

Biological Assessment of

City of Bradenton WWTP

Manatee County

NPDES #FL0021369

February 20, 2007

February 2008

Biology Section

Bureau of Laboratories

Division of Environmental Assessment and Restoration

Quality Manual No. 870346G

NELAC Certification No. E31780

Florida Department of Environmental Protection

Fifth Year Inspection Summary

Discharger:	City of Bradenton Water Reclamation Facility
Physical Address:	1810 First Street West, Bradenton, FL 34206
County:	Manatee
NPDES Number:	FL0021369
Permit Expiration:	April 17, 2008

Toxics Sampling Inspection **(XSI)**

Date Sampled: February 20, 2007

Results: The organic priority pollutants bromodichloromethane, chloroform, and dibromochloromethane were detected in the effluent at levels that complied with Class III Marine Water Quality Criteria (62-302.530 F.A.C.). Effluent metals complied with Class III Marine Water Quality Criteria (62-302.530, FAC) and facility permit limits.

Compliance Biomonitoring Inspection **(CBI)**

Date Sampled: February 20, 2007

Results: The effluent sample was not toxic to the water flea, *Ceriodaphnia dubia*, but was toxic to the fish, *Pimephales promelas*, during the 7-day chronic bioassays, a violation of Class III Surface Water Quality Criteria (62-302.530 (62) F.A.C.).

Water Quality Inspection **(WQI)**

Date Sampled: February 20, 2007

Results: Fecal coliforms counts in the effluent sample and in samples collected from the Manatee River complied with Class III Marine Water Quality Criteria (62.302.530 F.A.C.) and permit limits. The effluent total nitrogen concentration was 2.57 mg/L. Effluent total phosphorus, ortho-phosphate and ammonia appeared to contribute to elevated levels at MR1 and MR2, the sites nearest to the Bradenton WWTP outfall. Nutrient levels at MR1 and MR2 were higher than levels in 80-95% of other typical estuaries in Florida compared to levels at Stations MR 3-5 that ranked between the 5^{th}-70^{th} percentiles.

Impact Bioassessment Inspection **(IBI)**

Date Sampled: February 20, 2007

Results: Sediment copper (55 mg/kg), lead (34 mg/kg) and silver (0.8 mg/kg) were detected above their respective Threshold Effect Levels (TEL). All other metals, while not exceeding the TEL or Probable Effect Level, were roughly an order of magnitude higher at the station nearest to the Bradenton WWTP outfall than at the other stations. A number of PAHs were detected in sediments at sites near the Bradenton outfall between the method detection limit and the practical quantitation limit. None of the compounds exceeded the TEL.

There were no obvious differences in the benthic macroinvertebrate communities among the stations in the Manatee River. All sites were similar in terms of taxa richness, diversity, and community composition.

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.

Introduction

The City of Bradenton Wastewater Treatment Plant (WWTP) is located in Manatee County, Florida (Appendix 1). The facility is a Type I extended-aeration activated-sludge, advanced wastewater treatment facility consisting of: headworks with bar screens, a grit removal system, a bio-filter odor control system, two (2) carousel-type aeration basins, three (3) clarifiers, two (2) below-grade filter lift stations, six (6) single media gravity denitrification filters with air scour and water backwash, one (1) dual compartment chlorine contact chamber, one (1) reclaimed storage basin and a dechlorination chamber and post-aeration basin. The solids handling stream consists of one (1) dissolved air flotation residuals unit, three (3) aerobic digesters, and two (2) mechanical belt filter presses.

The outfall (D001) discharges to Robinson's ditch and flows through a storm sewer to the Class III Marine Waters of the Manatee River. The design flow of the wastewater system is 6 million gallons per day (MGD) as an annual average. The flow during this survey was 3.87 MGD (Lori Pillsbury, Pers. Comm.) and the annual average for the year prior to this study was 4.8 MGD (Appendix 6).

In 1993, a biological assessment was conducted at Bradenton WWTP and Tropicana Products, Inc. (FDEP 1993). The Tropicana outfall is east of the Bradenton WWTP outfall, and because of their proximity to one another, both facilities were sampled in order to determine their relative influence on the receiving waters. That study showed moderate and severe degradation in the benthic community near the Bradenton and Tropicana outfalls, respectively. Tropicana has since gone to deep well injection and has not discharged to the Manatee River since 2003 (Appendix 2).

Class III Marine Surface Water Quality Criteria and facility permit limits are listed in Table 1. According to the facility's discharge monitoring reports, the plant has had one routine toxicity failure in July 2006; additional follow-up toxicity tests did not show toxicity (Appendix 2).

Methods

The purpose of this investigation was to determine the discharger's effects on the biota of the receiving waters. There were five sampling stations located in the Manatee River: MR1 and MR2 were based in close proximity to the City of Bradenton WWTP outfall, MR3 and MR4 were approximately 250-300 meters east of the outfall and MR5 was approximately 350 meters east and served as the Control Site (Appendix 1). Details of measurements and data interpretation are given in Appendix 3.

All field and laboratory biological methods followed Biology Section Standard Operating Procedures (SOPs, see http://www.floridadep.org/labs/qa/2002sops.htm for details) and met DEP quality assurance/quality control standards (see http://www.floridadep.org/labs/qa/index.htm).

The following were involved in this investigation: Lori Pillsbury, Peter Wenner, Chris Anastasiou, Gitta Schmitt and Peggy Morgan (DEP Southwest District), and DEP Central Laboratory staff in Tallahassee. The report was reviewed by District representatives and the Point Source Studies Review Committee (Wayne Magley and Michael Tanski).

Results and Discussion

- Specific chemical results from the effluent sample are reported in Table 1 and a complete list of chemical analytes can be reviewed in Appendix 4. Effluent metals complied with Class III Marine Water Quality Criteria (62-302.530 F.A.C.) and facility permit limits. The organic priority pollutants bromodichloromethane (1.6 µg/L), chloroform (5.8 µg/L), and dibromochloromethane (0.25 µg/L I) were detected in the effluent at levels below Class III Marine Water Quality Criteria (62-302.530 F.A.C.).
- Dissolved oxygen (mg/L), and pH (Standard Units) did not exceed Class III Marine Water Quality Criteria (62-302.530 F.A.C.) or facility permit limits.
- The freshwater effluent sample was toxic to the freshwater test fish, *Pimephales promelas*, but not to the freshwater waterflea, *Ceriodaphnia dubia*, during 7-day chronic screening bioassays (See Table 1 for percent mortality and Appendix 6 for bioassay bench sheets). This constitutes an exceedance of 62-302.530 (62) F.A.C. and the facility's permit limit of a No Observed Effect Concentration (NOEC) less than 100%. Although no individual contaminants were detected in the effluent at toxic levels, it is possible that the combined affect of the effluent constituents produced the observed toxicity in the *Pimephales promelas* test.
- For stations in the Manatee River, the sample collection began at the Control Site (MR5) during a low tide and concluded with station MR1 during an incoming tide. Dissolved oxygen (mg/L) and pH (Standard Units) at the Test and Control Sites complied with Class III Marine Water Quality Criteria (Table 1; 62-302.530 F.A.C.) and were within normal ranges.
- Fecal coliforms were not detected in the effluent, and were detected at some receiving water sites at levels that did not exceed Class III Water Quality Criteria (See Table 1 for results and Appendix 6 for laboratory worksheets).
- The effluent total nitrogen concentration was 2.57 mg/L (Table 1). Effluent total phosphorus (0.46 mg/L), ortho-phosphate (0.38 mg/L), and ammonia (2 mg/L) appeared to

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

City of Bradenton WWTP	Class III Stds	Effluent Limits	Outfall D001	Outfall D001 Composite	Site 1 (MR1)	Site 2 (MR2)	Site 3 (MR3)	Site 4 (MR4)	Site 5 (MR5)
Organic Constituents (µg/L)									
Bromodichloromethane	-	≤ 22 a	1.6	-	-	-	-	-	-
Chloroform	-	-	5.8	-	-	-	-	-	-
Dibromochloromethane	-	≤ 34 a	0.25 I	-	-	-	-	-	-
Metals (µg/L unless otherwise noted)									
Aluminum	≤ 1500	-	4 U	-	56	153	44 I	51	122
Arsenic	≤ 50	-	0.5 U	-	1.5 U	1.5 U	1.7 I	1.5 I	1.5 U
Cadmium	≤ 9.3	≤ 9.3 ps	0.05 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Calcium (mg/L)	-	-	83.2	-	107	176	322 A	314	308
Chromium-III	-	-	0.3 U	-	0.86 U	2.6 U	6.2 U	2.6 U	2.2 U
Copper	≤ 3.7	≤ 2.9 ps	0.21 I	0.88 I	1.7 I	1.7 I	2.4 A	2.2 I	2.9
Iron	≤ 300	≤ 300 ps	197	72	176	216	30 I	32 I	90
Lead	≤ 8.5	-	0.2 U	-	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
Magnesium (mg/L)	-	-	19.7	-	132	410	943 A	962	951
Nickel	≤ 8.3	≤ 8.3 ps	4.8	4.3	3.6 I	2 U	6.6 U	4 U	5.2 U
Selenium	≤ 71	-	0.5 U	-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Silver	≤ 2.3	-	0.025 U	-	0.075 U	0.075 U	0.075 U	0.075 U	0.075 U
Zinc	≤ 86	≤ 86 ps	32	32	29	25	17 I	12 I	12 I
Nutrients (mg/L)									
Ortho-phosphate	-	-	0.38	-	0.29	0.22	0.092	0.099	0.093
Total Phosphorus	-	≤ 2 ps	0.46	0.23	0.38	0.3	0.12	0.12 A	0.12
Total Ammonia	-	-	2	0.82	0.71	0.56	0.019 I	0.019 I	0.021
Un-ionized Ammonia	-	-	0.02 c	-	0.01 c	0.01 c	≤ 0.02 c	≤ 0.02 c	≤ 0.02 c
Nitrate and Nitrite	-	-	0.072	0.34	0.26	0.13	0.014	0.013	0.02
Total Kjeldahl Nitrogen	-	-	2.5	2.3	1.6	1.3	0.57	0.52 A	0.56
Organic Nitrogen	-	-	0.5 c	1.48 c	0.89 c	0.74 c	0.551 c	0.501 c	0.539 c
Total Nitrogen	-	≤ 6 ps	2.572 c	2.64 c	1.86 c	1.43 c	0.584 c	0.533 c	0.58 c
Dissolved Organic Carbon (mg C/L)	-	-	9.7	9.7 A	-	-	-	-	-
Total Organic Carbon (mg C/L)	-	-	10 A	9.8	-	-	-	-	-
General Physical and Chemical Parameters									
Dissolved Oxygen (mg/L) (2/19/07) (low, slack tide)	≥ 4.0 s	≥ 5.0 s	9.2	4.0	9.7	10.8	10.5	9.8	9.8
Dissolved Oxygen (mg/L) (2/19/07) (incoming tide)	≥ 4.0 s	-	-	-	9.6	9.7	10.1	10.2	9.8
Dissolved Oxygen (mg/L) (2/21/07)	≥ 4.0 s	-	8.8	-	-	-	-	-	-
Dissolved Oxygen (mg/L) (2/23/07)	≥ 4.0 s	-	9.3	-	-	-	-	-	-
pH (SU) (2/19/07) (low, slack tide)	6.5 - 8.5 s	6.5 - 8.5 s	7.3	6.5-8.5	7.5	7.6	7.8	7.8	7.6
pH (SU) (2/19/07) (incoming tide)	6.5 - 8.5 s	-	-	-	7.7	7.7	7.7	7.7	7.8
pH (SU) (2/21/07)	6.5 - 8.5 s	-	7.4	-	-	-	-	-	-
pH (SU) (2/23/07)	6.5 - 8.5 s	-	7.0	-	-	-	-	-	-
Conductivity (µmhos/cm) (2/19/07) (low, slack tide)	-	-	1156	-	8561	30758	39068	39010	39115
Conductivity (µmhos/cm) (2/19/07) (incoming tide)	-	-	-	-	37262	39073	39280	39138	39110
Conductivity (µmhos/cm) (2/21/07)	-	-	1153	-	-	-	-	-	-
Conductivity (µmhos/cm) (2/23/07)	-	-	1186	-	-	-	-	-	-
Temperature (°C) (2/19/07) (low, slack tide)	-	-	20.8	-	20.5	17.3	15.0	15.0	14.9
Temperature (°C) (2/19/07) (incoming tide)	-	-	-	-	16.8	15.4	16.0	15.9	15.5
Temperature °C (2/21/07)	-	-	23.1	-	-	-	-	-	-
Temperature °C (2/23/07)	-	-	22.8	-	-	-	-	-	-
Salinity (ppt) (2/19/07) (low, slack tide)	-	-	0.58	-	4.6	19.1	24.9	24.9	25.0
Salinity (ppt) (2/19/07) (incoming tide)	-	-	-	-	24.8	25.0	25.1	25.0	24.9
Sample Depth (top)	-	-	-	-	0.2	0.2	0.2	0.2	0.2
Sample Depth (bottom)	-	-	-	-	1	0.35	0.4	0.49	0.39

Table 1. (continued)

City of Bradenton WWTP	Class III Stds	Effluent Limits	Outfall D001	Outfall D001 Composite	Site 1 (MR1)	Site 2 (MR2)	Site 3 (MR3)	Site 4 (MR4)	Site 5 (MR5)
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01 s	≤ 0.02	-	-	-	-	-	-
Chlorophyll a (µg/L)	-	-	0.85 U	-	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
Phaeophytin (µg/L)	-	-	1.5 U	-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Total Suspended Solids (mg/L)	-	≤ 10 ps	4 U	4 U	4 U	7 I	9 I	12 I	25
Turbidity (NTU)	< 29 t	-	0.75	-	-	-	-	-	-
Color (pt-Co)	-	-	30 A	-	-	-	-	-	-
CBOD, 5 day (mg/L), N - inhibited	-	≤ 10 ps	0.66 AI	1.2 I	-	-	-	-	-
Oils and Greases (mg/L)	≤ 5	-	2.4 I	-	-	-	-	-	-
Percent Solid (%)	-	-	-		35.8	74.0	73.2	72.6	73.3
Flow (MGD)	-	≤ 6.0 a	3.87	-	-	-	-	-	-
Hardness (mg $CaCO_3$)	-	-	288.88 c	- c	810.76 c	2127.85 c	4687.31 c	4745.57 c	4685.29 c
Toxicity (7-day chronic screening bioassay, NOEC)									
Bioassay - Water flea *(Ceriodaphnia dubia)*	-	NOEC	100	-	-	-	-	-	-
Bioassay - Fish *(Pimephales promelas)*	-	NOEC	100 K	-	-	-	-	-	-
Microbiology (Number of counts/100ml)									
Fecal Coliforms	800 s	≤ 25 s	< 1 dBU	-	15 dBI	19 dBI	< 1 dBU	10 dBI	< 1 dBU

Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average
c - Value is calculated
d - Data provided by District Lab.
p - 24-hr flow proportioned composite
s - Single sample
t - Shall not exceed 29 NTUs above background
A - Value reported is the mean of two or more determinations
B - Result 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
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
NOEC - A no observed effect concentration less than 100% effluent will constitute a violation of this permit

contribute to elevated levels of these substances at MR1 and MR2 compared to the stations MR3-5 (Table 1). Levels of these nutrients at MR1 and MR2 were higher than levels detected in 80-95% of other typical estuaries in Florida while concentrations at Stations MR 3-5 were nearly identical to one another and ranked between the 5th-70th percentiles (Appendix 5).

- Algal growth potential (AGP) is a measure of nutrients available for algal growth (Miller *et al*. 1978). Raschke and Shultz (1987) found that AGP above 10.0 mg dry wt/L represent a "problem" threshold for marine receiving waters, implying nutrient enrichment (Table 2b). AGP of the marine species appeared to be correlated with the nutrient levels; stations MR 3-5 did not exceed the problem threshold (non-detect - 3 mg dry wt/L), while samples collected from the effluent (46.1 mg dry wt/L), MR1 (37.7 mg dry wt/L), and MR2 (31.1 mg dry wt/L) were above the threshold. AGP of the freshwater species for the effluent sample (77.5 mg dry wt/L) also exceeded the "problem" threshold for fresh receiving waters (5.0 mg dry wt/L). These results indicate nutrient enrichment related to the Bradenton WWTP discharge in this portion of the Manatee River. There was no evidence of growth inhibition in AGP data from the effluent sample (Table 2a).
- Chlorophyll *a* was not detected in the effluent or in any of the receiving water stations (Table 1).
- Sediments were mostly sand with small amounts of organic material (< 2%) except for MR1, which was located immediately in front of the Bradenton WWTP outfall and had a higher percentage of organic matter (17%; Figures 1, 2 and Table 3).
- The levels of organic contaminants and metals in the sediments were compared to Sediment Quality Guidelines for Florida coastal waters (MacDonald 1994). Nine Polycyclic Aromatic Hydrocarbons (PAHs) were detected at MR1 and MR2 at levels between the method detection limit and the practical quantitation limit (Table 3). In addition, copper (55 mg/kg), lead (34 mg/kg) and silver (0.8 mg/kg) were detected above the TEL at MR1 for each of those compounds. All other metals, while not exceeding the TEL or PEL, were roughly an order of magnitude higher at MR1 than at the remaining stations (Table 3).
- The elevated levels of sediment contaminants do not currently appear to be negatively impacting the benthic macroinvertebrate community at station MR1. Results from replicate ponar samples showed similar results in the number of taxa, diversity and community structure among the sampling stations in the Manatee River with the exception of

the dominant taxon. Station MR1 was dominated by an amphipod while all other stations were dominated by polychetes (Table 4, Appendices 8a & 8b). In the 1993 bioassessment conducted on the Bradenton and Tropicana outfalls, the macroinvertebrate communities were degraded compared to the Control Site (FDEP 1993). The Test Site near the Tropicana outfall was particularly impaired, with a diversity value 51% lower at this site compared to the Control. In the current study, diversity, taxa richness, and community structure did not appear to be markedly different among the sites (Table 4).

Summary

Toxicity was observed in the fish, *Pimephales promelas,* during the 7-day chronic screening bioassay, and constitutes an exceedance of 62-302.530 (62) F.A.C., and the facility's permit limit. Several organic priority pollutants (bromodichloromethane, dibromochloromethane, and chloroform) were detected in the effluent sample that may have contributed to the observed toxicity.

The effluent appeared to contribute to elevated levels of nutrients at stations closest to the Bradenton WWTP outfall (MR1 and MR2). The AGP values in the effluent and at stations MR1 and MR2 appeared to be correlated to the increased nutrients; all were above the 10 mg dry wt/L problem threshold.

Although there were no obvious differences in the benthic macroinvertebrate communities among the stations in the Manatee River, the Bradenton WWTP discharge appears to be responsible for increased levels of organic and metal contaminants in the sediments near the outfall. These results are a cause for concern and suggest additional monitoring may be warranted to reduce the levels of these potentially harmful constituents.

Literature Cited

American Public Health Association (APHA). 1992. Standard methods for the examination of water and wastewater. 18th edition.

Barbour, M. T., J. Gerritsen, G. E. Griffith, R. Frydenborg, E. McCarron, J. S. White and M. L. Bastian. 1996a. A framework for biological criteria for Florida streams using benthic macroinvertebrates. J. N. Am. Benthol. Soc. 15(2): 185-211.

Barbour, M. T., J. Gerritsen, and J. S. White. 1996b. Development of the Stream Condition Index for Florida. Prepared for the Florida Department of Environmental Protection. 105 p.

Barbour, M. T. and J. B. Stribling. 1994. A technique for assessing stream habitat structure. In: Proceedings of Riparian Ecosystems in the Humid United States: Functions and Values. U. S. Dept. Agriculture. 15-18 March 1993, Atlanta, Ga. 22 pp.

Beck, W. M. Jr. 1954. Studies in stream pollution biology 1. A simplified ecological classification of organisms. Quart. J. Fla. Acad. Sci. 17(4): 211-227.

EA Engineering, Science, and Technology and Tetra Tech, Inc. 1994. Bioassessment for the nonpoint source program (draft). Prepared for the Florida Department of Environmental Protection. Unpaginated.

FDEP. 1994. Lake bioassessments for the determination of nonpoint source impairment in Florida. Florida Department of Environmental Protection, Biology Section, Tallahassee, Fla. 73 p.

MacDonald, D. D. 1994. Approach to the assessment of sediment quality in Florida coastal waters. Volume 1. Development and evaluation of

Table 2a. Measured and predicted algal growth potential (AGP; mg dry weight/L) of the freshwater species *Pseudokirchneriella subcapitata* for total soluble inorganic nitrogen (TSIN) and total nitrogen (TN) limitation and ratios of nitrogen to phosphorus.

City of Bradenton WWTP					
Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (TN) ± 20%	Inorganic N:P ratio	Total N:P ratio
Outfall D001	77.5	78.7 ± 15.7	97.7 ± 19.5	5.5	5.6

Table 2b. Measured algal growth potential (AGP; mg dry weight/L) of the saltwater species *Dunaliella tertiolecta* and ratios of nitrogen to phosphorus.

City of Bradenton WWTP			
Location	AGP (measured)	Inorganic N:P ratio	Total N:P ratio
Outfall D001	46.1 *	5.5	5.6
Site 1/MR1	37.7	3.3	4.9
Site 2/MR2	31.1	3.1	4.8
Site 3/MR3	3.0 U	0.4	4.9
Site 4/MR4	3.0 U	0.3	4.4
Site 5/MR5	3.2 A	0.4	4.8

* - Salinity adjusted to 7ppt.

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

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

Table 3. Sediment Data

City of Bradenton WWTP	Sediment Quality Assessment Guidelines		Site 1/MR1	Site 2/MR2	Site 3/MR3	Site 4/MR4	Site 5/MR5
	TEL	PEL					
Particle Size Distribution (percent volume < 2mm)							
< 0.063 mm	-	-	69.7	5.17	6.13	13.2	12.3
0.063 - 0.125 mm	-	-	11	5.92	8.09	8.17	8.31
0.125 - 0.25 mm	-	-	10.3	51.2	63.8	53.8	58.9
0.25 - 0.5 mm	-	-	5.7	29.1	20.4	22	19
0.5 - 2.0 mm	-	-	3.3	8.61	1.54	2.85	1.49
> 2.0 mm (percent dry weight)	-	-	1 K	1 K	1 K	4.9	1 K
Organic Content							
Organic Content (percent dry weight)	-	-	17	1.3	1 K	1.6	1.5
Organic Constituents (ug/kg)							
Benzo(a)anthracene	74.8	693	610 I	250 I	82 U	83 U	82 U
Benzo(a)pyrene	88.8	763	910 I	310 I	82 U	83 U	82 U
Benzo(b)fluoranthene	-	-	1600 I	580	82 U	120 I	82 U
Benzo(g,h,i)perylene	-	-	840 U	150 I	82 U	83 U	82 U
Benzo(k)fluoranthene	-	-	840 U	190 I	82 U	83 U	82 U
Bis(2-ethylhexyl)phthalate	182	2647	1300 I	490 U	490 U	500 U	490 U
Butyl benzyl phthalate	-	-	170 U	320	82 U	83 U	82 U
Chrysene	108	846	880	330	82 U	83 U	82 U
Fluoranthene	113	1494	1300	630	82 U	83 U	82 U
Indeno(1,2,3-cd)pyrene	-	-	840 U	150 I	82 U	83 U	82 U
Phenanthrene	86.7	544	440 I	280 I	82 U	83 U	82 U
Pyrene	153	1398	1700	710	82 U	94 I	82 U
Metals (mg/kg)							
Aluminum	-	-	14300 A	1100	1050	2010	1140
Arsenic	7.24	41.6	4.28 A	0.69 I	0.4 I	0.65 I	0.45 I
Cadmium	0.676	4.21	0.56 A	0.14 U	0.13 U	0.15 U	0.15 U
Calcium	-	-	26600 A	4250	1700	3030	1840
Chromium III	52.3	160	35.5 A	3.2	2.7	5.4	2.9
Copper	18.7	108	55 A*	4.6	3.9	8.5	4
Iron	-	-	13000 A	1010	836	1680	921
Lead	30.2	112	34 A*	3.4 I	1.7 I	3.5 I	1.9 I
Magnesium	-	-	10500 A	941	943	1660	932
Manganese	-	-	-	-	-	-	-
Nickel	15.9	42.8	8.19 A	0.79	0.67	1.29	0.73
Selenium	-	-	1.17 A	0.14 I	0.13 U	0.24 I	0.15 U
Silver	0.733	1.77	0.8 A*	0.082	0.028 I	0.066	0.028 I
Zinc	124	271	117 A	13.7	6.5	13.2	6.7

Sediment Quality Assessment Guidlines (MacDonald et al. 1984): TEL = Threshold Effects Level; PEL = Probable Effects Level
* Exceeds the threshold effects level from Sediment Quality Assessment Guidlines (MacDonald et al. 1984)
** Exceeds the probable effects level from Sediment Quality Assessment Guidlines (MacDonald et al. 1984)
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
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

sediment quality assessment guidelines. Report to Florida Department of Environmental Protection, Office of Water Policy. 126 pp.

Magurran, A. E. 1988. Ecological diversity and its measurement. Princeton University Press, Princeton, New Jersey.

Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.

Plafkin, J. L., M. T. Barbour, K. D. Porter, S. K. Gross and R. M. Hughes. 1989. Rapid bioassessment protocols for use in streams and rivers: Benthic macroinvertebrates and fish. U. S. EPA, Office of Water Regulations and Standards, Washington D.C., EPA 440-4-89-001.

Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Ross, L. T. 1990. Methods for aquatic biology. Florida Department of Environmental Regulation Technical Series 10(1): 1-47.

Sokal, R. R. and F. J. Rohlf. 1995. Biometry, Third edition. W. H. Freeman and Company, New York.

Stevenson, R. J. and L. L. Bahls. 1999. Periphyton protocols. Pp. 6.1-6.22

Table 4. Macroinvertebrate Petite Ponar Samples - Quantitative.

City of Bradenton WWTP	Site 1 (MR1)	Site 2 (MR2)	Site 3 (MR3)	Site 4 (MR4)	Site 5 (MR5)
Summary Statistics					
Shannon-Weaver Diversity	3.26	3.89	3.09	3.48	3.07
Number of Taxa	53	34	43	56	45
Percent Dominant Taxon	35.8	14.9	47.2	36.8	48.8
Dominant Taxon (name)	*Grandidierella bonnieroides* (Amphipoda)	*Mediomastus ambiseta* (Polychaeta)	*Mediomastus ambiseta* (Polychaeta)	*Mediomastus ambiseta* (Polychaeta)	*Mediomastus ambiseta* (Polychaeta)
Number of samples/site	5	5	5	5	5
Total Number of Individuals (counted)	2,683	890	1,857	2,294	2,151
Community Composition: Percent of total					
Amphipoda	39.9	21.8	15.8	18.9	14.8
Cumacea	2.5	8.5	10.8	19.7	11.9
Decapoda	0.0	0.0	0.1	0.0	0.0
Diptera	0.0	0.0	0.0	0.0	0.0
Gastropoda	0.9	1.9	1.9	4.8	2.6
Isopoda	3.3	3.0	1.8	1.4	0.8
Nemertea	2.3	10.4	3.6	2.7	3.0
Oligochaeta	0.0	0.2	0.0	0.0	0.1
Pelecypoda	7.7	19.4	14.2	8.7	13.5
Polychaeta	41.5	27.5	51.7	43.1	53.1
Tanaidacea	1.6	6.7	0.1	0.6	0.3
Other	0.1	0.3	0.0	0.2	0.0
Functional Feeding Groups: Percent of total					
Browser-Grazers	21.6	11.5	7.1	9.4	6.3
Burrowing Deposit Feeders	31.0	27.0	50.8	41.4	52.2
Piercers	0.8	0.0	0.0	0.0	0.0
Predators	2.7	11.1	4.0	3.7	3.5
Scavengers	20.7	11.5	7.1	9.3	6.3
Scrapers	0.9	1.8	1.8	3.3	2.4
Shredders	1.4	0.0	0.0	0.0	0.0
Surface Deposit Feeders	4.9	3.1	0.5	2.0	0.4
Suspension Feeders	16.0	31.7	25.5	29.9	26.4
Unknown	0.0	2.3	3.2	1.0	2.4

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

Wallace, J. B., J. W. Grubaugh and M. R. Whiles. 1996. Biotic indices and stream ecosystem processes: results from an experimental study. Ecol. Appl. 6(1): 140-151.

Weber, C. I. 1993. Methods for measuring the acute toxicity of effluents to freshwater and marine organisms. 4th edition. EPA/600/4-90/027. U. S. EPA, Cincinnati, Ohio. 216 pp.

USEPA. 2002. Short-term methods for estimating the chronic toxicity of effluents and receiving waters to freshwater organisms. 4th Edition. EPA-821-R-02-013

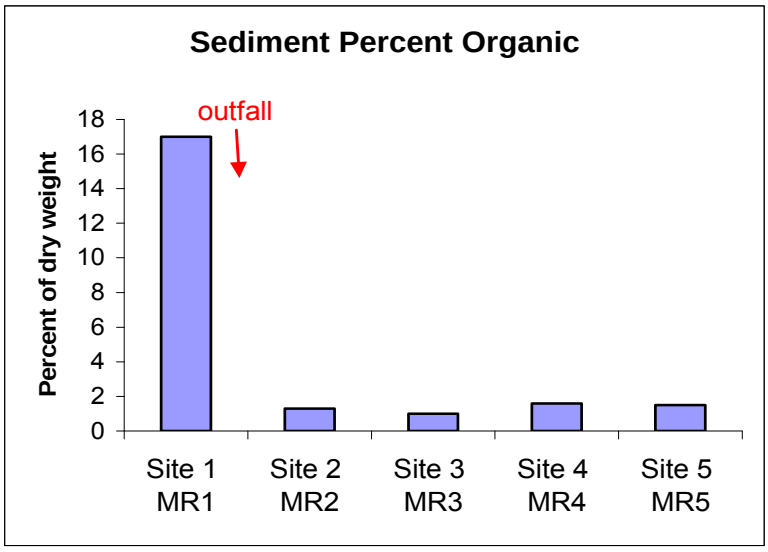


Figure 1. Sediment Percent Organic for the five sampling stations at City of Bradenton WWTP.

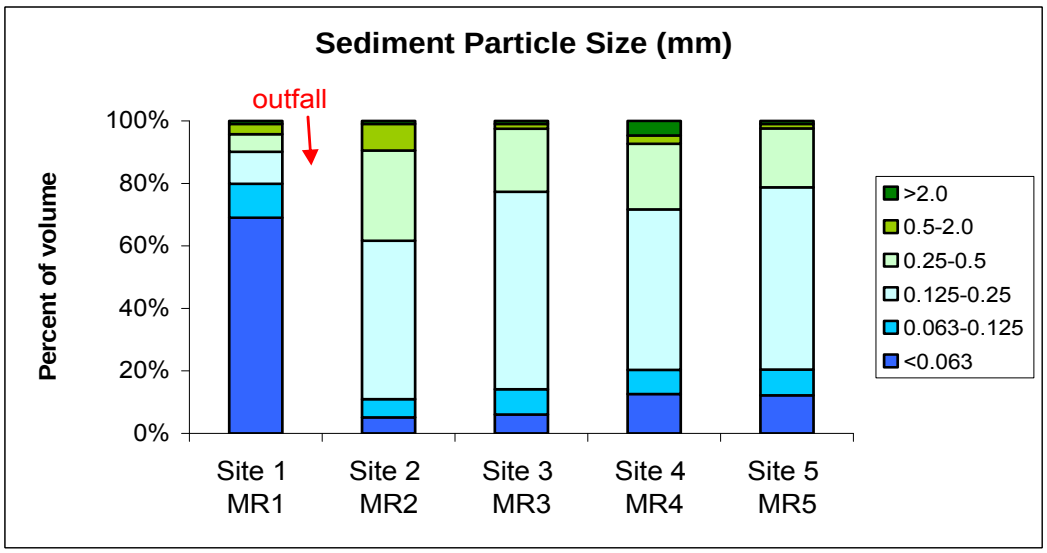


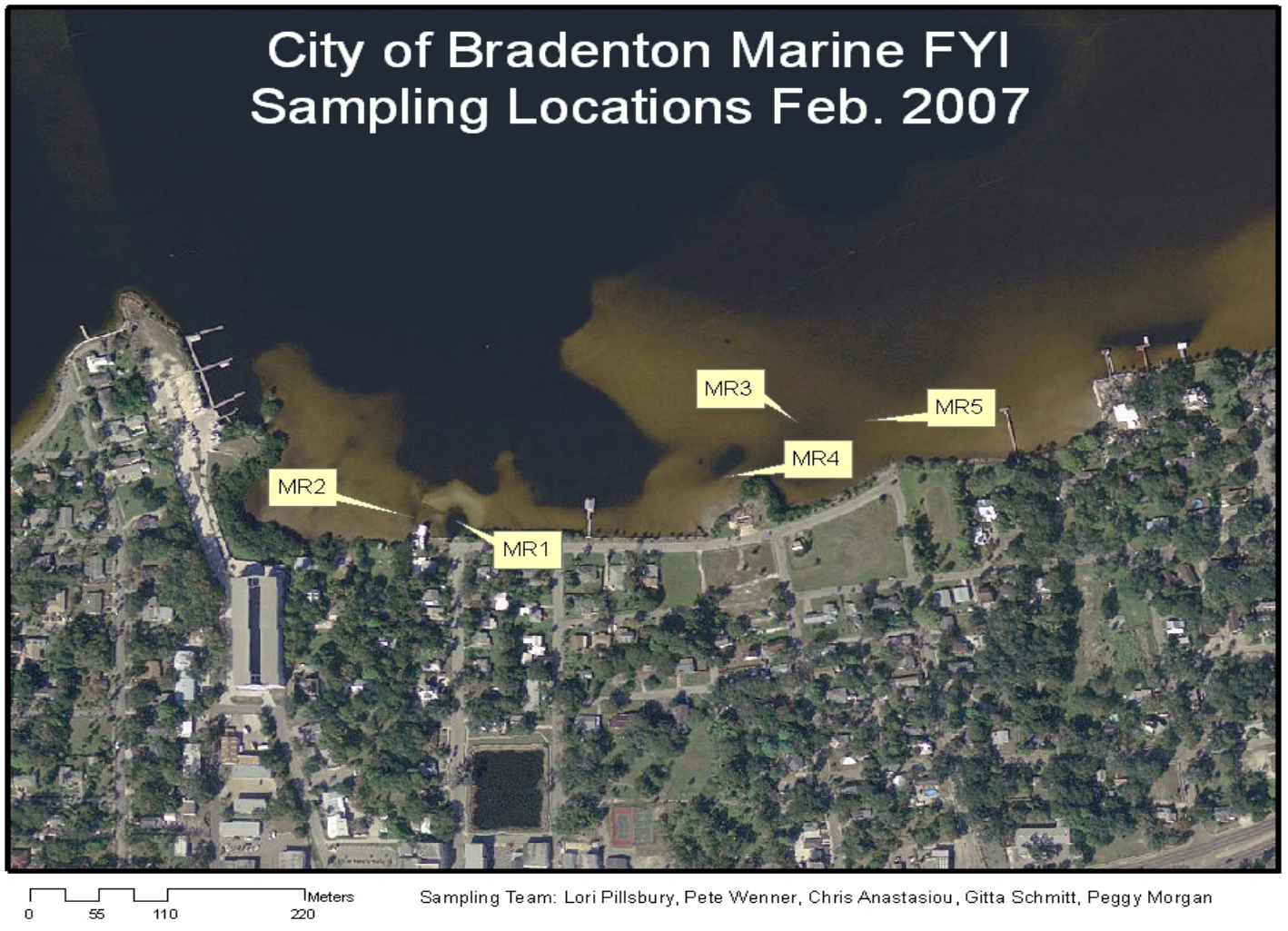
Figure 2. Sediment Particle Size for the five sampling stations at City of Bradenton WWTP.

Appendices

- Appendix 1. Map of facility
- Appendix 2. Facility summary
- Appendix 3. Measurements and data interpretation
- Appendix 4. Chemical analyses of effluent and receiving water.
- Appendix 5. Typical values for selected parameters in Florida estuaries
- Appendix 6. Additional physical, chemical, toxicological, microbiological and DMR results
- Appendix 7. Habitat Assessment field sheets
- Appendix 8a. Ponar samples: Taxa list and macroinvertebrate density (average number of individuals per m^2)
- Appendix 8b. Ponar samples: Taxa list and total number of macroinvertebrates counted

Appendix 1

Map of sampling locations for City of Bradenton WWTP.



Appendix 2

Facility Summary for City of Bradenton WWTP.

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

Facility Name (as it appears on permit): City of Bradenton Water Reclamation Facility		**Former Names:**
Physical Address: 1810 First Street West Bradenton, FL 34206	**NPDES Permit No.:** FL0021369 **Expiration Date:** April 17, 2008	**Prepared By:** Lori Pillsbury, WRM Peter Wenner, WRM Joe Squitieri, DW
County: Manatee	**District:** SWD	**Facility Type:** Major, DW
Function of Facility: domestic wastewater treatment facility		
Sampling Location (actual permit designation of permitted sampling point): Outfall D001		
Description of permitted outfall: D001 is approximately 20 feet in length from Robinson's ditch and discharges at a depth approximately equal to the seawall (*it basically comes out of the seawall)* into the Manatee River.		
Description of treatment process (if multiple discharge points, include a map or diagram of facility): The facility is an extended aeration activated sludge advanced wastewater treatment facility.		
Receiving Waters: Manatee River	**Classification (indicate whether fresh or marine):** Class III Marine	
Temperature (C):	**Design Flow: 6.0 MGD annual average**	
pH (SU):	**Mean Flow (for previous 12 months):**	
Conductivity (umhos/cm):	**Flow During Survey:**	
Method of Chlorination	**Method of Dechlorination**	
Dissolved Oxygen (mg/L):	**Total Residual Chlorine (mg/L) (after disinfection):**	
Discharge is: Continuous Intermittent Seasonal Rainfall Dependent Other		
Toxicity Test Requirements (routine and/or additional test language test species, salinity adjustment, etc.): **Chronic toxicity test utilizing *C. dubia* and *P. promelas*, test to be conducted on flow proportioned 24-hour composite samples and conducted every two months**		
Administrative or Consent Orders:		
Facility Mixing Zone Details: No mixing zones.		
List permit violations (DMR data) and plant upsets that occurred at the plant within the last year: See included toxicity history. Additional DMR review to follow.		
Describe previous impact bioassessments, WQBEL's, and previous or current enforcement actions: see below in recon summary		

Discuss MOR trends to prior data; is trend improving or declining:

List Effluent Limits (include additional sheets as necessary):

Parameter and Units	Limit	Describe special permit conditions and permit modifications:
Flow (MGD)	6.0 (annual average)	
Oxygen, dissolved (mg/L)	5.0 (min.)	
CBOD, (mg/L)	5.0 (AA) 6.25 (MA) 7.5 (WA) 10.0 (SS)	24-hour flow Composite sample
Solids, Total suspended (mg/L)	5.0 (AA) 6.25 (MA) 7.5 (WA) 10.0 (SS)	24-hour flow Composite sample
Solids, Total suspended (mg/L)	5.0 (SS max)	grab
pH (s.u.)	6.5 ≤pH ≤8.5	
coliform, fecal (#/100 mL)	25 (max)	
Total Residual Chlorine (for dechlorination) (mg/L)	0.01 (max)	
Nitrogen, total (as N) (mg/L)	3.0 (AA) 3.75 (MA) 4.5 (WA) 6.0 (SS)	24-hour flow Composite sample
Phosphorus, total (as P) (mg/L)	1.0 (AA) 1.25 (MA) 1.5 (WA) 2.0 (SS)	24-hour flow Composite sample
Chronic WET	NOEC = 100%	
Dibromochloromethane (µg/L)	34 (annual average)	
Dichlorobromomethane (µg/L)	22 (annual average)	
Nickel, Total recoverable (µg/L)	8.3	24-hour flow Composite sample
Cadmium, total recoverable (µg/L)	9.3	24-hour flow Composite sample

Copper, total recoverable (µg/L)	2.9 (s/b 3.7)	24-hour flow Composite sample
Iron, total recoverable (µg/L)	300	24-hour flow Composite sample
Zinc, total recoverable (µg/L)	86	24-hour flow Composite sample

RECON SUMMARY

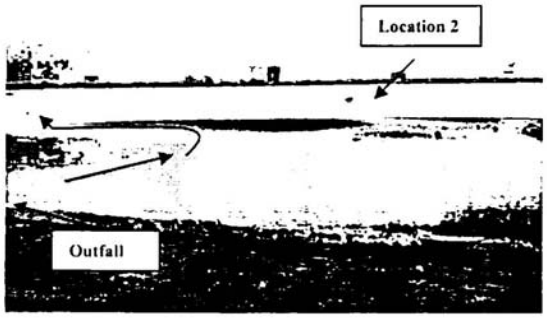
Recon was conducted by Lori Pillsbury (WRM), Peter Wenner (WRM), and Joe Squitieri (DW) on December 7, 2006. At the time of the recon, the tide was low in the Manatee River at the location of the outfall. During low tide (see pictures), there is an obvious pool of freshwater from the effluent constrained by sand bars. Field parameters and sediments types were recorded.

	Location 1	Location 2
Temperature (° C)	24.56	20.20
Specific Conductance (µmhos/cm)	2400	39900
Salinity (psu)	1.33	25.55
Dissolved oxygen (mg/L)	7.79	8.38
pH (s.u.)	7.43	7.53
sediment type	black organic	black organic mixed with sand

Location #1 – within outfall plume



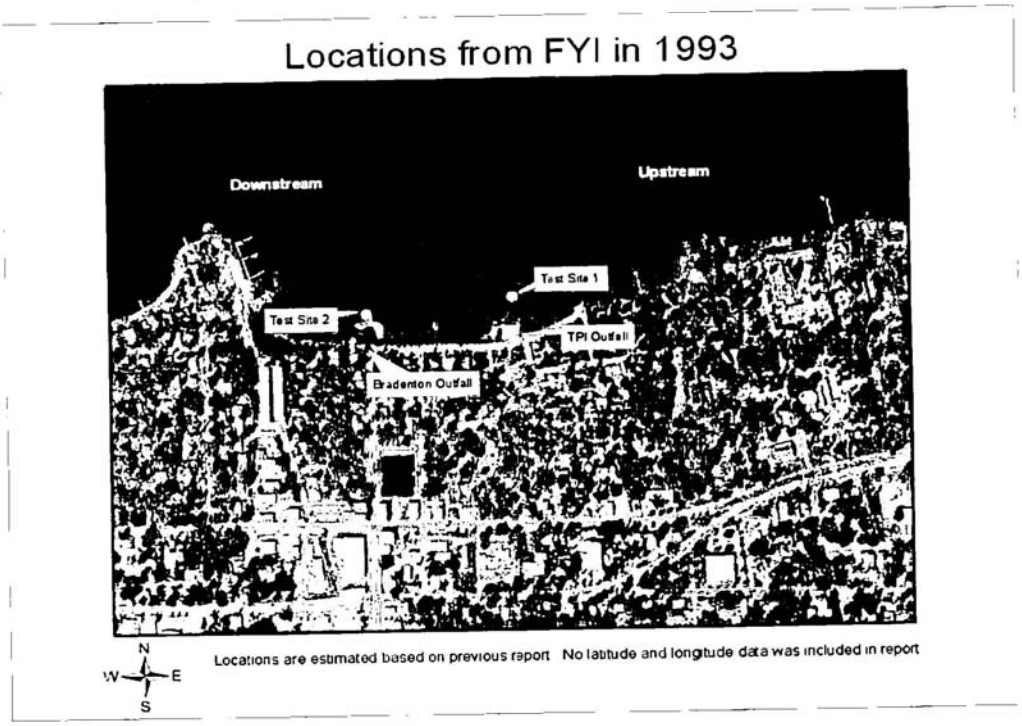
Location #2 – outside outfall plume / pool (~ 150 m off seawall)



The tidal range in the area can be seen in the photo (~0.75 meters at this location). The sediments in the pool in front of the outfall were black and mucky, similar to just outside the sandbar. At the time of the recon, the outfall seemed to be flowing out and to the left through the small channel seen on the location 2 photo. However, the pool in front of the outfall was fresh in comparison to the river and approximately 2 m deep.

A fifth year bioassessment was completed in October of 1993. This FYI looked at test sites near both the City of Bradenton WWTP outfall and Tropicana's outfall (located approximately 100 meters upstream). See Figure 1 for approximate sample locations. The FYI showed some degradation of the benthic community at the test site near Bradenton (Test site 2) (decrease in pollution tolerant species) and a high level of degradation at the test site near Tropicana (Test site 1). Tropicana has ceased discharge (facility utilizes deep well injection) except for in an emergency situation. The facility has not discharged in the past 3 years.

Figure 1 – Locations from previous FYI (1993)



WRM would like to conduct a marine protocol FYI on this facility and include sampling sites near the Tropicana outfall to reevaluate the benthic community since the facility has not been discharging. The FYI date for Bradenton is scheduled for Feb. 19. 2007.

Table 1 – Toxicity history since 2004. City of Bradenton

Date of Test	Test	Endpoints for *C. dubia* Survival / Reproduction	Endpoints for *P. promelas* Survival / Growth	Result / Comment
1/13 – 20/04	Routine	<100% R	<100% G	Fail
2/2 – 3/2/04	1st additional	<6.25% R	>100%; reran due to controls	Fail
2/9 – 3/15/04	2nd additional	12.5% S; 25% R	>100%; reran – high PMSD	Fail
2/16 – 24/04	3rd additional	50% S; 12.5% R	>100%reported; 12.5% G	Fail
3/15 – 22/04	Routine	>100%	>100%	Pass
5/3 – 10/04	Routine	<100%	<100% G	Fail
5/17 – 24/04	1st additional	100%	100%	Pass
5/24 – 31/04	2nd additional	100%	100%	Pass
6/1 – 8/04	3rd additional	100%	100%	Pass
7/12 – 19/04	Routine	100%	100%	Pass
9/20 – 27/04	Routine	100%	100%	Pass
11/16 –23/04	Routine	100%	100%	Pass
1/10 – 17/05	Routine	100%	>100% S; <100% G	Fail
2/1 – 8/05	1st additional		100% / 100	Pass
2/7 – 14/05	2nd additional		100% / 100%	Pass
2/15 – 22/05	3rd additional		100% / 100%	Pass
3/21 – 28/05	Routine	>100% / >100%	>100% / >100%	Pass
5/2 – 9/05	Routine	>100% / >100%	>100% / >100%	Pass
7/18 – 25/05	Routine	>100% / <100%	>100% / >100%	Fail
8/8 – 14/05	1st additional	100% / 100%		Pass
8/23 – 29/05	2nd additional	100% / 100%		Pass
8/30 – 9/5/05	3rd additional	100% / 100%		Pass
9/26 – 10/23/05	Routine	>100% / >100% (reran)	>100% / <100%	Fail
10/17 – 24/05	1st additional		100% / 100%*	Fail
10/31 – 11/7/05	2nd additional		>100% / >100%	Pass
11/7 – 14/05	3rd additional		100% / 100%	Pass
11/14 – 21/05	Routine	>100% / >100%	>100% / >100%	Pass
1/23 – 30/06	Routine	>100% / <100%	>100% / >100%	Fail
2/20 – 27/06	1st additional	100% / 100%		Pass
2/27 – 3/5/06	2nd additional	100% / 100%		Pass
3/6 – 13/06	3rd additional	100% / 100%		Pass
3/13 – 20/06	Routine	>100% / >100%	>100% / >100%	Pass
5/8 – 15/06	Routine	>100% / >100%	>100% / >100%	Pass
7/10 – 17/06	Routine	>100% / <100%	>100% / >100%	Fail
7/31 – 8/9/06	1st additional	100% / 100%		Pass
8/7 – 13/06	2nd additional	100% / 100%		Pass
8/14 – 20/06	3rd additional	100% / 100%		Pass
9/11 – 18/06	Routine	>100% / >100%	>100% / >100%	Pass

Appendix 3

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.floridadep.org/labs/sop/index.htm and/or http://www.floridadep.org/labs/qa/index.htm .

(2) Chemical Analyses of the Effluent

The effluent was analyzed for nutrients, metals, organic constituents (base, neutral, and acid extractables) and pesticides following FDEP SOPs. A list of the analytes tested for, results, data qualifiers, the minimum detection limits and the practical quantitation limits are given in Appendix 4. The results from these analyses were compared with Water Quality Criteria (62-302 F.A.C.) and facility permit limits (Table 1, Appendix 2). Exceedances of Water Quality Criteria may be violations of specific provisions of Chapter 62-302 (F.A.C.) and/ or facility permit limits.

(3) Toxicity Bioassays

Acute screening toxicity bioassays were performed on the effluent sample using the water flea, *Ceriodaphnia dubia,* and the fish, *Pimephales promeles* following FDEP SOPs TA07_01 and TA07_02. Failure of toxicity testing may constitute a violation of 62-302.520(21), 62-302.530(62) and/or facility permit limits.

(4) Bacteriological Testing

The effluent and water from sampling stations were analyzed for the presence and concentration of fecal coliform bacteria following FDEP SOPs MB1_0 and MB1_1. High levels of fecal or total coliform bacteria may constitute violation of 62-302.530(6), 62-302.530(7) and/or facility permit limits.

(5) Establishment of Sampling Stations

Chemical and biological comparisons were made among five sampling stations located in the Manatee River. Stations MR1 and MR2 were located near the Bradenton WWTP outfall, MR3 and MR4 were located approximately 250-300 meters east of the outfall and MR5, located 350 meters east acted as the Control Site. Sample collection began at MR5 on a low and concluded with MR1 during an incoming tide.

(6) Algal Growth Potential (AGP)

The effluent and water samples from the five stations were autoclaved, filtered (0.45μm), inoculated with the unicellular green alga, *Pseudokirchneriella subcapitata* (formerly *Selenastrum capricornutum,* USEPA 2002*)* or *Dunaliella tertiolecta,* depending upon the salinity of the water sample. Samples were incubated for 14 days (FDEP SOP TA08_05). 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 one line of evidence for violation of 62-302.530(47) F.A.C., 62-302.530(48)(a) F.A.C. and/or 62-302.530(48)(b) F.A.C..

The concentration of nutrients in a water sample may be used to calculate the expected yield of AGP 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 ± 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 be a violation of 62-302.530(62) F.A.C.. Expected AGP cannot be calculated for marine samples incubated with *Dunaliella.*

(7) Sediment Sampling

Sediment cores were collected with a stainless steel core tube at all sampling stations following QA Rule SOP FS4000. Samples were analyzed for metals, organic constituents, pesticides, organic content and sediment grain size in the laboratory following FDEP SOPs.

When cores were collected, the core was split and the depth of the discontinuity layer was measured to the nearest mm with a ruler. The discontinuity layer, where present, is a line at varying depths in the sediment where the sediments become black and anoxic. Where it can be measured, the discontinuity layer provides an estimate of the oxygenation depth of sediments. For example, in polluted or highly organic sediments, the discontinuity layer is usually <10 mm deep while in well-aerated sediments, it may be >10 cm.

(8) Algal Phytoplankton

Methods: Phytoplankton were sampled using a 1 L grab sample (QA Rule SOP FS7100).

Chlorophyll *a* Content: Chlorophyll *a* content is measured in both phytoplankton and periphyton samples to estimate algal biomass (FDEP SOP BB05). High algal biomass implies nutrient stress (Stevenson and Bahls 1999) and may be a violation of 62-302.530(47) F.A.C., 62-302.530(48)(a) F.A.C. and/or 62-302.530(48)(b) F.A.C..

(9) Benthic Macroinvertebrate Assemblages

Methods: Benthic macroinvertebrates were collected using a petite ponar dredge following QA Rule SOP FS7530. 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 (FDEP SOP IZ06).

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 violations of 62-302.530(47) F.A.C., 62-302.530(48)(a) F.A.C., 62-302.530(48)(b) F.A.C. and/or 62-302.530(62) 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 violations of 62-302.530(47) F.A.C., 62-302.530(48)(a) F.A.C. and/or 62-302.530(48)(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 violations of 62-302.530(47) F.A.C., 62-302.530(48)(a) F.A.C., 62-302.530(48)(b) F.A.C. and/or 62-302.530(62) 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 violations of 62-302.530(47) F.A.C., 62-302.530(48)(a) F.A.C., 62-302.530(48)(b) F.A.C. and/or 62-302.530(62) 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 results from petite ponar samples at test and control sites constitutes a violation of 62-302.530(11) F.A.C..

(10) Statistical Comparisons

Statistical comparisons of the proportions of taxa, major groups or feeding groups were made using 95% confidence intervals on proportions. A 95% confidence interval is the range of values above and below a given proportion that has a 95% chance of containing the true proportion (Sokal and Rohlf 1995). If the 95% confidence intervals for two proportions do not overlap, then the proportion of X in sample 1 is significantly different from the proportion of X in sample 2 at $p<0.05$. A "$p<0.05$" level of significance means that there is less than a 5% chance that the true proportions in the two samples are the same. All comparisons that are labeled as significant in the text have a probability <0.05 that the proportions are the same.

Appendix 4

Chemical analysis of effluent and receiving water

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/19/2007 10:00	OUTFALL DOO1	AGP/LN	Algal Growth Potential	77.5		mg DryWt/L	0.3	0.9
2/19/2007 10:00	OUTFALL DOO1	AGP/LN	Algal Growth Potential-Salinity Adjusted	46.1		mg DryWt/L	3	3
2/19/2007 10:00	OUTFALL DOO1	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.66	AI	mg/L	0.2	2
2/19/2007 10:00	OUTFALL DOO1	Chlorophyll/Grain Size/BOD	Chlorophyll-A, Monochromatic, Water	0.85	U	ug/L	0.85	2.6
2/19/2007 10:00	OUTFALL DOO1	Chlorophyll/Grain Size/BOD	Phaeophytin-A, Monochromatic, Water	1.5	U	ug/L	1.5	4.5
2/19/2007 10:00	OUTFALL DOO1	Metals	Aluminum	4	U	ug/L	4	16
2/19/2007 10:00	OUTFALL DOO1	Metals	Calcium	83.2		mg/L	0.02	0.08
2/19/2007 10:00	OUTFALL DOO1	Metals	Chromium	0.3	U	ug/L	0.3	1.2
2/19/2007 10:00	OUTFALL DOO1	Metals	Iron	197		ug/L	5	20
2/19/2007 10:00	OUTFALL DOO1	Metals	Magnesium	19.7		mg/L	0.005	0.02
2/19/2007 10:00	OUTFALL DOO1	Metals	Nickel	4.8		ug/L	1	4
2/19/2007 10:00	OUTFALL DOO1	Metals	Zinc	32		ug/L	3	12
2/19/2007 10:00	OUTFALL DOO1	Metals	Arsenic	0.5	U	ug/L	0.5	2
2/19/2007 10:00	OUTFALL DOO1	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
2/19/2007 10:00	OUTFALL DOO1	Metals	Copper	0.21	I	ug/L	0.2	0.8
2/19/2007 10:00	OUTFALL DOO1	Metals	Lead	0.2	U	ug/L	0.2	0.8
2/19/2007 10:00	OUTFALL DOO1	Metals	Selenium	0.5	U	ug/L	0.5	2
2/19/2007 10:00	OUTFALL DOO1	Metals	Silver	0.025	U	ug/L	0.025	0.1
2/19/2007 10:00	OUTFALL DOO1	Nutrients	Turbidity	0.75		NTU	0.05	0.05
2/19/2007 10:00	OUTFALL DOO1	Nutrients	Color	30	A	PCU	5	5
2/19/2007 10:00	OUTFALL DOO1	Nutrients	Dissolved Organic Carbon	9.7		mg C/L	1	5
2/19/2007 10:00	OUTFALL DOO1	Nutrients	Ammonia-N	2		mg N/L	0.05	0.1
2/19/2007 10:00	OUTFALL DOO1	Nutrients	NO2NO3-N	0.072		mg N/L	0.004	0.01
2/19/2007 10:00	OUTFALL DOO1	Nutrients	O-Phosphate-P	0.38		mg P/L	0.012	0.03
2/19/2007 10:00	OUTFALL DOO1	Nutrients	Kjeldahl Nitrogen	2.5		mg N/L	0.08	0.2
2/19/2007 10:00	OUTFALL DOO1	Nutrients	Total Organic Carbon	10	A	mg C/L	1	5
2/19/2007 10:00	OUTFALL DOO1	Nutrients	Total-P	0.46		mg P/L	0.02	0.06
2/19/2007 10:00	OUTFALL DOO1	Nutrients	TSS	4	U	mg/L	4	16
2/19/2007 10:00	OUTFALL DOO1	Overflow	Oil and Grease	2.4	I	mg/L		
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Alachlor	0.6	UJ	ug/L	0.6	2.4
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Atrazine	0.13	U	ug/L	0.13	0.52
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Azinphos Methyl	0.2	UJ	ug/L	0.2	0.8
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Butylate	0.2	UJ	ug/L	0.2	0.8
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Diazinon	0.05	UJ	ug/L	0.05	0.2
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Metalaxyl	0.25	UJ	ug/L	0.25	1
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Metolachlor	0.5	U	ug/L	0.5	2
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Mevinphos	0.2	UJ	ug/L	0.2	0.8
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Parathion Methyl	0.1	UJ	ug/L	0.1	0.4
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
2/19/2007 10:00	OUTFALL DOO1	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	1,2-Dichlorobenzene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	1,3-Dichlorobenzene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	1,4-Dichlorobenzene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2,4-Dichlorophenol	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2,4-Dimethylphenol	49	U	ug/L	49	190
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	58
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2,4-Dinitrotoluene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2,6-Dinitrotoluene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2-Chloronaphthalene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2-Chlorophenol	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	UJ	ug/L	2.9	12
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	2-Nitrophenol	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	3,3'-Dichlorobenzidine	39	U	ug/L	39	160
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	4,4'-DDD	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	4,4'-DDE	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	4,4'-DDT	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	U	ug/L	1.9	7.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	58
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Acenaphthene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Acenaphthylene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Aldrin	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Anthracene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Benzidine	97	U	ug/L	97	390
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Benzo(a)anthracene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Benzo(a)pyrene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Benzo(b)fluoranthene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Benzo(k)fluoranthene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	U	ug/L	2.9	12
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	58
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Butyl benzyl phthalate	4.9	U	ug/L	4.9	19

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Chrysene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Di-n-butyl phthalate	4.9	U	ug/L	4.9	19
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Di-n-octyl phthalate	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Dieldrin	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Diethyl phthalate	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Dimethyl phthalate	49	U	ug/L	49	190
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Endosulfan I	3.9	U	ug/L	3.9	16
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Endosulfan II	3.9	U	ug/L	3.9	16
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Endosulfan sulfate	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Endrin	1.5	UJ	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Endrin aldehyde	3.9	U	ug/L	3.9	16
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Fluoranthene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Fluorene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Heptachlor	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Heptachlor epoxide	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Hexachlorobenzene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Hexachlorobutadiene	2.9	U	ug/L	2.9	12
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	U	ug/L	2.9	12
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Hexachloroethane	2.9	U	ug/L	2.9	12
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Isophorone	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	U	ug/L	1.9	7.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	U	ug/L	1.9	7.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9	U	ug/L	2.9	12
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Naphthalene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Nitrobenzene	1.9	U	ug/L	1.9	7.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Pentachlorophenol	2.9	U	ug/L	2.9	12
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Phenanthrene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Phenol	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Pyrene	0.97	U	ug/L	0.97	3.9
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	alpha-BHC	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	beta-BHC	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	delta-BHC	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	gamma-BHC	1.5	U	ug/L	1.5	5.8
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Bromodichloromethane	1.6		ug/L	0.2	1
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Bromoform	0.5	U	ug/L	0.5	2
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Chloroform	5.8		ug/L	0.2	1
2/19/2007 10:00	OUTFALL DOO1	Priority Organic Pollutants	Dibromochloromethane	0.25	I	ug/L	0.2	1
2/19/2007 10:00	OUTFALL DOO1	Field Parameters	Dissolved Oxygen	9.15		mg/L		
2/19/2007 10:00	OUTFALL DOO1	Field Parameters	Specific Conductance	1156		umhos/cm		
2/19/2007 10:00	OUTFALL DOO1	Field Parameters	Temperature	20.78		C		
2/19/2007 10:00	OUTFALL DOO1	Field Parameters	pH	7.34				
2/19/2007 9:00	OUTFALL DOO1	Toxicology	Bioassay-Chronic-Scrn-FW-C.dubia, NOEC	100			NOEC	
2/19/2007 9:00	OUTFALL DOO1	Toxicology	Bioassay-Chronic-Scrn-FW-Fish, NOEC	100		K	NOEC	
2/23/2007 9:00	OUTFALL DOO1	Toxicology	Bioassay-Chronic-Scrn-FW-C.dubia, NOEC				NOEC	
2/23/2007 9:00	OUTFALL DOO1	Toxicology	Bioassay-Chronic-Scrn-FW-Fish, NOEC				NOEC	
2/23/2007 9:00	OUTFALL DOO1	Field Parameters	Dissolved Oxygen	9.25		mg/L		

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/23/2007 9:00	OUTFALL DOO1	Field Parameters	Specific Conductance	1186		umhos/cm		
2/23/2007 9:00	OUTFALL DOO1	Field Parameters	Temperature	22.79		C		
2/23/2007 9:00	OUTFALL DOO1	Field Parameters	pH	6.98				
2/21/2007 9:00	OUTFALL D001	Toxicology	Bioassay-Chronic-Scrn-FW-C.dubia, NOEC				NOEC	
2/21/2007 9:00	OUTFALL D001	Toxicology	Bioassay-Chronic-Scrn-FW-Fish, NOEC				NOEC	
2/21/2007 9:00	OUTFALL D001	Field Parameters	Dissolved Oxygen	8.82		mg/L		
2/21/2007 9:00	OUTFALL D001	Field Parameters	Specific Conductance	1153		umhos/cm		
2/21/2007 9:00	OUTFALL D001	Field Parameters	Temperature	23.08		C		
2/21/2007 9:00	OUTFALL D001	Field Parameters	pH	7.39				
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.2	I	mg/L	0.2	2
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Metals	Iron	72		ug/L	5	20
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Metals	Nickel	4.3		ug/L	1	4
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Metals	Zinc	32		ug/L	3	12
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Metals	Copper	0.88	I	ug/L	0.6	2.4
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Nutrients	Dissolved Organic Carbon	9.7	A	mg C/L	1	5
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Nutrients	Ammonia-N	0.82		mg N/L	0.01	0.02
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Nutrients	NO2NO3-N	0.34		mg N/L	0.004	0.01
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Nutrients	Kjeldahl Nitrogen	2.3		mg N/L	0.08	0.2
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Nutrients	Total Organic Carbon	9.8		mg C/L	1	5
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Nutrients	Total-P	0.23		mg P/L	0.02	0.06
2/20/2007 10:45	OUTFALL D001 COMPOSITE	Nutrients	TSS	4	U	mg/L	4	16
2/20/2007 14:00	Site 1/MR1	Chlorophyll/Grain Size/BOD	Sediment % Organic	17		% dry wt		
2/20/2007 14:00	Site 1/MR1	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	11		% vol <2mm	0	0.01
2/20/2007 14:00	Site 1/MR1	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	10.3		% vol <2mm	0	0.01
2/20/2007 14:00	Site 1/MR1	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	5.7		% vol <2mm	0	0.01
2/20/2007 14:00	Site 1/MR1	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	3.3		% vol <2mm	0	0.01
2/20/2007 14:00	Site 1/MR1	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	69.7		% vol <2mm	0	0.01
2/20/2007 14:00	Site 1/MR1	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1	K	%tot drywt	0	1
2/20/2007 14:00	Site 1/MR1	Metals	Aluminum	14300	A	mg/Kg	46	180
2/20/2007 14:00	Site 1/MR1	Metals	Calcium	26600	A	mg/Kg	91	360
2/20/2007 14:00	Site 1/MR1	Metals	Chromium	35.5	A	mg/Kg	0.091	0.36
2/20/2007 14:00	Site 1/MR1	Metals	Iron	13000	A	mg/Kg	18	73
2/20/2007 14:00	Site 1/MR1	Metals	Magnesium	10500	A	mg/Kg	7.3	29
2/20/2007 14:00	Site 1/MR1	Metals	Nickel	8.19	A	mg/Kg	0.14	0.55
2/20/2007 14:00	Site 1/MR1	Metals	Zinc	117	A	mg/Kg	1.2	4.7
2/20/2007 14:00	Site 1/MR1	Metals	Arsenic	4.28	A	mg/Kg	0.18	0.73
2/20/2007 14:00	Site 1/MR1	Metals	Cadmium	0.56	A	mg/Kg	0.14	0.55
2/20/2007 14:00	Site 1/MR1	Metals	Copper	55	A	mg/Kg	0.46	1.8
2/20/2007 14:00	Site 1/MR1	Metals	Lead	34	A	mg/Kg	0.91	3.6
2/20/2007 14:00	Site 1/MR1	Metals	Selenium	1.17	A	mg/Kg	0.14	0.55
2/20/2007 14:00	Site 1/MR1	Metals	Silver	0.8	A	mg/Kg	0.011	0.046
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	1,2,4-Trichlorobenzene	500	U	ug/kg	500	2000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	1,2-Dichlorobenzene	500	U	ug/kg	500	2000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	1,3-Dichlorobenzene	500	U	ug/kg	500	2000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	1,4-Dichlorobenzene	500	U	ug/kg	500	2000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2,4,6-Trichlorophenol	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2,4-Dichlorophenol	170	U	ug/kg	170	670

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2,4-Dimethylphenol	5000	U	ug/kg	5000	20000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2,4-Dinitrophenol	1000	UJ	ug/kg	1000	4000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2,4-Dinitrotoluene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2,6-Dinitrotoluene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2-Chloronaphthalene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2-Chlorophenol	500	U	ug/kg	500	2000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	2-Nitrophenol	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	3,3'-Dichlorobenzidine	10000	UJ	ug/kg	10000	40000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	4,4'-DDD	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	4,4'-DDE	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	4,4'-DDT	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	4-Bromophenyl phenyl ether	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	4-Chloro-3-methylphenol	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	4-Nitrophenol	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Acenaphthene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Acenaphthylene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Aldrin	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Anthracene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Benzidine	3600	UJ	ug/kg	3600	15000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Benzo(a)anthracene	610	I	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Benzo(a)pyrene	910	I	ug/kg	840	3400
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Benzo(b)fluoranthene	1600	I	ug/kg	840	3400
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Benzo(g,h,i)perylene	840	U	ug/kg	840	3400
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Benzo(k)fluoranthene	840	U	ug/kg	840	3400
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Bis(2-chloroethyl)ether	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	1300	I	ug/kg	1000	4000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Butyl benzyl phthalate	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Chrysene	880		ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Di-n-butyl phthalate	1000	U	ug/kg	1000	4000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Di-n-octyl phthalate	840	UJ	ug/kg	840	3400
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Dibenzo(a,h)anthracene	840	U	ug/kg	840	3400
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Dieldrin	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Diethyl phthalate	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Dimethyl phthalate	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Endosulfan I	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Endosulfan II	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Endosulfan sulfate	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Endrin	170	UJ	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Endrin aldehyde	170	UJ	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Fluoranthene	1300		ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Fluorene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Heptachlor	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Heptachlor epoxide	170	U	ug/kg	170	670

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Hexachlorobenzene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Hexachlorobutadiene	500	U	ug/kg	500	2000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Hexachlorocyclopentadiene	170	UJ	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Hexachloroethane	500	U	ug/kg	500	2000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	840	U	ug/kg	840	3400
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Isophorone	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	N-Nitrosodimethylamine	1000	U	ug/kg	1000	4000
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	170	UJ	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Naphthalene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Nitrobenzene	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Pentachlorophenol	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Phenanthrene	440	I	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Phenol	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	Pyrene	1700		ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	alpha-BHC	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	beta-BHC	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	delta-BHC	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Priority Organic Pollutants	gamma-BHC	170	U	ug/kg	170	670
2/20/2007 14:00	Site 1/MR1	Field Parameters	Dissolved Oxygen	9.62		mg/L		
2/20/2007 14:00	Site 1/MR1	Field Parameters	Specific Conductance	37262		umhos/cm		
2/20/2007 14:00	Site 1/MR1	Field Parameters	Temperature	16.79		C		
2/20/2007 14:00	Site 1/MR1	Field Parameters	pH	7.69				
2/20/2007 14:00	Site 1/MR1	Field Parameters	% Solid	35.8				
2/20/2007 14:00	Site 1/MR1	Field Parameters	Dissolved Oxygen	9.62		mg/L		
2/20/2007 14:00	Site 1/MR1	Field Parameters	Specific Conductance	37262		umhos/cm		
2/20/2007 14:00	Site 1/MR1	Field Parameters	Temperature	16.79		C		
2/20/2007 14:00	Site 1/MR1	Field Parameters	pH	7.69				
2/20/2007 10:51	Site 1/MR1	AGP/LN	Algal Growth Potential-Salinity Adjusted	37.7		mg DryWt/L	3	3
2/20/2007 10:51	Site 1/MR1	Chlorophyll/Grain Size/BOD	Chlorophyll-A, Monochromatic, Water	0.85	U	ug/L	0.85	2.6
2/20/2007 10:51	Site 1/MR1	Chlorophyll/Grain Size/BOD	Phaeophytin-A, Monochromatic, Water	1.5	U	ug/L	1.5	4.5
2/20/2007 10:51	Site 1/MR1	Metals	Aluminum	56		ug/L	4	16
2/20/2007 10:51	Site 1/MR1	Metals	Calcium	107		mg/L	0.02	0.08
2/20/2007 10:51	Site 1/MR1	Metals	Chromium	0.86	U	ug/L	0.86	3.4
2/20/2007 10:51	Site 1/MR1	Metals	Iron	176		ug/L	5	20
2/20/2007 10:51	Site 1/MR1	Metals	Magnesium	132		mg/L	0.05	0.2
2/20/2007 10:51	Site 1/MR1	Metals	Nickel	3.6	I	ug/L	1	4
2/20/2007 10:51	Site 1/MR1	Metals	Zinc	29		ug/L	3	12
2/20/2007 10:51	Site 1/MR1	Metals	Arsenic	1.5	U	ug/L	1.5	6
2/20/2007 10:51	Site 1/MR1	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
2/20/2007 10:51	Site 1/MR1	Metals	Copper	1.7	I	ug/L	0.6	2.4
2/20/2007 10:51	Site 1/MR1	Metals	Lead	0.6	U	ug/L	0.6	2.4
2/20/2007 10:51	Site 1/MR1	Metals	Selenium	1.5	U	ug/L	1.5	6
2/20/2007 10:51	Site 1/MR1	Metals	Silver	0.075	U	ug/L	0.075	0.3
2/20/2007 10:51	Site 1/MR1	Nutrients	Ammonia-N	0.71		mg N/L	0.01	0.02
2/20/2007 10:51	Site 1/MR1	Nutrients	NO2NO3-N	0.26		mg N/L	0.004	0.01
2/20/2007 10:51	Site 1/MR1	Nutrients	O-Phosphate-P	0.29		mg P/L	0.012	0.03
2/20/2007 10:51	Site 1/MR1	Nutrients	Kjeldahl Nitrogen	1.6		mg N/L	0.16	0.4

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 10:51	Site 1/MR1	Nutrients	Total-P	0.38		mg P/L	0.02	0.06
2/20/2007 10:51	Site 1/MR1	Nutrients	TSS	4	U	mg/L	4	16
2/20/2007 10:51	Site 1/MR1	Field Parameters	Dissolved Oxygen	9.66		mg/L		
2/20/2007 10:51	Site 1/MR1	Field Parameters	Sample Depth	0.2		m		
2/20/2007 10:51	Site 1/MR1	Field Parameters	Specific Conductance	8561		umhos/cm		
2/20/2007 10:51	Site 1/MR1	Field Parameters	Temperature	20.53		C		
2/20/2007 10:51	Site 1/MR1	Field Parameters	pH	7.47				
2/20/2007 13:30	Site 2/MR2	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.3		% dry wt		
2/20/2007 13:30	Site 2/MR2	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	5.92		% vol <2mm	0	0.01
2/20/2007 13:30	Site 2/MR2	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	51.2		% vol <2mm	0	0.01
2/20/2007 13:30	Site 2/MR2	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	29.1		% vol <2mm	0	0.01
2/20/2007 13:30	Site 2/MR2	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	8.61		% vol <2mm	0	0.01
2/20/2007 13:30	Site 2/MR2	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	5.17		% vol <2mm	0	0.01
2/20/2007 13:30	Site 2/MR2	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1	K	%tot drywt	0	1
2/20/2007 13:30	Site 2/MR2	Metals	Aluminum	1100		mg/Kg	4.5	18
2/20/2007 13:30	Site 2/MR2	Metals	Calcium	4250		mg/Kg	9.1	36
2/20/2007 13:30	Site 2/MR2	Metals	Chromium	3.2		mg/Kg	0.091	0.36
2/20/2007 13:30	Site 2/MR2	Metals	Iron	1010		mg/Kg	1.8	7.3
2/20/2007 13:30	Site 2/MR2	Metals	Magnesium	941		mg/Kg	0.73	2.9
2/20/2007 13:30	Site 2/MR2	Metals	Nickel	0.79		mg/Kg	0.14	0.54
2/20/2007 13:30	Site 2/MR2	Metals	Zinc	13.7		mg/Kg	1.2	4.7
2/20/2007 13:30	Site 2/MR2	Metals	Arsenic	0.69	I	mg/Kg	0.18	0.73
2/20/2007 13:30	Site 2/MR2	Metals	Cadmium	0.14	U	mg/Kg	0.14	0.54
2/20/2007 13:30	Site 2/MR2	Metals	Copper	4.6		mg/Kg	0.45	1.8
2/20/2007 13:30	Site 2/MR2	Metals	Lead	3.4	I	mg/Kg	0.91	3.6
2/20/2007 13:30	Site 2/MR2	Metals	Selenium	0.14	I	mg/Kg	0.14	0.54
2/20/2007 13:30	Site 2/MR2	Metals	Silver	0.082		mg/Kg	0.011	0.045
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	1,2,4-Trichlorobenzene	240	U	ug/kg	240	970
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	1,2-Dichlorobenzene	240	U	ug/kg	240	970
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	1,3-Dichlorobenzene	240	U	ug/kg	240	970
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	1,4-Dichlorobenzene	240	U	ug/kg	240	970
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2,4,6-Trichlorophenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2,4-Dichlorophenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2,4-Dimethylphenol	2400	U	ug/kg	2400	9600
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2,4-Dinitrophenol	490	UJ	ug/kg	490	1900
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2,4-Dinitrotoluene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2,6-Dinitrotoluene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2-Chloronaphthalene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2-Chlorophenol	240	U	ug/kg	240	970
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	2-Nitrophenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	3,3'-Dichlorobenzidine	4900	UJ	ug/kg	4900	19000
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	4,4'-DDD	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	4,4'-DDE	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	4,4'-DDT	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	4-Bromophenyl phenyl ether	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	4-Chloro-3-methylphenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	81	U	ug/kg	81	320

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	4-Nitrophenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Acenaphthene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Acenaphthylene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Aldrin	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Anthracene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Benzidine	1800	UJ	ug/kg	1800	7000
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Benzo(a)anthracene	250	I	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Benzo(a)pyrene	310	I	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Benzo(b)fluoranthene	580		ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Benzo(g,h,i)perylene	150	I	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Benzo(k)fluoranthene	190	I	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Bis(2-chloroethyl)ether	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	490	U	ug/kg	490	1900
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Butyl benzyl phthalate	320		ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Chrysene	330		ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Di-n-butyl phthalate	490	U	ug/kg	490	1900
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Di-n-octyl phthalate	81	UJ	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Dibenzo(a,h)anthracene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Dieldrin	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Diethyl phthalate	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Dimethyl phthalate	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Endosulfan I	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Endosulfan II	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Endosulfan sulfate	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Endrin	81	UJ	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Endrin aldehyde	81	UJ	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Fluoranthene	630		ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Fluorene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Heptachlor	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Heptachlor epoxide	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Hexachlorobenzene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Hexachlorobutadiene	240	U	ug/kg	240	970
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Hexachlorocyclopentadiene	81	UJ	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Hexachloroethane	240	U	ug/kg	240	970
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	150	I	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Isophorone	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	N-Nitrosodimethylamine	490	U	ug/kg	490	1900
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	81	UJ	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Naphthalene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Nitrobenzene	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Pentachlorophenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Phenanthrene	280	I	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Phenol	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	Pyrene	710		ug/kg	81	320

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	alpha-BHC	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	beta-BHC	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	delta-BHC	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Priority Organic Pollutants	gamma-BHC	81	U	ug/kg	81	320
2/20/2007 13:30	Site 2/MR2	Field Parameters	Dissolved Oxygen	9.7		mg/L		
2/20/2007 13:30	Site 2/MR2	Field Parameters	Specific Conductance	39073		umhos/cm		
2/20/2007 13:30	Site 2/MR2	Field Parameters	Temperature	15.37		C		
2/20/2007 13:30	Site 2/MR2	Field Parameters	pH	7.68				
2/20/2007 13:30	Site 2/MR2	Field Parameters	% Solid	74				
2/20/2007 13:30	Site 2/MR2	Field Parameters	Dissolved Oxygen	10.79		mg/L		
2/20/2007 13:30	Site 2/MR2	Field Parameters	Specific Conductance	30758		umhos/cm		
2/20/2007 13:30	Site 2/MR2	Field Parameters	Temperature	17.28		C		
2/20/2007 13:30	Site 2/MR2	Field Parameters	pH	7.6				
2/20/2007 10:45	Site 2/MR2	AGP/LN	Algal Growth Potential-Salinity Adjusted	31.1		mg DryWt/L	3	3
2/20/2007 10:45	Site 2/MR2	Chlorophyll/Grain Size/BOD	Chlorophyll-A, Monochromatic, Water	0.85	U	ug/L	0.85	2.6
2/20/2007 10:45	Site 2/MR2	Chlorophyll/Grain Size/BOD	Phaeophytin-A, Monochromatic, Water	1.5	U	ug/L	1.5	4.5
2/20/2007 10:45	Site 2/MR2	Metals	Aluminum	153		ug/L	8	32
2/20/2007 10:45	Site 2/MR2	Metals	Calcium	176		mg/L	0.04	0.16
2/20/2007 10:45	Site 2/MR2	Metals	Chromium	2.6	U	ug/L	2.6	10
2/20/2007 10:45	Site 2/MR2	Metals	Iron	216		ug/L	10	40
2/20/2007 10:45	Site 2/MR2	Metals	Magnesium	410		mg/L	0.1	0.4
2/20/2007 10:45	Site 2/MR2	Metals	Nickel	2	U	ug/L	2	8
2/20/2007 10:45	Site 2/MR2	Metals	Zinc	25		ug/L	6	24
2/20/2007 10:45	Site 2/MR2	Metals	Arsenic	1.5	U	ug/L	1.5	6
2/20/2007 10:45	Site 2/MR2	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
2/20/2007 10:45	Site 2/MR2	Metals	Copper	1.7	I	ug/L	0.6	2.4
2/20/2007 10:45	Site 2/MR2	Metals	Lead	0.6	U	ug/L	0.6	2.4
2/20/2007 10:45	Site 2/MR2	Metals	Selenium	1.5	U	ug/L	1.5	6
2/20/2007 10:45	Site 2/MR2	Metals	Silver	0.075	U	ug/L	0.075	0.3
2/20/2007 10:45	Site 2/MR2	Nutrients	Ammonia-N	0.56		mg N/L	0.01	0.02
2/20/2007 10:45	Site 2/MR2	Nutrients	NO2NO3-N	0.13		mg N/L	0.004	0.01
2/20/2007 10:45	Site 2/MR2	Nutrients	O-Phosphate-P	0.22		mg P/L	0.012	0.03
2/20/2007 10:45	Site 2/MR2	Nutrients	Kjeldahl Nitrogen	1.3		mg N/L	0.16	0.4
2/20/2007 10:45	Site 2/MR2	Nutrients	Total-P	0.3		mg P/L	0.02	0.06
2/20/2007 10:45	Site 2/MR2	Nutrients	TSS	7	I	mg/L	4	16
2/20/2007 10:45	Site 2/MR2	Field Parameters	Dissolved Oxygen	10.79		mg/L		
2/20/2007 10:45	Site 2/MR2	Field Parameters	Sample Depth	0.2		m		
2/20/2007 10:45	Site 2/MR2	Field Parameters	Specific Conductance	30758		umhos/cm		
2/20/2007 10:45	Site 2/MR2	Field Parameters	Temperature	17.28		C		
2/20/2007 10:45	Site 2/MR2	Field Parameters	pH	7.6				
2/20/2007 13:00	Site 3/MR3	Chlorophyll/Grain Size/BOD	Sediment % Organic	1	K	% dry wt		
2/20/2007 13:00	Site 3/MR3	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	8.09		% vol <2mm	0	0.01
2/20/2007 13:00	Site 3/MR3	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	63.8		% vol <2mm	0	0.01
2/20/2007 13:00	Site 3/MR3	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	20.4		% vol <2mm	0	0.01
2/20/2007 13:00	Site 3/MR3	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	1.54		% vol <2mm	0	0.01
2/20/2007 13:00	Site 3/MR3	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	6.13		% vol <2mm	0	0.01
2/20/2007 13:00	Site 3/MR3	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1	K	%tot drywt	0	1
2/20/2007 13:00	Site 3/MR3	Metals	Aluminum	1050		mg/Kg	4.5	18

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 13:00	Site 3/MR3	Metals	Calcium	1700		mg/Kg	9	36
2/20/2007 13:00	Site 3/MR3	Metals	Chromium	2.7		mg/Kg	0.09	0.36
2/20/2007 13:00	Site 3/MR3	Metals	Iron	836		mg/Kg	1.8	7.2
2/20/2007 13:00	Site 3/MR3	Metals	Magnesium	943		mg/Kg	0.72	2.9
2/20/2007 13:00	Site 3/MR3	Metals	Nickel	0.67		mg/Kg	0.13	0.54
2/20/2007 13:00	Site 3/MR3	Metals	Zinc	6.5		mg/Kg	1.2	4.7
2/20/2007 13:00	Site 3/MR3	Metals	Arsenic	0.4	I	mg/Kg	0.18	0.72
2/20/2007 13:00	Site 3/MR3	Metals	Cadmium	0.13	U	mg/Kg	0.13	0.54
2/20/2007 13:00	Site 3/MR3	Metals	Copper	3.9		mg/Kg	0.45	1.8
2/20/2007 13:00	Site 3/MR3	Metals	Lead	1.7	I	mg/Kg	0.9	3.6
2/20/2007 13:00	Site 3/MR3	Metals	Selenium	0.13	U	mg/Kg	0.13	0.54
2/20/2007 13:00	Site 3/MR3	Metals	Silver	0.028	I	mg/Kg	0.011	0.045
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	1,2,4-Trichlorobenzene	250	U	ug/kg	250	980
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	1,2-Dichlorobenzene	250	U	ug/kg	250	980
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	1,3-Dichlorobenzene	250	U	ug/kg	250	980
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	1,4-Dichlorobenzene	250	U	ug/kg	250	980
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2,4,6-Trichlorophenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2,4-Dichlorophenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2,4-Dimethylphenol	2500	U	ug/kg	2500	9800
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2,4-Dinitrophenol	490	UJ	ug/kg	490	2000
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2,4-Dinitrotoluene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2,6-Dinitrotoluene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2-Chloronaphthalene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2-Chlorophenol	250	U	ug/kg	250	980
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	2-Nitrophenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	3,3'-Dichlorobenzidine	4900	UJ	ug/kg	4900	20000
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	4,4'-DDD	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	4,4'-DDE	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	4,4'-DDT	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	4-Bromophenyl phenyl ether	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	4-Chloro-3-methylphenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	4-Nitrophenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Acenaphthene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Acenaphthylene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Aldrin	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Anthracene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Benzidine	1800	UJ	ug/kg	1800	7100
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Benzo(a)anthracene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Benzo(a)pyrene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Benzo(b)fluoranthene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Benzo(g,h,i)perylene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Benzo(k)fluoranthene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Bis(2-chloroethyl)ether	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	82	U	ug/kg	82	330

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	490	U	ug/kg	490	2000
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Butyl benzyl phthalate	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Chrysene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Di-n-butyl phthalate	490	U	ug/kg	490	2000
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Di-n-octyl phthalate	82	UJ	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Dibenzo(a,h)anthracene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Dieldrin	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Diethyl phthalate	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Dimethyl phthalate	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Endosulfan I	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Endosulfan II	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Endosulfan sulfate	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Endrin	82	UJ	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Endrin aldehyde	82	UJ	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Fluoranthene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Fluorene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Heptachlor	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Heptachlor epoxide	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Hexachlorobenzene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Hexachlorobutadiene	250	U	ug/kg	250	980
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Hexachlorocyclopentadiene	82	UJ	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Hexachloroethane	250	U	ug/kg	250	980
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Isophorone	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	N-Nitrosodimethylamine	490	U	ug/kg	490	2000
2/20/2007 13:00	Site 3/MR3	Priority Organic	N-Nitrosodiphenylamine/ Diphenylamine	82	UJ	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Naphthalene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Nitrobenzene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Pentachlorophenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Phenanthrene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Phenol	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	Pyrene	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	alpha-BHC	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	beta-BHC	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	delta-BHC	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Priority Organic Pollutants	gamma-BHC	82	U	ug/kg	82	330
2/20/2007 13:00	Site 3/MR3	Field Parameters	Dissolved Oxygen	10.11		mg/L		
2/20/2007 13:00	Site 3/MR3	Field Parameters	Specific Conductance	39280		umhos/cm		
2/20/2007 13:00	Site 3/MR3	Field Parameters	Temperature	16		C		
2/20/2007 13:00	Site 3/MR3	Field Parameters	pH	7.74				
2/20/2007 13:00	Site 3/MR3	Field Parameters	% Solid	73.2				
2/20/2007 13:00	Site 3/MR3	Field Parameters	Dissolved Oxygen	10.11		mg/L		
2/20/2007 13:00	Site 3/MR3	Field Parameters	Specific Conductance	39280		umhos/cm		
2/20/2007 13:00	Site 3/MR3	Field Parameters	Temperature	16		C		
2/20/2007 13:00	Site 3/MR3	Field Parameters	pH	7.74				
2/20/2007 10:13	Site 3/MR3	AGP/LN	Algal Growth Potential-Salinity Adjusted	3	U	mg DryWt/L	3	3
2/20/2007 10:13	Site 3/MR3	Chlorophyll/Grain Size/BOD	Chlorophyll-A, Monochromatic, Water	0.85	U	ug/L	0.85	2.6

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 10:13	Site 3/MR3	Chlorophyll/Grain Size/BOD	Phaeophytin-A, Monochromatic, Water	1.5	U	ug/L	1.5	4.5
2/20/2007 10:13	Site 3/MR3	Metals	Aluminum	44	I	ug/L	12	48
2/20/2007 10:13	Site 3/MR3	Metals	Calcium	322	A	mg/L	0.4	1.6
2/20/2007 10:13	Site 3/MR3	Metals	Chromium	6.2	U	ug/L	6.2	25
2/20/2007 10:13	Site 3/MR3	Metals	Iron	30	I	ug/L	15	60
2/20/2007 10:13	Site 3/MR3	Metals	Magnesium	943	A	mg/L	0.1	0.4
2/20/2007 10:13	Site 3/MR3	Metals	Nickel	6.6	U	ug/L	6.6	26
2/20/2007 10:13	Site 3/MR3	Metals	Zinc	17	I	ug/L	9	36
2/20/2007 10:13	Site 3/MR3	Metals	Arsenic	1.7	I	ug/L	1.5	6
2/20/2007 10:13	Site 3/MR3	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
2/20/2007 10:13	Site 3/MR3	Metals	Copper	2.4	A	ug/L	0.6	2.4
2/20/2007 10:13	Site 3/MR3	Metals	Lead	0.6	U	ug/L	0.6	2.4
2/20/2007 10:13	Site 3/MR3	Metals	Selenium	1.5	U	ug/L	1.5	6
2/20/2007 10:13	Site 3/MR3	Metals	Silver	0.075	U	ug/L	0.075	0.3
2/20/2007 10:13	Site 3/MR3	Nutrients	Ammonia-N	0.019	I	mg N/L	0.01	0.02
2/20/2007 10:13	Site 3/MR3	Nutrients	NO2NO3-N	0.014		mg N/L	0.004	0.01
2/20/2007 10:13	Site 3/MR3	Nutrients	O-Phosphate-P	0.092		mg P/L	0.008	0.02
2/20/2007 10:13	Site 3/MR3	Nutrients	Kjeldahl Nitrogen	0.57		mg N/L	0.16	0.4
2/20/2007 10:13	Site 3/MR3	Nutrients	Total-P	0.12		mg P/L	0.02	0.06
2/20/2007 10:13	Site 3/MR3	Nutrients	TSS	9	I	mg/L	4	16
2/20/2007 10:13	Site 3/MR3	Field Parameters	Dissolved Oxygen	10.53		mg/L		
2/20/2007 10:13	Site 3/MR3	Field Parameters	Sample Depth	0.2		m		
2/20/2007 10:13	Site 3/MR3	Field Parameters	Specific Conductance	39068		umhos/cm		
2/20/2007 10:13	Site 3/MR3	Field Parameters	Temperature	14.97		C		
2/20/2007 10:13	Site 3/MR3	Field Parameters	pH	7.78				
2/20/2007 12:30	Site 4/MR4	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.6		% dry wt		
2/20/2007 12:30	Site 4/MR4	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	8.17		% vol <2mm	0	0.01
2/20/2007 12:30	Site 4/MR4	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	53.8		% vol <2mm	0	0.01
2/20/2007 12:30	Site 4/MR4	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	22		% vol <2mm	0	0.01
2/20/2007 12:30	Site 4/MR4	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	2.85		% vol <2mm	0	0.01
2/20/2007 12:30	Site 4/MR4	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	13.2		% vol <2mm	0	0.01
2/20/2007 12:30	Site 4/MR4	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	4.9		%tot drywt	0	1
2/20/2007 12:30	Site 4/MR4	Metals	Aluminum	2010		mg/Kg	4.9	20
2/20/2007 12:30	Site 4/MR4	Metals	Calcium	3030		mg/Kg	9.8	39
2/20/2007 12:30	Site 4/MR4	Metals	Chromium	5.4		mg/Kg	0.098	0.39
2/20/2007 12:30	Site 4/MR4	Metals	Iron	1680		mg/Kg	2	7.8
2/20/2007 12:30	Site 4/MR4	Metals	Magnesium	1660		mg/Kg	0.78	3.1
2/20/2007 12:30	Site 4/MR4	Metals	Nickel	1.29		mg/Kg	0.15	0.59
2/20/2007 12:30	Site 4/MR4	Metals	Zinc	13.2		mg/Kg	1.3	5.1
2/20/2007 12:30	Site 4/MR4	Metals	Arsenic	0.65	I	mg/Kg	0.2	0.78
2/20/2007 12:30	Site 4/MR4	Metals	Cadmium	0.15	U	mg/Kg	0.15	0.59
2/20/2007 12:30	Site 4/MR4	Metals	Copper	8.5		mg/Kg	0.49	2
2/20/2007 12:30	Site 4/MR4	Metals	Lead	3.5	I	mg/Kg	0.98	3.9
2/20/2007 12:30	Site 4/MR4	Metals	Selenium	0.24	I	mg/Kg	0.15	0.59
2/20/2007 12:30	Site 4/MR4	Metals	Silver	0.066		mg/Kg	0.012	0.049
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	1,2,4-Trichlorobenzene	250	U	ug/kg	250	990
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	1,2-Dichlorobenzene	250	U	ug/kg	250	990
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	1,3-Dichlorobenzene	250	U	ug/kg	250	990

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	1,4-Dichlorobenzene	250	U	ug/kg	250	990
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2,4,6-Trichlorophenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2,4-Dichlorophenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2,4-Dimethylphenol	2500	U	ug/kg	2500	9900
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2,4-Dinitrophenol	500	UJ	ug/kg	500	2000
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2,4-Dinitrotoluene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2,6-Dinitrotoluene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2-Chloronaphthalene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2-Chlorophenol	250	U	ug/kg	250	990
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	2-Nitrophenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	3,3'-Dichlorobenzidine	5000	UJ	ug/kg	5000	20000
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	4,4'-DDD	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	4,4'-DDE	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	4,4'-DDT	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	4-Bromophenyl phenyl ether	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	4-Chloro-3-methylphenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	4-Nitrophenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Acenaphthene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Acenaphthylene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Aldrin	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Anthracene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Benzidine	1800	UJ	ug/kg	1800	7200
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Benzo(a)anthracene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Benzo(a)pyrene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Benzo(b)fluoranthene	120	I	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Benzo(g,h,i)perylene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Benzo(k)fluoranthene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Bis(2-chloroethyl)ether	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	500	U	ug/kg	500	2000
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Butyl benzyl phthalate	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Chrysene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Di-n-butyl phthalate	500	U	ug/kg	500	2000
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Di-n-octyl phthalate	83	UJ	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Dibenzo(a,h)anthracene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Dieldrin	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Diethyl phthalate	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Dimethyl phthalate	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Endosulfan I	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Endosulfan II	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Endosulfan sulfate	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Endrin	83	UJ	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Endrin aldehyde	83	UJ	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Fluoranthene	83	U	ug/kg	83	330

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Fluorene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Heptachlor	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Heptachlor epoxide	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Hexachlorobenzene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Hexachlorobutadiene	250	U	ug/kg	250	990
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Hexachlorocyclopentadiene	83	UJ	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Hexachloroethane	250	U	ug/kg	250	990
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Isophorone	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	N-Nitrosodimethylamine	500	U	ug/kg	500	2000
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	83	UJ	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Naphthalene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Nitrobenzene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Pentachlorophenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Phenanthrene	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Phenol	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	Pyrene	94	I	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	alpha-BHC	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	beta-BHC	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	delta-BHC	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Priority Organic Pollutants	gamma-BHC	83	U	ug/kg	83	330
2/20/2007 12:30	Site 4/MR4	Field Parameters	Dissolved Oxygen	10.23		mg/L		
2/20/2007 12:30	Site 4/MR4	Field Parameters	Specific Conductance	39138		umhos/cm		
2/20/2007 12:30	Site 4/MR4	Field Parameters	Temperature	15.9		C		
2/20/2007 12:30	Site 4/MR4	Field Parameters	pH	7.67				
2/20/2007 12:30	Site 4/MR4	Field Parameters	% Solid	72.6				
2/20/2007 12:30	Site 4/MR4	Field Parameters	Dissolved Oxygen	10.23		mg/L		
2/20/2007 12:30	Site 4/MR4	Field Parameters	Specific Conductance	39138		umhos/cm		
2/20/2007 12:30	Site 4/MR4	Field Parameters	Temperature	15.9		C		
2/20/2007 12:30	Site 4/MR4	Field Parameters	pH	7.67				
2/20/2007 10:22	Site 4/MR4	AGP/LN	Algal Growth Potential-Salinity Adjusted	3	U	mg DryWt/L	3	3
2/20/2007 10:22	Site 4/MR4	Chlorophyll/Grain Size/BOD	Chlorophyll-A, Monochromatic, Water	0.85	U	ug/L	0.85	2.6
2/20/2007 10:22	Site 4/MR4	Chlorophyll/Grain Size/BOD	Phaeophytin-A, Monochromatic, Water	1.5	U	ug/L	1.5	4.5
2/20/2007 10:22	Site 4/MR4	Metals	Aluminum	51		ug/L	8	32
2/20/2007 10:22	Site 4/MR4	Metals	Calcium	314		mg/L	0.04	0.16
2/20/2007 10:22	Site 4/MR4	Metals	Chromium	2.6	U	ug/L	2.6	10
2/20/2007 10:22	Site 4/MR4	Metals	Iron	32	I	ug/L	10	40
2/20/2007 10:22	Site 4/MR4	Metals	Magnesium	962		mg/L	0.1	0.4
2/20/2007 10:22	Site 4/MR4	Metals	Nickel	4	U	ug/L	4	16
2/20/2007 10:22	Site 4/MR4	Metals	Zinc	12	I	ug/L	6	24
2/20/2007 10:22	Site 4/MR4	Metals	Arsenic	1.5	I	ug/L	1.5	6
2/20/2007 10:22	Site 4/MR4	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
2/20/2007 10:22	Site 4/MR4	Metals	Copper	2.2	I	ug/L	0.6	2.4
2/20/2007 10:22	Site 4/MR4	Metals	Lead	0.6	U	ug/L	0.6	2.4
2/20/2007 10:22	Site 4/MR4	Metals	Selenium	1.5	U	ug/L	1.5	6
2/20/2007 10:22	Site 4/MR4	Metals	Silver	0.075	U	ug/L	0.075	0.3
2/20/2007 10:22	Site 4/MR4	Nutrients	Ammonia-N	0.019	I	mg N/L	0.01	0.02

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 10:22	Site 4/MR4	Nutrients	NO2NO3-N	0.013		mg N/L	0.004	0.01
2/20/2007 10:22	Site 4/MR4	Nutrients	O-Phosphate-P	0.099		mg P/L	0.008	0.02
2/20/2007 10:22	Site 4/MR4	Nutrients	Kjeldahl Nitrogen	0.52	A	mg N/L	0.16	0.4
2/20/2007 10:22	Site 4/MR4	Nutrients	Total-P	0.12	A	mg P/L	0.02	0.06
2/20/2007 10:22	Site 4/MR4	Nutrients	TSS	12	I	mg/L	4	16
2/20/2007 10:22	Site 4/MR4	Field Parameters	Dissolved Oxygen	9.78		mg/L		
2/20/2007 10:22	Site 4/MR4	Field Parameters	Sample Depth	0.2		m		
2/20/2007 10:22	Site 4/MR4	Field Parameters	Specific Conductance	39010		umhos/cm		
2/20/2007 10:22	Site 4/MR4	Field Parameters	Temperature	15		C		
2/20/2007 10:22	Site 4/MR4	Field Parameters	pH	7.75				
2/20/2007 11:50	Site 5/MR5	Chlorophyll/Grain Size/BOD	Sediment % Organic	1.5		% dry wt		
2/20/2007 11:50	Site 5/MR5	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.063-0.125mm	8.31		% vol <2mm	0	0.01
2/20/2007 11:50	Site 5/MR5	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.125-0.25 mm	58.9		% vol <2mm	0	0.01
2/20/2007 11:50	Site 5/MR5	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.25-0.5 mm	19		% vol <2mm	0	0.01
2/20/2007 11:50	Site 5/MR5	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, 0.5-2.0 mm	1.49		% vol <2mm	0	0.01
2/20/2007 11:50	Site 5/MR5	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, <0.063 mm	12.3		% vol <2mm	0	0.01
2/20/2007 11:50	Site 5/MR5	Chlorophyll/Grain Size/BOD	Sediment Particle Size, %, >2.0 mm	1	K	%tot drywt	0	1
2/20/2007 11:50	Site 5/MR5	Metals	Aluminum	1140		mg/Kg	4.9	19
2/20/2007 11:50	Site 5/MR5	Metals	Calcium	1840		mg/Kg	9.7	39
2/20/2007 11:50	Site 5/MR5	Metals	Chromium	2.9		mg/Kg	0.097	0.39
2/20/2007 11:50	Site 5/MR5	Metals	Iron	921		mg/Kg	1.9	7.8
2/20/2007 11:50	Site 5/MR5	Metals	Magnesium	932		mg/Kg	0.78	3.1
2/20/2007 11:50	Site 5/MR5	Metals	Nickel	0.73		mg/Kg	0.15	0.58
2/20/2007 11:50	Site 5/MR5	Metals	Zinc	6.7		mg/Kg	1.3	5.1
2/20/2007 11:50	Site 5/MR5	Metals	Arsenic	0.45	I	mg/Kg	0.19	0.78
2/20/2007 11:50	Site 5/MR5	Metals	Cadmium	0.15	U	mg/Kg	0.15	0.58
2/20/2007 11:50	Site 5/MR5	Metals	Copper	4		mg/Kg	0.49	1.9
2/20/2007 11:50	Site 5/MR5	Metals	Lead	1.9	I	mg/Kg	0.97	3.9
2/20/2007 11:50	Site 5/MR5	Metals	Selenium	0.15	U	mg/Kg	0.15	0.58
2/20/2007 11:50	Site 5/MR5	Metals	Silver	0.028	I	mg/Kg	0.012	0.049
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	1,2,4-Trichlorobenzene	250	U	ug/kg	250	980
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	1,2-Dichlorobenzene	250	U	ug/kg	250	980
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	1,3-Dichlorobenzene	250	U	ug/kg	250	980
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	1,4-Dichlorobenzene	250	U	ug/kg	250	980
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2,4,6-Trichlorophenol	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2,4-Dichlorophenol	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2,4-Dimethylphenol	2500	U	ug/kg	2500	9800
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2,4-Dinitrophenol	490	UJ	ug/kg	490	2000
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2,4-Dinitrotoluene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2,6-Dinitrotoluene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2-Chloronaphthalene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2-Chlorophenol	250	U	ug/kg	250	980
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	2-Nitrophenol	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	3,3'-Dichlorobenzidine	4900	UJ	ug/kg	4900	20000
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	4,4'-DDD	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	4,4'-DDE	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	4,4'-DDT	82	U	ug/kg	82	330

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	4-Bromophenyl phenyl ether	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	4-Chloro-3-methylphenol	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	4-Nitrophenol	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Acenaphthene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Acenaphthylene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Aldrin	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Anthracene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Azobenzene/1,2-Diphenylhydrazine	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Benzidine	1800	UJ	ug/kg	1800	7100
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Benzo(a)anthracene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Benzo(a)pyrene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Benzo(b)fluoranthene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Benzo(g,h,i)perylene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Benzo(k)fluoranthene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Bis(2-chloroethyl)ether	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	490	U	ug/kg	490	2000
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Butyl benzyl phthalate	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Chrysene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Di-n-butyl phthalate	490	U	ug/kg	490	2000
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Di-n-octyl phthalate	82	UJ	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Dibenzo(a,h)anthracene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Dieldrin	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Diethyl phthalate	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Dimethyl phthalate	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Endosulfan I	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Endosulfan II	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Endosulfan sulfate	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Endrin	82	UJ	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Endrin aldehyde	82	UJ	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Fluoranthene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Fluorene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Heptachlor	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Heptachlor epoxide	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Hexachlorobenzene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Hexachlorobutadiene	250	U	ug/kg	250	980
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Hexachlorocyclopentadiene	82	UJ	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Hexachloroethane	250	U	ug/kg	250	980
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Isophorone	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	N-Nitrosodimethylamine	490	U	ug/kg	490	2000
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	82	UJ	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Naphthalene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Nitrobenzene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Pentachlorophenol	82	U	ug/kg	82	330

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Phenanthrene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Phenol	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	Pyrene	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	alpha-BHC	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	beta-BHC	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	delta-BHC	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Priority Organic Pollutants	gamma-BHC	82	U	ug/kg	82	330
2/20/2007 11:50	Site 5/MR5	Field Parameters	Dissolved Oxygen	9.8		mg/L		
2/20/2007 11:50	Site 5/MR5	Field Parameters	Specific Conductance	39110		umhos/cm		
2/20/2007 11:50	Site 5/MR5	Field Parameters	Temperature	15.54		C		
2/20/2007 11:50	Site 5/MR5	Field Parameters	pH	7.75				
2/20/2007 11:50	Site 5/MR5	Field Parameters	% Solid	73.3				
2/20/2007 9:55	Site 5/MR5	AGP/LN	Algal Growth Potential-Salinity Adjusted	3.21	A	mg DryWt/L	3	3
2/20/2007 9:55	Site 5/MR5	Chlorophyll/Grain Size/BOD	Chlorophyll-A, Monochromatic, Water	0.85	U	ug/L	0.85	2.6
2/20/2007 9:55	Site 5/MR5	Chlorophyll/Grain Size/BOD	Phaeophytin-A, Monochromatic, Water	1.5	U	ug/L	1.5	4.5
2/20/2007 9:55	Site 5/MR5	Metals	Aluminum	122		ug/L	8	32
2/20/2007 9:55	Site 5/MR5	Metals	Calcium	308		mg/L	0.04	0.16
2/20/2007 9:55	Site 5/MR5	Metals	Chromium	2.2	U	ug/L	2.2	8.8
2/20/2007 9:55	Site 5/MR5	Metals	Iron	90		ug/L	10	40
2/20/2007 9:55	Site 5/MR5	Metals	Magnesium	951		mg/L	0.1	0.4
2/20/2007 9:55	Site 5/MR5	Metals	Nickel	5.2	U	ug/L	5.2	21
2/20/2007 9:55	Site 5/MR5	Metals	Zinc	12	I	ug/L	6	24
2/20/2007 9:55	Site 5/MR5	Metals	Arsenic	1.5	U	ug/L	1.5	6
2/20/2007 9:55	Site 5/MR5	Metals	Cadmium	0.15	U	ug/L	0.15	0.6
2/20/2007 9:55	Site 5/MR5	Metals	Copper	2.9		ug/L	0.6	2.4
2/20/2007 9:55	Site 5/MR5	Metals	Lead	0.6	U	ug/L	0.6	2.4
2/20/2007 9:55	Site 5/MR5	Metals	Selenium	1.5	U	ug/L	1.5	6
2/20/2007 9:55	Site 5/MR5	Metals	Silver	0.075	U	ug/L	0.075	0.3
2/20/2007 9:55	Site 5/MR5	Nutrients	Ammonia-N	0.021		mg N/L	0.01	0.02
2/20/2007 9:55	Site 5/MR5	Nutrients	NO2NO3-N	0.02		mg N/L	0.004	0.01
2/20/2007 9:55	Site 5/MR5	Nutrients	O-Phosphate-P	0.093		mg P/L	0.008	0.02
2/20/2007 9:55	Site 5/MR5	Nutrients	Kjeldahl Nitrogen	0.56		mg N/L	0.16	0.4
2/20/2007 9:55	Site 5/MR5	Nutrients	Total-P	0.12		mg P/L	0.02	0.06
2/20/2007 9:55	Site 5/MR5	Nutrients	TSS	25		mg/L	4	16
2/20/2007 9:55	Site 5/MR5	Field Parameters	Dissolved Oxygen	9.8		mg/L		
2/20/2007 9:55	Site 5/MR5	Field Parameters	Sample Depth	0.2		m		
2/20/2007 9:55	Site 5/MR5	Field Parameters	Specific Conductance	39115		umhos/cm		
2/20/2007 9:55	Site 5/MR5	Field Parameters	Temperature	14.92		C		
2/20/2007 9:55	Site 5/MR5	Field Parameters	pH	7.59				
2/19/2007 10:00	TRIP BLANK	Priority Organic Pollutants	Bromodichloromethane	0.2	U	ug/L	0.2	1
2/19/2007 10:00	TRIP BLANK	Priority Organic Pollutants	Bromoform	0.5	U	ug/L	0.5	2
2/19/2007 10:00	TRIP BLANK	Priority Organic Pollutants	Chloroform	0.2	U	ug/L	0.2	1
2/19/2007 10:00	TRIP BLANK	Priority Organic Pollutants	Dibromochloromethane	0.2	U	ug/L	0.2	1
2/19/2007 10:00	TRIP BLANK	Field Parameters	Specific Conductance			umhos/cm		
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Aluminum	4	U	ug/L	4	16
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Calcium	0.02	U	mg/L	0.02	0.08
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Chromium	0.3	U	ug/L	0.3	1.2
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Iron	5	U	ug/L	5	20

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Magnesium	0.005	U	mg/L	0.005	0.02
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Nickel	1	U	ug/L	1	4
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Zinc	3	U	ug/L	3	12
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Arsenic	0.5	U	ug/L	0.5	2
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Copper	0.2	U	ug/L	0.2	0.8
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Lead	0.2	U	ug/L	0.2	0.8
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Selenium	0.5	U	ug/L	0.5	2
2/19/2007 9:35	EQUIPMENT BLANK	Metals	Silver	0.025	U	ug/L	0.025	0.1
2/19/2007 9:35	EQUIPMENT BLANK	Nutrients	Dissolved Organic Carbon	1	U	mg C/L	1	5
2/19/2007 9:35	EQUIPMENT BLANK	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
2/19/2007 9:35	EQUIPMENT BLANK	Nutrients	NO2NO3-N	0.005	I	mg N/L	0.004	0.01
2/19/2007 9:35	EQUIPMENT BLANK	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
2/19/2007 9:35	EQUIPMENT BLANK	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
2/19/2007 9:35	EQUIPMENT BLANK	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06
2/19/2007 9:35	EQUIPMENT BLANK	Nutrients	TSS	4	U	mg/L	4	16
2/19/2007 9:35	EQUIPMENT BLANK	Overflow	Oil and Grease	4.1	I	mg/L		
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Alachlor	0.57	UJ	ug/L	0.57	2.3
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Ametryn	0.048	U	ug/L	0.048	0.19
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Atrazine	0.048	U	ug/L	0.048	0.19
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Azinphos Methyl	0.19	UJ	ug/L	0.19	0.76
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Bromacil	0.19	U	ug/L	0.19	0.76
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Butylate	0.19	UJ	ug/L	0.19	0.76
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Chlorpyrifos Ethyl	0.048	U	ug/L	0.048	0.19
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Chlorpyrifos Methyl	0.095	U	ug/L	0.095	0.38
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Diazinon	0.048	UJ	ug/L	0.048	0.19
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Ethion	0.048	U	ug/L	0.048	0.19
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Ethoprop	0.095	U	ug/L	0.095	0.38
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Fenamiphos	0.19	U	ug/L	0.19	0.76
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Fonofos	0.095	U	ug/L	0.095	0.38
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Hexazinone	0.095	U	ug/L	0.095	0.38
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Malathion	0.14	U	ug/L	0.14	0.56
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Metalaxyl	0.24	UJ	ug/L	0.24	0.96
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Metolachlor	0.48	U	ug/L	0.48	1.9
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Metribuzin	0.095	U	ug/L	0.095	0.38
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Mevinphos	0.19	UJ	ug/L	0.19	0.76
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Naled	0.76	U	ug/L	0.76	3
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Norflurazon	0.14	U	ug/L	0.14	0.56
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Parathion Ethyl	0.14	U	ug/L	0.14	0.56
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Parathion Methyl	0.095	UJ	ug/L	0.095	0.38
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Phorate	0.048	U	ug/L	0.048	0.19
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Prometryn	0.14	U	ug/L	0.14	0.56
2/19/2007 9:35	EQUIPMENT BLANK	Pesticides	Simazine	0.048	U	ug/L	0.048	0.19
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	1,2-Dichlorobenzene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	1,3-Dichlorobenzene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	1,4-Dichlorobenzene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.94	U	ug/L	0.94	3.8

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dichlorophenol	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dimethylphenol	47	U	ug/L	47	190
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dinitrophenol	14	UJ	ug/L	14	57
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dinitrotoluene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2,6-Dinitrotoluene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2-Chloronaphthalene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2-Chlorophenol	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8	UJ	ug/L	2.8	11
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	2-Nitrophenol	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38	U	ug/L	38	150
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	4,4'-DDD	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	4,4'-DDE	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	4,4'-DDT	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	U	ug/L	1.9	7.5
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	4-Nitrophenol	14	U	ug/L	14	57
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Acenaphthene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Acenaphthylene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Aldrin	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Anthracene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Benzidine	94	U	ug/L	94	380
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(a)anthracene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(a)pyrene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(b)fluoranthene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(k)fluoranthene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.8	U	ug/L	2.8	11
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	14	U	ug/L	14	57
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Butyl benzyl phthalate	4.7	U	ug/L	4.7	19
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Chrysene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Di-n-butyl phthalate	4.7	U	ug/L	4.7	19
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Di-n-octyl phthalate	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Dieldrin	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Diethyl phthalate	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Dimethyl phthalate	47	U	ug/L	47	190
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Endosulfan I	3.8	U	ug/L	3.8	15
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Endosulfan II	3.8	U	ug/L	3.8	15
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Endosulfan sulfate	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Endrin	1.4	UJ	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Endrin aldehyde	3.8	U	ug/L	3.8	15
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Fluoranthene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Fluorene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Heptachlor	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Heptachlor epoxide	1.4	U	ug/L	1.4	5.7

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachlorobenzene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachlorobutadiene	2.8	U	ug/L	2.8	11
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.8	U	ug/L	2.8	11
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachloroethane	2.8	U	ug/L	2.8	11
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Isophorone	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	U	ug/L	1.9	7.5
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	U	ug/L	1.9	7.5
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.8	U	ug/L	2.8	11
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Naphthalene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Nitrobenzene	1.9	U	ug/L	1.9	7.5
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Pentachlorophenol	2.8	U	ug/L	2.8	11
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Phenanthrene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Phenol	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Pyrene	0.94	U	ug/L	0.94	3.8
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	alpha-BHC	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	beta-BHC	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	delta-BHC	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	gamma-BHC	1.4	U	ug/L	1.4	5.7
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Bromodichloromethane	0.2	U	ug/L	0.2	1
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Bromoform	0.5	U	ug/L	0.5	2
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Chloroform	0.2	U	ug/L	0.2	1
2/19/2007 9:35	EQUIPMENT BLANK	Priority Organic Pollutants	Dibromochloromethane	0.2	U	ug/L	0.2	1
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Aluminum	4	U	ug/L	4	16
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Calcium	0.02	U	mg/L	0.02	0.08
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Chromium	0.3	U	ug/L	0.3	1.2
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Iron	5	U	ug/L	5	20
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Magnesium	0.005	U	mg/L	0.005	0.02
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Nickel	1	U	ug/L	1	4
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Zinc	3	U	ug/L	3	12
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Arsenic	0.5	U	ug/L	0.5	2
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Copper	0.2	U	ug/L	0.2	0.8
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Lead	0.2	U	ug/L	0.2	0.8
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Selenium	0.5	U	ug/L	0.5	2
2/20/2007 11:45	EQUIPMENT BLANK	Metals	Silver	0.025	U	ug/L	0.025	0.1
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Alachlor	0.58	UJ	ug/L	0.58	2.3
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Ametryn	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Atrazine	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Azinphos Methyl	0.19	UJ	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Bromacil	0.19	U	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Butylate	0.19	UJ	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Chlorpyrifos Ethyl	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Chlorpyrifos Methyl	0.097	U	ug/L	0.097	0.39
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Diazinon	0.049	UJ	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Ethion	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Ethoprop	0.097	U	ug/L	0.097	0.39
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Fenamiphos	0.19	U	ug/L	0.19	0.76

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Fonofos	0.097	U	ug/L	0.097	0.39
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Hexazinone	0.097	U	ug/L	0.097	0.39
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Metalaxyl	0.24	UJ	ug/L	0.24	0.96
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Metolachlor	0.49	U	ug/L	0.49	2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Metribuzin	0.097	U	ug/L	0.097	0.39
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Mevinphos	0.19	UJ	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Naled	0.78	U	ug/L	0.78	3.1
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Parathion Methyl	0.097	UJ	ug/L	0.097	0.39
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Phorate	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Simazine	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Aldrin	0.0097	U	ug/L	0.0097	0.039
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Alpha-BHC	0.0097	U	ug/L	0.0097	0.039
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Beta-BHC	0.0097	U	ug/L	0.0097	0.039
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Chlordane	0.19	U	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	DDD-p,p'	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	DDE-p,p'	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	DDT-p,p'	0.029	U	ug/L	0.029	0.12
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Delta-BHC	0.0097	U	ug/L	0.0097	0.039
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Dieldrin	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Endosulfan I	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Endosulfan II	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Endosulfan Sulfate	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Endrin	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Endrin Aldehyde	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Gamma-BHC	0.0097	U	ug/L	0.0097	0.039
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Heptachlor	0.0097	U	ug/L	0.0097	0.039
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Heptachlor Epoxide	0.019	U	ug/L	0.019	0.076
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Methoxychlor	0.049	U	ug/L	0.049	0.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	PCB-1016	0.19	U	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	PCB-1221	0.19	U	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	PCB-1232	0.19	U	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	PCB-1242	0.29	U	ug/L	0.29	1.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	PCB-1248	0.19	U	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	PCB-1254	0.29	U	ug/L	0.29	1.2
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	PCB-1260	0.19	U	ug/L	0.19	0.76
2/20/2007 11:45	EQUIPMENT BLANK	Pesticides	Toxaphene	0.73	U	ug/L	0.73	2.9
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	1,2-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	1,3-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	1,4-Dichlorobenzene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dichlorophenol	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dimethylphenol	48	U	ug/L	48	190
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dinitrophenol	14	UJ	ug/L	14	58

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2,4-Dinitrotoluene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2,6-Dinitrotoluene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2-Chloronaphthalene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2-Chlorophenol	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	UJ	ug/L	2.9	12
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	2-Nitrophenol	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	3,3'-Dichlorobenzidine	38	U	ug/L	38	150
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	4,4'-DDD	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	4,4'-DDE	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	4,4'-DDT	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	U	ug/L	1.9	7.7
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	4-Nitrophenol	14	U	ug/L	14	58
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Acenaphthene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Acenaphthylene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Aldrin	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Anthracene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Benzidine	96	U	ug/L	96	380
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(a)anthracene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(a)pyrene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(b)fluoranthene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Benzo(k)fluoranthene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	U	ug/L	2.9	12
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	14	U	ug/L	14	58
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Butyl benzyl phthalate	4.8	U	ug/L	4.8	19
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Chrysene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Di-n-butyl phthalate	4.8	U	ug/L	4.8	19
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Di-n-octyl phthalate	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Dieldrin	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Diethyl phthalate	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Dimethyl phthalate	48	U	ug/L	48	190
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Endosulfan I	3.8	U	ug/L	3.8	15
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Endosulfan II	3.8	U	ug/L	3.8	15
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Endosulfan sulfate	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Endrin	1.4	UJ	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Endrin aldehyde	3.8	U	ug/L	3.8	15
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Fluoranthene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Fluorene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Heptachlor	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Heptachlor epoxide	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachlorobenzene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachlorobutadiene	2.9	U	ug/L	2.9	12
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	U	ug/L	2.9	12

Date	Sampled Station	SCH_Group	Name	Value	Qualifier	Units	MDL	PQL
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Hexachloroethane	2.9	U	ug/L	2.9	12
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Isophorone	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	U	ug/L	1.9	7.7
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	U	ug/L	1.9	7.7
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9 U		ug/L	2.9	12
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Naphthalene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Nitrobenzene	1.9	U	ug/L	1.9	7.7
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Pentachlorophenol	2.9	U	ug/L	2.9	12
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Phenanthrene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Phenol	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	Pyrene	0.96	U	ug/L	0.96	3.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	alpha-BHC	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	beta-BHC	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	delta-BHC	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Priority Organic Pollutants	gamma-BHC	1.4	U	ug/L	1.4	5.8
2/20/2007 11:45	EQUIPMENT BLANK	Field Parameters	Dissolved Oxygen			mg/L		
2/20/2007 11:08	FIELD BLANK	Metals	Aluminum	4	U	ug/L	4	16
2/20/2007 11:08	FIELD BLANK	Metals	Calcium	0.02	U	mg/L	0.02	0.08
2/20/2007 11:08	FIELD BLANK	Metals	Chromium	0.3	U	ug/L	0.3	1.2
2/20/2007 11:08	FIELD BLANK	Metals	Iron	5	U	ug/L	5	20
2/20/2007 11:08	FIELD BLANK	Metals	Magnesium	0.005	U	mg/L	0.005	0.02
2/20/2007 11:08	FIELD BLANK	Metals	Nickel	1	U	ug/L	1	4
2/20/2007 11:08	FIELD BLANK	Metals	Zinc	3	U	ug/L	3	12
2/20/2007 11:08	FIELD BLANK	Metals	Arsenic	0.5	U	ug/L	0.5	2
2/20/2007 11:08	FIELD BLANK	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
2/20/2007 11:08	FIELD BLANK	Metals	Copper	1	U	ug/L	1	4
2/20/2007 11:08	FIELD BLANK	Metals	Lead	0.2	U	ug/L	0.2	0.8
2/20/2007 11:08	FIELD BLANK	Metals	Selenium	0.5	U	ug/L	0.5	2
2/20/2007 11:08	FIELD BLANK	Metals	Silver	0.025	U	ug/L	0.025	0.1
2/20/2007 11:08	FIELD BLANK	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
2/20/2007 11:08	FIELD BLANK	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
2/20/2007 11:08	FIELD BLANK	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
2/20/2007 11:08	FIELD BLANK	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
2/20/2007 11:08	FIELD BLANK	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.2 U		mg/L	0.2	2
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Metals	Iron	5	U	ug/L	5	20
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Metals	Nickel	1	U	ug/L	1	4
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Metals	Zinc	3	U	ug/L	3	12
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Metals	Copper	1.7		ug/L	0.2	0.8
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Nutrients	Dissolved Organic Carbon	1	U	mg C/L	1	5
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Nutrients	Total Organic Carbon	1	U	mg C/L	1	5
2/19/2007 8:00	COMPOSITE SAMPLER EQUIP BLANK	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06

Appendix 5

Typical Values for Selected Parameters in Florida Waters

Percentile Distribution (690 stations)

Adapted from Joe Hand, FDER, personal communication, 1991
(data was collected between 1980 and 1989)

Site 1

Percentile Distribution

Parameter	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%	Measured
ESTUARIES (690 stations)												
Phytoplankton Chlorophyll *a*	2.14	3.28	4.49	5.13	6	6.93	7.94	9.6	12.4	17.6	22.2	-
Dredge Diversity	1.34	1.53	1.91	2.28	2.56	2.9	**3.15**	3.59	4.01	4.53	4.98	**3.26**
Dredge Taxa Richness	4	6	9	11	15	18.5	25	35	**41**	62	90	**53**
TKN	0.26	0.34	0.42	0.5	0.59	0.69	0.76	0.82	0.95	1.3	**1.49**	**1.6**
NH3+NH4	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.13	0.22	**0.28**	**0.72**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.17	**0.23**	**0.26**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	0.14	0.17	0.23	0.43	**0.59**	**0.38**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	0.09	0.12	**0.21**	0.44	**0.29**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	-

Site 2

Percentile Distribution

Parameter	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%	Measured
ESTUARIES (690 stations)												
Phytoplankton Chlorophyll *a*	2.14	3.28	4.49	5.13	6	6.93	7.94	9.6	12.4	17.6	22.2	-
Dredge Diversity	1.34	1.53	1.91	2.28	2.56	2.9	3.15	**3.59**	4.01	4.53	4.98	**3.89**
Dredge Taxa Richness	4	6	9	11	15	18.5	**25**	35	41	62	90	**34**
TKN	0.26	0.34	0.42	0.5	0.59	0.69	0.76	0.82	0.95	**1.3**	1.49	**1.3**
NH3+NH4	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.13	0.22	**0.28**	**0.57**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	**0.08**	0.17	0.23	**0.13**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	0.14	0.17	**0.23**	0.43	0.59	**0.3**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	0.09	0.12	**0.21**	0.44	**0.22**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	-

Site 3

Percentile Distribution

Parameter	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%	Measured
ESTUARIES (690 stations)												
Phytoplankton Chlorophyll *a*	2.14	3.28	4.49	5.13	6	6.93	7.94	9.6	12.4	17.6	22.2	-
Dredge Diversity	1.34	1.53	1.91	2.28	2.56	**2.9**	3.15	3.59	4.01	4.53	4.98	**3.07**
Dredge Taxa Richness	4	6	9	11	15	18.5	25	35	**41**	62	90	**43**
TKN	0.26	0.34	0.42	**0.5**	0.59	0.69	0.76	0.82	0.95	1.3	1.49	**0.57**
NH3+NH4	**0.01**	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.13	0.22	0.28	**0.019 I**
NO2-NO3	0	0	0.01	0.01	**0.01**	0.02	0.03	0.05	0.08	0.17	0.23	**0.014**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	**0.11**	0.14	0.17	0.23	0.43	0.59	**0.12**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	**0.09**	0.12	0.21	0.44	**0.092**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	-

I - Value reported is < the minimum quantitation limit, and ≥ the minimum detection limit

Appendix 5 (continued)

Site 4

Percentile Distribution

Parameter	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%	Measured
ESTUARIES (690 stations)												
Phytoplankton Chlorophyll *a*	2.14	3.28	4.49	5.13	6	6.93	7.94	9.6	12.4	17.6	22.2	-
Dredge Diversity	1.34	1.53	1.91	2.28	2.56	2.9	**3.15**	3.59	4.01	4.53	4.98	**3.48**
Dredge Taxa Richness	4	6	9	11	15	18.5	25	35	**41**	62	90	**56**
TKN	0.26	0.34	0.42	**0.5**	0.59	0.69	0.76	0.82	0.95	1.3	1.49	**0.52 A**
NH3+NH4	**0.01**	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.13	0.22	0.28	**0.019 I**
NO2-NO3	0	0	0.01	0.01	**0.01**	0.02	0.03	0.05	0.08	0.17	0.23	**0.013**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	**0.11**	0.14	0.17	0.23	0.43	0.59	**0.12 A**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	**0.09**	0.12	0.21	0.44	**0.099**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	-

Site 5

Percentile Distribution

Parameter	5%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%	Measured
ESTUARIES (690 stations)												
Phytoplankton Chlorophyll *a*	2.14	3.28	4.49	5.13	6	6.93	7.94	9.6	12.4	17.6	22.2	-
Dredge Diversity	1.34	1.53	1.91	2.28	2.56	**2.9**	3.15	3.59	4.01	4.53	4.98	**3.07**
Dredge Taxa Richness	4	6	9	11	15	18.5	25	35	**41**	62	90	**45**
TKN	0.26	0.34	0.42	**0.5**	0.59	0.69	0.76	0.82	0.95	1.3	1.49	**0.56**
NH3+NH4	0.01	**0.02**	0.03	0.04	0.05	0.06	0.08	0.09	0.13	0.22	0.28	**0.021**
NO2-NO3	0	0	0.01	0.01	0.01	**0.02**	0.03	0.05	0.08	0.17	0.23	**0.02**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	**0.11**	0.14	0.17	0.23	0.43	0.59	**0.12**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	**0.09**	0.12	0.21	0.44	**0.093**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	-

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

I - Value reported is < the minimum quantitation limit, and ≥ the minimum detection limit

Appendix 6

Additional physical, chemical, toxicological and microbiological results

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queen Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14844
Sample Location: Outfall D001 – City of Bradenton
Date Received: 2/19/2007 **Date Collected:** 2/19/2007
Time Received: 2:07:31 PM **Time Collected:**
Submitted By: DEP **Division:** Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection. Contact Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	<1	B, T	#/100	6	2:25:00 PM	2/19/2007	Roy	SM 9222 D 20th Ed

Dept. of Environmental Protection

MAR 05 2007

Southwest District

Any deviations from, additions to, or exclusions from, the test method are noted here:

Approved by: Dawn Jaspard
Chief Environmental Scientist

Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client Address		
	City of Tampa Wastewater Department 2700 Maritime Blvd. Tampa, FL 33605	County Stormwater Dept. 601 E. Kennedy Blvd. 18th Floor Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queer Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14846
Sample Location: City of Brandenton WWTP - MR1
Date Received: 2/20/2007 **Date Collected:** 2/20/2007
Time Received: 1:18:33 PM **Time Collected:** 10:51:00 AM
Submitted By: DEP **Division:** Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection. Contact Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	15	B, I	#/100	6	2:25:00 PM	2/20/2007	Roy	SM 9222 D 20th Ed

Any deviations from, additions to, or exclusions from, the test method are noted here:

Approved by: Dawn Jaspard
Chief Environmental Scientist

Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client	City of Tampa	County Stormwater Dept.
Address	Wastewater Department 2700 Maritime Blvd. Tampa, FL 33605	601 E. Kennedy Blvd. 18th Floor Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queen Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14847
Sample Location: City of Brandenton WWTP - MR2
Date Received: 2/20/2007 **Date Collected:** 2/20/2007
Time Received: 1:18:33 PM **Time Collected:** 10:45:00 AM
Submitted By: DEP **Division:** Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection. Contact Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	19	B, I	#/100	6	2:25:00 PM	2/20/2007	Roy	SM 9222 D 20th Ed

Any deviations from, additions to, or exclusions from, the test method are noted here:

Approved by: Dawn Jaspard
Chief Environmental Scientist
4.41.41

Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client	City of Tampa	County Stormwater Dept.
Address	Wastewater Department 2700 Maritime Blvd. Tampa, FL 33605	601 E. Kennedy Blvd. 18th Floor Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queen Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14848
Sample Location: City of Brandenton WWTP - MR3
Date Received: 2/20/2007 **Date Collected:** 2/20/2007
Time Received: 1:18:33 PM **Time Collected:** 10:13:00 AM
Submitted By: DEP **Division:** Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection. Contact Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	<1	B, T	#/100	8	2:25:00 PM	2/20/2007	Roy	SM 9222 D 20th Ed

Any deviations from, additions to, or exclusions from, the test method are noted here.

Approved by: Dawn Jaspard
Chief Environmental Scientist
Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client	City of Tampa	County Stormwater Dept.
Address	Wastewater Department 2700 Maritime Blvd. Tampa, FL 33605	601 E. Kennedy Blvd. 18th Floor Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queen Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14849
Sample Location: City of Brandenton WWTP - MR4
Date Received: 2/20/2007 **Date Collected:** 2/20/2007
Time Received: 1:18:33 PM **Time Collected:** 10:22:00 AM
Submitted By: DEP **Division:** Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection. Contact Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	10	B, I	#/100	0	2:25:00 PM	2/20/2007	Roy	SM 9222 D 20th Ed

Any deviations from, additions to, or exclusions from, the test method are noted here:

Approved by: Dawn Jaspard
Chief Environmental Scientist

Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client	City of Tampa	County Stormwater Dept.
Address	Wastewater Department 2700 Maritime Blvd. Tampa, FL 33605	601 E. Kennedy Blvd. 18th Floor Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queen Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14850
Sample Location: City of Brandenton WWTP - MR5
Date Received: 2/20/2007 **Date Collected:** 2/20/2007
Time Received: 1:18:33 PM **Time Collected:** 9:55:00 AM
Submitted By: DEP **Division:** Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection. Contact Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	<1	B, T	#/100	6	2:25:00 PM	2/20/2007	Roy	SM 9222 D 20th Ed

Any deviations from, additions to, or exclusions from, the test method are noted here:

Approved by: Dawn Jaspard
Chief Environmental Scientist
2/21/11

Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client City of Tampa
Address Wastewater Department
2700 Maritime Blvd.
Tampa, FL 33605

County Stormwater Dept.
601 E. Kennedy Blvd.
18th Floor
Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queen Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14845
Sample Location: Equipment Blank
Date Received: 2/19/2007
Time Received: 2:08:22 PM
Submitted By: DEP
Date Collected: 2/19/2007
Time Collected:
Division: Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection. Contact Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	<1	B, T	#/100	6	2:25:00 PM	2/19/2007	Roy	SM 8222 D 20th Ed

Any deviations from, additions to, or exclusions from, the test method are noted here:

Approved by: Dawn Jaspard
Chief Environmental Scientist

Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client	City of Tampa	County Stormwater Dept.
Address	Wastewater Department 2700 Maritime Blvd. Tampa, FL 33605	601 E. Kennedy Blvd. 18th Floor Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

Environmental Protection Commission

Report of Laboratory Analysis

NELAC Accredited*

#E44057

Dawn Jaspard
3629 Queen Palm Dr
Tampa Florida 33619 627-2600 x1032

(813) 627-2600
Fax (813) 272-5157

Lab ID Number: 14851
Sample Location: City of Brandenton WWTP - Fld Blk
Date Received: 2/20/2007 **Date Collected:** 2/20/2007
Time Received: 1:18:33 PM **Time Collected:** 9:55:00 AM
Submitted By: DEP **Division:** Outside Agency

Please note: All values for which the EPC laboratory is certified are calculated on a wet basis.
The EPC laboratory uses qualifiers as defined by the Florida Department of Environmental Protection Contact: Dawn Jaspard for a list of qualifier definitions.
Analysis time is included for all parameters with hold times of less than 72 hours.

Parameter	Value		Units	MDL	Analysis Time	Analysis Date	Analyst	Method
Fecal Coliform *	<1	B, T	#/100	8	2:25:00 PM	2/20/2007	Roy	SM 9222 D 20th Ed

Any deviations from, additions to, or exclusions from, the test method are noted here:

Approved by: Dawn Jaspard
Chief Environmental Scientist

Date Issued: Tuesday, February 27, 2007 Page 1 of 1

Client	City of Tampa	County Stormwater Dept.
Address	Wastewater Department 2700 Maritime Blvd. Tampa, FL 33605	601 E. Kennedy Blvd. 18th Floor Tampa, FL 33602

Contact Dawn Jaspard to obtain a statement of uncertainty.

FDEP Biology Laboratory - Chronic Screen Bench Sheet

Pimphales promelas or Menidia beryllina

Bradenton MF 3-20-07

Facility: City of ~~Bradenton~~ Water Reclamation Facility
Address: 1810 First Street West
County: Manatee
NPDES Permit #: FL 0021369
Contact/District: Lori Pillsbury / Southwest

Diluent/ Batch: ~~20% DMW~~ MHW / 21607 Test Days Used: 0-1
~~20% DMW~~ MHW / 2/20/07 Test Days Used: 2-7

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: 2-20-07 Time: 1230
End Date: 2.27.07 Time: 11:00

Organism age : <24hrs ~~days~~ P.Promelas batch 2.20.07
Feeding Prior to Test and Daily
Artemia Lot # : GSL-536-90
Chamber size : 1000 ml
Test volume : 500 ml

Artemia Batch #		Day 3	17-07
Day 0	14-07	Day 4	18-07
Day 1	15-07	Day 5	19-07
Day 2	16-07	Day 6	20-07

LIMS entry: 3/12/07 MF Verified by: JD 3.14.07

Sample Received	Lab Sample #	LIMS Job #	LIMS Sample #	Collection Date/Time	Received Date/Time
Test Day 0	1	TLH-2007-02-20-~~06~~	986421	2-19-07 0900	2-20-07 0945
Test Day 2	2	TLH-2007-02-22-59	987644	2-21-07 0900	2-22-07 1059
Test Day 4	3	TLH-2007-02-26-03	988034	2/24/07 0900	2/26/07 1030

23 MF 3-20-07

Water Quality Parameters	Field Chlorine (mg/L)			Lab Chlorine (mg/L)			Alkalinity (mg/L as $CaCO_3$)			Hardness (mg/L as $CaCO_3$)		
Lab Sample #:	1	2	3	1	2	3	1	2	3	1	2	3
Sample:	<0.02	Not measured	Not measured	<0.03	<0.03	<0.03	140	142	135	276	282	278
Diluent/Control:				<0.03	<0.03	<0.03	78	81	81	106	106	106
Method:	Hach	—	—	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Hach
Measured by:	L. Pillsbury	—	—	PPV	~~PPV~~	JD	BA	~~PPV~~ MF	MF	BA	~~PPV~~	PPV by BA
Verified by:	MF	MF	MF	MF	MF	MF	MF	~~PPV~~ MF	BA	MF	BA	BA

	Conductivity (circle one) (umhos-cm) mmhos-cm)			Ammonia (mg/L)			Salinity (ppth)		
Lab Sample#:	1	2	3	1	2	3	1	2	3
Sample:	1190	1182	1202	1.14	1.18	1.77	—	—	—
Diluent/Control:	328	337	322	<0.017	<0.017	<0.017	—	—	—
Method:	Mettler	Mettler	Mettler	Denver	Denver	Denver	Mettler	Mettler	Mettler
Measured by:	MF	JD	JD	MF	MF	MF	—	—	—
Verified by:	~~MF~~	MF	MF	~~PPV~~	~~PPV~~	BA	—	—	—

Concentrations spare MF 3-20-7

Temperature Shipped ≤6°C (all samples) - yes MF 3-20-07
Holding Time ≤36 hours - yes - MF 3-20-07
Light Intensity : 50 - 100 ft. candles
Photoperiod : 16 light 8 dark
Temperature Range °C:
Incubator # 2 min. 25.5 max. 26.2 mean 25.8
Water bath # N/A min. ____ max. ____ mean ____
Room B246 min. 24.5 max. 25.9 mean 25.2

Investigators' signatures
Marshall Faircloth
Patsy V. Craig
Bruce Neidig
James Davis

Nicole Wallen MF
REVIEWER

Statistics		
Control %cv:	5.94	survival
Dunnetts PMSD:	—	
Survival NOEC: MF 3-14-07	<100%	
Survival LOEC:	100%	
Growth NOEC:	—	
Growth LOEC:	—	

Note: Concentrations above the NOEC for ~~MF~~ survival are excluded from the hypothesis test for growth effects. MF 3-5-07

Comments: Bradenton sample
Initial D.O at 10.2, aerated for 30 min to reach D.O below 9.0
Final DO 7.7 mg/L MF 2-26-07 J.D.
D.O. for Sample set 2+3 also above 9. Both aerated for 30 minutes. Sample set 2 Final D.O. = 8.4
Sample set 3 Final D.O. = 7.6 J.D. 2.27.07
The NOEC for survival was <100% sample.

PAGE 0000001

revised 08/24/06 MF/SP

FDEP Biology Laboratory - Chronic Screen Bench Sheet

Pimphales promelas or Menidia beryllina Survival

Facility: City of Bradenton ~~WWTP~~ Water Reclamation Facility MF Organism: (*P. promelas*) *M. beryllina* (circle one)

LIMS Sample Number: 96421 for lab sample #1

Start Date: 2/20/07 Time: 1230
End Date: 2-27-07 Time: 1100

		TEST DAY							
Concentration	Replicate	0	1	2	3	4	5	6	7
Control	A	10	10	10	9 10	9	9	9	9
	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
100 % sample concentration	A	10	10	10	10	10	10	10	9 10
	B	10	10	10	10	10	10	9 10	9
	C	10	10	10	9 10	9	8 10	7 10	6 10
	D	10	10	10	9 10	9	8 10	8	8
Control	A	10							
	B	10							
	C	10							
	D	10							
% sample concentration	A	10							
	B	10							
	C	10							
	D	10							
Loaded by: JD	Checked by:		JD	JD	JD	JD	JD	JD	JD
Verified by: BA									

Comments: Survival T-Test
Calculated value - 2.82174 Table value 1.94300 with 6 degrees of freedom. Significant difference at the P = 0.05 level MF 5.25.07

Biology Laboratory Chronic Screening Bioassay Benchsheet

Parameters

P. promelas SOP TA-07_09 M. beryllina SOP TA-07_14

Sample Source: CITY OF BRADENTON ~~WWTP~~ MF water Reclamation facility

LIMS Sample #: 986421 (for Lab sample #1)

Test Day ↓		Conc.	Old Sample: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Cond (µmhos/cm) (mmhos/cm)	Salinity ppth	New Sample: Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Cond (µmhos/cm) (mmhos/cm)	Salinity ppth
Day 0	sample:	Control							A	8.0	24.3	8.0	328	—
	1	100%							A	8.0	25.6	7.8	1190	—
	Measured by:									JD	JD	JD	JD	JD
	Recorded by:									JD	JD	JD	JD	JD
Day 1	sample:	Control	B	7.9	24.4	7.4	334	—	B	7.9	25.1	7.8	330	—
	1	100%	B	8.1	24.9	7.3	1176	—	B	8.0	25.3	7.7	1174	—
	Measured by:			DAV	JD	DAV	DAV	—		DAV	DAV	DAV	DAV	DAV —
	Recorded by:			DAV	JD	DAV	DAV	—		DAV	DAV	DAV	DAV	—
Day 2	sample:	Control	C	7.6	24.3	7.6	337	0.04	C	7.9	24.0	8.0	317	0.08
	2	100%	C	8.0	25.1	7.3	1200	0.53	C	8.0	24.5	7.9	1199	0.55
	Measured by:			JD	JD	JD	JD	JD		JD	JD	JD	JD	JD
	Recorded by:			JD	JD	JD	JD	JD		JD	JD	JD	JD	JD
Day 3	sample:	Control	D	7.4	24.8	6.7	318	—	D	7.5	24.1	8.5	315	—
	2	100%	D	7.3	24.7	6.7	1159	—	D	7.6	24.1	8.9	1154	—
	Measured by:			JD	JD	JD	JD			JD	JD	JD	JD	
	Recorded by:			JD	JD	JD	JD			JD	JD	JD	JD	
Day 4	sample:	Control	A	7.4	24.8	6.2	322	—	A	7.6	25.5	7.1	323	—
	3	100%	A	7.5	25.1	5.3	1195	—	A	7.8	25.9	7.9	1202	—
	Measured by:			JD	JD	JD	JD			JD	JD	JD	JD	
	Recorded by:			JD	JD	JD	JD			JD	JD	JD	JD	
Day 5	sample:	Control	B	7.9	25.0	6.0	319	—	B	7.8	25.3	6.9	327	—
	3	100%	B	7.8	24.8	6.2	1215	—	B	7.8	25.4	6.8	1213	—
	Measured by:			JD	JD	JD	JD			JD	JD	JD	JD	
	Recorded by:			JD	JD	JD	JD			JD	JD	JD	JD	
Day 6	sample:	Control	C	7.7	24.6	6.8	320	—	C	7.4	24.0	7.8	313	—
	3	100%	C	7.5	24.7	6.1	1199	—	C	7.6	24.0	7.4	1184	—
	Measured by:			JD	JD	JD	JD			BA	BA	BA	BA	
	Recorded by:			JD	JD	JD	JD			BA	BA	BA	BA	
Day 7	sample:	Control	D	7.7	25.0	6.9	321	—						
	3	100%	D	7.9	24.8	cal	1215	—						
	Measured by:			BA	JD	BA	BA							
	Recorded by:			BA	JD	BA	BA							

Test Rep. = Replicate Record Salinity < 1 if freshwater Circle µmhos-cm or mmhos-cm

Comments:

revised 6/24/05 mf

FDEP Biology Laboratory - Chronic Screen Bench Sheet

Facility: CITY OF BRADENTON ~~HOLT~~ MF water Reclamation facility

LIMS Sample Number: 986421 for lab sample #1

Concentration	Replicate	Pan #	mean wt = fish wt divided by 10 convert g to mg: move decimal 3 places to right: Pan wt. (g)	Pan + Fish (g)	Fish wt. (g)	Original # Fish	Mean wt. (mg)
Control	A	1	0.02076	0.02503	0.00427	10	0.427
	B	2	0.02119	0.02687	0.00568	10	0.563
	C	3	0.02039	0.02513	0.00474	10	0.474
	D	4	0.02075	0.03612	0.00537	10	0.537
100 % sample	A	5	0.02321	0.02936	0.00515	10	0.515
	B	6	0.02466	0.02900	0.00434	10	0.434
	C	7	0.02574	0.02905	0.00331	10	0.331
	D	8	0.02375	0.02656	0.00281	10	0.281
Control	A					10	
	B					10	
	C					10	
	D					10	
% sample	A					10	
	B					10	
	C					10	
	D					10	
	Weighed by initials:		PPV	JD			

Growth	%CV	PMSD
Control	12.61%	23.67%

Growth	Table MF	Calculated	dF
T-test	~~1.81849~~ 1.94300 (A)	1.81849	6

Drying	
Temperature °C:	105°C
Hours:	8

Tare Weighing Date: 2-20-07 Final Weighing Date: 3.2.07

		Measured Value		S-weight Value
Tare Pan 1 after Pan 5	0.02076 @ 0.02076	S-weights at tare	0.29999	@ 0.300
Tare Pan 1 after Pan 8	0.02076 @ 0.02076		0.10002	@ 0.100
Final Pan 1 after Pan 5	0.02502 @ 0.02503	S-weights at final	0.0997	@ MF ~~0.1~~ 0.100
Final Pan 1 after Pan 8	0.02502 @ 0.02503		0.05002	@ 0.05

Comments: (A) Although a T-Test was performed for growth, the Survival Lowest observed effect concentration (LOEC) was 100% sample; therefore, the no observed effect Concentration (NOEC) for growth is not ~~calculated~~ determined because concentrations above the NOEC for survival are excluded for growth calculations - MF 3-5-07 (<100%)

Test Page 4 of 4 PAGE 000004 revised 08/24/06 MF/SP

FDEP Biology Laboratory - Chronic Screen Bench Sheet

Ceriodaphnia dubia

Facility: City of Bradenton Water Reclamation Facility
Address: 1810 First Street West
County: Manatee
NPDES Permit #: FL 0021369
Contact/District: Lori Pillsbury / South West

LIMS entry: 2-7-07 MF verified: JD 3/4/07

Diluent/ Batch: 20% DMW / 2-15-07 Test Days Used: DAY 0 MF 1
20% DMW / 2-16-07 Test Days Used: 2-6

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

Start Date: 2-20-07 Time: 1220
End Date: 2-27-07 Time: 1000

Organism: *Ceriodaphnia dubia*
Organism Batch #: 9-07
Organism age : <24 hours ✓ mf
Feeding: Prior to Test and Daily
Food: YCT *P. subcapitata*
Food Batch: 2-7-07 5-06
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-2007-02-2006	986421	2-19-07 0900	2-20-07 0945
Test Day 2	2	TLH-2007-02-22-58	987644	2-21-07 0900	2-22-07 1029
Test Day 4	3	TLH-2007-02-26-03	988034	2/22/07 0900	2/26/07 1030

23 mf 3-20-07

Water Quality Parameters	Field Chlorine (mg/L)			Lab Chlorine (mg/L)			Alkalinity (mg/L as $CaCO_3$)		
Lab Sample #:	1	2	3	1	2	3	1	2	3
Sample:	<0.02	Not measured	Not measured	<0.03	<0.03	<0.03	140	142	135
Diluent/Control:				<0.03	<0.03	<0.03	mf ~~80~~83	81	81
Method:	Hach	—	—	Hach	Hach	Hach	Hach	Hach	Hach
Measured by:	L. Pillsbury	—	—	PPV	~~PPV~~	JD	BA	PPV/BA	MF
Verified by:	MF	MF	MF	MF	~~PPV~~MF	MF	MF	MF	JD
	Conductivity (circle one) (umhos-cm) (mmhos-cm)			Ammonia (mg/L)			Hardness (mg/L as $CaCO_3$)		
Lab Sample #:	1	2	3	1	2	3	1	2	3
Sample:	1187	1182	1202	1.14	1.18	1.17	276	282	278
Diluent/Control:	172	177	176	<0.017	<0.017	<0.017	mf 86	98	mf ~~<0.098~~
Method:	Mettler	Mettler	Mettler	Denver	Denver	Denver	Hach	Hach	Hach
Measured by:	MF	JD/MF	JD	MF	MF	MF	BA	PPV/BA	MF
Verified by:	PPV	MF/JD	MF	~~PPV~~	PPV	JD	MF	MF	~~PPV~~ JD

MF wrong space

Filename: 22007BRAD

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 # 3 min. 25.2 max. 26.2 mean 25.5
Room B246 min. 24.5 max. 25.9 mean 25.2

Investigators' signatures
James Parish
Betsy Richards
Marshall Faircloth
Bruce Dutton

Nijili Wellendorf
REVIEWER

Test Replicate	Loaded from culture vial
1	A3
2	A6
3	A10
4	A11
5	A18
6	A20
7	A23
8	A24
9	A25
10	A28

Statistics	
Ⓐ Control % CV:	17.8% MF ~~15.1%~~ 16.8%
↓ Dunnetts PMSD:	~~17.3~~ mf ~~15.1%~~ 16.8%
Reproduction NOEC:	100%
Survival NOEC:	100%
T-test value	~~0.44589~~ MF 0.837
T- table value:	1,740
df:	17

Ⓐ Bonferroni t-test rather than Dunnetts due to unequal replicate initial stats performed with incorrect replicate. mf 3-2-07

Comments: Initial D.O @ 10.2, aerated for 30 min to reach D.O below 9.0, Final DO 7.7 mg/L J.D.
Sample 2B Do above 9. aerated for 30 mins. Final DO #2 = 8.4
Final D.O #3 = 7.6 J.D.

Test Page 1 of 3

PAGE 000001

revised 08/24/06 MF/SP

FDEP Biology Laboratory - Chronic Screen Bench Sheet

Ceriodaphnia dubia Survival and Reproduction

Facility: CITY OF BRADENTON ~~4B0TP~~ MF Water Reclamation Facility

LIMS Sample # 986921 for lab sample 1

Start Date: 2/20/07 Time: 1220

End Date: 2-27-07 Time: 1000

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total Neonates	Surviving adults	Neonates per adult
Control (C)	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	5	6	4	2	3	6	6	5	4	3	44	10	4.4
	5	2	0	0	0	2	10	0	0	0	9	23	10	2.3
	6	13	8	11	9	9	0	14	10	10	X10	94	9	9.4
	7	20	21	15	16	16	17	20	13	19	–	157	9	157
	8													
	Total	40	35	30	27	30	33	40	28	33	22	318	10	31.8

Organisms loaded by: MF	
Day	Counted/ verified by:
0	~~BA~~
1	MF
2	MF
3	MF
4	MF
5	MF
6	MF
7	MF
8	—

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	Total Neonates	Surviving adults	Neonates per adult
100 % sample (D) (E) MF	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	6	6	5	5	4	6	6	3	7	0	48	10	4.8
	5	0	0	0	0	0	0	9	8	0	5	22	10	2.2
	6	12	11	13	10	13	13	0	0	13X(9)	2	87	9	8.7
	7	18	18	19	16	11	14	5	18	–	7	126	9	12.6
	8													
	Total	36	35	37	31	28	33	20	29	20	14	283 ~~(261)~~ MF 169		28.3

X = dead

263 9 29.2

~~(29,800)~~ ~~B~~ MF (B) MF

Concentration	Mean neonates /adult	% survival
Control	31.8	90%
100%	(B) ~~28.3 29.9~~ MF 3-1-07 29.2 mean neonates/adult.	90%

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

Comments:

(A) DAY 6 100% Rep #9 crushed adult during transfer MF 2-26-07

(B) Replicate ~~9~~ 10 will be removed from analysis of data - 9 adults, ~~263~~ 263 MF neonates, mean ~~29.9~~ 29.2 MF neonates per adult MF 3/1/07

(C) DAY 5 control Replicate 1 is a split Brood - MF 2-25-07 MF

(D) DAY 6 100% Replicate 10 is a split Brood - MF - 2-26-07

000002

*Day 0 is test initiation day

X = Dead (original organism)

FDEP Biology Laboratory - Chronic Screen Bench Sheet

Ceriodaphnia dubia Parameters

Facility: City of Bradenton Water Reclamation facility

LIMS Sample # : 986421 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	8.0	24.0	8.0	172					
	1	100%	M	7.9	24.9	7.7	1187					
	Measured by:			MF	JD	MF	MF					
	Recorded by:			MF	JD	MF	MF					
Day 1	sample:	Control	M	8.3	24.9	7.7	180	M	7.9	24.1	7.7	183
	1	100%	M	8.1	25.1	7.6	1173	M	8.2	24.0	7.6	1235
	Measured by:			PDV	MF	PDV	PDV		PDV	MF	PDV	PDV
	Recorded by:			PDV	MF	PDV	PDV		PDV	MF	PDV	PDV
Day 2	sample:	Control	M	7.9	25.1	8.0	177	M	8.0	24.3	8.0	179
	2	100%	M	7.9	25.8	8.1	1177	M	8.1	24.1	8.0	1238
	Measured by:			MF	MF	MF	MF		MF	MF	MF	MF
	Recorded by:			MF	MF	MF	MF		MF	MF	MF	MF
Day 3	sample:	Control	M	7.9	24.3	8.2	176	M	8.1	24.7	7.5	177
	2	100%	M	7.8	24.4	7.7	1170	M	8.1	24.4	7.6	1263
	Measured by:			MF	MF	MF	MF		MF	MF	MF	MF
	Recorded by:			MF	MF	MF	MF		MF	MF	MF	MF
Day 4	sample:	Control	M	7.6	24.0	7.8	176	M	7.6	24.4	7.2	185
	3	100%	M	7.8	25.9	7.9	1202	M	8.0	24.0	7.5	1230
	Measured by:			JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:			JD	JD	JD	JD		JD	JD	JD	JD
Day 5	sample:	Control	M	8.2	24.1	7.5	180	M	8.1	24.8	7.2	190
	3	100%	M	8.1	25.4	7.3	1166	M	8.2	24.3	7.2	1231
	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	8.2	24.0	7.7	177	M	8.2	24.1	7.7	180
	3	100%	M	8.1	24.3	8.2	1180	M	8.2	24.2	8.0	1220
	Measured by:			MF	MF	MF	MF		MF	MF	MF	MF
	Recorded by:			MF	MF	MF	MF		MF	MF	MF	MF
Day 7	sample:	Control	M	—	—	—	—	M	8.0	25.5	7.5	186
	3	100%	M	—	—	—	—	M	8.2	25.1	7.5	1225
	Measured by:								MF	MF	MF	MF
	Recorded by:								MF	MF	MF	MF
Day 8	sample:	Control						M	—	—	—	—
	3							M	—	—	—	—
	Measured by:											
	Recorded by:											

Comments:

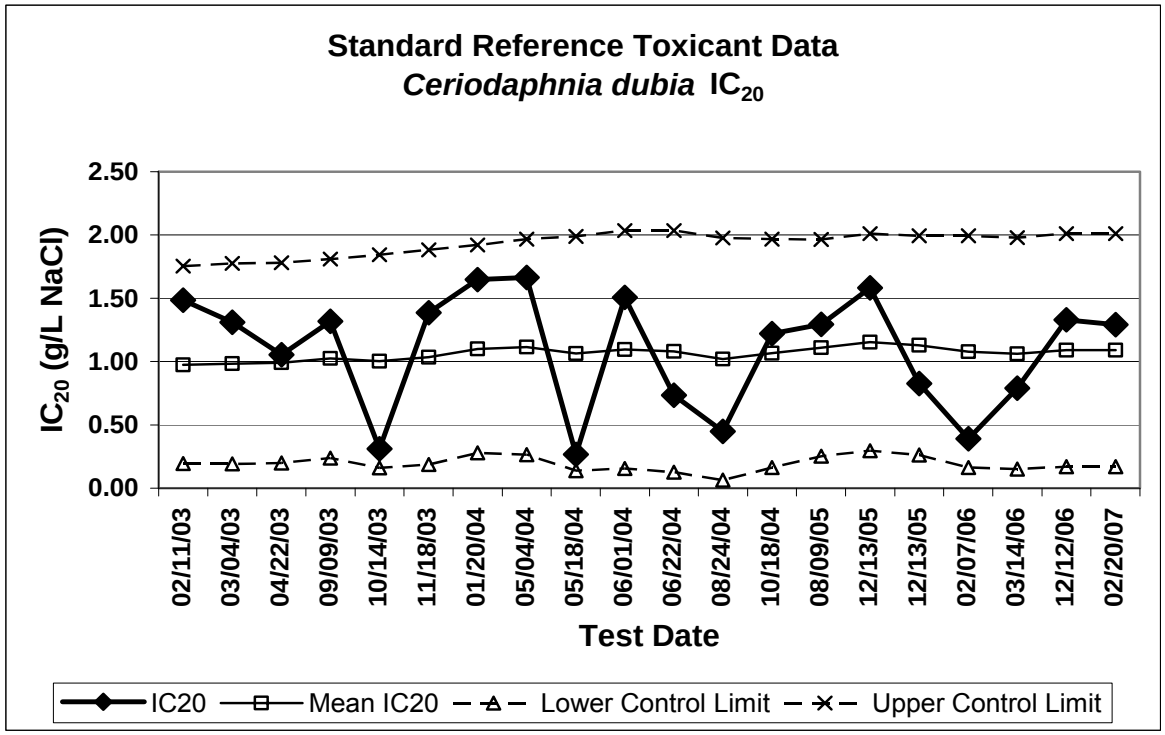
Replicate M= "Metered" vial, a surrogate vial for parameters

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	IC20	Mean IC20	Std Dev	Lower Control Limit	Upper Control Limit	Date
02/11/03	1.48	0.97	0.39	0.19	1.75	02/11/03
03/04/03	1.31	0.98	0.40	0.19	1.78	03/04/03
04/22/03	1.05	0.99	0.40	0.20	1.78	04/22/03
09/09/03	1.32	1.02	0.39	0.24	1.81	09/09/03
10/14/03	0.31	1.00	0.42	0.16	1.84	10/14/03
11/18/03	1.39	1.03	0.42	0.19	1.88	11/18/03
01/20/04	1.65	1.10	0.41	0.28	1.92	01/20/04
05/04/04	1.66	1.12	0.43	0.26	1.97	05/04/04
05/18/04	0.27	1.06	0.46	0.14	1.99	05/18/04
06/01/04	1.51	1.10	0.47	0.15	2.04	06/01/04
06/22/04	0.73	1.08	0.48	0.13	2.03	06/22/04
08/24/04	0.45	1.02	0.48	0.06	1.98	08/24/04
10/18/04	1.22	1.07	0.45	0.16	1.97	10/18/04
11/16/04	1.29	1.11	0.43	0.25	1.96	08/09/05
08/09/05	1.58	1.15	0.43	0.30	2.01	12/13/05
12/13/05	0.83	1.13	0.43	0.26	1.99	12/13/05
02/07/06	0.39	1.08	0.46	0.16	1.99	02/07/06
03/14/06	0.79	1.06	0.46	0.15	1.98	03/14/06
12/12/06	1.33	1.09	0.46	0.17	2.01	12/12/06
02/20/07	1.29	1.09	0.46	0.17	2.01	02/20/07

Means are of the last 20 SRT tests.
Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev



FDEP Biology Laboratory - Chronic SRT Bench Sheet

Ceriodaphnia dubia

Diluent/ Batch: 20% DMW 2/15/07 Test Days Used: 0-1
20% DMW 2/16/07 Test Days Used: 2-6
Toxicant/ Batch: NaCl / 2-20-07 3g/L

SOP # : TA 07_05
EPA-821-R-02-013 Method 1002.0

Organism: *Ceriodaphnia dubia*
Organism Batch #/ Age: 9-07 / <24 hr.
Feeding: Prior to Test and Daily
Food: YCT 2-7-07 *P. subcapitata*
Food Batch: ~~3-6-07~~ MF S-06
Chamber size: 30 mL
Test Volume: 20 mL

Start Date: 2/20/07 Time: 1300
End Date: 2-27-07 Time: 0930

DRAW 2/16/07

Water Quality Parameters	20% DMW batch 2-15-07	Diluent (or other)	Method	Measured by:	Verified by:
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03	HACH	~~PDV~~	BA
Alkalinity (mg/L as $CaCO_3$):	83	81	HACH	BA	~~PDV~~
Hardness (mg/L as $CaCO_3$):	86	98	HACH	BA	PDV
Total Ammonia (mg/L as N):	<0.017	<0.017	DENVER	MF	~~PDV~~
Conductivity (µmhos-cm) mmhos-cm :	193	176	YSI (Mettler)	MF/SD	BA

Results (A)	
Control % CV:	23.8%
Dunnetts PMSD:	~~21.1%~~ 19.98% MF 3-2-07
Reproduction NOEC:	1.3 g/L
Reproduction LOEC:	2 g/L
Survival NOEC:	2 g/L
Survival LOEC:	3 g/L
ICP_{20}:	1.59 g/L
ICP_{25}:	1.36 g/L

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

Test Replicate	Loaded from culture vial
1	A3
2	A6
3	A10
4	A11
5	A18
6	A20
7	A23
8	A24
9	A25
10	A28

Comments (A) The statistics were run without the 0.59 g/L concentration due to a concentration preparation error at 24 hours. MF 3/2/07

Investigators' signatures

Patsy Vichaikul
Marshall Faircloth
James Daniels
Bill Alderman

Nicole Wellenhofer
REVIEWER

Light Intensity : 50 - 100 ft. candles
Photoperiod : 16 light 8 dark
Temperature Range °C:
Incubator # 3 min. 25.2 max. 26.2 mean 25.5
Incubator # ___ min. ___ max. ___ mean ___
Room B246 min. 24.5 max. 25.9 mean 25.2

Ceriodaphnia dubia Survival and Reproduction

Start Date: 2/20/07 Time: 1330 Loaded by: ~~AA~~
End Date: 2-27-07 Time: 0930 Verified by: SD

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	0	0	0	0	0	0	0	0	0	0	0	10	0
	4	4	5	6	2	6	2	5	3	0	6	39	10	3.9
	5	0	0	0	1	0	0	0	0	4	0	5	10	0.5
	6	12	8	9	12	8	7	10	11	11	9	97	10	9.7
	7	19	19	18	17	17	9	14	18	0	20	151	10	15.1
	8													
	Total	35	32	33	32	31	18	29	32	15	35	~~141~~ 242 BK	10	29.2
0.59 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	4	6	4	6	6	3	6	5	5	6	51	10	5.1
	5	0	10	0	0	0	0	0	0	0	0	10	10	1
	6	8	5	9	8	12	8	10	11	12	12	95	10	9.5
	7	19	18	15	22	16	12	12	18	0	21	153	10	15.3
	8													
	Total	31	39	28	36	34	23	28	34	17	39	309	10	30.9
0.89 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	3	6	5	5	6	5	10	6	4	5	55	10	5.5
	5	0	0	0	0	0	0	0	0	0	0	0	10	0
	6	11	9	13	13	14	13	10	11	9	11	114	10	11.4
	7	16	18	16	21	18	14	22	13	13	17	168	10	16.8
	8													
	Total	30	33	34	39	~~38~~	32	42	30	26	33	337	10	33.7

Comments:

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
1.3 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	4	4	4	3	4	6	1	4	4	4	38	10	3.8
	5	2	0	0	0	0	1	0	0	0	0	3	10	0.3
	6	10	8	11	9	7	11	5	10	10	13	94	10	9.4
	7	18	13	8	13	16	9	12	14	0	12	115	10	11.5
	8													
	Total	34	25	23	25	27	27	18	28	14	29	250	10	25.0
2.0 ppth	0												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	XO	0	9	0
	3	0	0	0	0	0	0	0	0	0	—	0	9	0
	4	0	3	0	2	0	3	2	2	0	—	12	9	1.2
	5	3	0	0	0	0	0	0 MF 2-20-07	1	3	—	7	9	0.7
	6	5	6	4	6	4	2	8	7	7 MF 2-20-07	—	48	9	4.8
	7	0	0	0	0	0	0	MF 2-20-07 9 correct actual	9 count 2/12/07	0	—	18	9	1.8
	8													
	Total	8	9	4	8	4	5	19	19	189 MF 2-20-07	—	85	9	8.5
3.0 ppth	0												10	
	1									X			10	
	2	XO	XO	XO	0	0	XO	0	0	XO	XO	0	4	0
	3	—	—	—	XO	XO	—	XO	XO	—	—	0	0	0
	4													
	5													
	6													
	7													
	8													
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0

X = dead

Comments: (A) counted wrong vial MF-2-25-07
(B) Transcription error BA-2-26-07

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	24.2	8.2	0.193					
	0.59 ppth	M	8.0	24.5	8.1	1.256					
	0.89 ppth	M	8.0	24.6	7.9	1.797					
	1.3ppth	M	8.0	24.6	7.9	2.63					
	2.0 ppth	M	8.0	24.2	7.8	3.72					
	3.0 ppth	M	8.0	24.1	7.8	5.49					
	Measured by:		MF	MF	MF	MF					
	Recorded by:		MF	MF	MF	MF					
Day 1	Control	M	8.0	24.3	7.7	0.174	A	7.7	24.1	7.8	0.181
	0.59 ppth	M	8.1	24.7	7.9	0.182 (B)	A	7.8	24.0	7.7	1.262
	0.89 ppth	M	8.0	25.0	7.8	1.847	A	7.8	24.0	7.7	1.862
	1.3ppth	M	8.1	24.8	7.8	2.640	A	7.9	24.1	7.4	2.620
	2.0 ppth	M	8.1	25.0	7.6	3.800	A	7.9	24.1	7.4	3.8100
	3.0 ppth	M	8.1	25.1	7.8	5.5400	A	7.9	24.0	7.5	5.8400
	Measured by:		DPV	DPV	DPV	DPV		DPV	DPV	DPV	DPV
	Recorded by:		DPV	DPV	DPV	DPV		DPV	DPV	DPV	DPV
Day 2	Control	M	8.0	24.0	8.2	0.176	M	7.5	24.0	7.6	0.207
	0.59 ppth	M	8.0	24.1	8.3	1.29	M	7.7	24.1	7.2	0.217 (B)
	0.89 ppth	M	8.0	24.4	8.5	1.85 (B) 35	M	7.7	24.2	6.9	1.99
	1.3ppth	M	8.1	24.4	8.6	2.68	M	7.7	24.2	6.9	2.94
	2.0 ppth	M	8.1	24.4	8.7	3.86	M	7.8	24.1	7.0	4.21
	3.0 ppth	M	8.1	24.9	8.2	5.66	M	7.7	24.1	7.2	599
	Measured by:		JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:		JD	JD	JD	JD		JD	JD	JD	JD
Day 3	Control	M	7.9	24.1	8.2	0.175	A	8.1	24.5	7.6	0.183
	0.59 ppth	M	7.9	24.0	7.8 (A) MF	1,170	A	8.0	24.4	7.5	1,290
	0.89 ppth	M	7.9	24.1	7.8 MF (B)	1,780	A	8.0	24.4	7.3	1,870
	1.3ppth	M	7.9	24.2	7.7 MF (B)	2570	A	8.0	24.3	7.4	2,710
	2.0 ppth	M	7.9	24.3	7.6	3.54	A	8.0	24.4	7.6	3.87
	3.0 ppth	M	—	—	—	—	A	8.0	24.2	7.4	5.72
	Measured by:		MF	MF	MF	MF		MF	MF	MF	MF
	Recorded by:		MF	MF	MF	MF		MF	MF	MF	MF

Comments: (A) recorded micromhos-cm rather than millimhos-cm. then did wrong conversion MF 2-23-07

(B) the 0.59 g/L concentration was prepared incorrectly at 24 hours (Day 1) this was confirmed by old sample measurement at 48 hours (Day 2) MF 3-2-07.

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

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	7.8	24.0	7.6	0.178	M	7.8	24.0	7.1	0.186
	0.59 ppth	M	7.8	24.6	7.8	1.17	M	7.9	24.1	7.3	1.16
	0.89 ppth	M	7.8	24.4	7.8	1.74	M	7.9	24.0	7.6	1.78
	1.3ppth	M	7.9	24.6	7.9	2.56	M	7.9	24.0	7.6	2.51
	2.0 ppth	M	7.9	24.4	7.8	3.53	M	7.9	24.0	7.4	3.51
	3.0 ppth	M					M				
	Measured by:		JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:		JD	JD	JD	JD		JD	JD	JD	JD
Day 5	Control	M	7.7	24.1	7.4	0.178	M	7.8	24.6	7.1	0.194
	0.59 ppth	M	7.7	24.0	7.5	1.16	M	7.9	24.5	7.1	1.22
	0.89 ppth	M	7.8	24.3	7.6	1.76	M	7.9	24.1	7.3	1.98
	1.3ppth	M	7.8	24.4	7.6	2.55	M	7.9	24.1	7.4	2.87
	2.0 ppth	M	7.9	24.7	7.6	3.54	M	8.0	24.0	7.3	4.09
	3.0 ppth	M									
	Measured by:		JD	MF	JD	JD		JD	MF	JD	JD
	Recorded by:		JD	MF	JD	JD		JD	MF	JD	JD
Day 6	Control	M	7.8	24.2	7.7	0.180	M	8.0	24.4	7.3	0.180
	0.59 ppth	M	7.8	24.8	7.8	1.145	M	7.9	24.3	7.3	1.151
	0.89 ppth	M	7.8	24.9	7.7	1.748	M	7.9	24.3	7.3	1.862
	1.3ppth	M	7.8	25.6	7.6	2.52	M	7.9	24.4	7.2	2.60
	2.0 ppth	M	7.8	25.2	7.5	3.49	M	7.9	24.4	7.2	3.80
	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 7	Control	M	—	—	—	—	M	7.9	25.4	7.1	0.190
	0.59 ppth	M	—	—	—	—	M	7.9	25.5	7.1	1.157
	0.89 ppth	M	—	—	—	—	M	7.9	25.4	7.3	1.819
	1.3ppth	M	—	—	—	—	M	8.0	25.2	7.2	2.64
	2.0 ppth	M	—	—	—	—	M	8.0	25.0	7.3	3.77
	3.0 ppth	M	—	—	—	—	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:										

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

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: ~~HHW~~ 2/16/07 Test Days Used: 0-1

Diluent/ Batch: HHW 2/20/07 Test Days Used: 2-7

Toxicant/ Batch # : KCl 2g/L 21707

Artemia Lot # : GSL-536-90 (14-07)

Start Date: 2/20/07 Time: 1300

End Date: 227.07 Time: 1100

Organism Batch #/ Age: 2-20-07/ <24hours

Artemia Batch #	Day 2 16-07	Day 5 19-07
Day 0 14-07	Day 3 17-07	Day 6 20-07
Day1 15-07	Day 4 18-07	

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	Diluent HHW 2/16/07	Diluent ~~HHW~~ 2/20/07 ~~(for other)~~	Method	Measured by	Verified by
Total Residual Cl_2 (mg/L):	<0.03	<0.03	HACH	PPV	BA
Alkalinity (mg/L as $CaCO_3$):	78	81	HACH	BA/PPV	PPV
Hardness (mg/L as $CaCO_3$):	106	106	HACH	BA/PPV	PPV
Total Ammonia (mg/L as N):	<0.017	<0.017	DENVER	MF	PPV
Conductivity ~~umhos-cm~~ mmhos-cm:	328	336	METTLER	MF	PPV

Statistics	
Growth NOEC:	0.5 g/L
Growth LOEC:	1.0 g/L
Growth IC_{20}:	MF ~~0.557 g/L~~ 0.585 g/L (A)
Growth IC_{25}:	MF ~~0.577 g/L~~ 0.611 g/L
Ctrl % CV:	MF 13.7%
Dunnetts PMSD:	26.04%
Survival NOEC:	0.5 g/L
Survival LOEC:	1 g/L

Light Intensity : 50 - 100 ft. candles

Photoperiod : 16 light 8 dark

Temperature Range °C:

Incubator # 2 min. 25.5 max. 26.2 mean 25.8

Water bath # N/A min. _____ max. _____ mean _____

Room B246 min. 24.5 max. 25.9 mean 25.2

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

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

Investigators' signatures

Patsy Vichules

Marshall Fairloth

Bryce Adendorff

James Davids

Nigel Wellendorf

REVIEWER

Comments: (A) put survival LCp in place of growth ICp MF 3/5/07

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	B1	10	10	10	10	10	10	10	10
	B	B2	10	10	10	10	10	10	10	10
	C	B3	10	10	10	10	10	10	10	10
	D	B4	10	10	9 1D	8 1D	8	8	8	8
0.125	A	B5	10	10	10	10	10	10	10	10
	B	B6	10	10	10	10	10	10	10	10
	C	B7	10	10	10	10	10	10	10	10
	D	B8	10	10	10	10	10	9 1D	9	9
0.250	A	B9	10	10	10	10	10	10	10	10
	B	B10	10	10	10	10	10	10	10	10
	C	B11	10	10	10	10	10	10	10	10
	D	B12	10	10	9 1D	9	8 1D	8	8	8
0.5	A	B13	10	9 1D	9	9	9	9	9	9
	B	B14	10	10	9 1D	9	9	9	9	9
	C	B15	10	9 1D	8 1D	8	8	8	8	8
	D	B16	10	9 1D	9	9	9	9	9	9
1.0	A	B17	10	1 9D	1	1	1	0 1D	—	—
	B	B18	10	7 8D	1 1D	1	0 1D	—	—	—
	C	B19	10	3 7D	3	3	2 1D	2	1 1D	1
	D	B20	10	0 10D	—	—	—	—	—	—
2.0	A	B21	10	0 10D						
	B	B22	10	0 10D						
	C	B23	10	0 10D						
	D	B24	10	0 10D						
	A		10							
	B		10							
	C		10							
	D		10							
Loaded by (0 hr): JD		Checked by*:		JD	JD	JD	JD	JD	JD	JD
		Concentrations prepared by:		JD	JD	JD	JD	JD	JD	—

Comments: verified by BA

*verified by for 0 hour

FDEP Biology Laboratory - Chronic SRT Benchsheet

Pimephales promelas or *Menidia beryllina* Parameters

Start Date: 2/26/07 Time: 1300

End Date: 2/27/07 Time: 1100

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

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

circle µmhos or (mmhos)

Test Day		Before Renewal					Test Start and After Renewal				
	Concentration	Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity µmhos (mmhos)	Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity µmhos (mmhos)
Day 0	Control						A	8.0	24.2	8.2	0.325
	0.125						A	8.0	24.1	8.1	0.557
	0.250						A	8.0	24.1	8.2	0.760
	0.5						A	8.1	24.1	8.1	1.136
	1.0						A	8.1	24.0	8.0	1.927
	2.0						A	8.1	24.0	8.0	3.73
							A	—	—	—	—
	Measured by:							MF	MF	MF	MF
	Recorded by:							MF	MF	MF	MF
	Concentration	Replicate	pH	Temp	DO	Conductivity	Replicate	pH	Temp	DO	Conductivity
Day 1	Control	B	7.8	24.5	7.5	0.333	B	7.9	24.1	7.7	0.329
	0.125	B	7.9	24.3	7.3	0.567	B	8.0	24.1	7.8	0.553
	0.25	B	8.0	24.2	7.3	0.777	B	8.0	24.0	7.7	0.766
	0.5	B	8.0	24.2	7.5	1.161	B	8.0	24.1	7.8	1.216
	1.0	B	8.0	24.3	7.5	2.010	B	8.1	24.0	7.9	2.070
	2.0	B	8.0	24.6	7.3	3.710	B	—	—	—	—
		B					B				
	Measured by:		PPV	JD	PPV	PPV		PPV	PPV	PPV	PPV
	Recorded by:		PPV	JD	PPV	PPV		PPV	PPV	PPV	PPV
	Concentration	Replicate	pH	Temp	DO	Conductivity	Replicate	pH	Temp	DO	Conductivity
Day 2	Control	C	7.6	24.3	7.2	0.336	C	7.9	24.0	8.0	0.319
	0.125	C	7.6	24.8	7.2	0.553	C	8.0	24.0	8.2	0.559
	0.25	C	7.7	24.7	7.3	0.774	C	8.0	24.1	8.1	0.772
	0.5	C	7.8	24.6	7.6	1.356	C	8.1	24.1	8.2	1.20
	1.0	C	7.8	24.5	7.6	2.110	C	8.1	24.1	8.1	2.05
		C					C				
		C					C				
	Measured by:		JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:		JD	JD	JD	JD		JD	JD	JD	JD
	Concentration	Replicate	pH	Temp	DO	Conductivity	Replicate	pH	Temp	DO	Conductivity
Day 3	Control	D	7.2	24.6	6.5	0.325	D	7.6	24.0	8.1	0.316
	0.125	D	7.1	24.9	6.3	0.556	D	7.5	24.1	8.2	0.547
	0.25	D	7.1	24.5	6.7	0.772	D	7.6	24.0	8.2	0.767
	0.5	D	7.2	24.7	6.6	1.24	D	7.7	24.0	8.1	1.23
	1.0	✗A	7.3	24.9	6.3	2.09	✗A	7.7	24.0	8.2	2.09
		D					D				
		D					D				
	Measured by:		JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:		JD	JD	JD	JD		JD	JD	JD	JD

Comments:

FDEP Biology Laboratory - Chronic SRT Benchsheet

Pimephales promelas or *Menidia beryllina* Parameters

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

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

circle µmhos or (mmhos)

Test Day			Before Renewal					After Renewal				
↓	Concentration	Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity µmhos/(mmhos)	Test Replicate	pH (su)	Temp (°C)	DO (mg/L)	Conductivity µmhos/(mmhos)
Day 4	Control	A	7.2	24.6	6.4	0.331	A	7.5	25.9	7.0	0.320
	1/125	A	7.2	25.1	6.6	0.562	A	7.6	25.2	7.3	0.519
	1/25	A	7.3	25.1	6.6	0.786	A	7.9	24.4	7.4	0.741
	.5	A	7.3	25.2	6.4	1.24	A	7.9	24.7	7.5	1.20
	1.0	A	7.5	24.6	6.5	2.11	A	8.0	24.6	7.5	2.04
		A					A				
		A					A				
	Measured by:		JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:		JD	JD	JD	JD		JD	JD	JD	JD
↓	Concentration	Replicate	pH	Temp	DO	Conductivity	Replicate	pH	Temp	DO	Conductivity
Day 5	Control	B	7.3	24.4	6.6	0.323	B	7.9	25.3	7.1	0.328
	1/125	B	7.4	24.8	6.2	0.534	B	7.9	25.7	7.0	0.513
	1/25	B	7.4	25.0	6.3	0.758	B	7.8	24.4	7.1	0.737
	.5	B	7.4	25.0	6.2	1.20	B	7.8	24.7	7.1	1.19
	1.0	~~JD~~ C	7.5	24.9	6.5	2.06	JD C	7.8	24.6	7.0	2.00
		B					B				
		B					B				
	Measured by:		JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:		JD	JD	JD	JD		JD	JD	JD	JD
↓	Concentration	Replicate	pH	Temp	DO	Conductivity	Replicate	pH	Temp	DO	Conductivity
Day 6	Control	C	7.5	24.9	6.8	0.319	C	7.6	24.0	7.5	0.314
	1/125	C	7.4	24.5	6.2	0.521	C	7.7	24.0	7.6	0.683 (A)
	1/25	C	7.6	24.7	6.4	0.743	C	7.7	24.0	7.6	0.580 (A)
	.5	C	7.5	24.5	6.1	1.19	C	7.7	24.0	7.5	1.18
	1.0	C	7.6	25.2	6.3	2.01	C	7.7	24.1	7.5	2.02
		C					C				
		C					C				
	Measured by:		JD	JD	JD	JD		BA	BA	BA	BA
	Recorded by:		JD	JD	JD	JD		BA	BA	BA	BA
↓	Concentration	Replicate	pH	Temp	DO	Conductivity	Replicate	pH	Temp	DO	Conductivity
Day 7	Control	D	7.6	25.5	6.3	0.322	D				
	1/125	D	7.5	25.1	6.2	0.597	D				
	1/25	D	7.7	25.6	6.1	0.701	D				
	.5	D	7.7	25.1	6.4	1.19	D				
	1.0	BA C	7.6	25.1	6.5	2.06	D				
		D					D				
		D					D				
	Measured by:		BA	JD	BA	BA					
	Recorded by:		BA	JD	BA	BA					

Comments: (A) Switched places while recording conductivity BA 2-26-07

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)
Control	A	9	0.02552	0.03012	0.0046	10	0.46
	B	10	0.02465	0.02936	0.00371	10	0.371
	C	11	0.02346 (A)	0.02995	0.00449 MF	10	0.949
	D	12	0.02549	0.02897	0.00348	10	0.348
.125	A	13	0.02440 PW	0.02968	0.00528	10	0.528
	B	14	0.02522	0.02900	0.00378	10	0.378
	C	15	0.02493	0.03039	0.00546	10	0.546
	D	16	0.02432	0.02945	0.00513	10	0.513
.25	A	17	0.02477	0.02922	0.00445	10	0.445
	B	18	0.02496	0.02959	0.00463	10	0.463
	C	19	0.02467	0.03018	0.00551	10	0.551
	D	20	0.02499	0.02933	0.00444	10	0.444
.5	A	21	0.02606	0.02902	0.00396	10	0.396
	B	22	0.02424	0.02997	0.00573	10	0.573
	C	23	0.02449	0.02866	0.00418	10	0.418
	D	24	0.02434	0.02805	0.00371	10	0.371
1.0	A	—	—	—	—	10	—
	B	—	—	—	—	10	—
	C	25	0.02416	0.02450	0.00034	10	0.034
	D	—	—	—	—	10	—
	A					10	
	B					10	
	C					10	
	D					10	
	A					10	
	B					10	
	C					10	
	D					10	
		Weighed by:	PPV	JD			

Comments: (A) Pan weight transcription error MF 3-2-07

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

Empty Pan Weights Date: 2.20.07

	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	0.02076	@ 0.02076
after Pan 10	0.02077	@ 0.02076
after Pan 15	0.02077	@ 0.02076
after Pan 20	0.02077	@ 0.02076
after Pan 25	0.02076	@ 0.02076
after Pan 30		@
after Pan 35		@
after Pan 40		@
after Pan 45		@
after Pan 48		@

	Measured Value	S-weight Value
S-weights	0.39999	@ 0.300
	0.10002	@ 0.100

Fish + Pan Weights Date: 3.2.07

	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	0.03012	@ 0.03012
after Pan 10	0.03012	@ 0.03012
after Pan 15	0.03011	@ 0.03012
after Pan 20	0.03012	@ 0.03012
after Pan 25	0.03012	@ 0.03012
after Pan 30		@
after Pan 35		@
after Pan 40		@
after Pan 45		@
after Pan 48		@

	Measured Value	S-weight Value
S-weights	0.0997	@ 0.01
	0.05002	@ 0.05

Drying Oven ID: ERO 34000

Temperature °C: 105°C

Drying Hours: 8 hours

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

Comments:

DMR Data

	6.0	5	*5.0*	*6.3*	*7.5*	*10.0*	*5.0*	*6.3*	*7.5*	*10.0*	*75%nd*	*25*	1	0.01	*3.0*	*3.8*	*4.5*
D001	Flow-AA	DO	CBOD aa	CBOD ma	CBOD wa	CBOD max	TSS aa	TSS ma	TSS wa	TSS max	FC mgm	FC max	TCR	TCR-D	TN aa	TN ma	TN wa
Apr	5.8	7.4	2.1	2	2	2	1.4	0.88	1.9	2.2	100	<1	1	0.01	2.2	2.24	2.4
Mar	5.7	7	2.1	2.1	2.2	4.1	1.4	0.78	1	1.6	97	1	1.1	0.01	2.2	2.4	2.9
Feb	5.6	7.5	2.2	2.1	2.2	2.9	1.5	0.78	0.9	1.7	100	<1	1	0.01	2.2	2.2	2.6
5-Jan	5.6	5.8	2.2	2	2	2.1	1.6	1.28	1.9	2.6	**<1**	<1	1	0.01	2.3	2.32	2.6
Dec	5.5	5.7	2	2	2	2	1.5	1.55	1.9	2.3	94	2	**0.8**	0.01	1.9	2.54	2.8
Nov	5.5	6.2	2	2.02	2	2.2	1.8	1.69	2.1	2.8	97	**97**	2	0.01	2	1.92	2
Oct	5.4	6.9	2.3	2.05	2.2	2.9	1.7	1.83	2.4	3.7	94	**76**	**0.5**	**0.1 (3)**	2.3	2.1	2.4
Sep	5.3	6.4	2.7	2.05	2.1	2.6	1.7	1.78	2.3	3.2	76	20	1.2	0.01	2.4	2.44	2.7
Aug	5.1	6.5	3.1	2.03	2.2	2.8	1.7	1.17	1.6	2.8	100	<1	**0.6 (2)**	0.01	2.4	2.25	2.3
Jul	5.2	5.7	3.1	2	2	2.1	1.7	1.41	1.6	2.2	97	1	**0.6**	0.01	2.4	1.89	2.1
June	5.2	5.8	3	2.35	2.6	3.5	1.7	1.52	2.1	3.2	100	<1	1.2	0.01	2.5	1.94	2.3
May	5.5	5.9	2.9	2.24	2.8	4.1	1.7	1.8	2	2.4	100	<1	1	0.01	2.5	2	2.3
Apr	Nodi=9	6.2	2.7	2.59	2.7	3.7	1.7	1.81	2	3	97	1	2.2	0.01	2.5	2.39	2.8
Mar	Nodi=9	6.6	2.6	2.64	3.3	4.9	1.7	1.79	2	2.4	97	**43**	**0.6**	0.01	2.5	2.62	2.8
Feb	Nodi=9	6.2	2.5	2.29	2.6	3.7	1.7	1.86	2.1	3	100	<1	**0.7**	0.01	2.6	2.72	3.2
4-Jan	Nodi=9	7	2.4	2.25	2.8	6.5	1.7	1.87	2.4	2.8	**0**	<1	**0.7 (2)**	0.01	2.6	2.5	2.6
Dec	Nodi=9	6.9	1.89	2.13	2.2	3.4	1.7	1.56	1.8	2.5	100	<1	**0.7**	0.01	2.6	2.61	2.7
Nov	Nodi=9	6.2	1.9	3.4	7.5	**32.3 (2)**	1.7	1.71	1.6	2.5	100	<1	1.2	0.01	2.6	2.26	2.4
Total	31.70	76.3	31.09	28.02	35.00	40.20	20.40	20.11	23.90	33.70	1061.00	141.00	9.90	0.11	29.90	27.72	30.60
Avg	5.28	6.36	2.59	2.34	2.92	3.65	1.70	1.68	1.99	2.81	88.42	28.20	0.99	0.01	2.49	2.31	2.55
	9.00			8.8 Reuse		*5.0*	*75%nd*	*25.0*	*1*								
R001	TP- Flow 3M	Flow-MA	% capacit	Flow -AA	Flow -MA	TSS max	FC mgm	FC max	TCR	NTU	GWMP						
Apr	6	5.8	66	0.8	0.8	2				1.55							
Mar	6	6.7	66	0.8	1	2				1.1							
Feb	5.5	5.5	61	0.7	0.8	1.8				2	Yes						
5-Jan	5.4	5.7	60	0.7	1	4.4	100	<1	1.1	1.7							
Dec	5.7	5.3	63	1	0.8	2.1	94	2	1.1	1.3		The 1/04 and 1/05 FC 75% results were incorrectly					
Nov	6.8	5.2	75	0.9	0.8	2.3	97	**91**	2	0.85	Yes	reported as values, not a percent.					
Oct	7.8	6.5	86	0.6	0.6	2	94	**76**	1.1	0.8							
Sept	7.5	8.6	83	0.6	0.5	3.2	76	20	1.2	2							
Aug	6.3	8.3	69	0.6	0.4	1.4	100	<1	1.1	3	Yes						
July	5.1	5.7	57	0.6	0.6	2.8	97	1	1.1	2.5							
June	5	4.8	56	0.6	1	3.2	100	<1	1.2	3							
May	5.3	4.9	59	0.5	0.9	3.1	100	<1	1.1	1.8	Yes						
Apr	5.6	5.4	62	0.5	0.9	2.9	97	1	2.2	1.6							
Mar	5.4	5.7	60	0.5	0.7	3	97	**43**	1.1	2							
Feb	5.1	5.6	56	0.5	0.5	3.6	100	<1	1.1	3	Yes						
Jan	4.8	4.8	53	0.5	0.5	4	**0**	<1	**0.7 (2)**	4.15							
Dec	5	4.8	56	0.5	0.5	2.7	100	<1	0.7	2	Yes						
Nov	6.6	4.7	73	0.4	0.5	2.7	100	<1	1.2	2.2							
Total	69.50	69.8	770.00		7.6	34.6	1061	65	13.1								
Avg	5.79	5.82	64.17		0.63	2.88	88.42	16.25	1.19								

	6	*1*	*1.25*	*1.5*	*2*	*34*	*22*	8.3	300	9.3	2.9	86		
D001	TN max	TP aa	TP ma	TP wa	TP max	Dibromo	dichloro	Nickel	Iron	Cadmium	Copper	Zinc	WET	
Apr	2.8	0.3	0.28	0.4	0.6	0.63	0.7	5.4	103	MNR	MNR	MNR	NODI=9	
Mar	4.6	0.3	0.14	0.2	0.2	0.37	0.72	3.2	78.2	MNR	MNR	MNR	Pass both routines	
Feb	2.8	0.3	0.21	0.3	0.4	0.4	0.7	4.2	90.3	MNR	MNR	MNR	NODI=9 (3 adds. Were run)	
5-Jan	3.1	0.3	0.38	0.6	0.7	0.41	0.82	6.2	256	MNR	MNR	MNR	Fail -Pp	
Dec	3.4	0.3	0.38	0.5	0.7	0.84	1.12	4.4	86.2	2	2.5	26	NODI=9	
Nov	2.5	0.5	0.26	0.3	0.4	0.35	0.43	4.9	74.2	MNR	MNR	MNR	Pass both	
Oct	2.8	0.3	0.28	0.4	0.4	0.98	1.1	3	70.2	MNR	MNR	MNR	NODI=9	
Sep	3.1	0.3	0.36	0.5	0.9	1.04	1.12	3.3	122				Pass both	
Aug	3.2	0.3	0.12	0.2	0.2	1.53	1.2	3.5	60.8	MNR	MNR	MNR	NODI=9	
Jul	2.4	0.3	0.17	0.2	0.5	1.51	1.17	5	39	MNR	MNR	MNR	Pass both	
June	2.6	0.3	0.4	0.4	0.4	1.43	1.11	5	120	2	2.5	26	NODI=9	
May	2.4	0.3	0.51	0.6	0.7	1.35	1.03	5	200	MNR	MNR	MNR	Both Rs failed; all adds pass	
Apr	3	0.3	0.43	0.5	0.6	1.38	1.03	5	170	MNR	MNR	MNR	NODI=9	
Mar	3	0.3	0.29	0.5	0.6	1.5	1.1	0.5	17	MNR	MNR	MNR	Pass both	
Feb	3.6	0.3	0.37	0.4	0.6	1.57	1.15	5	220				Fail 3 for Cd / pass all for Pp	
4-Jan	2.8	0.3	0.41	0.6	0.7	1.64	1.17	6	99				Fail both	
Dec	3.1	0.3	0.62	0.4	1.1	1.31	0.62	5	180	2	2	22	NODI=9	
Nov	2.7	0.2	0.3	0.4	0.6	1.36	0.56	5	100	nd	ND	ND	Pass both	
Total	34.70	3.50	4.26	5.10	7.30	16.60	12.36	51.30	1398.00	4.00	4.50	48.00		
Avg	2.89	0.29	0.36	0.43	0.61	1.38	1.03	4.28	116.50	2.00	2.25	24.00		

FIELD DATA SHEET

Page 1 of 1

FILL OUT ONE FORM OR SET OF FORMS PER PROJECT, PER TEAM, PER DAY

SAMPLE EVENT (same as on COC): **City of Bradenton WWTP Marine FYI**

PROJECT ID (same as on COC): **Marine FYI** COUNTY: Manatee

RQ # (same as on COC): **2007-02-19-25**

SAMPLE DATE (MM/DD/YY): 02/20/07

METER USED: YSI 6600 (Brand/Model) Sonde # Display #

SAMPLER SIGNATURE/S: (same as on COC)

To be filled out by district Chem Lab staff or Program Quality Assurance Officer or Senior Sampler:

DATA VALIDATED BY:

DATE VALIDATED:

COMMENTS:

Latitude: Longitude:

METER READINGS FOR THESE PARAMETERS SHOULD BE TAKEN AT WATER SAMPLE DEPTH

Legacy STORET Parameter Codes ->			N/A	N/A	82903	4192	78	10	94	480	301	299	408
			hr (military time)	volts	meters	meters	meters	C°	umhos/cm	ppt	%	mg/L	SU
Field ID Number	Site Name	WBID	Sample Time	Battery Reading	Total Depth	Sample Depth	See 1 below Secchi Depth	Temp.	Specifc Conduct.	Salinity	% DO	DO	pH
35807	MR1		1051		1.00	0.2		20.53	8561	4.63	110.1	9.66	7.47
35808	MR2		1045		0.35	0.2	0.35L	17.28	30758	19.09	125.5	10.74	7.60
35809	MR3		1013		0.40	0.2	0.40L	14.97	39068	24.92	122.0	10.53	7.78
35810	MR4		1022		0.49	0.2	0.49L	15.00	39010	24.87	112.9	9.78	7.75
35811	MR5		0955		0.39	0.2	0.39L	14.92	39115	24.95	113.2	9.80	7.59
~~35847~~	~~MR5 Field Blank~~		1150					15.54	39110	24.88	115.2	9.80	7.75
	MR4		1230					15.90	39138	24.98	120.8	10.23	7.67
	MR3		1300					16.00	39280	25.10	119.4	10.11	7.74
	MR2		1330					15.37	39073	24.99	113.1	9.70	7.68
	MR1		1400					16.79	37262	24.84	112.5	9.62	7.69

1 If Secchi disk is visible on bottom, write the total depth followed by the remark code L. If obscured by vegetation before reaching the bottom, write the depth where it disappears followed by the remark code L.

2 STORET parameter code varies by type of field test performed.

FieldSheet 2002.xls

Appendix 8a

Benthic macroinvertebrates collected from ponar samples from upstream and downstream of the City of Bradenton WWTP facility (February 20, 2007). Taxa collected and density (average number of individuals/m^2) rounded to the nearest individual (n = 5 samples/site). See SOP LT 7100 sect. 4.2.1 for method on collapsing taxa.

	Site 1	Site 2	Site 3	Site 4	Site 5
Annelida					
Oligochaeta					
Tubificidae	8	17	-	-	8
Polychaeta					
Arenicola cristata	8	-	-	-	-
Aricidea philbinae	108	-	114	117	42
Aricidea taylori	-	-	70	117	75
Capitella sp.	4,058	808	283	484	383
Diopatra sp.	8	-	-	-	-
Dipolydora socialis	-	-	-	25	-
Eteone heteropoda	33	-	33	42	33
Glycinde solitaria	-	17	8	67	25
Hesionidae	17	-	-	-	-
Heteromastus filiformis	75	42	-	-	-
Laeonereis culveri	42	-	25	50	34
Leitoscoloplos sp.	33	25	125	158	108
Mediomastus ambiseta	2,633	1,108	7,267	7,025	8,742
Melinna maculata	33	-	25	58	33
Neanthes succinea	17	-	-	-	-
Nereididae	-	17	-	-	-
Nereiphylla fragilis	-	-	-	8	8
Paraprionospio pinnata	8	-	-	-	-
Pectinaria gouldi	-	-	-	8	-
Pectinaria sp.	8	-	-	-	-
Phyllodoce mucosa	-	-	-	25	8
Phyllodoce sp.	-	17	-	-	-
Prionospio heterobranchia	8	-	25	17	17
Scolelepis sp.	-	8	8	25	8
Stenoninereis martini	183	-	-	-	-
Streblospio benedicti	2,008	-	17	-	-
Streblospio sp.	-	-	-	8	-
Arthropoda					
Crustacea					
Amphipoda					
Ameroculodes sp. A	8	117	470	134	400
Ampelisca abdita	342	242	759	2,112	788
Ampelisca holmesi	25	100	483	360	246
Amphilochidae	8	-	-	-	-
Aoridae	8	-	-	-	-
Bemlos sp.	-	-	-	-	34
Bemlos/plesiolembos complex	-	-	8	25	-
Cerapus sp.	-	-	8	-	-
Ericthonius brasiliensis	-	-	176	142	228
Gammaropsis sp.	-	-	17	-	-
Gammarus mucronatus	142	58	50	50	8
Grandidierella bonnieroides	7,999	1,067	176	259	379
Hyalella azteca	8	-	-	-	-
Melita longisetosa	224	8	-	-	-
Melita nitida	26	-	-	-	-
Melitidae	-	-	-	8	-
Microprotopus raneyi	-	-	227	317	150
Monocorophium acherusicum	-	-	42	184	118
Monocorophium sp.	-	25	-	-	-
Monocorophium sp. A	125	-	-	-	-
Rudilemboides naglei	-	-	25	17	307

Appendix 8a (contid)

	Site 1	Site 2	Site 3	Site 4	Site 5
Cumacea					
Cyclaspis varians	517	450	992	2,683	1,283
Oxyurostylis smithi	-	-	683	1,075	850
Oxyurostylis sp.	50	183	-	-	-
Decapoda					
Pinnotheridae	-	-	8	-	-
Xanthidae	8	-	-	8	-
Isopoda					
Cassidinidea ovalis	292	-	-	-	-
Cyathura polita	-	-	42	25	25
Edotea triloba	425	42	-	-	-
Xenanthura brevitelson	25	183	242	250	108
Mysidacea					
Americamysis sp.	-	25	-	-	-
Unidetermined Mysidacea	8	-	-	8	-
Tanaidacea					
Hargeria rapax	269	271	8	63	58
Pseudonototanais sp.	-	229	8	45	-
Pseudonototanais sp. B	65	-	-	-	-
Sinelobus stanfordi	25	-	-	-	-
Insecta					
Diptera					
Polypedilum scalaenum grp.	-	-	-	8	-
Trichoptera					
Leptoceridae	25	-	-	-	-
Mollusca					
Bivalvia					
Amygdalum papyrium	51	133	133	175	208
Anomalocardia auberiana	-	-	-	-	8
Chione sp.	9	-	8	-	8
Ensis minor	-	-	-	8	-
Lyonsia floridana	-	-	-	8	-
Macoma sp.	765	392	1,942	1,283	1,975
Mactrotoma fragilis	-	-	-	8	33
Mulinia lateralis	9	-	8	-	-
Mysella planulata	450	50	8	67	83
Parastarte triquetra	442	867	92	108	75
Tellina sp.	-	-	-	-	25
Gastropoda					
Acteocina canaliculata	127	-	-	-	329
Acteocina sp.	-	30	214	514	-
Acteocinidae	-	-	-	51	-
Astyris lunata	23	10	-	9	-
Bulla sp.	-	-	-	-	20
Caecum sp.	-	-	-	9	-
Eulimidae	-	-	-	9	-
Haminoea sp.	-	-	-	9	30
Hydrobiidae	-	-	-	214	-
Melanoides sp.	12	-	-	-	-
Nassarius sp.	-	41	-	-	-
Nassarius vibex	-	-	34	34	10
Odostomia sp.	-	-	-	17	20
Pyramidellidae	12	10	17	-	-
Rictaxis punctostriatus	-	10	-	43	40
Rictaxis sp.	-	-	9	-	-
Sayella fusca	23	40	26	-	-
Sayella sp.	-	-	-	-	10
Vitrinellidae	12	-	-	9	-
Nemertea					
Nemertea	508	775	558	508	542
Platyhelminthes					
Polycladida	-	-	-	25	-

Appendix 8b

Benthic macroinvertebrates collected in ponar samples from upstream and downstream of the City of Bradenton WWTP facility (February 20, 2007). Taxa collected and total number of individuals counted (n = 5 samples/site).

	Site 1	Site 2	Site 3	Site 4	Site 5
Annelida					
Oligochaeta					
Tubificidae	1	2	-	-	1
Polychaeta					
Arenicola cristata	1	-	-	-	-
Aricidea philbinae	13	-	13	14	5
Aricidea sp.	-	-	1	-	-
Aricidea taylori	-	-	8	14	9
Capitella sp.	487	97	34	58	46
Diopatra sp.	1	-	-	-	-
Dipolydora socialis	-	-	-	3	-
Eteone heteropoda	4	-	4	5	4
Glycinde solitaria	-	2	1	8	3
Hesionidae	2	-	-	-	-
Heteromastus filiformis	6	4	-	-	-
Heteromastus sp.	3	1	-	-	-
Laeonereis culveri	5	-	1	6	4
Leitoscoloplos sp.	2	3	15	19	13
Mediomastus ambiseta	208	100	498	540	710
Mediomastus sp.	108	33	374	303	339
Melinna maculata	4	-	2	3	3
Melinna sp.	-	-	1	4	1
Neanthes succinea	2	-	-	-	-
Nereididae	-	2	2	-	-
Nereiphylla fragilis	-	-	-	1	1
Orbiniidae	2	-	-	-	-
Paraprionospio pinnata	1	-	-	-	-
Pectinaria gouldi	-	-	-	1	-
Pectinaria sp.	1	-	-	-	-
Phyllodoce mucosa	-	-	-	3	1
Phyllodoce sp.	-	1	-	-	-
Phyllodocidae	-	1	-	-	-
Prionospio heterobranchia	1	-	2	2	2
Prionospio sp.	-	-	1	-	-
Scolelepis sp.	-	1	1	3	1
Stenoninereis martini	22	-	-	-	-
Streblospio benedicti	111	-	1	-	-
Streblospio sp.	130	-	1	1	-
Arthropoda					
Crustacea					
Amphipoda					
Ameroculodes sp.	-	5	-	-	-
Ameroculodes sp. A	1	9	56	16	48
Ampelisca abdita	41	29	88	223	93
Ampelisca holmesi	3	12	56	38	29
Ampelisca sp.	-	-	4	35	2
Amphilochidae	1	-	-	-	-
Aoridae	1	-	-	-	1
Bemlos sp.	-	-	-	-	4
Bemlos/plesiolembos complex	-	-	1	3	-
Cerapus sp.	-	-	1	-	-
Corophiidae	-	-	-	-	1
Ericthonius brasiliensis	-	-	21	17	27
Gammaropsis sp.	-	-	2	-	-
Gammarus mucronatus	17	7	6	4	1
Gammarus sp.	-	-	-	2	-
Grandidierella bonnieroides	959	128	21	31	45
Hyalella azteca	1	-	-	-	-

Appendix 8b (continued)

	Site 1	Site 2	Site 3	Site 4	Site 5
Melita longisetosa	26	1	-	-	-
Melita nitida	3	-	-	-	-
Melita sp.	1	-	-	-	-
Melitidae	-	-	-	1	-
Microprotopus raneyi	-	-	27	38	18
Monocorophium acherusicum	-	-	5	15	12
Monocorophium sp. a	9	3	-	7	2
Monocorophium sp. A	6	-	-	-	-
Rudilemboides naglei	-	-	3	2	36
Undetermined Amphipoda	1	-	2	1	-
Cumacea					
Cyclaspis varians	62	54	119	322	154
Oxyurostylis smithi	-	-	5	21	33
Oxyurostylis sp.	6	22	77	108	69
Decapoda					
Pinnotheridae	-	-	1	-	-
Xanthidae	1	-	-	1	-
Isopoda					
Cassidinidea ovalis	35	-	-	-	-
Cyathura polita	-	-	5	3	3
Edotea triloba	51	5	-	-	-
Xenanthura brevitelson	3	22	29	30	13
Mysidacea					
Americamysis	-	1	-	-	-
Undetermined Mysidacea	1	2	-	1	-
Tanaidacea					
Hargeria rapax	29	32	1	7	6
Leptocheliidae	4	1	-	-	1
Pseudonototanais sp.	3	27	1	5	-
Pseudonototanais sp. B	4	-	-	-	-
Sinelobus stanfordi	3	-	-	-	-
Undetermined Tanaidacea	-	-	-	1	-
Insecta					
Diptera					
Polypedilum scalaenum grp.	-	-	-	1	-
Trichoptera					
Leptoceridae	3	-	-	-	-
Mollusca					
Bivalvia					
Amygdalum papyrium	6	16	16	21	25
Anomalocardia auberiana	-	-	-	-	1
Chione sp.	1	-	1	-	1
Ensis minor	-	-	-	1	-
Lyonsia floridana	-	-	-	1	-
Macoma sp.	90	45	228	149	235
Mactrotoma fragilis	-	-	-	1	4
Mulinia lateralis	1	-	1	-	-
Mysella planulata	53	6	1	8	10
Parastarte triquetra	52	104	11	13	9
Tellina sp.	-	-	-	-	3
Tellinidae	-	2	5	5	2
Undetermined Bivalvia	4	-	-	-	-
Gastropoda					
Acteocina canaliculata	4	-	-	-	2
Acteocina sp.	7	3	25	60	31
Acteocinidae	-	-	-	6	-
Astyris lunata	2	1	-	1	-
Bulla sp.	-	-	-	-	2
Caecum sp.	-	-	-	1	-
Eulimidae	-	-	-	1	-
Haminoea sp.	-	-	-	1	3
Hydrobiidae	-	-	-	25	-

Appendix 8b (continued)

		Site 1	Site 2	Site 3	Site 4	Site 5
	Melanoides sp.	1	-	-	-	-
	Nassarius sp.	-	4	-	3	-
	Nassarius vibex	-	-	4	1	1
	Odostomia sp.	-	-	-	2	1
	Pyramidellidae	1	1	2	-	1
	Rictaxis punctostriatus	-	1	-	5	4
	Rictaxis sp.	-	-	1	-	-
	Sayella fusca	2	4	3	-	-
	Sayella sp,	-	-	-	-	1
	Undetermined Gastropoda	7	3	1	3	9
	Vitrinellidae	1	-	-	1	-
Nemertea						
	Nemertea	61	93	67	61	65
Platyhelminthes						
	Polycladida	-	-	-	3	-

The Bioassay of City of Bradenton Water Reclamation Facility effluent sampled on February 19, 2007. NPDES #FL0021369.

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 F L 0 0 2 1 3 6 9 11	12 0 7 0 2 1 9	18 **B**	19 **S**	20 1

Remarks

66

The Priority Pollutants Analysis of City of Bradenton Water Reclamation Facility effluent sampled on February 19, 2007. NPDES #FL0021369.

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 F L 0 0 2 1 3 6 9 11	12 0 7 0 2 1 9	18 **X**	19 **S**	20 1

Remarks

66

Biological Analyses of City of Bradenton Water Reclamation Facilty effluent sampled on February 19, 2007. NPDES #FL0021369.

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 F L 0 0 2 1 3 6 9 11	12 0 7 0 2 1 9	18 **S**	19 **S**	20 1

Remarks

66