	BA	
	Recorded by		BA	MF	BA	BA			BA	BA	BA	BA	
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 5	Control	B	7.5	25.7	6.7	314		B	7.5	25.1	7.3	323	
	0.125	B	7.5	24.8	6.9	595		B	7.5	24.9	7.5	685	
	0.25	B	7.6	24.5	7.1	814		B	7.6	24.7	7.4	958	
	0.5	B	7.6	25.1	7.0	1268		B	7.6	24.8	7.3	1480	
	1.0	B	7.7	24.9	6.8	2220		B	7.7	24.8	7.3	2450	
		B						B					
		B						B					
	Measured by		AP	AP	AP	AP			AP	AP	AP	AP	
	Recorded by		AP	AP	AP	AP			AP	AP	AP	AP	
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 6	Control	C	7.4	24.8	6.9	343		C	7.7	23.8	7.4	316	
	0.125	C	7.5	24.9	6.4	578		C	7.7	23.9	7.4	561	
	0.25	C	7.5	25.1	6.4	819		C	7.7	23.9	7.3	824	
	0.5	C	7.5	24.9	6.4	1308		C	7.7	23.9	7.3	1323	
	1.0	C	7.5	25.0	6.5	2250		C	7.8	24.1	7.4	2270	
		C						C					
		C						C					
	Measured by		CR	CR	CR	CR			CR	CR	CR	CR	
	Recorded by		CR	CR	CR	CR			CR	CR	CR	CR	
		Rep	pH	Temp	DO	Conductivity	Salinity	Rep	pH	Temp	DO	Conductivity	Salinity
Day 7	Control	D	7.7	25.6	7.1	341		D					
	0.125	D	7.7	24.6	7.1	572		D					
	0.25	D	7.7	24.5	6.8	846		D					
	0.5	D	7.7	25.2	6.9	1360		D					
	1.0	~~D~~ AP	7.7	25.4	7.0	2330		D					
		D						D					
		D						D					
	Measured by		CR	AP	CR	CR							
	Recorded by		CR	AP	CR	CR							

For salinity <1 ppth insert <1. For salinity > 1 ppth, conductivity measurement is not required if salinity probe is functional.

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FDEP Biology Laboratory - Chronic SRT Benchsheet

Pimephales promelas or *Menidia beryllina* Weights

SOP TA06_21

Organism: (*P. promelas*) *M.beryllina* (circle one)

Concentration: µg/L (g/L) (circle one)

mean wt = fish wt divided by 10

convert g to mg: move decimal 3 places to right

Concentration	Replicate	Pan #	Pan wt. (g)	Pan + Fish (g)	Fish wt. (g)	Original # of fish	Mean wt. (mg)	Avg.
Control	A	1	0.02523	0.02964	0.00441	10	0.441	
	B	2	0.02523	0.03085	0.00562	10	0.562	0.521
	C	3	0.02537	0.03032	0.00495	10	0.495	
	D	4	0.02573	0.03158	0.00585	10	0.585	
0.125	A	5	0.02597	0.03005	0.00408	10	0.408	
	B	6	0.02571	0.02949	0.00378	10	0.378	
	C	7	0.02654	0.03026	0.00372	10	0.372	0.394
	D	8	0.02381	0.02800	0.00419	10	0.419	
0.25	A	9	0.02491	0.02912	0.00421	10	0.421	
	B	10	0.02541	0.02930	0.00389	10	0.389	
	C	11	0.02562	0.02902	0.00340	10	0.340	0.364
	D	12	0.02536	0.02843	0.00307	10	0.307	
0.5	A	13	0.02621	0.02955	0.00334	10	0.334	
	B	14	0.02497	0.02817	0.00320	10	0.320	
	C	15	0.02484	0.02633	0.00149	10	0.149	0.256
	D	16	0.02539	0.02759	0.00220	10	0.220	
1.0	A	17 CR	~~0.02611~~ 0.02595	0.02713	0.00118	10	0.118	
	B	18	0.02611	0.02700	0.00089	10	0.089	
	C	19	0.02518	0.02636	0.00118	10	0.118	0.108
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
	A					10		
	B					10		
	C					10		
	D					10		
		Weighed by:	CR	CR				

Comments:

Note: Pan number (#) refers to actual Pan number.

FDEP Biology Laboratory - Chronic SRT Benchsheet

Pimephales promelas or *Menidia beryllina* QC

SOPs TA07_09, TA07_14 and TA06_21

all weights in grams

Empty Pan Weights Date: 6-10-13 Weighed by: CR

	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	0.02522	@ 0.02523
after Pan 10	0.02522	@0.02523
after Pan 15	0.02522	@0.02523
after Pan 20	0.02522	@0.02523
after Pan 25		@
after Pan 30		@
after Pan 35		@
after Pan 40		@
after Pan 45		@
after Pan 48		@

	Measured Value	S-weight Value
S-weights	0.01000	@ 0.01
	0.03003	@ 0.03

Balance: Ohaus 250D Ser# 1125481084

S-Weights: BIO-S-Weights-01

Fish + Pan Weights Date: 6-12-13 Weighed by: CR

	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	0.02966	@0.02964
after Pan 10	0.02965	@0.02964
after Pan 15	0.02965	@0.02964
after Pan 20	0.02965	@0.02964
after Pan 25		@
after Pan 30		@
after Pan 35		@
after Pan 40		@
after Pan 45		@
after Pan 48		@

	Measured Value	S-weight Value
S-weights	0.00999	@ 0.01
	0.05003	@ 0.05

Drying Oven ID: ER034000

Temperature °C: 100

Drying Hours: 8

Note: Pan number (5, 10, etc.) refers to sequence of weighing as actual Pan #s may differ.

Comments:

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revised 7/16/08 MF

Ceriodaphnia Survival and Reproduction Test-7 Day Survival

Start Date:	6/11/2013 12:20	Test ID:	mplagjn13	Sample ID:	Mil pt lagoon C. dubia June 2013
End Date:	6/17/2013 12:30	Lab ID:	DEP TOXLAB-FDEP Biology T	Sample Type:	EFF2-Industrial
Sample Date:		Protocol:	EPAF 94-EPA/600/4-91/002	Test Species:	CD-Ceriodaphnia dubia

Comments: Ceriodaphnia dubia chronic for Military Point Lagoon June 11, 2013

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
50	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean		Resp	Not Resp	Total	N	Fisher's Exact P	1-Tailed Critical
D-Control	1.0000	1.0000		0	10	10	10		
6.25	1.0000	1.0000		0	10	10	10	1.0000	0.0500
12.5	1.0000	1.0000		0	10	10	10	1.0000	0.0500
25	1.0000	1.0000		0	9	9	9	1.0000	0.0500
50	1.0000	1.0000		0	10	10	10	1.0000	0.0500
100	1.0000	1.0000		0	10	10	10	1.0000	0.0500

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Fisher's Exact Test	100	>100		1
Treatments vs D-Control				

Ceriodaphnia Survival and Reproduction Test-Reproduction

Start Date:	6/11/2013 12:20	Test ID:	mplagjn13	Sample ID:	Mil pt lagoon C. dubia June 2013
End Date:	6/17/2013 12:30	Lab ID:	DEP TOXLAB-FDEP Biology T	Sample Type:	EFF2-Industrial
Sample Date:		Protocol:	EPAF 94-EPA/600/4-91/002	Test Species:	CD-Ceriodaphnia dubia

Comments: Ceriodaphnia dubia chronic for Military Point Lagoon June 11, 2013

Conc-%	1	2	3	4	5	6	7	8	9	10
D-Control	28.000	24.000	22.000	22.000	27.000	26.000	29.000	25.000	28.000	15.000
6.25	23.000	26.000	24.000	30.000	27.000	27.000	19.000	20.000	25.000	28.000
12.5	32.000	24.000	23.000	31.000	31.000	24.000	29.000	19.000	28.000	35.000
25	28.000	22.000	29.000	28.000	24.000	19.000	26.000	28.000	25.000	
50	10.000	18.000	14.000	11.000	27.000	10.000	17.000	17.000	16.000	18.000
100	0.000	8.000	4.000	10.000	4.000	5.000	3.000	2.000	6.000	11.000

			Transform: Untransformed					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
D-Control	24.600	1.0000	24.600	15.000	29.000	16.946	10	25.700	1.0000
6.25	24.900	1.0122	24.900	19.000	30.000	13.970	10	25.700	1.0000
12.5	27.600	1.1220	27.600	19.000	35.000	17.930	10	25.700	1.0000
25	25.444	1.0343	25.444	19.000	29.000	13.051	9	25.444	0.9901
50	15.800	0.6423	15.800	10.000	27.000	32.106	10	15.800	0.6148
100	5.300	0.2154	5.300	0.000	11.000	65.993	10	5.300	0.2062

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Kolmogorov D Test indicates normal distribution (p > 0.01)	0.57833	1.035	-0.0935	0.29561
Bartlett's Test indicates equal variances (p = 0.70)	2.99113	15.0863		

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL		Skew
IC05	27.668	3.597	15.720	29.463	-2.2003
IC10	30.999	2.238	25.697	33.926	-0.9442
IC15	34.330	2.366	29.716	39.301	-0.0358
IC20	37.661	2.731	32.964	44.068	1.0001
IC25	40.992	3.154	36.372	48.835	1.2077
IC40	51.810	5.048	44.906	64.021	0.6714
IC50	64.048	5.601	50.782	73.325	-0.3472

Larval Fish Growth and Survival Test-7 Day Survival

Start Date:	6/11/2013 15:00	Test ID:	mplagpp613	Sample ID:	P. prom Mil Pt Lagoon June 2013
End Date:	6/18/2013 11:30	Lab ID:	DEP TOXLAB-FDEP Biology T	Sample Type:	EFF2-Industrial
Sample Date:		Protocol:	EPAF 94-EPA/600/4-91/002	Test Species:	PP-Pimephales promelas
Comments:	Pimephales promelas chronic bioassay for Military Point Lagoon June 11				

Conc-%	1	2	3	4
D-Control	1.0000	1.0000	1.0000	1.0000
6.25	1.0000	0.8000	0.8000	0.9000
12.5	1.0000	0.7000	0.9000	1.0000
25	1.0000	1.0000	0.9000	0.8000
50	0.7000	0.7000	0.6000	0.9000
100	0.6000	0.7000	0.6000	0.3000

			Transform: Arcsin Square Root					Rank	1-Tailed
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Sum	Critical
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4		
6.25	0.8750	0.8750	1.2188	1.1071	1.4120	11.906	4	12.00	10.00
12.5	0.9000	0.9000	1.2661	0.9912	1.4120	15.696	4	14.00	10.00
25	0.9250	0.9250	1.2951	1.1071	1.4120	11.347	4	14.00	10.00
*50	0.7250	0.7250	1.0294	0.8861	1.2490	15.020	4	10.00	10.00
*100	0.5500	0.5500	0.8357	0.5796	0.9912	21.271	4	10.00	10.00

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.96323	0.884	-0.3722	-0.3519
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	25	50	35.3553	4
Treatments vs D-Control				

Larval Fish Growth and Survival Test-7 Day Growth					
Start Date:	6/11/2013 15:00	Test ID:	mplagpp613	Sample ID:	P. prom Mil Pt Lagoon June 2013
End Date:	6/18/2013 11:30	Lab ID:	DEP TOXLAB-FDEP Biology T	Sample Type:	EFF2-Industrial
Sample Date:		Protocol:	EPAF 94-EPA/600/4-91/002	Test Species:	PP-Pimephales promelas
Comments:	Pimephales promelas chronic bioassay for Military Point Lagoon June 11				

Conc-%	1	2	3	4
D-Control	0.7790	0.5110	0.5360	0.6600
6.25	0.6520	0.5540	0.4380	0.5970
12.5	0.6650	0.4970	0.5100	0.6650
25	0.7600	0.6980	0.5300	0.2960
50	0.3730	0.3940	0.4460	0.4960
100	0.3820	0.1470	0.3000	0.1600

			Transform: Untransformed					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
D-Control	0.6215	1.0000	0.6215	0.5110	0.7790	19.883	4	0.6215	1.0000
6.25	0.5603	0.9014	0.5603	0.4380	0.6520	16.213	4	0.5723	0.9208
12.5	0.5843	0.9401	0.5843	0.4970	0.6650	15.985	4	0.5723	0.9208
25	0.5710	0.9187	0.5710	0.2960	0.7600	36.338	4	0.5710	0.9187
50	0.4273	0.6874	0.4273	0.3730	0.4960	12.910	4	0.4273	0.6874
100	0.2473	0.3978	0.2473	0.1470	0.3820	45.879	4	0.2473	0.3978

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.96633	0.884	-0.3672	0.18629
Bartlett's Test indicates equal variances (p = 0.41)	5.03606	15.0863		

Linear Interpolation (200 Resamples)					
Point	%	SD	95% CL(Exp)		Skew
IC05*	3.944	11.039	0.000	46.033	0.4316
IC10	27.026	11.898	0.000	40.856	-0.0214
IC15	32.430	12.031	0.000	46.581	-0.4466
IC20	37.835	11.970	0.000	54.601	-0.6527
IC25	43.239	11.452	0.000	65.681	-0.5785
IC40	65.097				
IC50	82.361				

* indicates IC estimate less than the lowest concentration

The Bioassay of the Military Point Regional AWT Facility effluent sampled on June 10, 2013, NPDES #FL0167959

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 FL0167959 11	12 130610	# B	# S	# 1

Remarks

#

The Priority Pollutants Analysis of the Military Point Regional AWT Facility effluent sampled on June 10, 2013 NPDES #FL0167959

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 FL0167959 11	12 130610	# X	# S	# 1

Remarks

#

Biological Analyses of the Military Point Regional AWT Facility effluent sampled on June 10, 2013, NPDES #FL0167959

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

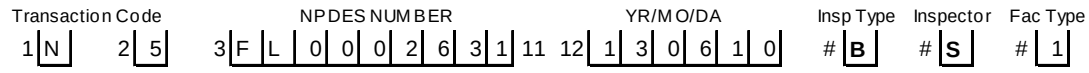
Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 FL0167959 11	12 130610	# S	# S	# 1

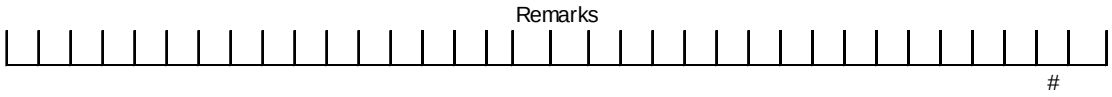
Remarks

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The Bioassay of the Military Point Industrial Lagoon effluent sampled on June 10, 2013, NPDES #FL0002631

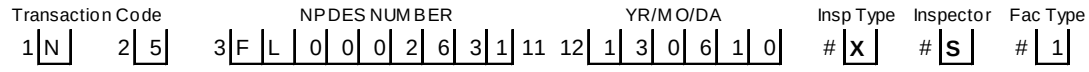
Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

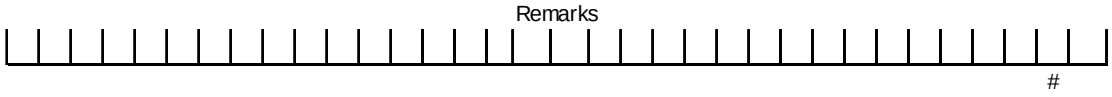




The Priority Pollutants Analysis of the Military Point Industrial Lagoon effluent sampled on June 10 and 12, 2013 NPDES #FL0002631

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)





Biological Analyses of the Military Point Industrial Lagoon effluent sampled on June 10 and 12, 2013, NPDES #FL0002631

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

