

Biological Assessment of

Milton Wastewater Treatment Plant

Santa Rosa County

NPDES #FL0021903

October 28, 2003

June 2004

Biology Section

Bureau of Laboratories

Division of Resource Assessment and Management

Quality Manual No. 870346G

NELAC Certification No. E31780

Florida Department of Environmental Protection

Fifth Year Inspection Summary

Discharger:	Milton WWTP
County:	Santa Rosa
NPDES Number:	FL0021903
Permit Expiration:	March 16, 2008

Toxics Sampling Inspection **(XSI)**

Date Sampled: 10/28/03

Results: No organic priority pollutants were detected in the effluent sample. Aluminum, cadmium, copper, iron, lead, nickel, and zinc were detected in the effluent at levels that complied with Class III Freshwater Quality Criteria. Silver was detected in the effluent (0.087 ug/L) at a level that exceeded the Class III Freshwater Quality Criteria (0.07 ug/L) 62-302.530 (24) F.A.C.

Compliance Biomonitoring Inspection **(CBI)**

Date Sampled: 10/28/03

Results: The effluent sample was not acutely toxic to the fish, *Pimephales promelas,* or to the water flea, *Ceriodaphnia dubia,* during the 48-hour acute screening bioassays.

Water Quality Inspection **(WQI)**

Date Sampled: 10/28/03

Results: Total coliforms were detected in the effluent at a level that did not exceed the permit limit. Fecal and total coliforms complied with Class III Water Quality Criteria at all receiving water stations. Dissolved oxygen, pH, and conductivity in the effluent complied with Class III Freshwater Criteria and permit limits. Nutrient levels were higher at receiving water Stations 1 and 2 suggesting nutrient enrichment associated with the effluent. Algal growth potential was significantly above the 5 mg dry wt/L "problem" threshold in the effluent sample (127 mg dry wt/L) and at Station1 (87.4 mg dry wt/L) and Station 2 (111 mg dry wt/L) using the freshwater test organism. The marine test species was used at Stations 3-6 where conductivity values were higher. Station 6 was at the 10 mg dry wt/L marine "problem" threshold while Stations 3-5 were below this level.

Impact Bioassessment Inspection **(IBI)**

Date Sampled: 10/28/03

Results: Stations were established along an effluent dilution gradient using rhodamine dye injected into the effluent stream. Sediment samples were collected at six receiving water stations. A total of fouteen organic compounds including pesticides and polychlorinated biphenyls were detected at Stations 2 and 3. These values were compared against the Sediment Quality Assessement Guidelines (SQAGs) developed for Florida that are based on a weight of evidence that links contaminant concentrations to adverse biological effects. Several organic compounds were present at levels not considered to represent significant harm to aquatic organisms. The pesticide, chlordane (10 ug/kg), however, was above the Probable Effect Level (PEL). Contaminants above the PEL are usually associated with adverse biological effects (MacDonald 1994).

Cadmium, chromium, copper, lead, nickel, and silver were detected in sediment samples at levels that were not significantly elevated relative to background concentrations measured throughout Florida.

Station 3 had the largest percentage of organic material in the sediments and was the only site where PCBs and pesticides were detected. Further, the Shannon-Weaver diversity score was lowest at Station 3. The benthic macroinvertebrate communities at the other stations did not appear to be affected by the outfall.

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 Milton WWTP Plant is a domestic wastewater facility located in Santa Rosa County, Florida (Appendix 1). Treatment at this plant includes an influent pump station, pretreatment, a carousel oxidation ditch, clarification, chlorination, and dechlorination (see Facility Summary in Appendix 2). The effluent is discharged into the Class III Freshwaters of the Blackwater River, an Outstanding Florida Water. While classified as freshwater, the Blackwater River is tidally influenced throughout the study area. Residuals are dried on beds and land-applied on a 276-acre agricultural site in Santa Rosa County. The design flow of the wastewater system is 2.5 million gallons per day (MGD). The actual mean flow for August through October 2003 was 1.63 MGD (R. Hinote, Superintendent, Milton WWTP).

Class III Freshwater and Marine Surface Water Quality Criteria and facility permit limits are listed in Table 1. The facility's permit is based upon Class III Freshwater Surface Water Quality Criteria. According to the facility's discharge monitoring reports, the plant exceeded its permit limit for zinc, copper, and lead in July 2003 and a second exceedance for zinc was noted in November 2003 (Appendix 9).

Methods

The purpose of this investigation was to determine the potential effects of the facility's effluent on the biota of the receiving waters using marine protocols. The facility's permit was renewed prior to this study; therefore, this study was not conducted as part of the routine Fifth Year Inspection monitoring process but rather to test alternative methods for sampling in tidally influenced systems.

The Milton WWTP outfall pipe extends ~5m from the west bank of the tidally influenced Blackwater River at a depth <0.5m at low tide. Chemical and biological comparisons were made along a gradient of effluent exposure. Exposure to effluent was estimated using effluent rhodamine dye measurements during incoming and outgoing tides. The dye plume was tracked using a flourometer and a multi-probe meter.

A 100 ppb initial dye concentration was injected into the effluent stream at the NPDES sampling point. The background fluorescence of the Blackwater River at the time of sampling was <1 ppb. The maximum initial concentration of dye in the receiving waters at the Point of Discharge (POD) was 58 ppb and the average initial concentration was 54 ppb (Table 3). All samples were collected on an outgoing tide. Stations 1 and 2 were approximately 2m and 4m downstream of the outfall pipe, respectively and were exposed to effluent concentrations of ~23% and ~13%. Station 3 was 8m downstream and Station 4 was 12m downstream; each were exposed to an effluent concentration of ~5%. Stations 5 and 6 were 15m and 20m downstream, respectively and were exposed to ~4% effluent concentration. There were no control or background sites for this study.

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: Joy Jackson and Ken Espy (FDEP Central Laboratory), with help from Frank Butera and Shelley Alexander (FDEP Northwest District). The report was reviewed by District representatives and the Point Source Studies Review Committee (Wayne Magley, Chuck Ziegmont 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. Silver was detected in the effluent (0.087 µg/L) at a level that exceeded the Class III Freshwater Quality Criteria (0.07 µg/L) 62-302.530 (24) F.A.C. Aluminum, cadmium, copper, iron, lead, nickel, and zinc were detected in the effluent at levels that complied with Class III Freshwater Quality Criteria. No organic priority pollutants were detected in the effluent. Effluent conductivity (µmhos/cm), pH (Standard Units) and dissolved oxygen (mg/L) did not exceed Class III Freshwater Water Quality Criteria (62-302 F.A.C.) or facility permit limits.
- The effluent sample was not acutely toxic to the fish, *Cyprinella leedsi,* or to the water flea, *Ceriodaphnia dubia,* during 48-hour acute screening bioassays (See Table 1 for percent mortality and Appendix for bioassay bench sheets).
- Effluent total residual chlorine (0.16 mg/L) exceeded the facility's permit limit (0.01 mg/L) and the Class III Freshwater Quality Criteria of 0.01 mg/L (62-302(19) F.A.C.).
- The Milton WWTP effluent pipe extends ~5 m into the tidally influenced Blackwater River at a depth <0.5 m at low tide. The adjoining shoreline was developed with vertical seawalls and some commercial and industrial facilities in the immediate area. The opposite shore was less developed and consisted primarily of native vegetation. All samples were collected during an outgoing tide
- Rhodamine dye was pumped into the effluent at a level that would yield

Table 1. Effluent limits, Class III Criteria and chemical, microbiological, and toxicological data.

Milton WWTP	Class III Marine Stds	Class III Freshwater Stds	Effluent Limits	Effluent Samples	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6
Organic Constituents (µg/L)										
None Detected	-		-	-	-	-	-	-	-	-
Metals (µg/L unless otherwise noted)										
Aluminum	-	-	-	71	-	-	-	-	-	-
Arsenic	≤50	≤50	-	6.0 U	-	-	-	-	-	-
Cadmium	≤9.3	≤1 b	-	0.12	-	-	-	-	-	-
Calcium (mg/L)	-	-	-	29.7	-	-	-	-	-	-
Chromium-III	-	≤74.1 b	-	3.0 U	-	-	-	-	-	-
Copper	≤3.7	≤8 b	≤8 b	5.3	-	-	-	-	-	-
Iron	≤300	≤1000	-	47 I	-	-	-	-	-	-
Lead	≤8.5	≤2.5 b	≤2.5 b	0.27	-	-	-	-	-	-
Magnesium (mg/L)	-	-	-	2.2	-	-	-	-	-	-
Nickel	≤8.3	≤44.7 b	-	6.6 I	-	-	-	-	-	-
Selenium	≤71	≤5	-	1.0 U	-	-	-	-	-	-
Silver	≤2.3	≤0.07	Report	0.087	-	-	-	-	-	-
Zinc	≤86	≤102.5 b	≤102.5 b	49	-	-	-	-	-	-
Nutrients (mg/L)										
Ortho-phosphate	-	-	Report	3.4	-	-	-	-	-	-
Total Phosphorus	-	-	Report	3.3 A	2.0	2.7	1.4 A	0.99	0.18	0.14
Ammonia	-	-	Report	0.021 A	0.038 I	0.042	0.037 I	0.03 I	0.12	0.033 I
Unionized Ammonia	-	≤0.02	Report	-	< 0.02 c	< 0.02 c	< 0.02 c	< 0.02 c	< 0.02 c	< 0.02 c
Nitrate+Nitrite	-	-	Report	2.0 A	1.6	1.9	1.2	1.0	0.46 A	0.44
Total Kjeldahl Nitrogen	-	-	Report	0.89 A	0.8	0.88	0.62 A	0.48	0.43	0.36
Organic Nitrogen	-	-	-	0.87 c	0.76 c	0.84 c	0.58 c	0.45 c	0.31 c	0.33 c
Total Nitrogen	-	-	Report	2.89 c	2.4 c	2.78 c	1.82 c	1.48 c	0.89 c	0.8 c
General Physical and Chemical Parameters										
Dissolved Oxygen (mg/L)	≥4.0	≥5	-	7.6	7.9	8.0	7.8	7.6	8.0	7.9
pH (S.U.)	-	-	6.5-8.5 s	6.9	6.8	6.7	6.7	6.5	6.6	6.6
Conductivity (umhos/cm)	-	≤1275	-	420	4504	4161	4770	3144	3076	3242
Temperature (C)	-	-	Report	22.9	21.8	21.5	21	20.2	20.3	20.3
BOD, 5 day (mg/L)	-	-	-	1.8 J	-	-	-	-	-	-
TSS (mg/L)	-	-	40 s	4.0 U	4.0 U	4.0 U	6.0 I	4.0 I	4.0 I	8.0 U
Oil and Grease (mg/L)	≤5.0	≤5	-	0.95 I	-	-	-	-	-	-
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)	-	-	-	-	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
Flow (Million Gallons / Day)	-	-	2.5	1.63	-	-	-	-	-	-
Hardness (mg/L)	-	-	Report	83.2 c	-	-	-	-	-	-
Total Residual Chlorine (mg/L)	≤0.01	≤0.01	≤0.01	0.16	-	-	-	-	-	-
Microbiology (# counts/100ml)										
Fecal Coliforms	800 s	800 s	800 s	10 U	106	102	380	210	320	385 A
Total Coliforms	2400 s	2400 s	-	10 B	630	750	820 B	990 B	1300 B	1950 A
Toxicology Bioassays (48-hour static, screening bioassay, percent mortality in 100% effluent)										
Fish	-	-	NOEC	0%	-	-	-	-	-	-
Water flea	-	-	NOEC	0%	-	-	-	-	-	-

Value exceeds the Class III Water Quality Criteria

b - Value is calculated based on hardness

c - Value is calculated.

s - Single sample

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

B -Results based on colony counts outside the acceptable range.

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

J - Estimated Value

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

NOEC - A no observed effect concentration less than 100% effluent will constitute a violation of this permit

Table 2. Measured and predicted algal growth potential (AGP) for total soluble nitrogen (TSIN) and ortho phosphate (OP) limitation.

Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Inorganic N:P ratio
Effluent Sample*	127 A	76.8 ± 15.36	0.59
Station # 1*	87.4	62.24 ± 12.448	1.64
Station # 2*	111	73.8 ± 14.76	1.94
Station # 3**	7.93	-	-
Station # 4**	6.29	-	-
Station # 5**	7.27	-	-
Station #6**	10.0	-	-

A - Value reported is the mean of two or more determinations
* Tested with *P. subcapitata*
** Tested with *D. tertiocola.*

approximately 100 ppb at the end of the effluent pipe during an approximate 6-hr continuous injection (see Appendix 3 for a complete methods description). The dye plume was tracked using a fluorometer, and buoys were set to mark the sampling stations. Stations were selected based on having similar depths and bottom substrates, and varying effluent exposure.

- Dissolved oxygen, conductivity and pH in the receiving water complied with Class III Freshwater Criteria.
- Fecal and total coliforms were detected in the receiving waters and in the effluent at levels that did not exceed Class III Water Quality Criteria of permit limits (See Table 1 for results and Appendix 6 for laboratory worksheets).
- Effluent concentrations of total phosphorus (3.3 mg/L), nitrate+ nitrite (2.0 mg/L), and TKN (0.89 mg/L) contributed to elevated nutrient levels at Stations 1 and 2 (Table 1). Effluent total nitrogen was 2.89 mg/L. Ammonia in the effluent sample (0.021 mg/L) was lower than values measured at the receiving water sites (0.03-0.042 mg/L).
- In general, nutrients were higher at stations closest to the outfall suggesting enrichment in the receiving water associated with the effluent. At Stations 1-4, total phosphorus was greater than values in 95% of Florida estuaries. At Stations 5 and 6, total phosphorus was greater than 70% and 60% of typical values, respectively. TKN was greater than 60% and 70% of typical values at Station 1 and 2, respectively. And, at Stations 3-6, TKN was less than 50% of typical estuarine values. At all stations, nitrate+nitrite was greater than 95% of values typical of Florida estuaries.
- 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 5.0 mg dry wt/L represents a "problem" threshold for freshwaters while 10.0 mg dry wt/L represent a "problem" threshold for marine receiving waters. Levels above these thresholds imply nutrient enrichment. Algal growth potential was significantly above the 5 mg dry wt/L "problem" threshold in the effluent sample (127 mg dry wt/L) and at Station 1 (87.4 mg dry wt/L) and Station 2 (111 mg dry wt/L) using the freshwater test organism, *Pseudo-kirchneriella subcapitata* (Table 2). The marine test species, *Dunaliella tertiolecta*, was used at Stations 3-6 where

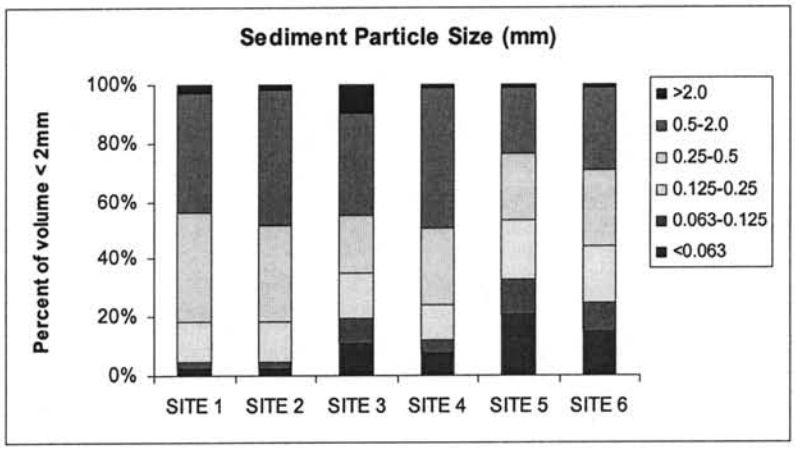


Figure 1. Sediment particle size by station, Milton WWTP, October 28, 2003.

Table 3. Sediment charcterisitcs, presence of organic constituents and metals content

Milton WWTP	Station #1	Station #2	Station #3	Station #4	Station #5	Station #6
Particle size distribution (percent volume <2mm)						
<0.063 mm	2.39	2.62	12.2	7.49	20.7	15.2
0.063-0.125 mm	2.4	2.1	9.21	4.77	12.1	9.72
0.125-0.25 mm	14.2	13.8	17.8	12	21.2	19.8
0.25-0.5 mm	38.9	34.2	21.9	26.7	23.3	26.9
0.5-2.0 mm	42.1	47.3	39	49.1	22.7	28.3
>2.0 mm (percent dry weight)	2.8	2	11	1 K	1 K	1 K
Organic content						
Organic content as percent of dry w	2.2	1.2	7.5	1.2	3.4	1.9
Organic constituents (ug/kg)						
Benzo(a)anthracene	83 U	210 * I	110 U	84 U	93 U	84 U
Benzo(a)pyrene	83 U	330 * I	110 U	84 U	93 U	84 U
Benzo(b)fluoranthene	83 U	380	110 U	84 U	93 U	84 U
Benzo(g,h,i)perylene	83 U	180 I	110 U	84 U	93 U	84 U
Benzo(k)fluoranthene	83 U	110 I	110 U	84 U	93 U	84 U
Chrysene	83 U	240 * I	110 U	84 U	93 U	84 U
Fluoranthene	83 U	310 * I	110 U	84 U	93 U	84 U
Indeno(1,2,3-cd)pyrene	83 U	160 I	110 U	84 U	93 U	84 U
Phenanthrene	83 U	190 * I	110 U	84 U	93 U	84 U
Pyrene	83 U	300 * I	110 U	84 U	93 U	84.0 U
Pesticides (ug/kg)						
Chlordane	6.9 U	6.9 U	10 * & ** I	6.9 U	7.7 U	6.9 U
Polychlorinated biphenyls (ug/kg)						
PCB-1254	9.6 U	9.6 U	18 I	9.7 U	11 U	9.7 U
DDD-p,p'	0.9 U	0.92 U	1.7 * I	0.92 U	1 U	0.92 U
DDE-p,p'	0.9 U	0.92 U	2.9 * I	0.92 U	1 U	0.92 U
Metals (mg/kg)						
Cadmium	0.037 I	0.023 I	0.093	0.022 I	0.041	0.026 I
Chromium	1.9 U	2 U	7 I	2.3 I	4.6 I	3.3 I
Copper	1.5	1.05	6.59	1.17	2.29	1.86 A
Lead	2	2.2	10	3.9	7.7	5.8 A
Nickel	0.6 I	0.62 I	1.3 I	0.65 I	1.1 I	0.87 I
Silver	0.12	0.07	0.37	0.054	0.11	0.074 A

* Exceeds the threshold efflects level from the Sediment Quality Guidelines (MacDonald et al. 1994)

** Exceeds the probable efflects level from the Sediment Quality Guidelines (MacDonald et al. 1994)

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

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

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

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

conductivity values were higher. Station 6 was at the 10 mg dry wt/L marine "problem" threshold. These data provide evidence of nutrient enrichment in this portion of the Blackwater River. There was no evidence of growth inhibition in AGP data from the effluent sample (Table 2).

- Chlorophyll *a* was not detected in samples of the effluent or from the receiving water sites (Table 1). Nutrients in the water column may or may not fuel algal production immediately, depending upon the sum of environmental conditions that limit algal growth at the site (e.g. pH, shading, turbidity). Thus, it is not necessarily contradictory for ambient nutrient levels to be high and for no chlorophyll to be detected in water samples.
- Sediments were collected at all six receiving water stations for determination of contaminant concentrations, grain size, and percent organic content (Table 3). Sediments were mostly sand with some finer silt and clay-sized particles (Figure 1). The sediments at Stations 1-4 had a greater percentage of larger particles (0.5-2.00mm) compared to Stations 5-6. The percentage of organic material was greatest at Station 3 (Figure 2).
- The concentration of metals in the sediments was measured from samples collected at all study sites. Metals were extracted using total recoverable metals techniques. However, because it was not possible to use perchloric and hydrofluoric acid digestions at the time of this study, results are underestimates of sediment total metal content. For this reason, the aluminum normalization tool (MacDonald 2003, Carvalho et al. 2002) is not appropriate to use for interpretation. Data were compared to Florida Sediment Quality Guidelines (MacDonald, *et al* 2000a). Cadmium, chromium, copper, lead, nickel, and silver were detected in sediment samples at levels that were not significantly elevated relative to background concentrations measured throughout Florida (Table 3). No metals were present above Threshold Effects Levels (TEL).
- A total of fourteen organic compounds including pesticides and polychlorinated biphenyls were detected at Stations 2 and 3 (Table 3). These values were compared against the Sediment Quality Assessment Guidelines (SQAGs) developed for Florida and are based on a weight of evidence that links contaminant concentrations to adverse biological effects. Most of the compounds were present at levels not considered to represent significant harm to aquatic organisms. The pesticide chlordane (10 µg/kg), however, was above the Probable Effect Level (PEL). Contaminants above the PEL are usually associated with adverse biological effects (MacDonald 1994).
- Station 3 had the largest percentage of organic material in the sediments and was the only site where PCBs and pesticides were detected. This is also the site with the lowest Shannon-Weaver diversity score. The benthic macroinvertebrate communities at the other stations did not appear to be affected by the outfall. All samples contained organisms indicative of tidally influenced systems, including marine polychaetes and freshwater chironomids (Table 4, Appendix 10).

Summary

Silver was detected in the effluent (0.087 µg/L) at a level that exceeded the Class III Freshwater Quality Criteria (0.07 µg/L) 62-302.530 (24) F.A.C and warrants further sampling as part of the facility's monitoring reports. Aluminum, cadmium, iron, lead, nickel, and zinc were detected in the effluent at levels that complied with Class III Freshwater Quality Criteria.

Effluent nutrients may have been responsible for elevated levels in the stations nearest the outfall. Algal growth exceeded the "problem" threshold in the effluent sample (127 mg dry wt/L) at Stations 1 (87.4 mg dry wt/L), 2 (111 mg dry wt/L), and 6 (10 mg dry wt/L). These data are a cause for concern regarding nutrient loading from the facility.

Effluent total residual chlorine (0.16 mg/L) failed to comply with the facility's permit limit and the Class III Freshwater Quality Criteria (0.01 mg/L) (62-302(19) F.A.C.).

Several organic priority pollutants were detected in sediment samples from Stations 2 and 3. The presence of the pesticide, chlordane, at a concentration exceeding the PEL (10 µg/kg) at Station 3 may in part explain the reduction in diversity in the benthic macroinvertebrate community at this station.

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.

Table 4. Macroinvertebrate Ponar Samples - Quantitative

Milton WWTP	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6
Summary Statisics						
Shannon-Weaver Diversity	2.59	4.1	2.08	2.74	3.03	2.48
Number of Taxa	16	38	19	13	26	13
Percent Dominant Taxon	41.8	11.76	64.36	35.49	42.12	52.04
Dominant Taxon (name)	*Stictochironomus devinctus*	*Polydora cornuta*	*Laeonereis culveri*	*Laeonereis culveri*	*Polydora cornuta*	*Laeonereis culveri*
Dominant Taxon (group)	Diptera	Polychaeta	Polychaeta	Polychaeta	Polychaeta	Polychaeta
Number of samples/site	5	5	5	5	5	3
Total Number of Individuals	114	408	261	101	311	121
Number of individuals/m^2	950	3400	2175	842	2592	1681
Community Composition: Percent of total						
Amphipoda	0.9	7.1	0.0	1.0	1.9	0.0
Decapoda	0.0	0.5	0.0	0.0	1.0	0.8
Diptera	65.8	23.3	8.4	19.8	8.0	14.9
Ephemeroptera	0.0	2.5	1.2	0.0	0.3	0.0
Gastropoda	2.6	10.8	2.3	1.0	1.3	0.0
Isopoda	0.0	0.3	0.8	0.0	5.1	5.0
Odonata	0.0	1.2	0.4	0.0	0.6	0.0
Oligochaeta	1.8	11.8	0.8	0.0	0.3	0.8
Pelecypoda	0.0	0.0	0.4	0.0	0.6	0.0
Polychaete	28.1	38.0	82.8	77.2	75.9	78.5
Trichoptera	0	1.72	1.15	0	1.29	0
Other	0.9	4.7	3.1	1.0	4.8	0.0
Functional Feeding Groups: Percent of total						
Browser / Grazer	0.4	3.4	0.4	0.5	2.7	2.5
Burrowing Deposit Feeders	1.8	11.8	0.8	7.9	0.3	2.5
Parasite	0.0	0.3	0.0	0.0	0.0	0.0
Piercers	0.9	9.9	0.8	1.1	4.3	1.7
Predators	11.4	10.0	33.9	32.9	18.1	33.9
Scavengers	0.4	3.6	0.4	0.5	3.2	2.5
Scrapers	1.8	2.9	4.0	0.0	1.5	0.0
Shredders	21.4	1.2	2.9	0.0	0.6	2.1
Surface Deposit Feeders	55.0	35.8	39.1	48.0	19.9	44.2
Suspension Feeders	3.5	8.8	4.4	7.9	6.0	7.4
Unknown	3.5	12.5	13.4	1.1	43.4	3.3

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.

Carvalho, A,, Schropp, S.J., Taylor Engineering, Inc., G. Sloane, T. Biernacki, and T. Seal. 2002. Development of an Interpretive Tool for Assessment of Metal Enrichment in Florida Freshwater Sediment. Prepared for FDEP.

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.

MacDonald Environmental Sciences Ltd. and USGS. 2003. Development and Evaluation of Numerical Sediment Quality Assessment Guidelines for Florida Inland Waters. Prepared for FDEP.

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

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.

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 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.

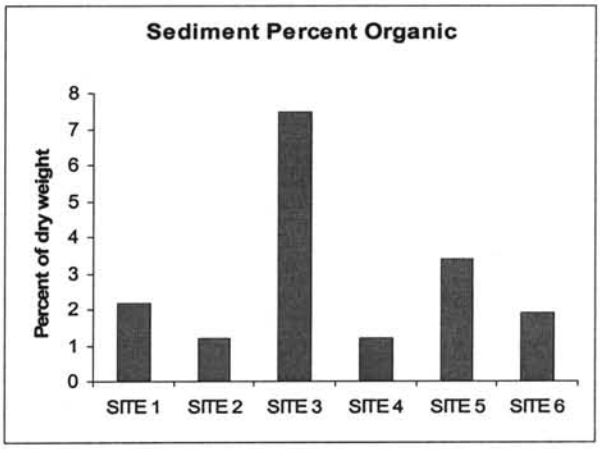
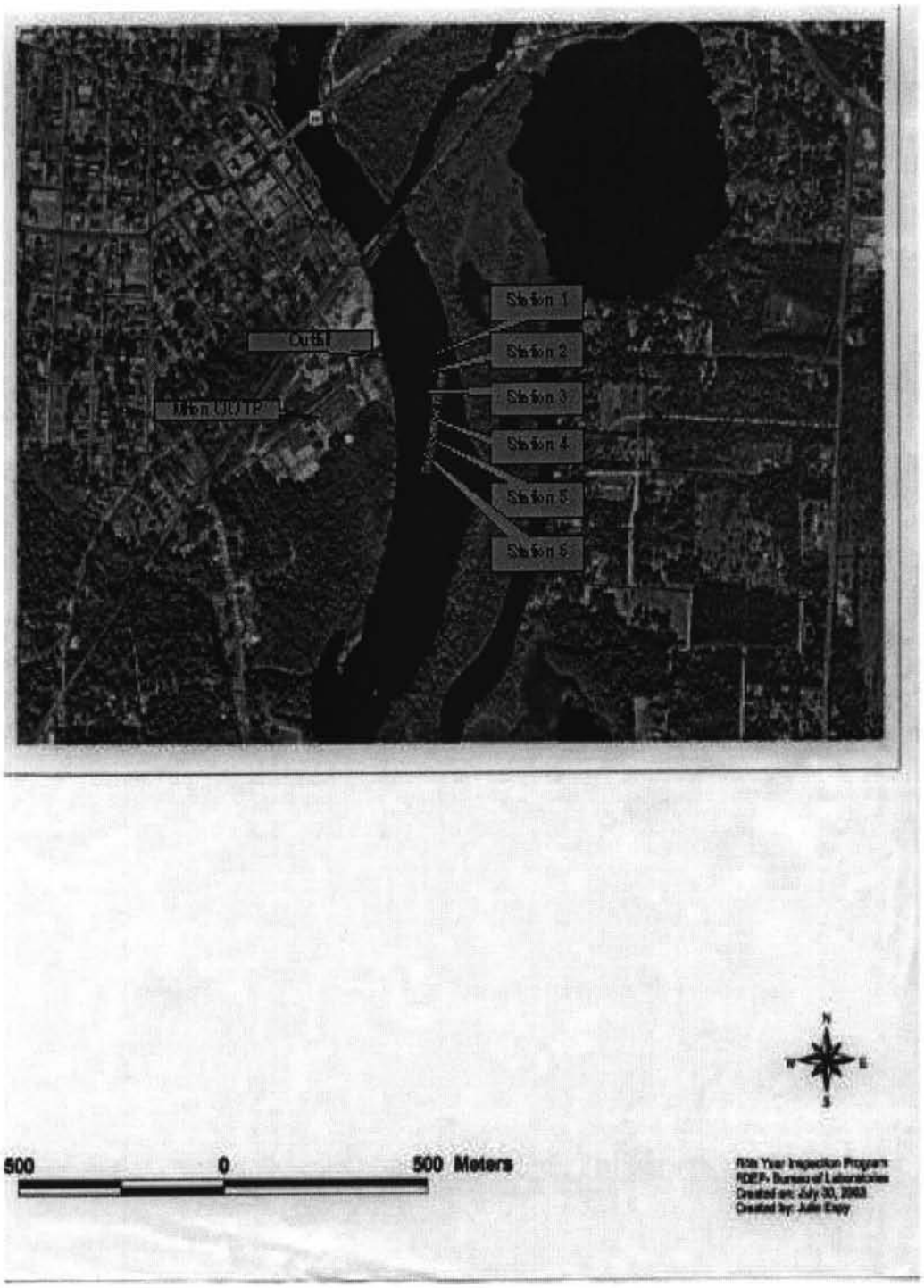


Figure 2. Sediment percent organic content by stations, Milton WWTP, October 28, 2003.

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 and microbiological 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 9. Discharge Monitoring Reports

Milton WWTP


Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
Outfall
Milton CWTP
N
W
E
S
500
0
500 Meters

Appendix 2

Facility Summary

Facility Name (as it appears on permit): Milton WWTF		**Former Names:**
Physical Address: 203 East Walker Street Milton, FL 32572	**NPDES Permit No.:** **Expiration Date:**	**Prepared By: Wesley Keller**
County: Santa Rosa **District: Northwest**	**State Permit No.: FL 0021903** **Expiration Date: March 7, 2008**	**Facility Type: Domestic Waste Water Treatment Facility**
Function of Facility: To treat domestic wastewater		
Sampling Location (specify lat/longs of NPDES point): 30°37'04"N, 87°02'02"W		
Description of treatment process: The extended aeration treatment train consists of an influent pump station, pretreatment, a carousel oxidation ditch, clarification, chlorination, and dechlorination. Effluent is discharged into the Blackwater River at a submerged outfall, D-001. Residuals are dried on bens and land-applied on a 276-acre agricultural site in Santa Rosa County.		
Receiving Waters: Blackwater River		**Classification: Class III Freshwater and a Outstanding Florida Water**
Temperature (C):	**Design Flow: 2.5 MGD**	
pH (SU):	**Mean Flow: 1.35 MGD(Based on Quarterly averages from 1999-2003)**	
Conductivity (umhos/cm):	**Flow During Survey:**	
Dissolved Oxygen (mg/L):	**Total Residual Chlorine (mg/L):**	
Discharge is: Continuous Intermittent Seasonal Rainfall Dependent Other		
Facility Mixing Zone Details: An existing 2.5 MGD three month average daily flow (TMADF) permitted discharge to Blackwater River an Outstanding Water, at discharge location (D-001) which is approximately 20 feet in length and discharges at a depth of approximately 1 foot. The point of discharge is located at 30°37'04"N, 87°02'02"W.		
List Effluent Limits:		

Parameter and Units	Limit	Describe special permit conditions and permit modifications:
Flow, MGD	2.5 TMADF	
PH, SU	Single sample (6.0-8.5)	
BOD, Carbonaceous 5 day, 20C, Units= MG/L	Monthly average 15.0	
Solids, Total Suspended, Units=MG/L	Monthly average 20.0	
Percent Capacity (TMADF/Permitted Capacity)* 100 Units= Percent	Report only (monthly)	
Coliform, Fecal #/100ML	Permit condition I.A.9 stating that arithmetic mean of monthly	

Parameter and Units	Limit	Describe special permit conditions and permit modifications:
Flow, MGD	2.5 TMADF	
PH, SU	Single sample (6.0-8.5)	
BOD, Carbonaceous 5 day, 20C, Units= MG/L	Monthly average 15.0	
Solids, Total Suspended, Units=MG/L	Monthly average 20.0	
Percent Capacity (TMADF/Permitted Capacity)* 100 Units= Percent	Report only (monthly)	
Coliform, Fecal #/100ML	Permit condition I.A.9 stating that arithmetic mean of monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of effluent sample	
Total Residual Chlorine,(For Disinfection) MG/L	Single sample 0.5	
Total Residual Chlorine,(For Dechlorination) MG/L	Single sample 0.01	
Nitrogen, Total as N, MG/L	Report Only	
Nitrogen, Kjeldahl, Total as N, MG/L	Report Only	
Nitrogen, Amonia, Total as N, MG/L	Report Only	
Nitrogen, Nitrate, and Nitrite as N, MG/L	Report Only	
Ammonia, Unionized as NH3, MG/L	Report Only	
Phosphorus, Total as P, MG/L	Report Only	

Description of permitted outfall: Discharge location (D-001), which is approximately 20 feet in length and discharges at a depth of approximately 1 foot. The point of discharge is located at 30°37'04"N, 87°02'02"W.

Date	Parameter Description	Data	Limit	Statistical Base	Units
1/31/1999	NOEL STATRE 7DAY CHR PIMEPHALES	<100	100	MINIMUM	PER-CENT
7/31/2003	ZINC, TOTAL RECOVERABLE	47.5	0.00	MAXIMUM	UG/L
7/31/2003	LEAD, TOTAL RECOVERABLE	0.91	0.00	MAXIMUM	UG/L
7/31/2003	COPPER, TOTAL RECOVERABLE	5.36	0.00	MAXIMUM	UG/L
11/30/2003	ZINC, TOTAL RECOVERABLE	59.4	0.00	MAXIMUM	UG/L

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

Describe previous impact bioassessments, WQBEL's, and previous or current enforcement actions:

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

Additional Information:

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, *Cyprinella leedsi* 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 total and 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 six sampling stations located on an effluent dilution gradient leading from close to the outfall where dilution was minimal to an area of intermediate dilution.

Rhodamine dye was continuously fed into the effluent stream and tracked in the receiving water using a fluorometer. Rhodamine is a conservative tracer and may be used to track dilution to <1% of effluent. Background readings of fluorescence were taken to correct for interference in the water column. Dye concentration was adjusted to give approximately 100-135 ppb at the end of the discharge pipe. The dye study was conducted on 27 October 2003. Dye injection began on an incoming tide (predicted high tide of 5.16 ft) and continued through slack water until low tide (predicted low tide of –0.71 ft, approximately 6 hr). A boat was used to continuously pump receiving water through the fluorometer, recording the dye concentration at the end of the outfall and tracking the path of the effluent plume.

Replicate stations were then established after measurement of effluent dilution in the receiving water. Because the effluent plume moved approximately parallel to the shoreline, stations were selected in the same depth of water at similar distances from the shoreline. Effluent dilution varied depending on tidal flow and was more rapid during periods of strong flow, so estimates of the exposure of stations to effluent were made based on the range of values recorded.

(6) Algal Growth Potential (AGP)

The effluent and water samples from the six 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	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:20	CORE BLANK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	77
10/28/2003 12:20	CORE BLANK	BNA-Water	1-Naphthylamine	9.6	ug/L	UJ	9.6	38
10/28/2003 12:20	CORE BLANK	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	2,4,5-Trichlorophenol	0.96	ug/L	UJ	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
10/28/2003 12:20	CORE BLANK	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58
10/28/2003 12:20	CORE BLANK	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2,6-Dichlorophenol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Acetylaminofluorene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Methylnaphthalene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Naphthylamine	9.6	ug/L	U	9.6	38
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Nitroaniline	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	2-Picoline	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	UJ	38	150
10/28/2003 12:20	CORE BLANK	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	U	19	77
10/28/2003 12:20	CORE BLANK	BNA-Water	3-Methylcholanthrene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	3-Nitroaniline	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4-Aminobiphenyl	3.8	ug/L	UJ	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4-Chloroaniline	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	4-Nitroaniline	0.96	ug/L	UJ	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
10/28/2003 12:20	CORE BLANK	BNA-Water	5-Nitro-o-toluidine	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Acetophenone	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Aniline	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:20	CORE BLANK	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Benzidine	96	ug/L	U	96	380
10/28/2003 12:20	CORE BLANK	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Benzyl alcohol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	UJ	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	UJ	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
10/28/2003 12:20	CORE BLANK	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
10/28/2003 12:20	CORE BLANK	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
10/28/2003 12:20	CORE BLANK	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Dibenzofuran	0.96	ug/L	UJ	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
10/28/2003 12:20	CORE BLANK	BNA-Water	Dimethylaminoazobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Dinoseb	3.8	ug/L	UJ	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	Ethyl methanesulfonate	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	Hexachloropropene	1.9	ug/L	UJ	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Isosafrole	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	Methyl methanesulfonate	0.96	ug/L	UJ	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosodi-n-butylamine	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosodiethylamine	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	UJ	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosomorpholine	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosopiperidine	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:20	CORE BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	UJ	19	77
10/28/2003 12:20	CORE BLANK	BNA-Water	Pentachlorobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
10/28/2003 12:20	CORE BLANK	BNA-Water	Pentachloronitrobenzene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
10/28/2003 12:20	CORE BLANK	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	12
10/28/2003 12:20	CORE BLANK	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	Pyridine	3.8	ug/L	UJ	3.8	15
10/28/2003 12:20	CORE BLANK	BNA-Water	Safrole	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
10/28/2003 12:20	CORE BLANK	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.7
10/28/2003 12:20	CORE BLANK	BNA-Water	o-Toluidine	0.96	ug/L	U	0.96	3.8
10/28/2003 12:20	CORE BLANK	GC-Water	Alachlor	0.59	ug/L	U	0.59	2.36
10/28/2003 12:20	CORE BLANK	GC-Water	Aldrin	0.0098	ug/L	U	0.0098	0.0392
10/28/2003 12:20	CORE BLANK	GC-Water	Alpha-BHC	0.0098	ug/L	U	0.0098	0.0392
10/28/2003 12:20	CORE BLANK	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Beta-BHC	0.0098	ug/L	U	0.0098	0.0392
10/28/2003 12:20	CORE BLANK	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
10/28/2003 12:20	CORE BLANK	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
10/28/2003 12:20	CORE BLANK	GC-Water	Chlordane	0.2	ug/L	U	0.2	0.8
10/28/2003 12:20	CORE BLANK	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Chlorpyrifos Methyl	0.098	ug/L	U	0.098	0.392
10/28/2003 12:20	CORE BLANK	GC-Water	DDD-p,p'	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	GC-Water	DDE-p,p'	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	GC-Water	DDT-p,p'	0.029	ug/L	U	0.029	0.116
10/28/2003 12:20	CORE BLANK	GC-Water	Delta-BHC	0.0098	ug/L	U	0.0098	0.0392
10/28/2003 12:20	CORE BLANK	GC-Water	Diazinon	0.049	ug/L	UJ	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Dieldrin	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	GC-Water	Endosulfan I	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	GC-Water	Endosulfan II	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	GC-Water	Endosulfan Sulfate	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Endrin	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Endrin Aldehyde	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Ethoprop	0.098	ug/L	U	0.098	0.392
10/28/2003 12:20	CORE BLANK	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
10/28/2003 12:20	CORE BLANK	GC-Water	Fonofos	0.098	ug/L	U	0.098	0.392
10/28/2003 12:20	CORE BLANK	GC-Water	Gamma-BHC	0.0098	ug/L	U	0.0098	0.0392
10/28/2003 12:20	CORE BLANK	GC-Water	Heptachlor	0.0098	ug/L	U	0.0098	0.0392
10/28/2003 12:20	CORE BLANK	GC-Water	Heptachlor Epoxide	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	GC-Water	Hexazinone	0.098	ug/L	U	0.098	0.392
10/28/2003 12:20	CORE BLANK	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
10/28/2003 12:20	CORE BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
10/28/2003 12:20	CORE BLANK	GC-Water	Methoxychlor	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:20	CORE BLANK	GC-Water	Metribuzin	0.098	ug/L	U	0.098	0.392
10/28/2003 12:20	CORE BLANK	GC-Water	Mevinphos	0.2	ug/L	UJ	0.2	0.8
10/28/2003 12:20	CORE BLANK	GC-Water	Naled	0.78	ug/L	U	0.78	3.12
10/28/2003 12:20	CORE BLANK	GC-Water	Norflurazon	0.098	ug/L	U	0.098	0.392
10/28/2003 12:20	CORE BLANK	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
10/28/2003 12:20	CORE BLANK	GC-Water	Parathion Methyl	0.098	ug/L	U	0.098	0.392
10/28/2003 12:20	CORE BLANK	GC-Water	Phorate	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
10/28/2003 12:20	CORE BLANK	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
10/28/2003 12:20	CORE BLANK	GC-Water	Toxaphene	0.74	ug/L	U	0.74	2.96
10/28/2003 12:20	CORE BLANK	Metals-Water	Aluminum	7	ug/L	U	7	28
10/28/2003 12:20	CORE BLANK	Metals-Water	Arsenic	6	ug/L	U	6	24
10/28/2003 12:20	CORE BLANK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
10/28/2003 12:20	CORE BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
10/28/2003 12:20	CORE BLANK	Metals-Water	Chromium	3	ug/L	U	3	12
10/28/2003 12:20	CORE BLANK	Metals-Water	Copper	1	ug/L	U	1	4
10/28/2003 12:20	CORE BLANK	Metals-Water	Iron	15	ug/L	U	15	60
10/28/2003 12:20	CORE BLANK	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
10/28/2003 12:20	CORE BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	Metals-Water	Nickel	3	ug/L	U	3	12
10/28/2003 12:20	CORE BLANK	Metals-Water	Selenium	1	ug/L	U	1	4
10/28/2003 12:20	CORE BLANK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
10/28/2003 12:20	CORE BLANK	Metals-Water	Zinc	4	ug/L	U	4	16
10/28/2003 9:58	EFFLUENT	Bio-AGP/LimNut	Algal Growth Potential	127	mg DryWt/L	A	0.1	0.3
10/28/2003 9:58	EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
10/28/2003 9:58	EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
10/28/2003 9:58	EFFLUENT	BNA-Water	1,2,4,5-Tetrachlorobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	1,2-Dichlorobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	1,3,5-Trinitrobenzene	4	ug/L	U	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	1,3-Dichlorobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	1,3-Dinitrobenzene	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	1,4-Dichlorobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	1,4-Naphthoquinone	20	ug/L	U	20	80
10/28/2003 9:58	EFFLUENT	BNA-Water	1-Naphthylamine	10	ug/L	UJ	10	40
10/28/2003 9:58	EFFLUENT	BNA-Water	2,3,4,6-Tetrachlorophenol	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	2,4,5-Trichlorophenol	1	ug/L	UJ	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2,4-Dichlorophenol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2,4-Dimethylphenol	50	ug/L	U	50	200
10/28/2003 9:58	EFFLUENT	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	60
10/28/2003 9:58	EFFLUENT	BNA-Water	2,4-Dinitrotoluene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2,6-Dichlorophenol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2,6-Dinitrotoluene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Acetylaminofluorene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Chloronaphthalene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Chlorophenol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	3	ug/L	U	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Methylnaphthalene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Naphthylamine	10	ug/L	U	10	40
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Nitroaniline	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Nitrophenol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	2-Picoline	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	40	ug/L	UJ	40	160

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 9:58	EFFLUENT	BNA-Water	3,3'-Dimethylbenzidine	20	ug/L	U	20	80
10/28/2003 9:58	EFFLUENT	BNA-Water	3-Methylcholanthrene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	3-Nitroaniline	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	4-Aminobiphenyl	4	ug/L	UJ	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	4-Chloroaniline	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	4-Nitroaniline	1	ug/L	UJ	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	4-Nitrophenol	15	ug/L	U	15	60
10/28/2003 9:58	EFFLUENT	BNA-Water	5-Nitro-o-toluidine	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	7,12-Dimethylbenz(a)anthracene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Acenaphthene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Acenaphthylene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Acetophenone	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Aldrin	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	Aniline	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Anthracene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Benzidine	100	ug/L	U	100	400
10/28/2003 9:58	EFFLUENT	BNA-Water	Benzo(a)anthracene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Benzo(a)pyrene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Benzo(b)fluoranthene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Benzo(k)fluoranthene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Benzyl alcohol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	1	ug/L	UJ	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	3	ug/L	UJ	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	60
10/28/2003 9:58	EFFLUENT	BNA-Water	Butyl benzyl phthalate	5	ug/L	U	5	20
10/28/2003 9:58	EFFLUENT	BNA-Water	Chrysene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Di-n-butyl phthalate	5	ug/L	U	5	20
10/28/2003 9:58	EFFLUENT	BNA-Water	Di-n-octyl phthalate	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Dibenzofuran	1	ug/L	UJ	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	Diethyl phthalate	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Dimethyl phthalate	50	ug/L	U	50	200
10/28/2003 9:58	EFFLUENT	BNA-Water	Dimethylaminoazobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Dinoseb	4	ug/L	UJ	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	Diphenylamine	3	ug/L	U	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	Endosulfan I	4	ug/L	U	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	Endosulfan II	4	ug/L	U	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	Endrin	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	Endrin aldehyde	4	ug/L	U	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	Ethyl methanesulfonate	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Fluoranthene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Fluorene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	6

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 9:58	EFFLUENT	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	Hexachlorobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Hexachlorobutadiene	3	ug/L	U	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	3	ug/L	UJ	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	Hexachloroethane	3	ug/L	U	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	Hexachloropropene	2	ug/L	UJ	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Isophorone	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Isosafrole	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Methapyrilene	4	ug/L	U	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	Methyl methanesulfonate	1	ug/L	UJ	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosodi-n-butylamine	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosodiethylamine	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosodimethylamine	2	ug/L	UJ	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	3	ug/L	U	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosomethylethylamine	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosomorpholine	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosopiperidine	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	N-Nitrosopyrrolidine	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	Naphthalene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Nitrobenzene	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	Nitroquinoline-1-oxide	20	ug/L	UJ	20	80
10/28/2003 9:58	EFFLUENT	BNA-Water	Pentachlorobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Pentachloroethane	50	ug/L	U	50	200
10/28/2003 9:58	EFFLUENT	BNA-Water	Pentachloronitrobenzene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Pentachlorophenol	3	ug/L	U	3	12
10/28/2003 9:58	EFFLUENT	BNA-Water	Phenacetin	4	ug/L	U	4	12
10/28/2003 9:58	EFFLUENT	BNA-Water	Phenanthrene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Phenol	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Pyrene	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	Pyridine	4	ug/L	UJ	4	16
10/28/2003 9:58	EFFLUENT	BNA-Water	Safrole	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	6
10/28/2003 9:58	EFFLUENT	BNA-Water	m,p-Cresols	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	o-Cresol	2	ug/L	U	2	8
10/28/2003 9:58	EFFLUENT	BNA-Water	o-Toluidine	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	GC-Water	Alachlor	0.62	ug/L	U	0.62	2.48
10/28/2003 9:58	EFFLUENT	GC-Water	Ametryn	0.052	ug/L	U	0.052	0.208
10/28/2003 9:58	EFFLUENT	GC-Water	Atrazine	0.052	ug/L	U	0.052	0.208
10/28/2003 9:58	EFFLUENT	GC-Water	Azinphos Methyl	0.052	ug/L	U	0.052	0.208
10/28/2003 9:58	EFFLUENT	GC-Water	Bromacil	0.21	ug/L	U	0.21	0.84
10/28/2003 9:58	EFFLUENT	GC-Water	Butylate	0.21	ug/L	U	0.21	0.84
10/28/2003 9:58	EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.052	ug/L	U	0.052	0.208
10/28/2003 9:58	EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
10/28/2003 9:58	EFFLUENT	GC-Water	Diazinon	0.052	ug/L	UJ	0.052	0.208
10/28/2003 9:58	EFFLUENT	GC-Water	Ethion	0.052	ug/L	U	0.052	0.208
10/28/2003 9:58	EFFLUENT	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
10/28/2003 9:58	EFFLUENT	GC-Water	Fenamiphos	0.21	ug/L	U	0.21	0.84
10/28/2003 9:58	EFFLUENT	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
10/28/2003 9:58	EFFLUENT	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 9:58	EFFLUENT	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
10/28/2003 9:58	EFFLUENT	GC-Water	Metalaxyl	0.26	ug/L	U	0.26	1.04
10/28/2003 9:58	EFFLUENT	GC-Water	Metolachlor	0.52	ug/L	U	0.52	2.08
10/28/2003 9:58	EFFLUENT	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
10/28/2003 9:58	EFFLUENT	GC-Water	Mevinphos	0.21	ug/L	UJ	0.21	0.84
10/28/2003 9:58	EFFLUENT	GC-Water	Naled	0.82	ug/L	U	0.82	3.28
10/28/2003 9:58	EFFLUENT	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
10/28/2003 9:58	EFFLUENT	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
10/28/2003 9:58	EFFLUENT	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
10/28/2003 9:58	EFFLUENT	GC-Water	Phorate	0.052	ug/L	U	0.052	0.208
10/28/2003 9:58	EFFLUENT	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
10/28/2003 9:58	EFFLUENT	GC-Water	Simazine	0.052	ug/L	U	0.052	0.208
10/28/2003 9:58	EFFLUENT	Metals-Water	Aluminum	71	ug/L		7	28
10/28/2003 9:58	EFFLUENT	Metals-Water	Arsenic	6	ug/L	U	6	24
10/28/2003 9:58	EFFLUENT	Metals-Water	Cadmium	0.12	ug/L		0.025	0.1
10/28/2003 9:58	EFFLUENT	Metals-Water	Calcium	29.7	mg/L		0.05	0.2
10/28/2003 9:58	EFFLUENT	Metals-Water	Chromium	3	ug/L	U	3	12
10/28/2003 9:58	EFFLUENT	Metals-Water	Copper	5.3	ug/L		1	4
10/28/2003 9:58	EFFLUENT	Metals-Water	Iron	47	ug/L	I	15	60
10/28/2003 9:58	EFFLUENT	Metals-Water	Lead	0.27	ug/L		0.05	0.2
10/28/2003 9:58	EFFLUENT	Metals-Water	Magnesium	2.2	mg/L		0.02	0.08
10/28/2003 9:58	EFFLUENT	Metals-Water	Nickel	6.6	ug/L	I	3	12
10/28/2003 9:58	EFFLUENT	Metals-Water	Selenium	1	ug/L	U	1	4
10/28/2003 9:58	EFFLUENT	Metals-Water	Silver	0.087	ug/L		0.02	0.08
10/28/2003 9:58	EFFLUENT	Metals-Water	Zinc	49	ug/L		4	16
10/28/2003 9:58	EFFLUENT	Nutrients-Liquid	Ammonia-N	0.021	mg N/L	A	0.01	0.02
10/28/2003 9:58	EFFLUENT	Nutrients-Liquid	NO2NO3-N	2	mg N/L	A	0.04	0.1
10/28/2003 9:58	EFFLUENT	Nutrients-Liquid	N_KJEL_TOT	0.89	mg N/L	A	0.06	0.2
10/28/2003 9:58	EFFLUENT	Nutrients-Liquid	O-Phosphate-P	3.4	mg P/L		0.24	0.6
10/28/2003 9:58	EFFLUENT	Nutrients-Liquid	TSS	4	mg/L	U	4	16
10/28/2003 9:58	EFFLUENT	Nutrients-Liquid	Total-P	3.3	mg P/L	A	0.08	0.24
10/28/2003 9:58	EFFLUENT	Overflow	Oil and Grease	0.95	mg/L	I		
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,2,4,5-Tetrachlorobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,2,4-Trichlorobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,2-Dichlorobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,3,5-Trinitrobenzene	4.5	ug/L	U	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,3-Dichlorobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,3-Dinitrobenzene	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,4-Dichlorobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1,4-Naphthoquinone	22	ug/L	U	22	90
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	1-Naphthylamine	11	ug/L	UJ	11	45
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,3,4,6-Tetrachlorophenol	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,4,5-Trichlorophenol	1.1	ug/L	UJ	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,4,6-Trichlorophenol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,4-Dichlorophenol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,4-Dimethylphenol	56	ug/L	U	56	220
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,4-Dinitrophenol	17	ug/L	U	17	67
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,4-Dinitrotoluene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,6-Dichlorophenol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2,6-Dinitrotoluene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Acetylaminofluorene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Chloronaphthalene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Chlorophenol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	3.4	ug/L	U	3.4	13

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Methylnaphthalene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Naphthylamine	11	ug/L	U	11	45
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Nitroaniline	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Nitrophenol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	2-Picoline	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	3,3'-Dichlorobenzidine	45	ug/L	UJ	45	180
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	3,3'-Dimethylbenzidine	22	ug/L	U	22	90
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	3-Methylcholanthrene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	3-Nitroaniline	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4,4'-DDD	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4,4'-DDE	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4,4'-DDT	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4-Aminobiphenyl	4.5	ug/L	UJ	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4-Bromophenyl phenyl ether	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4-Chloro-3-methylphenol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4-Chloroaniline	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4-Chlorophenyl phenyl ether	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4-Nitroaniline	1.1	ug/L	UJ	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	4-Nitrophenol	17	ug/L	U	17	67
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	5-Nitro-o-toluidine	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	7,12-Dimethylbenz(a)anthracene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Acenaphthene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Acenaphthylene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Acetophenone	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Aldrin	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Aniline	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Anthracene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Benzidine	110	ug/L	U	110	450
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Benzo(a)anthracene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Benzo(a)pyrene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Benzo(b)fluoranthene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Benzo(g,h,i)perylene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Benzo(k)fluoranthene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Benzyl alcohol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Bis(2-chloroethoxy)methane	1.1	ug/L	UJ	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Bis(2-chloroethyl)ether	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	3.4	ug/L	UJ	3.4	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	17	ug/L	U	17	67
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Butyl benzyl phthalate	5.6	ug/L	U	5.6	22
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Chrysene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Di-n-butyl phthalate	5.6	ug/L	U	5.6	22
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Di-n-octyl phthalate	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Dibenzo(a,h)anthracene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Dibenzofuran	1.1	ug/L	UJ	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Dieldrin	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Diethyl phthalate	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Dimethyl phthalate	56	ug/L	U	56	220
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Dimethylaminoazobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Dinoseb	4.5	ug/L	UJ	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Diphenylamine	3.4	ug/L	U	3.4	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Endosulfan I	4.5	ug/L	U	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Endosulfan II	4.5	ug/L	U	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Endosulfan sulfate	1.7	ug/L	U	1.7	6.7

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Endrin	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Endrin aldehyde	4.5	ug/L	U	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Ethyl methanesulfonate	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Fluoranthene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Fluorene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Heptachlor	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Heptachlor epoxide	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Hexachlorobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Hexachlorobutadiene	3.4	ug/L	U	3.4	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Hexachlorocyclopentadiene	3.4	ug/L	UJ	3.4	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Hexachloroethane	3.4	ug/L	U	3.4	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Hexachloropropene	2.2	ug/L	UJ	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Isophorone	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Isosafrole	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Methapyrilene	4.5	ug/L	U	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Methyl methanesulfonate	1.1	ug/L	UJ	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosodi-n-butylamine	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosodi-n-propylamine	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosodiethylamine	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosodimethylamine	2.2	ug/L	UJ	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosodiphenylamine	3.4	ug/L	U	3.4	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosomethylethylamine	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosomorpholine	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosopiperidine	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	N-Nitrosopyrrolidine	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Naphthalene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Nitrobenzene	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Nitroquinoline-1-oxide	22	ug/L	UJ	22	90
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Pentachlorobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Pentachloroethane	56	ug/L	U	56	220
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Pentachloronitrobenzene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Pentachlorophenol	3.4	ug/L	U	3.4	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Phenacetin	4.5	ug/L	U	4.5	13
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Phenanthrene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Phenol	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Pyrene	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Pyridine	4.5	ug/L	UJ	4.5	18
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	Safrole	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	alpha-BHC	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	beta-BHC	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	delta-BHC	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	gamma-BHC	1.7	ug/L	U	1.7	6.7
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	m,p-Cresols	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	o-Cresol	2.2	ug/L	U	2.2	9
10/28/2003 12:15	EQUIPMENT BLANK	BNA-Water	o-Toluidine	1.1	ug/L	U	1.1	4.5
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Alachlor	0.61	ug/L	U	0.61	2.44
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Aldrin	0.01	ug/L	U	0.01	0.04
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Alpha-BHC	0.01	ug/L	U	0.01	0.04
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Beta-BHC	0.01	ug/L	U	0.01	0.04
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Chlordane	0.2	ug/L	U	0.2	0.8
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	DDD-p,p'	0.02	ug/L	U	0.02	0.08
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	DDE-p,p'	0.02	ug/L	U	0.02	0.08
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	DDT-p,p'	0.03	ug/L	U	0.03	0.12
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Delta-BHC	0.01	ug/L	U	0.01	0.04
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Diazinon	0.05	ug/L	UJ	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Dieldrin	0.02	ug/L	U	0.02	0.08
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Endosulfan I	0.02	ug/L	U	0.02	0.08
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Endosulfan II	0.02	ug/L	U	0.02	0.08
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Endosulfan Sulfate	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Endrin	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Endrin Aldehyde	0.02	ug/L	U	0.02	0.08
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Gamma-BHC	0.01	ug/L	U	0.01	0.04
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Heptachlor	0.01	ug/L	U	0.01	0.04
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Heptachlor Epoxide	0.02	ug/L	U	0.02	0.08
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Methoxychlor	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Mevinphos	0.2	ug/L	UJ	0.2	0.8
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Naled	0.81	ug/L	U	0.81	3.24
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
10/28/2003 12:15	EQUIPMENT BLANK	GC-Water	Toxaphene	0.76	ug/L	U	0.76	3.04
10/28/2003 12:15	EQUIPMENT BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
10/28/2003 12:15	EQUIPMENT BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
10/28/2003 12:15	EQUIPMENT BLANK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
10/28/2003 12:15	EQUIPMENT BLANK	Nutrients-Liquid	TSS	4	mg/L	U	4	16
10/28/2003 12:15	EQUIPMENT BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
10/28/2003 12:00	STATION #1	Bio-AGP/LimNut	Algal Growth Potential	87.4	mg DryWt/L		0.1	0.3
10/28/2003 12:00	STATION #1	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 12:00	STATION #1	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 12:00	STATION #1	Bio-SedPrtSz/AFDW	Sediment % Organic	2.2	% dry wt			
10/28/2003 12:00	STATION #1	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.063-0.125mm	2.4	% vol <2mm			
10/28/2003 12:00	STATION #1	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.125-0.25 mm	14.2	% vol <2mm			
10/28/2003 12:00	STATION #1	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.25-0.5 mm	38.9	% vol <2mm			
10/28/2003 12:00	STATION #1	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.5-2.0 mm	42.1	% vol <2mm			
10/28/2003 12:00	STATION #1	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, <0.063 mm	2.39	% vol <2mm			
10/28/2003 12:00	STATION #1	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, >2.0 mm	2.8	%tot drywt			
10/28/2003 12:00	STATION #1	BNA-Waste	1,2,4-Trichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 12:00	STATION #1	BNA-Waste	1,2-Dichlorobenzene	250	ug/kg	U	250	1000

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:00	STATION #1	BNA-Waste	1,3-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 12:00	STATION #1	BNA-Waste	1,4-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 12:00	STATION #1	BNA-Waste	2,4,6-Trichlorophenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	2,4-Dichlorophenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	2,4-Dimethylphenol	2500	ug/kg	U	2500	10000
10/28/2003 12:00	STATION #1	BNA-Waste	2,4-Dinitrophenol	500	ug/kg	U	500	2000
10/28/2003 12:00	STATION #1	BNA-Waste	2,4-Dinitrotoluene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	2,6-Dinitrotoluene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	2-Chloronaphthalene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	2-Chlorophenol	250	ug/kg	U	250	1000
10/28/2003 12:00	STATION #1	BNA-Waste	2-Methyl-4,6-dinitrophenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	2-Nitrophenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	3,3'-Dichlorobenzidine	5000	ug/kg	U	5000	20000
10/28/2003 12:00	STATION #1	BNA-Waste	4,4'-DDD	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	4,4'-DDE	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	4,4'-DDT	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	4-Bromophenyl phenyl ether	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	4-Chloro-3-methylphenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	4-Chlorophenyl phenyl ether	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	4-Nitrophenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Acenaphthene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Acenaphthylene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Aldrin	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Anthracene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Azobenzene/1,2-Diphenylhydrazine	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Benzidine	1800	ug/kg	U	1800	7200
10/28/2003 12:00	STATION #1	BNA-Waste	Benzo(a)anthracene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Benzo(a)pyrene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Benzo(b)fluoranthene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Benzo(g,h,i)perylene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Benzo(k)fluoranthene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Bis(2-chloroethoxy)methane	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Bis(2-chloroethyl)ether	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Bis(2-chloroisopropyl)ether	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Bis(2-ethylhexyl)phthalate	500	ug/kg	U	500	2000
10/28/2003 12:00	STATION #1	BNA-Waste	Butyl benzyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Chrysene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Di-n-butyl phthalate	500	ug/kg	U	500	2000
10/28/2003 12:00	STATION #1	BNA-Waste	Di-n-octyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Dibenzo(a,h)anthracene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Dieldrin	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Diethyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Dimethyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Endosulfan I	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Endosulfan II	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Endosulfan sulfate	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Endrin	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Endrin aldehyde	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Fluoranthene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Fluorene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Heptachlor	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Heptachlor epoxide	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Hexachlorobenzene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Hexachlorobutadiene	250	ug/kg	U	250	1000

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:00	STATION #1	BNA-Waste	Hexachlorocyclopentadiene	83	ug/kg	UJ	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Hexachloroethane	250	ug/kg	U	250	1000
10/28/2003 12:00	STATION #1	BNA-Waste	Indeno(1,2,3-cd)pyrene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Isophorone	83	ug/kg	UJ	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	N-Nitrosodi-n-propylamine	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	N-Nitrosodimethylamine	500	ug/kg	U	500	2000
10/28/2003 12:00	STATION #1	BNA-Waste	N-Nitrosodiphenylamine	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Naphthalene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Nitrobenzene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Pentachlorophenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Phenanthrene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Phenol	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	Pyrene	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	alpha-BHC	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	beta-BHC	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	delta-BHC	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	BNA-Waste	gamma-BHC	83	ug/kg	U	83	330
10/28/2003 12:00	STATION #1	GC-Soil	Alachlor	28	ug/kg	U	28	112
10/28/2003 12:00	STATION #1	GC-Soil	Aldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Alpha-BHC	0.55	ug/Kg	U	0.55	2.2
10/28/2003 12:00	STATION #1	GC-Soil	Ametryn	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Atrazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Azinphos Methyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Beta-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Bromacil	18	ug/kg	U	18	72
10/28/2003 12:00	STATION #1	GC-Soil	Chlordane	6.9	ug/Kg	U	6.9	27.6
10/28/2003 12:00	STATION #1	GC-Soil	Chlorpyrifos Ethyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Chlorpyrifos Methyl	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:00	STATION #1	GC-Soil	DDD-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:00	STATION #1	GC-Soil	DDE-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:00	STATION #1	GC-Soil	DDT-p,p'	1.4	ug/Kg	UJ	1.4	5.6
10/28/2003 12:00	STATION #1	GC-Soil	Delta-BHC	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:00	STATION #1	GC-Soil	Diazinon	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:00	STATION #1	GC-Soil	Dieldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Endosulfan I	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Endosulfan II	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Endosulfan Sulfate	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:00	STATION #1	GC-Soil	Endrin	1.8	ug/Kg	U	1.8	7.2
10/28/2003 12:00	STATION #1	GC-Soil	Endrin Aldehyde	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:00	STATION #1	GC-Soil	Ethion	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Ethoprop	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:00	STATION #1	GC-Soil	Fenamiphos	18	ug/kg	UJ	18	72
10/28/2003 12:00	STATION #1	GC-Soil	Fonofos	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:00	STATION #1	GC-Soil	Gamma-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Heptachlor	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Heptachlor Epoxide	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:00	STATION #1	GC-Soil	Hexazinone	9.2	ug/kg	U	9.2	36.8
10/28/2003 12:00	STATION #1	GC-Soil	Malathion	6.9	ug/kg	UJ	6.9	27.6
10/28/2003 12:00	STATION #1	GC-Soil	Methamidophos	23	ug/kg	UJ	23	92
10/28/2003 12:00	STATION #1	GC-Soil	Methoxychlor	2.3	ug/Kg	UJ	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Metolachlor	23	ug/kg	U	23	92
10/28/2003 12:00	STATION #1	GC-Soil	Metribuzin	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:00	STATION #1	GC-Soil	Mevinphos	9.2	ug/kg	U	9.2	36.8
10/28/2003 12:00	STATION #1	GC-Soil	Monocrotophos	46	ug/kg	U	46	184

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:00	STATION #1	GC-Soil	Naled	37	ug/kg	U	37	148
10/28/2003 12:00	STATION #1	GC-Soil	Norflurazon	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:00	STATION #1	GC-Soil	PCB-1016	14	ug/Kg	U	14	56
10/28/2003 12:00	STATION #1	GC-Soil	PCB-1221	9.6	ug/Kg	U	9.6	38.4
10/28/2003 12:00	STATION #1	GC-Soil	PCB-1232	21	ug/Kg	U	21	84
10/28/2003 12:00	STATION #1	GC-Soil	PCB-1242	14	ug/Kg	U	14	56
10/28/2003 12:00	STATION #1	GC-Soil	PCB-1248	9.6	ug/Kg	U	9.6	38.4
10/28/2003 12:00	STATION #1	GC-Soil	PCB-1254	9.6	ug/Kg	U	9.6	38.4
10/28/2003 12:00	STATION #1	GC-Soil	PCB-1260	14	ug/Kg	U	14	56
10/28/2003 12:00	STATION #1	GC-Soil	Parathion Ethyl	6.9	ug/kg	U	6.9	27.6
10/28/2003 12:00	STATION #1	GC-Soil	Parathion Methyl	6.9	ug/kg	UJ	6.9	27.6
10/28/2003 12:00	STATION #1	GC-Soil	Phorate	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Prometryn	6.9	ug/kg	U	6.9	27.6
10/28/2003 12:00	STATION #1	GC-Soil	Simazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:00	STATION #1	GC-Soil	Toxaphene	34	ug/Kg	U	34	136
10/28/2003 12:00	STATION #1	Metals-Waste	Cadmium	0.037	mg/Kg	I	0.012	0.048
10/28/2003 12:00	STATION #1	Metals-Waste	Chromium	1.9	mg/Kg	U	1.9	7.7
10/28/2003 12:00	STATION #1	Metals-Waste	Copper	1.5	mg/Kg		0.24	0.97
10/28/2003 12:00	STATION #1	Metals-Waste	Lead	2	mg/Kg		0.12	0.48
10/28/2003 12:00	STATION #1	Metals-Waste	Nickel	0.6	mg/Kg	I	0.36	1.5
10/28/2003 12:00	STATION #1	Metals-Waste	Silver	0.12	mg/Kg		0.0097	0.039
10/28/2003 12:00	STATION #1	Nutrients-Liquid	Ammonia-N	0.038	mg N/L	I	0.02	0.04
10/28/2003 12:00	STATION #1	Nutrients-Liquid	NO2NO3-N	1.6	mg N/L		0.04	0.1
10/28/2003 12:00	STATION #1	Nutrients-Liquid	N_KJEL_TOT	0.8	mg N/L		0.06	0.2
10/28/2003 12:00	STATION #1	Nutrients-Liquid	TSS	4	mg/L	U	4	16
10/28/2003 12:00	STATION #1	Nutrients-Liquid	Total-P	2	mg P/L		0.16	0.48
10/28/2003 12:00	STATION #1-REP1	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	9	# Taxa			
10/28/2003 12:00	STATION #1-REP2	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	4	# Taxa			
10/28/2003 12:00	STATION #1-REP3	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	7	# Taxa			
10/28/2003 12:00	STATION #1-REP4	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	2	# Taxa			
10/28/2003 12:10	STATION #1-REP5	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	7	# Taxa			
10/28/2003 12:10	STATION #2	Bio-AGP/LimNut	Algal Growth Potential	111	mg DryWt/L		0.1	0.3
10/28/2003 12:10	STATION #2	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 12:10	STATION #2	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 12:10	STATION #2	Bio-SedPrtSz/AFDW	Sediment % Organic	1.2	% dry wt			
10/28/2003 12:10	STATION #2	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.063-0.125mm	2.1	% vol <2mm			
10/28/2003 12:10	STATION #2	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.125-0.25 mm	13.8	% vol <2mm			
10/28/2003 12:10	STATION #2	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.25-0.5 mm	34.2	% vol <2mm			
10/28/2003 12:10	STATION #2	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.5-2.0 mm	47.3	% vol <2mm			
10/28/2003 12:10	STATION #2	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, <0.063 mm	2.62	% vol <2mm			
10/28/2003 12:10	STATION #2	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, >2.0 mm	2	%tot drywt			
10/28/2003 12:10	STATION #2	BNA-Waste	1,2,4-Trichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 12:10	STATION #2	BNA-Waste	1,2-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 12:10	STATION #2	BNA-Waste	1,3-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 12:10	STATION #2	BNA-Waste	1,4-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 12:10	STATION #2	BNA-Waste	2,4,6-Trichlorophenol	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	2,4-Dichlorophenol	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	2,4-Dimethylphenol	2500	ug/kg	U	2500	10000
10/28/2003 12:10	STATION #2	BNA-Waste	2,4-Dinitrophenol	500	ug/kg	U	500	2000
10/28/2003 12:10	STATION #2	BNA-Waste	2,4-Dinitrotoluene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	2,6-Dinitrotoluene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	2-Chloronaphthalene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	2-Chlorophenol	250	ug/kg	U	250	1000
10/28/2003 12:10	STATION #2	BNA-Waste	2-Methyl-4,6-dinitrophenol	83	ug/kg	U	83	330

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:10	STATION #2	BNA-Waste	2-Nitrophenol	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	3,3'-Dichlorobenzidine	5000	ug/kg	U	5000	20000
10/28/2003 12:10	STATION #2	BNA-Waste	4,4'-DDD	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	4,4'-DDE	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	4,4'-DDT	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	4-Bromophenyl phenyl ether	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	4-Chloro-3-methylphenol	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	4-Chlorophenyl phenyl ether	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	4-Nitrophenol	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Acenaphthene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Acenaphthylene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Aldrin	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Anthracene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Azobenzene/1,2-Diphenylhydrazine	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Benzidine	1800	ug/kg	U	1800	7200
10/28/2003 12:10	STATION #2	BNA-Waste	Benzo(a)anthracene	210	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Benzo(a)pyrene	330	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Benzo(b)fluoranthene	380	ug/kg		83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Benzo(g,h,i)perylene	180	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Benzo(k)fluoranthene	110	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Bis(2-chloroethoxy)methane	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Bis(2-chloroethyl)ether	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Bis(2-chloroisopropyl)ether	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Bis(2-ethylhexyl)phthalate	500	ug/kg	U	500	2000
10/28/2003 12:10	STATION #2	BNA-Waste	Butyl benzyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Chrysene	240	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Di-n-butyl phthalate	500	ug/kg	U	500	2000
10/28/2003 12:10	STATION #2	BNA-Waste	Di-n-octyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Dibenzo(a,h)anthracene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Dieldrin	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Diethyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Dimethyl phthalate	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Endosulfan I	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Endosulfan II	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Endosulfan sulfate	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Endrin	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Endrin aldehyde	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Fluoranthene	310	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Fluorene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Heptachlor	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Heptachlor epoxide	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Hexachlorobenzene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Hexachlorobutadiene	250	ug/kg	U	250	1000
10/28/2003 12:10	STATION #2	BNA-Waste	Hexachlorocyclopentadiene	83	ug/kg	UJ	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Hexachloroethane	250	ug/kg	U	250	1000
10/28/2003 12:10	STATION #2	BNA-Waste	Indeno(1,2,3-cd)pyrene	160	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Isophorone	83	ug/kg	UJ	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	N-Nitrosodi-n-propylamine	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	N-Nitrosodimethylamine	500	ug/kg	U	500	2000
10/28/2003 12:10	STATION #2	BNA-Waste	N-Nitrosodiphenylamine	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Naphthalene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Nitrobenzene	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Pentachlorophenol	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Phenanthrene	190	ug/kg	I	83	330

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:10	STATION #2	BNA-Waste	Phenol	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	Pyrene	300	ug/kg	I	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	alpha-BHC	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	beta-BHC	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	delta-BHC	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	BNA-Waste	gamma-BHC	83	ug/kg	U	83	330
10/28/2003 12:10	STATION #2	GC-Soil	Alachlor	28	ug/kg	U	28	112
10/28/2003 12:10	STATION #2	GC-Soil	Aldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Alpha-BHC	0.55	ug/Kg	U	0.55	2.2
10/28/2003 12:10	STATION #2	GC-Soil	Ametryn	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Atrazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Azinphos Methyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Beta-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Bromacil	18	ug/kg	U	18	72
10/28/2003 12:10	STATION #2	GC-Soil	Chlordane	6.9	ug/Kg	U	6.9	27.6
10/28/2003 12:10	STATION #2	GC-Soil	Chlorpyrifos Ethyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Chlorpyrifos Methyl	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:10	STATION #2	GC-Soil	DDD-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:10	STATION #2	GC-Soil	DDE-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:10	STATION #2	GC-Soil	DDT-p,p'	1.4	ug/Kg	UJ	1.4	5.6
10/28/2003 12:10	STATION #2	GC-Soil	Delta-BHC	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:10	STATION #2	GC-Soil	Diazinon	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:10	STATION #2	GC-Soil	Dieldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Endosulfan I	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Endosulfan II	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Endosulfan Sulfate	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:10	STATION #2	GC-Soil	Endrin	1.8	ug/Kg	U	1.8	7.2
10/28/2003 12:10	STATION #2	GC-Soil	Endrin Aldehyde	0.92	ug/Kg	U	0.92	3.68
10/28/2003 12:10	STATION #2	GC-Soil	Ethion	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Ethoprop	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:10	STATION #2	GC-Soil	Fenamiphos	18	ug/kg	UJ	18	72
10/28/2003 12:10	STATION #2	GC-Soil	Fonofos	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:10	STATION #2	GC-Soil	Gamma-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Heptachlor	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Heptachlor Epoxide	0.46	ug/Kg	U	0.46	1.84
10/28/2003 12:10	STATION #2	GC-Soil	Hexazinone	9.2	ug/kg	U	9.2	36.8
10/28/2003 12:10	STATION #2	GC-Soil	Malathion	6.9	ug/kg	UJ	6.9	27.6
10/28/2003 12:10	STATION #2	GC-Soil	Methamidophos	23	ug/kg	UJ	23	92
10/28/2003 12:10	STATION #2	GC-Soil	Methoxychlor	2.3	ug/Kg	UJ	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Metolachlor	23	ug/kg	U	23	92
10/28/2003 12:10	STATION #2	GC-Soil	Metribuzin	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:10	STATION #2	GC-Soil	Mevinphos	9.2	ug/kg	U	9.2	36.8
10/28/2003 12:10	STATION #2	GC-Soil	Monocrotophos	46	ug/kg	U	46	184
10/28/2003 12:10	STATION #2	GC-Soil	Naled	37	ug/kg	U	37	148
10/28/2003 12:10	STATION #2	GC-Soil	Norflurazon	4.6	ug/kg	U	4.6	18.4
10/28/2003 12:10	STATION #2	GC-Soil	PCB-1016	14	ug/Kg	U	14	56
10/28/2003 12:10	STATION #2	GC-Soil	PCB-1221	9.6	ug/Kg	U	9.6	38.4
10/28/2003 12:10	STATION #2	GC-Soil	PCB-1232	21	ug/Kg	U	21	84
10/28/2003 12:10	STATION #2	GC-Soil	PCB-1242	14	ug/Kg	U	14	56
10/28/2003 12:10	STATION #2	GC-Soil	PCB-1248	9.6	ug/Kg	U	9.6	38.4
10/28/2003 12:10	STATION #2	GC-Soil	PCB-1254	9.6	ug/Kg	U	9.6	38.4
10/28/2003 12:10	STATION #2	GC-Soil	PCB-1260	14	ug/Kg	U	14	56
10/28/2003 12:10	STATION #2	GC-Soil	Parathion Ethyl	6.9	ug/kg	U	6.9	27.6
10/28/2003 12:10	STATION #2	GC-Soil	Parathion Methyl	6.9	ug/kg	UJ	6.9	27.6

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 12:10	STATION #2	GC-Soil	Phorate	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Prometryn	6.9	ug/kg	U	6.9	27.6
10/28/2003 12:10	STATION #2	GC-Soil	Simazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 12:10	STATION #2	GC-Soil	Toxaphene	34	ug/Kg	U	34	136
10/28/2003 12:10	STATION #2	Metals-Waste	Cadmium	0.023	mg/Kg	I	0.012	0.049
10/28/2003 12:10	STATION #2	Metals-Waste	Chromium	2	mg/Kg	U	2	7.8
10/28/2003 12:10	STATION #2	Metals-Waste	Copper	1.05	mg/Kg		0.24	0.98
10/28/2003 12:10	STATION #2	Metals-Waste	Lead	2.2	mg/Kg		0.12	0.49
10/28/2003 12:10	STATION #2	Metals-Waste	Nickel	0.62	mg/Kg	I	0.37	1.5
10/28/2003 12:10	STATION #2	Metals-Waste	Silver	0.07	mg/Kg		0.0098	0.039
10/28/2003 12:10	STATION #2	Nutrients-Liquid	Ammonia-N	0.042	mg N/L		0.02	0.04
10/28/2003 12:10	STATION #2	Nutrients-Liquid	NO2NO3-N	1.9	mg N/L		0.04	0.1
10/28/2003 12:10	STATION #2	Nutrients-Liquid	N_KJEL_TOT	0.88	mg N/L		0.06	0.2
10/28/2003 12:10	STATION #2	Nutrients-Liquid	TSS	4	mg/L	U	4	16
10/28/2003 12:10	STATION #2	Nutrients-Liquid	Total-P	2.7	mg P/L		0.16	0.48
10/28/2003 12:10	STATION #2-REP1	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	13	# Taxa			
10/28/2003 12:10	STATION #2-REP2	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	22	# Taxa			
10/28/2003 12:10	STATION #2-REP3	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	16	# Taxa			
10/28/2003 12:10	STATION #2-REP4	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	18	# Taxa			
10/28/2003 12:10	STATION #2-REP5	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	16	# Taxa			
10/28/2003 13:40	STATION #3	Bio-AGP/LimNut	Algal Growth Potential	7.93	mg DryWt/L		0.1	0.3
10/28/2003 13:40	STATION #3	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 13:40	STATION #3	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 13:40	STATION #3	Bio-SedPrtSz/AFDW	Sediment % Organic	7.5	% dry wt			
10/28/2003 13:40	STATION #3	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.063-0.125mm	9.21	% vol <2mm			
10/28/2003 13:40	STATION #3	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.125-0.25 mm	17.8	% vol <2mm			
10/28/2003 13:40	STATION #3	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.25-0.5 mm	21.9	% vol <2mm			
10/28/2003 13:40	STATION #3	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.5-2.0 mm	39	% vol <2mm			
10/28/2003 13:40	STATION #3	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, <0.063 mm	12.2	% vol <2mm			
10/28/2003 13:40	STATION #3	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, >2.0 mm	11	%tot drywt			
10/28/2003 13:40	STATION #3	BNA-Waste	1,2,4-Trichlorobenzene	320	ug/kg	U	320	1300
10/28/2003 13:40	STATION #3	BNA-Waste	1,2-Dichlorobenzene	320	ug/kg	U	320	1300
10/28/2003 13:40	STATION #3	BNA-Waste	1,3-Dichlorobenzene	320	ug/kg	U	320	1300
10/28/2003 13:40	STATION #3	BNA-Waste	1,4-Dichlorobenzene	320	ug/kg	U	320	1300
10/28/2003 13:40	STATION #3	BNA-Waste	2,4,6-Trichlorophenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	2,4-Dichlorophenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	2,4-Dimethylphenol	3200	ug/kg	U	3200	13000
10/28/2003 13:40	STATION #3	BNA-Waste	2,4-Dinitrophenol	650	ug/kg	U	650	2600
10/28/2003 13:40	STATION #3	BNA-Waste	2,4-Dinitrotoluene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	2,6-Dinitrotoluene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	2-Chloronaphthalene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	2-Chlorophenol	320	ug/kg	U	320	1300
10/28/2003 13:40	STATION #3	BNA-Waste	2-Methyl-4,6-dinitrophenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	2-Nitrophenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	3,3'-Dichlorobenzidine	6500	ug/kg	U	6500	26000
10/28/2003 13:40	STATION #3	BNA-Waste	4,4'-DDD	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	4,4'-DDE	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	4,4'-DDT	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	4-Bromophenyl phenyl ether	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	4-Chloro-3-methylphenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	4-Chlorophenyl phenyl ether	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	4-Nitrophenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Acenaphthene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Acenaphthylene	110	ug/kg	U	110	430

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 13:40	STATION #3	BNA-Waste	Aldrin	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Anthracene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Azobenzene/1,2-Diphenylhydrazine	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Benzidine	2300	ug/kg	U	2300	9300
10/28/2003 13:40	STATION #3	BNA-Waste	Benzo(a)anthracene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Benzo(a)pyrene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Benzo(b)fluoranthene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Benzo(g,h,i)perylene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Benzo(k)fluoranthene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Bis(2-chloroethoxy)methane	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Bis(2-chloroethyl)ether	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Bis(2-chloroisopropyl)ether	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Bis(2-ethylhexyl)phthalate	650	ug/kg	U	650	2600
10/28/2003 13:40	STATION #3	BNA-Waste	Butyl benzyl phthalate	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Chrysene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Di-n-butyl phthalate	650	ug/kg	U	650	2600
10/28/2003 13:40	STATION #3	BNA-Waste	Di-n-octyl phthalate	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Dibenzo(a,h)anthracene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Dieldrin	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Diethyl phthalate	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Dimethyl phthalate	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Endosulfan I	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Endosulfan II	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Endosulfan sulfate	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Endrin	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Endrin aldehyde	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Fluoranthene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Fluorene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Heptachlor	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Heptachlor epoxide	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Hexachlorobenzene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Hexachlorobutadiene	320	ug/kg	U	320	1300
10/28/2003 13:40	STATION #3	BNA-Waste	Hexachlorocyclopentadiene	110	ug/kg	UJ	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Hexachloroethane	320	ug/kg	U	320	1300
10/28/2003 13:40	STATION #3	BNA-Waste	Indeno(1,2,3-cd)pyrene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Isophorone	110	ug/kg	UJ	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	N-Nitrosodi-n-propylamine	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	N-Nitrosodimethylamine	650	ug/kg	U	650	2600
10/28/2003 13:40	STATION #3	BNA-Waste	N-Nitrosodiphenylamine	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Naphthalene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Nitrobenzene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Pentachlorophenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Phenanthrene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Phenol	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	Pyrene	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	alpha-BHC	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	beta-BHC	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	delta-BHC	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	BNA-Waste	gamma-BHC	110	ug/kg	U	110	430
10/28/2003 13:40	STATION #3	GC-Soil	Alachlor	36	ug/kg	U	36	144
10/28/2003 13:40	STATION #3	GC-Soil	Aldrin	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Alpha-BHC	0.71	ug/Kg	U	0.71	2.84
10/28/2003 13:40	STATION #3	GC-Soil	Ametryn	3	ug/kg	U	3	12
10/28/2003 13:40	STATION #3	GC-Soil	Atrazine	3	ug/kg	U	3	12

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 13:40	STATION #3	GC-Soil	Azinphos Methyl	3	ug/kg	U	3	12
10/28/2003 13:40	STATION #3	GC-Soil	Beta-BHC	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Bromacil	24	ug/kg	U	24	96
10/28/2003 13:40	STATION #3	GC-Soil	Chlordane	10	ug/Kg	I	8.9	35.6
10/28/2003 13:40	STATION #3	GC-Soil	Chlorpyrifos Ethyl	3	ug/kg	U	3	12
10/28/2003 13:40	STATION #3	GC-Soil	Chlorpyrifos Methyl	6	ug/kg	U	6	24
10/28/2003 13:40	STATION #3	GC-Soil	DDD-p,p'	1.7	ug/Kg	I	1.2	4.8
10/28/2003 13:40	STATION #3	GC-Soil	DDE-p,p'	2.9	ug/Kg	I	1.2	4.8
10/28/2003 13:40	STATION #3	GC-Soil	DDT-p,p'	1.8	ug/Kg	UJ	1.8	7.2
10/28/2003 13:40	STATION #3	GC-Soil	Delta-BHC	1.2	ug/Kg	U	1.2	4.8
10/28/2003 13:40	STATION #3	GC-Soil	Diazinon	6	ug/kg	U	6	24
10/28/2003 13:40	STATION #3	GC-Soil	Dieldrin	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Endosulfan I	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Endosulfan II	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Endosulfan Sulfate	1.2	ug/Kg	U	1.2	4.8
10/28/2003 13:40	STATION #3	GC-Soil	Endrin	2.4	ug/Kg	U	2.4	9.6
10/28/2003 13:40	STATION #3	GC-Soil	Endrin Aldehyde	1.2	ug/Kg	U	1.2	4.8
10/28/2003 13:40	STATION #3	GC-Soil	Ethion	3	ug/kg	UJ	3	12
10/28/2003 13:40	STATION #3	GC-Soil	Ethoprop	6	ug/kg	U	6	24
10/28/2003 13:40	STATION #3	GC-Soil	Fenamiphos	24	ug/kg	UJ	24	96
10/28/2003 13:40	STATION #3	GC-Soil	Fonofos	6	ug/kg	U	6	24
10/28/2003 13:40	STATION #3	GC-Soil	Gamma-BHC	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Heptachlor	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Heptachlor Epoxide	0.6	ug/Kg	U	0.6	2.4
10/28/2003 13:40	STATION #3	GC-Soil	Hexazinone	12	ug/kg	U	12	48
10/28/2003 13:40	STATION #3	GC-Soil	Malathion	8.9	ug/kg	UJ	8.9	35.6
10/28/2003 13:40	STATION #3	GC-Soil	Methamidophos	30	ug/kg	UJ	30	120
10/28/2003 13:40	STATION #3	GC-Soil	Methoxychlor	3	ug/Kg	UJ	3	12
10/28/2003 13:40	STATION #3	GC-Soil	Metolachlor	30	ug/kg	U	30	120
10/28/2003 13:40	STATION #3	GC-Soil	Metribuzin	6	ug/kg	U	6	24
10/28/2003 13:40	STATION #3	GC-Soil	Mevinphos	12	ug/kg	U	12	48
10/28/2003 13:40	STATION #3	GC-Soil	Monocrotophos	60	ug/kg	U	60	240
10/28/2003 13:40	STATION #3	GC-Soil	Naled	48	ug/kg	U	48	192
10/28/2003 13:40	STATION #3	GC-Soil	Norflurazon	6	ug/kg	U	6	24
10/28/2003 13:40	STATION #3	GC-Soil	PCB-1016	18	ug/Kg	U	18	72
10/28/2003 13:40	STATION #3	GC-Soil	PCB-1221	12	ug/Kg	U	12	48
10/28/2003 13:40	STATION #3	GC-Soil	PCB-1232	27	ug/Kg	U	27	108
10/28/2003 13:40	STATION #3	GC-Soil	PCB-1242	18	ug/Kg	U	18	72
10/28/2003 13:40	STATION #3	GC-Soil	PCB-1248	12	ug/Kg	U	12	48
10/28/2003 13:40	STATION #3	GC-Soil	PCB-1254	18	ug/Kg	I	12	48
10/28/2003 13:40	STATION #3	GC-Soil	PCB-1260	18	ug/Kg	U	18	72
10/28/2003 13:40	STATION #3	GC-Soil	Parathion Ethyl	8.9	ug/kg	U	8.9	35.6
10/28/2003 13:40	STATION #3	GC-Soil	Parathion Methyl	8.9	ug/kg	UJ	8.9	35.6
10/28/2003 13:40	STATION #3	GC-Soil	Phorate	3	ug/kg	UJ	3	12
10/28/2003 13:40	STATION #3	GC-Soil	Prometryn	8.9	ug/kg	U	8.9	35.6
10/28/2003 13:40	STATION #3	GC-Soil	Simazine	3	ug/kg	U	3	12
10/28/2003 13:40	STATION #3	GC-Soil	Toxaphene	45	ug/Kg	U	45	180
10/28/2003 13:40	STATION #3	Metals-Waste	Cadmium	0.093	mg/Kg		0.012	0.048
10/28/2003 13:40	STATION #3	Metals-Waste	Chromium	7	mg/Kg	I	1.9	7.6
10/28/2003 13:40	STATION #3	Metals-Waste	Copper	6.59	mg/Kg		0.24	0.95
10/28/2003 13:40	STATION #3	Metals-Waste	Lead	10	mg/Kg		0.12	0.48
10/28/2003 13:40	STATION #3	Metals-Waste	Nickel	1.3	mg/Kg	I	0.36	1.4
10/28/2003 13:40	STATION #3	Metals-Waste	Silver	0.37	mg/Kg		0.0095	0.038
10/28/2003 13:40	STATION #3	Nutrients-Liquid	Ammonia-N	0.037	mg N/L	I	0.02	0.04

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 13:40	STATION #3	Nutrients-Liquid	NO2NO3-N	1.2	mg N/L		0.04	0.1
10/28/2003 13:40	STATION #3	Nutrients-Liquid	N_KJEL_TOT	0.62	mg N/L	A	0.06	0.2
10/28/2003 13:40	STATION #3	Nutrients-Liquid	TSS	6	mg/L	I	4	16
10/28/2003 13:40	STATION #3	Nutrients-Liquid	Total-P	1.4	mg P/L	A	0.08	0.24
10/28/2003 13:40	STATION #3-REP1	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	10	# Taxa			
10/28/2003 13:40	STATION #3-REP2	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	10	# Taxa			
10/28/2003 13:40	STATION #3-REP3	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	6	# Taxa			
10/28/2003 13:40	STATION #3-REP4	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	4	# Taxa			
10/28/2003 13:40	STATION #3-REP5	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	8	# Taxa			
10/28/2003 14:54	STATION #4	Bio-AGP/LimNut	Algal Growth Potential	6.29	mg DryWt/L		0.1	0.3
10/28/2003 14:54	STATION #4	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 14:54	STATION #4	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 14:54	STATION #4	Bio-SedPrtSz/AFDW	Sediment % Organic	1.2	% dry wt			
10/28/2003 14:54	STATION #4	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.063-0.125mm	4.77	% vol <2mm			
10/28/2003 14:54	STATION #4	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.125-0.25 mm	12	% vol <2mm			
10/28/2003 14:54	STATION #4	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.25-0.5 mm	26.7	% vol <2mm			
10/28/2003 14:54	STATION #4	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.5-2.0 mm	49.1	% vol <2mm			
10/28/2003 14:54	STATION #4	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, <0.063 mm	7.49	% vol <2mm			
10/28/2003 14:54	STATION #4	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, >2.0 mm	1	%tot drywt	K		
10/28/2003 14:54	STATION #4	BNA-Waste	1,2,4-Trichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 14:54	STATION #4	BNA-Waste	1,2-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 14:54	STATION #4	BNA-Waste	1,3-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 14:54	STATION #4	BNA-Waste	1,4-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 14:54	STATION #4	BNA-Waste	2,4,6-Trichlorophenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	2,4-Dichlorophenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	2,4-Dimethylphenol	2500	ug/kg	U	2500	10000
10/28/2003 14:54	STATION #4	BNA-Waste	2,4-Dinitrophenol	500	ug/kg	U	500	2000
10/28/2003 14:54	STATION #4	BNA-Waste	2,4-Dinitrotoluene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	2,6-Dinitrotoluene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	2-Chloronaphthalene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	2-Chlorophenol	250	ug/kg	U	250	1000
10/28/2003 14:54	STATION #4	BNA-Waste	2-Methyl-4,6-dinitrophenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	2-Nitrophenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	3,3'-Dichlorobenzidine	5000	ug/kg	U	5000	20000
10/28/2003 14:54	STATION #4	BNA-Waste	4,4'-DDD	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	4,4'-DDE	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	4,4'-DDT	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	4-Bromophenyl phenyl ether	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	4-Chloro-3-methylphenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	4-Chlorophenyl phenyl ether	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	4-Nitrophenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Acenaphthene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Acenaphthylene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Aldrin	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Anthracene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Azobenzene/1,2-Diphenylhydrazine	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Benzidine	1800	ug/kg	U	1800	7300
10/28/2003 14:54	STATION #4	BNA-Waste	Benzo(a)anthracene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Benzo(a)pyrene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Benzo(b)fluoranthene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Benzo(g,h,i)perylene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Benzo(k)fluoranthene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Bis(2-chloroethoxy)methane	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Bis(2-chloroethyl)ether	84	ug/kg	U	84	330

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 14:54	STATION #4	BNA-Waste	Bis(2-chloroisopropyl)ether	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Bis(2-ethylhexyl)phthalate	500	ug/kg	U	500	2000
10/28/2003 14:54	STATION #4	BNA-Waste	Butyl benzyl phthalate	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Chrysene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Di-n-butyl phthalate	500	ug/kg	U	500	2000
10/28/2003 14:54	STATION #4	BNA-Waste	Di-n-octyl phthalate	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Dibenzo(a,h)anthracene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Dieldrin	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Diethyl phthalate	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Dimethyl phthalate	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Endosulfan I	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Endosulfan II	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Endosulfan sulfate	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Endrin	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Endrin aldehyde	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Fluoranthene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Fluorene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Heptachlor	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Heptachlor epoxide	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Hexachlorobenzene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Hexachlorobutadiene	250	ug/kg	U	250	1000
10/28/2003 14:54	STATION #4	BNA-Waste	Hexachlorocyclopentadiene	84	ug/kg	UJ	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Hexachloroethane	250	ug/kg	U	250	1000
10/28/2003 14:54	STATION #4	BNA-Waste	Indeno(1,2,3-cd)pyrene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Isophorone	84	ug/kg	UJ	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	N-Nitrosodi-n-propylamine	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	N-Nitrosodimethylamine	500	ug/kg	U	500	2000
10/28/2003 14:54	STATION #4	BNA-Waste	N-Nitrosodiphenylamine	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Naphthalene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Nitrobenzene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Pentachlorophenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Phenanthrene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Phenol	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	Pyrene	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	alpha-BHC	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	beta-BHC	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	delta-BHC	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	BNA-Waste	gamma-BHC	84	ug/kg	U	84	330
10/28/2003 14:54	STATION #4	GC-Soil	Alachlor	28	ug/kg	U	28	112
10/28/2003 14:54	STATION #4	GC-Soil	Aldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Alpha-BHC	0.55	ug/Kg	U	0.55	2.2
10/28/2003 14:54	STATION #4	GC-Soil	Ametryn	2.3	ug/kg	U	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Atrazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Azinphos Methyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Beta-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Bromacil	18	ug/kg	U	18	72
10/28/2003 14:54	STATION #4	GC-Soil	Chlordane	6.9	ug/Kg	U	6.9	27.6
10/28/2003 14:54	STATION #4	GC-Soil	Chlorpyrifos Ethyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Chlorpyrifos Methyl	4.6	ug/kg	U	4.6	18.4
10/28/2003 14:54	STATION #4	GC-Soil	DDD-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 14:54	STATION #4	GC-Soil	DDE-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 14:54	STATION #4	GC-Soil	DDT-p,p'	1.4	ug/Kg	UJ	1.4	5.6
10/28/2003 14:54	STATION #4	GC-Soil	Delta-BHC	0.92	ug/Kg	U	0.92	3.68
10/28/2003 14:54	STATION #4	GC-Soil	Diazinon	4.6	ug/kg	U	4.6	18.4

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 14:54	STATION #4	GC-Soil	Dieldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Endosulfan I	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Endosulfan II	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Endosulfan Sulfate	0.92	ug/Kg	U	0.92	3.68
10/28/2003 14:54	STATION #4	GC-Soil	Endrin	1.8	ug/Kg	U	1.8	7.2
10/28/2003 14:54	STATION #4	GC-Soil	Endrin Aldehyde	0.92	ug/Kg	U	0.92	3.68
10/28/2003 14:54	STATION #4	GC-Soil	Ethion	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Ethoprop	4.6	ug/kg	U	4.6	18.4
10/28/2003 14:54	STATION #4	GC-Soil	Fenamiphos	18	ug/kg	UJ	18	72
10/28/2003 14:54	STATION #4	GC-Soil	Fonofos	4.6	ug/kg	U	4.6	18.4
10/28/2003 14:54	STATION #4	GC-Soil	Gamma-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Heptachlor	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Heptachlor Epoxide	0.46	ug/Kg	U	0.46	1.84
10/28/2003 14:54	STATION #4	GC-Soil	Hexazinone	9.2	ug/kg	U	9.2	36.8
10/28/2003 14:54	STATION #4	GC-Soil	Malathion	6.9	ug/kg	UJ	6.9	27.6
10/28/2003 14:54	STATION #4	GC-Soil	Methamidophos	23	ug/kg	UJ	23	92
10/28/2003 14:54	STATION #4	GC-Soil	Methoxychlor	2.3	ug/Kg	UJ	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Metolachlor	23	ug/kg	U	23	92
10/28/2003 14:54	STATION #4	GC-Soil	Metribuzin	4.6	ug/kg	U	4.6	18.4
10/28/2003 14:54	STATION #4	GC-Soil	Mevinphos	9.2	ug/kg	U	9.2	36.8
10/28/2003 14:54	STATION #4	GC-Soil	Monocrotophos	46	ug/kg	U	46	184
10/28/2003 14:54	STATION #4	GC-Soil	Naled	37	ug/kg	U	37	148
10/28/2003 14:54	STATION #4	GC-Soil	Norflurazon	4.6	ug/kg	U	4.6	18.4
10/28/2003 14:54	STATION #4	GC-Soil	PCB-1016	14	ug/Kg	U	14	56
10/28/2003 14:54	STATION #4	GC-Soil	PCB-1221	9.7	ug/Kg	U	9.7	38.8
10/28/2003 14:54	STATION #4	GC-Soil	PCB-1232	21	ug/Kg	U	21	84
10/28/2003 14:54	STATION #4	GC-Soil	PCB-1242	14	ug/Kg	U	14	56
10/28/2003 14:54	STATION #4	GC-Soil	PCB-1248	9.7	ug/Kg	U	9.7	38.8
10/28/2003 14:54	STATION #4	GC-Soil	PCB-1254	9.7	ug/Kg	U	9.7	38.8
10/28/2003 14:54	STATION #4	GC-Soil	PCB-1260	14	ug/Kg	U	14	56
10/28/2003 14:54	STATION #4	GC-Soil	Parathion Ethyl	6.9	ug/kg	U	6.9	27.6
10/28/2003 14:54	STATION #4	GC-Soil	Parathion Methyl	6.9	ug/kg	UJ	6.9	27.6
10/28/2003 14:54	STATION #4	GC-Soil	Phorate	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Prometryn	6.9	ug/kg	U	6.9	27.6
10/28/2003 14:54	STATION #4	GC-Soil	Simazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 14:54	STATION #4	GC-Soil	Toxaphene	34	ug/Kg	U	34	136
10/28/2003 14:54	STATION #4	Metals-Waste	Cadmium	0.022	mg/Kg	I	0.012	0.048
10/28/2003 14:54	STATION #4	Metals-Waste	Chromium	2.3	mg/Kg	I	1.9	7.6
10/28/2003 14:54	STATION #4	Metals-Waste	Copper	1.17	mg/Kg		0.24	0.96
10/28/2003 14:54	STATION #4	Metals-Waste	Lead	3.9	mg/Kg		0.12	0.48
10/28/2003 14:54	STATION #4	Metals-Waste	Nickel	0.65	mg/Kg	I	0.36	1.4
10/28/2003 14:54	STATION #4	Metals-Waste	Silver	0.054	mg/Kg		0.0096	0.038
10/28/2003 14:54	STATION #4	Nutrients-Liquid	Ammonia-N	0.03	mg N/L	I	0.02	0.04
10/28/2003 14:54	STATION #4	Nutrients-Liquid	NO2NO3-N	1	mg N/L		0.04	0.1
10/28/2003 14:54	STATION #4	Nutrients-Liquid	N_KJEL_TOT	0.48	mg N/L		0.06	0.2
10/28/2003 14:54	STATION #4	Nutrients-Liquid	TSS	4	mg/L	I	4	16
10/28/2003 14:54	STATION #4	Nutrients-Liquid	Total-P	0.99	mg P/L		0.04	0.12
10/28/2003 14:54	STATION #4-REP1	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	3	# Taxa			
10/28/2003 14:54	STATION #4-REP2	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	9	# Taxa			
10/28/2003 14:54	STATION #4-REP3	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	7	# Taxa			
10/28/2003 14:54	STATION #4-REP4	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	6	# Taxa			
10/28/2003 14:54	STATION #4-REP5	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	5	# Taxa			
10/28/2003 15:46	STATION #5	Bio-AGP/LimNut	Algal Growth Potential	7.27	mg DryWt/L		0.1	0.3
10/28/2003 15:46	STATION #5	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 15:46	STATION #5	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 15:46	STATION #5	Bio-SedPrtSz/AFDW	Sediment % Organic	3.4	% dry wt			
10/28/2003 15:46	STATION #5	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.063-0.125mm	12.1	% vol <2mm			
10/28/2003 15:46	STATION #5	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.125-0.25 mm	21.2	% vol <2mm			
10/28/2003 15:46	STATION #5	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.25-0.5 mm	23.3	% vol <2mm			
10/28/2003 15:46	STATION #5	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.5-2.0 mm	22.7	% vol <2mm			
10/28/2003 15:46	STATION #5	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, <0.063 mm	20.7	% vol <2mm			
10/28/2003 15:46	STATION #5	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, >2.0 mm	1	%tot drywt	K		
10/28/2003 15:46	STATION #5	BNA-Waste	1,2,4-Trichlorobenzene	280	ug/kg	U	280	1100
10/28/2003 15:46	STATION #5	BNA-Waste	1,2-Dichlorobenzene	280	ug/kg	U	280	1100
10/28/2003 15:46	STATION #5	BNA-Waste	1,3-Dichlorobenzene	280	ug/kg	U	280	1100
10/28/2003 15:46	STATION #5	BNA-Waste	1,4-Dichlorobenzene	280	ug/kg	U	280	1100
10/28/2003 15:46	STATION #5	BNA-Waste	2,4,6-Trichlorophenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	2,4-Dichlorophenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	2,4-Dimethylphenol	2800	ug/kg	U	2800	11000
10/28/2003 15:46	STATION #5	BNA-Waste	2,4-Dinitrophenol	560	ug/kg	U	560	2200
10/28/2003 15:46	STATION #5	BNA-Waste	2,4-Dinitrotoluene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	2,6-Dinitrotoluene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	2-Chloronaphthalene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	2-Chlorophenol	280	ug/kg	U	280	1.10E+03
10/28/2003 15:46	STATION #5	BNA-Waste	2-Methyl-4,6-dinitrophenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	2-Nitrophenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	3,3'-Dichlorobenzidine	5600	ug/kg	U	5600	22000
10/28/2003 15:46	STATION #5	BNA-Waste	4,4'-DDD	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	4,4'-DDE	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	4,4'-DDT	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	4-Bromophenyl phenyl ether	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	4-Chloro-3-methylphenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	4-Chlorophenyl phenyl ether	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	4-Nitrophenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Acenaphthene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Acenaphthylene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Aldrin	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Anthracene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Azobenzene/1,2-Diphenylhydrazine	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Benzidine	2000	ug/kg	U	2000	8100
10/28/2003 15:46	STATION #5	BNA-Waste	Benzo(a)anthracene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Benzo(a)pyrene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Benzo(b)fluoranthene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Benzo(g,h,i)perylene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Benzo(k)fluoranthene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Bis(2-chloroethoxy)methane	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Bis(2-chloroethyl)ether	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Bis(2-chloroisopropyl)ether	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Bis(2-ethylhexyl)phthalate	560	ug/kg	U	560	2200
10/28/2003 15:46	STATION #5	BNA-Waste	Butyl benzyl phthalate	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Chrysene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Di-n-butyl phthalate	560	ug/kg	U	560	2200
10/28/2003 15:46	STATION #5	BNA-Waste	Di-n-octyl phthalate	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Dibenzo(a,h)anthracene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Dieldrin	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Diethyl phthalate	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Dimethyl phthalate	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Endosulfan I	93	ug/kg	U	93	370

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 15:46	STATION #5	BNA-Waste	Endosulfan II	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Endosulfan sulfate	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Endrin	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Endrin aldehyde	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Fluoranthene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Fluorene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Heptachlor	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Heptachlor epoxide	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Hexachlorobenzene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Hexachlorobutadiene	280	ug/kg	U	280	1100
10/28/2003 15:46	STATION #5	BNA-Waste	Hexachlorocyclopentadiene	93	ug/kg	UJ	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Hexachloroethane	280	ug/kg	U	280	1100
10/28/2003 15:46	STATION #5	BNA-Waste	Indeno(1,2,3-cd)pyrene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Isophorone	93	ug/kg	UJ	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	N-Nitrosodi-n-propylamine	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	N-Nitrosodimethylamine	560	ug/kg	U	560	2200
10/28/2003 15:46	STATION #5	BNA-Waste	N-Nitrosodiphenylamine	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Naphthalene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Nitrobenzene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Pentachlorophenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Phenanthrene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Phenol	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	Pyrene	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	alpha-BHC	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	beta-BHC	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	delta-BHC	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	BNA-Waste	gamma-BHC	93	ug/kg	U	93	370
10/28/2003 15:46	STATION #5	GC-Soil	Alachlor	31	ug/kg	U	31	124
10/28/2003 15:46	STATION #5	GC-Soil	Aldrin	0.51	ug/Kg	U	0.51	2.04
10/28/2003 15:46	STATION #5	GC-Soil	Alpha-BHC	0.62	ug/Kg	U	0.62	2.48
10/28/2003 15:46	STATION #5	GC-Soil	Ametryn	2.6	ug/kg	U	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Atrazine	2.6	ug/kg	U	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Azinphos Methyl	2.6	ug/kg	U	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Beta-BHC	0.51	ug/Kg	U	0.51	2.04
10/28/2003 15:46	STATION #5	GC-Soil	Bromacil	20	ug/kg	U	20	80
10/28/2003 15:46	STATION #5	GC-Soil	Chlordane	7.7	ug/Kg	U	7.7	30.8
10/28/2003 15:46	STATION #5	GC-Soil	Chlorpyrifos Ethyl	2.6	ug/kg	U	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Chlorpyrifos Methyl	5.1	ug/kg	U	5.1	20.4
10/28/2003 15:46	STATION #5	GC-Soil	DDD-p,p'	1	ug/Kg	U	1	4
10/28/2003 15:46	STATION #5	GC-Soil	DDE-p,p'	1	ug/Kg	U	1	4
10/28/2003 15:46	STATION #5	GC-Soil	DDT-p,p'	1.5	ug/Kg	UJ	1.5	6
10/28/2003 15:46	STATION #5	GC-Soil	Delta-BHC	1	ug/Kg	U	1	4
10/28/2003 15:46	STATION #5	GC-Soil	Diazinon	5.1	ug/kg	U	5.1	20.4
10/28/2003 15:46	STATION #5	GC-Soil	Dieldrin	0.51	ug/Kg	U	0.51	2.04
10/28/2003 15:46	STATION #5	GC-Soil	Endosulfan I	0.51	ug/Kg	U	0.51	2.04
10/28/2003 15:46	STATION #5	GC-Soil	Endosulfan II	0.51	ug/Kg	U	0.51	2.04
10/28/2003 15:46	STATION #5	GC-Soil	Endosulfan Sulfate	1	ug/Kg	U	1	4
10/28/2003 15:46	STATION #5	GC-Soil	Endrin	2	ug/Kg	U	2	8
10/28/2003 15:46	STATION #5	GC-Soil	Endrin Aldehyde	1	ug/Kg	U	1	4
10/28/2003 15:46	STATION #5	GC-Soil	Ethion	2.6	ug/kg	UJ	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Ethoprop	5.1	ug/kg	U	5.1	20.4
10/28/2003 15:46	STATION #5	GC-Soil	Fenamiphos	20	ug/kg	UJ	20	80
10/28/2003 15:46	STATION #5	GC-Soil	Fonofos	5.1	ug/kg	U	5.1	20.4
10/28/2003 15:46	STATION #5	GC-Soil	Gamma-BHC	0.51	ug/Kg	U	0.51	2.04

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 15:46	STATION #5	GC-Soil	Heptachlor	0.51	ug/Kg	U	0.51	2.04
10/28/2003 15:46	STATION #5	GC-Soil	Heptachlor Epoxide	0.51	ug/Kg	U	0.51	2.04
10/28/2003 15:46	STATION #5	GC-Soil	Hexazinone	10	ug/kg	U	10	40
10/28/2003 15:46	STATION #5	GC-Soil	Malathion	7.7	ug/kg	UJ	7.7	30.8
10/28/2003 15:46	STATION #5	GC-Soil	Methamidophos	26	ug/kg	UJ	26	104
10/28/2003 15:46	STATION #5	GC-Soil	Methoxychlor	2.6	ug/Kg	UJ	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Metolachlor	26	ug/kg	U	26	104
10/28/2003 15:46	STATION #5	GC-Soil	Metribuzin	5.1	ug/kg	U	5.1	20.4
10/28/2003 15:46	STATION #5	GC-Soil	Mevinphos	10	ug/kg	U	10	40
10/28/2003 15:46	STATION #5	GC-Soil	Monocrotophos	51	ug/kg	U	51	204
10/28/2003 15:46	STATION #5	GC-Soil	Naled	42	ug/kg	U	42	168
10/28/2003 15:46	STATION #5	GC-Soil	Norflurazon	5.1	ug/kg	U	5.1	20.4
10/28/2003 15:46	STATION #5	GC-Soil	PCB-1016	15	ug/Kg	U	15	60
10/28/2003 15:46	STATION #5	GC-Soil	PCB-1221	11	ug/Kg	U	11	44
10/28/2003 15:46	STATION #5	GC-Soil	PCB-1232	23	ug/Kg	U	23	92
10/28/2003 15:46	STATION #5	GC-Soil	PCB-1242	15	ug/Kg	U	15	60
10/28/2003 15:46	STATION #5	GC-Soil	PCB-1248	11	ug/Kg	U	11	44
10/28/2003 15:46	STATION #5	GC-Soil	PCB-1254	11	ug/Kg	U	11	44
10/28/2003 15:46	STATION #5	GC-Soil	PCB-1260	15	ug/Kg	U	15	60
10/28/2003 15:46	STATION #5	GC-Soil	Parathion Ethyl	7.7	ug/kg	U	7.7	30.8
10/28/2003 15:46	STATION #5	GC-Soil	Parathion Methyl	7.7	ug/kg	UJ	7.7	30.8
10/28/2003 15:46	STATION #5	GC-Soil	Phorate	2.6	ug/kg	UJ	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Prometryn	7.7	ug/kg	U	7.7	30.8
10/28/2003 15:46	STATION #5	GC-Soil	Simazine	2.6	ug/kg	U	2.6	10.4
10/28/2003 15:46	STATION #5	GC-Soil	Toxaphene	38	ug/Kg	U	38	152
10/28/2003 15:46	STATION #5	Metals-Waste	Cadmium	0.041	mg/Kg		0.01	0.04
10/28/2003 15:46	STATION #5	Metals-Waste	Chromium	4.6	mg/Kg	I	1.6	6.4
10/28/2003 15:46	STATION #5	Metals-Waste	Copper	2.29	mg/Kg		0.2	0.8
10/28/2003 15:46	STATION #5	Metals-Waste	Lead	7.7	mg/Kg		0.1	0.4
10/28/2003 15:46	STATION #5	Metals-Waste	Nickel	1.1	mg/Kg	I	0.3	1.2
10/28/2003 15:46	STATION #5	Metals-Waste	Silver	0.11	mg/Kg		0.008	0.032
10/28/2003 15:46	STATION #5	Nutrients-Liquid	Ammonia-N	0.12	mg N/L		0.02	0.04
10/28/2003 15:46	STATION #5	Nutrients-Liquid	NO2NO3-N	0.46	mg N/L	A	0.02	0.05
10/28/2003 15:46	STATION #5	Nutrients-Liquid	N_KJEL_TOT	0.43	mg N/L		0.06	0.2
10/28/2003 15:46	STATION #5	Nutrients-Liquid	TSS	4	mg/L	I	4	16
10/28/2003 15:46	STATION #5	Nutrients-Liquid	Total-P	0.18	mg P/L		0.02	0.06
10/28/2003 15:46	STATION #5-REP1	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	12	# Taxa			
10/28/2003 15:46	STATION #5-REP2	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	16	# Taxa			
10/28/2003 15:46	STATION #5-REP3	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	13	# Taxa			
10/28/2003 15:46	STATION #5-REP4	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	15	# Taxa			
10/28/2003 15:46	STATION #5-REP5	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	9	# Taxa			
10/28/2003 15:36	STATION #6	Bio-AGP/LimNut	Algal Growth Potential	10	mg DryWt/L	A	0.1	0.3
10/28/2003 15:36	STATION #6	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 15:36	STATION #6	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
10/28/2003 15:36	STATION #6	Bio-SedPrtSz/AFDW	Sediment % Organic	1.9	% dry wt			
10/28/2003 15:36	STATION #6	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.063-0.125mm	9.72	% vol <2mm			
10/28/2003 15:36	STATION #6	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.125-0.25 mm	19.8	% vol <2mm			
10/28/2003 15:36	STATION #6	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.25-0.5 mm	26.9	% vol <2mm			
10/28/2003 15:36	STATION #6	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, 0.5-2.0 mm	28.3	% vol <2mm			
10/28/2003 15:36	STATION #6	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, <0.063 mm	15.2	% vol <2mm			
10/28/2003 15:36	STATION #6	Bio-SedPrtSz/AFDW	Sediment Particle Size, %, >2.0 mm	1	%tot drywt	K		
10/28/2003 15:36	STATION #6	BNA-Waste	1,2,4-Trichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 15:36	STATION #6	BNA-Waste	1,2-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 15:36	STATION #6	BNA-Waste	1,3-Dichlorobenzene	250	ug/kg	U	250	1000

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 15:36	STATION #6	BNA-Waste	1,4-Dichlorobenzene	250	ug/kg	U	250	1000
10/28/2003 15:36	STATION #6	BNA-Waste	2,4,6-Trichlorophenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	2,4-Dichlorophenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	2,4-Dimethylphenol	2500	ug/kg	U	2500	10000
10/28/2003 15:36	STATION #6	BNA-Waste	2,4-Dinitrophenol	500	ug/kg	U	500	2000
10/28/2003 15:36	STATION #6	BNA-Waste	2,4-Dinitrotoluene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	2,6-Dinitrotoluene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	2-Chloronaphthalene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	2-Chlorophenol	250	ug/kg	U	250	1000
10/28/2003 15:36	STATION #6	BNA-Waste	2-Methyl-4,6-dinitrophenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	2-Nitrophenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	3,3'-Dichlorobenzidine	5000	ug/kg	U	5000	20000
10/28/2003 15:36	STATION #6	BNA-Waste	4,4'-DDD	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	4,4'-DDE	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	4,4'-DDT	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	4-Bromophenyl phenyl ether	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	4-Chloro-3-methylphenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	4-Chlorophenyl phenyl ether	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	4-Nitrophenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Acenaphthene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Acenaphthylene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Aldrin	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Anthracene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Azobenzene/1,2-Diphenylhydrazine	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Benzidine	1800	ug/kg	U	1800	7300
10/28/2003 15:36	STATION #6	BNA-Waste	Benzo(a)anthracene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Benzo(a)pyrene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Benzo(b)fluoranthene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Benzo(g,h,i)perylene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Benzo(k)fluoranthene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Bis(2-chloroethoxy)methane	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Bis(2-chloroethyl)ether	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Bis(2-chloroisopropyl)ether	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Bis(2-ethylhexyl)phthalate	500	ug/kg	U	500	2000
10/28/2003 15:36	STATION #6	BNA-Waste	Butyl benzyl phthalate	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Chrysene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Di-n-butyl phthalate	500	ug/kg	U	500	2000
10/28/2003 15:36	STATION #6	BNA-Waste	Di-n-octyl phthalate	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Dibenzo(a,h)anthracene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Dieldrin	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Diethyl phthalate	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Dimethyl phthalate	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Endosulfan I	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Endosulfan II	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Endosulfan sulfate	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Endrin	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Endrin aldehyde	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Fluoranthene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Fluorene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Heptachlor	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Heptachlor epoxide	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Hexachlorobenzene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Hexachlorobutadiene	250	ug/kg	U	250	1000
10/28/2003 15:36	STATION #6	BNA-Waste	Hexachlorocyclopentadiene	84	ug/kg	UJ	84	340

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 15:36	STATION #6	BNA-Waste	Hexachloroethane	250	ug/kg	U	250	1000
10/28/2003 15:36	STATION #6	BNA-Waste	Indeno(1,2,3-cd)pyrene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Isophorone	84	ug/kg	UJ	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	N-Nitrosodi-n-propylamine	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	N-Nitrosodimethylamine	500	ug/kg	U	500	2000
10/28/2003 15:36	STATION #6	BNA-Waste	N-Nitrosodiphenylamine	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Naphthalene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Nitrobenzene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Pentachlorophenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Phenanthrene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Phenol	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	Pyrene	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	alpha-BHC	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	beta-BHC	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	delta-BHC	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	BNA-Waste	gamma-BHC	84	ug/kg	U	84	340
10/28/2003 15:36	STATION #6	GC-Soil	Alachlor	28	ug/kg	U	28	112
10/28/2003 15:36	STATION #6	GC-Soil	Aldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Alpha-BHC	0.56	ug/Kg	U	0.56	2.24
10/28/2003 15:36	STATION #6	GC-Soil	Ametryn	2.3	ug/kg	U	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Atrazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Azinphos Methyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Beta-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Bromacil	18	ug/kg	U	18	72
10/28/2003 15:36	STATION #6	GC-Soil	Chlordane	6.9	ug/Kg	U	6.9	27.6
10/28/2003 15:36	STATION #6	GC-Soil	Chlorpyrifos Ethyl	2.3	ug/kg	U	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Chlorpyrifos Methyl	4.6	ug/kg	U	4.6	18.4
10/28/2003 15:36	STATION #6	GC-Soil	DDD-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 15:36	STATION #6	GC-Soil	DDE-p,p'	0.92	ug/Kg	U	0.92	3.68
10/28/2003 15:36	STATION #6	GC-Soil	DDT-p,p'	1.4	ug/Kg	UJ	1.4	5.6
10/28/2003 15:36	STATION #6	GC-Soil	Delta-BHC	0.92	ug/Kg	U	0.92	3.68
10/28/2003 15:36	STATION #6	GC-Soil	Diazinon	4.6	ug/kg	U	4.6	18.4
10/28/2003 15:36	STATION #6	GC-Soil	Dieldrin	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Endosulfan I	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Endosulfan II	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Endosulfan Sulfate	0.92	ug/Kg	U	0.92	3.68
10/28/2003 15:36	STATION #6	GC-Soil	Endrin	1.8	ug/Kg	U	1.8	7.2
10/28/2003 15:36	STATION #6	GC-Soil	Endrin Aldehyde	0.92	ug/Kg	U	0.92	3.68
10/28/2003 15:36	STATION #6	GC-Soil	Ethion	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Ethoprop	4.6	ug/kg	U	4.6	18.4
10/28/2003 15:36	STATION #6	GC-Soil	Fenamiphos	18	ug/kg	UJ	18	72
10/28/2003 15:36	STATION #6	GC-Soil	Fonofos	4.6	ug/kg	U	4.6	18.4
10/28/2003 15:36	STATION #6	GC-Soil	Gamma-BHC	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Heptachlor	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Heptachlor Epoxide	0.46	ug/Kg	U	0.46	1.84
10/28/2003 15:36	STATION #6	GC-Soil	Hexazinone	9.2	ug/kg	U	9.2	36.8
10/28/2003 15:36	STATION #6	GC-Soil	Malathion	6.9	ug/kg	UJ	6.9	27.6
10/28/2003 15:36	STATION #6	GC-Soil	Methamidophos	23	ug/kg	UJ	23	92
10/28/2003 15:36	STATION #6	GC-Soil	Methoxychlor	2.3	ug/Kg	UJ	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Metolachlor	23	ug/kg	U	23	92
10/28/2003 15:36	STATION #6	GC-Soil	Metribuzin	4.6	ug/kg	U	4.6	18.4
10/28/2003 15:36	STATION #6	GC-Soil	Mevinphos	9.2	ug/kg	U	9.2	36.8
10/28/2003 15:36	STATION #6	GC-Soil	Monocrotophos	46	ug/kg	U	46	184
10/28/2003 15:36	STATION #6	GC-Soil	Naled	38	ug/kg	U	38	152

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/28/2003 15:36	STATION #6	GC-Soil	Norflurazon	4.6	ug/kg	U	4.6	18.4
10/28/2003 15:36	STATION #6	GC-Soil	PCB-1016	14	ug/Kg	U	14	56
10/28/2003 15:36	STATION #6	GC-Soil	PCB-1221	9.7	ug/Kg	U	9.7	38.8
10/28/2003 15:36	STATION #6	GC-Soil	PCB-1232	21	ug/Kg	U	21	84
10/28/2003 15:36	STATION #6	GC-Soil	PCB-1242	14	ug/Kg	U	14	56
10/28/2003 15:36	STATION #6	GC-Soil	PCB-1248	9.7	ug/Kg	U	9.7	38.8
10/28/2003 15:36	STATION #6	GC-Soil	PCB-1254	9.7	ug/Kg	U	9.7	38.8
10/28/2003 15:36	STATION #6	GC-Soil	PCB-1260	14	ug/Kg	U	14	56
10/28/2003 15:36	STATION #6	GC-Soil	Parathion Ethyl	6.9	ug/kg	U	6.9	27.6
10/28/2003 15:36	STATION #6	GC-Soil	Parathion Methyl	6.9	ug/kg	UJ	6.9	27.6
10/28/2003 15:36	STATION #6	GC-Soil	Phorate	2.3	ug/kg	UJ	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Prometryn	6.9	ug/kg	U	6.9	27.6
10/28/2003 15:36	STATION #6	GC-Soil	Simazine	2.3	ug/kg	U	2.3	9.2
10/28/2003 15:36	STATION #6	GC-Soil	Toxaphene	35	ug/Kg	U	35	140
10/28/2003 15:36	STATION #6	Metals-Waste	Cadmium	0.026	mg/Kg	I	0.012	0.047
10/28/2003 15:36	STATION #6	Metals-Waste	Chromium	3.3	mg/Kg	I	1.9	7.5
10/28/2003 15:36	STATION #6	Metals-Waste	Copper	1.86	mg/Kg	A	0.24	0.94
10/28/2003 15:36	STATION #6	Metals-Waste	Lead	5.8	mg/Kg	A	0.12	0.47
10/28/2003 15:36	STATION #6	Metals-Waste	Nickel	0.87	mg/Kg	I	0.35	1.4
10/28/2003 15:36	STATION #6	Metals-Waste	Silver	0.074	mg/Kg	A	0.0094	0.038
10/28/2003 15:36	STATION #6	Nutrients-Liquid	Ammonia-N	0.033	mg N/L	I	0.02	0.04
10/28/2003 15:36	STATION #6	Nutrients-Liquid	NO2NO3-N	0.44	mg N/L		0.02	0.05
10/28/2003 15:36	STATION #6	Nutrients-Liquid	N_KJEL_TOT	0.36	mg N/L		0.06	0.2
10/28/2003 15:36	STATION #6	Nutrients-Liquid	TSS	8	mg/L	U	8	32
10/28/2003 15:36	STATION #6	Nutrients-Liquid	Total-P	0.14	mg P/L		0.02	0.06
10/28/2003 15:36	STATION #6-REP2	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	10	# Taxa			
10/28/2003 15:36	STATION #6-REP4	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	7	# Taxa			
10/28/2003 15:36	STATION #6-REP5	Bio-Invertebrates	Macroinvert-Marine-Quan-NatSubstr-# Taxa	8	# Taxa			

Appendix 5

Typical Values for Selected Parameters in Florida Waters

Station 1

Parameter	Percentile Distribution 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	**0.85 U**
Dredge Diversity	1.34	1.53	1.91	2.28	**2.56**	2.9	3.15	3.59	4.01	4.53	4.98	**2.59**
Dredge Taxa Richness	4	6	9	11	**15**	18.5	25	35	41	62	90	**16**
TKN	0.26	0.34	0.42	0.5	0.59	0.69	**0.76**	0.82	0.95	1.3	1.49	**0.8**
NH3+NH4	0.01	0.02	**0.03**	0.04	0.05	0.06	0.08	0.09	0.13	0.22	0.28	**0.038 I**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.17	**0.23**	**1.6**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	0.14	0.17	0.23	0.43	**0.59**	**2**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	0.09	0.12	0.21	0.44	**ND**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	**ND**

Station 2

Parameter	Percentile Distribution 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	**0.85 U**
Dredge Diversity	1.34	1.53	1.91	2.28	2.56	2.9	3.15	3.59	**4.01**	4.53	4.98	**4.1**
Dredge Taxa Richness	4	6	9	11	15	18.5	25	**35**	41	62	90	**38**
TKN	0.26	0.34	0.42	0.5	0.59	0.69	0.76	**0.82**	0.95	1.3	1.49	**0.88**
NH3+NH4	0.01	0.02	0.03	**0.04**	0.05	0.06	0.08	0.09	0.13	0.22	0.28	**0.042**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.17	**0.23**	**1.9**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	0.14	0.17	0.23	0.43	**0.59**	**2.7**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	0.09	0.12	0.21	0.44	**ND**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	**ND**

Station 3

Parameter	Percentile Distribution 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	**0.85 U**
Dredge Diversity	1.34	1.53	**1.91**	2.28	2.56	2.9	3.15	3.59	4.01	4.53	4.98	**2.08**
Dredge Taxa Richness	4	6	9	11	15	**18.5**	25	35	41	62	90	**19**
TKN	0.26	0.34	0.42	0.5	**0.59**	0.69	0.76	0.82	0.95	1.3	1.49	**0.62 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	**0.037 I**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.17	**0.23**	**1.2**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	0.14	0.17	0.23	0.43	**0.59**	**1.4 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	**ND**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	**ND**

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

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

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

ND - No data

Station 4

Parameter	Percentile Distribution 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	**0.85 U**
Dredge Diversity	1.34	1.53	1.91	2.28	**2.56**	2.9	3.15	3.59	4.01	4.53	4.98	**2.74**
Dredge Taxa Richness	4	6	9	**11**	15	18.5	25	35	41	62	90	**13**
TKN	0.26	0.34	**0.42**	0.5	0.59	0.69	0.76	0.82	0.95	1.3	1.49	**0.48**
NH3+NH4	0.01	0.02	**0.03**	0.04	0.05	0.06	0.08	0.09	0.13	0.22	0.28	**0.03 I**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.17	**0.23**	**1**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	0.14	0.17	0.23	0.43	**0.59**	**0.99**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	0.09	0.12	0.21	0.44	**ND**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	**ND**

Station 5

Parameter	Percentile Distribution 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	**0.85 U**
Dredge Diversity	1.34	1.53	1.91	2.28	2.56	**2.9**	3.15	3.59	4.01	4.53	4.98	**3.03**
Dredge Taxa Richness	4	6	9	11	15	18.5	**25**	35	41	62	90	**26**
TKN	0.26	0.34	**0.42**	0.5	0.59	0.69	0.76	0.82	0.95	1.3	1.49	**0.43**
NH3+NH4	0.01	0.02	0.03	0.04	0.05	0.06	0.08	**0.09**	0.13	0.22	0.28	**0.12**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.17	**0.23**	**0.46 A**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	0.14	**0.17**	0.23	0.43	0.59	**0.18**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	0.09	0.12	0.21	0.44	**ND**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	**ND**

Station 6

Parameter	Percentile Distribution 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	**0.85 U**
Dredge Diversity	1.34	1.53	1.91	**2.28**	2.56	2.9	3.15	3.59	4.01	4.53	4.98	**2.48**
Dredge Taxa Richness	4	6	9	**11**	15	18.5	25	35	41	62	90	**13**
TKN	0.26	**0.34**	0.42	0.5	0.59	0.69	0.76	0.82	0.95	1.3	1.49	**0.36**
NH3+NH4	0.01	0.02	**0.03**	0.04	0.05	0.06	0.08	0.09	0.13	0.22	0.28	**0.033 I**
NO2-NO3	0	0	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.17	**0.23**	**0.44**
Total Phosphorus	0.01	0.02	0.06	0.07	0.1	0.11	**0.14**	0.17	0.23	0.43	0.59	**0.14**
Ortho-Phosphate	0.01	0.02	0.03	0.04	0.04	0.05	0.07	0.09	0.12	0.21	0.44	**ND**
Turbidity	3.5	4	4.5	5.05	5.4	5.6	6.3	6.8	8	11.4	11.75	**ND**

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

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

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

ND - No data

Appendix 6

Additional physical, chemical, toxicological and microbiological results

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from the City of Milton Wastewater Treatment Facility, 203 East Walker Street, Santa Rosa County, Milton, Florida, NPDES# FL0021903, performed from 29 to 31 October, 2003.

Facility:	**City of Milton WWTF**		**NPDES #:**	**FL0021903**	Facility Type: **WWTF**	**Analysts:**	Christa Pierini
Location:	203 East Walker Street, Milton		Contact/District:	Glenn Butts/Northwest			James Daniels
County:	Santa Rosa		Test type:	static acute screen			Marshall Faircloth
Sample Collection Date:	10/28/2003	Time: 0858	# tests:	2	Receiving Water: Blackwater River		
Test Beginning Date:	10/29/2003	Time: 1400	Chlorination Type:	nonchlorinated			
Test Ending Date:	10/31/2003	Time: 1330	FDEP SOP#:	TA07_01 / 02	**Page 1 of 1**	**Reviewer:**	Julie Espy

Organism: ***Ceriodaphnia dubia*** (water flea) Life stage: <24 hours Chamber size: 30 mL [A] Feeding: YCT/Algae Food Batch #: YCT 3/P. sub. 20

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature (°C)			Diss. Oxygen (mg/L)			[B] Conductivity	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/20	5	5	5	7.8	8.2		24.0	24.0		8.0	6.7		175	205
Control B	0/20	5	5	5		8.3			24.2			6.7			210
Control C	0/20	5	5	5		8.3			24.2			6.9			220
Control D	0/20	5	5	5		8.3			24.2			7.2			220
100% A	20/0	5	5	5	7.4	8.3		25.2	24.2		7.7	7.3		430	435
100% B	20/0	5	5	5		8.3			24.2			7.4			490
100% C	20/0	5	5	5		8.3			24.2			7.5			490
100% D	20/0	5	5	5		8.3			24.4			7.5			460

[A] Organisms fed prior to testing.

Temperatures of room and test incubator were continuously recorded on a strip chart recorder.

Room Temperature range for the test period was 24.5 - 25.0 °C.

Incubator #3 temperature range for the test period was 24.0 - 24.5 °C.

Light Intensity during the test was 50-100 foot candles.

Photoperiod during the test was 16 hours of light : 8 hours of dark.

[B] Conductivity value is uncorrected µmhos/cm.

LIMS
Job number: TLH-2003-10-29-63
sample number: 713119

Data Transcription Verification
date: 1/30/04
by: James Daniels/Josh Ayres

Total Residual CL2	mg/L	Method
Field 100% sample:	0.16	-
Lab 100% sample:	0.005	Hach
Control water (water flea):	0.00	Hach
Control water: (fish):	0.01	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water: (water flea):	<0.017	<0.017
Control water (fish):	<0.017	<0.017
100% Sample:	<0.017	<0.017

Organism: ***Pimephales promelas*** (fish) Life stage: 12 days Chamber size: 1000 mL [C] Feeding: *Artemia* Food Batch #: 0194025G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature (°C)			Diss. Oxygen (mg/L)			[D] Conductivity	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/500	5	5	5	8.1	7.5	7.5	24.2	24.0	24.2	8.0	6.6	6.8	290	295
Control B	0/500	5	5	5	8.1	7.4	7.6	24.2	24.0	24.2	8.0	6.9	6.9	285	310
Control C	0/500	5	5	5	8.1	7.5	7.6	24.2	24.0	24.1	8.0	6.8	6.7	285	310
Control D	0/500	5	5	5	8.1	7.6	7.6	24.2	24.0	24.3	8.0	6.7	6.9	285	305
100% A	500/0	5	5	5	7.4	7.5	7.6	25.7	24.1	24.5	7.8	6.7	6.5	430	425
100% B	500/0	5	5	5	7.4	7.6	7.7	25.9	24.1	24.1	7.8	6.4	6.4	430	445
100 % C	500/0	5	5	5	7.4	7.7	7.8	25.9	24.0	24.2	7.9	6.3	6.7	435	460
100% D	500/0	5	5	5	7.4	7.7	7.8	25.9	24.0	24.4	7.9	6.2	6.7	435	470

[C] Organisms fed prior to testing.

Temperatures of room and test incubator were continuously recorded on a strip chart recorder.

Room Temperature range for the test period was 24.5 - 25.0 °C.

Incubator #3 temperature range for the test period was 24.0 - 24.5 °C.

Light Intensity during the test was 50-100 foot candles.

Photoperiod during the test was 16 hours of light : 8 hours of dark.

[D] Conductivity value is uncorrected µmhos/cm.

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water: (water flea):	80	81
Control water: (fish)	71	87
100% Sample:	95	83

Mortality	Percent
Control water (water flea):	0%
100% (water flea):	0%
Control water (fish):	0%
100 % (fish):	0%

Appendix 7

Habitat Assessment Field Sheets.

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

LAT/LONGS: N 30 37 06.4 W 87 01 57.9	STORET STATION NUMBER:	DATE (M/D/Y): 10/28/03	TIME 1100	RECEIVING BODY OF WATER: Blackwater River

REMARKS:	COUNTY: Santa Rosa	SITE LOCATION: Milton WWTP	FIELD ID/NAME: Station #1

RIPARIAN ZONE/INSTREAM FEATURES

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

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

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

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

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

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

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

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

Tide Types and Times

_____ : AM PM _____ : AM PM
_____ : AM PM _____ : AM PM

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

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☑ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐ _____

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

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

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass	30	5	ponar	Sand			ponar
Rock or Shell Rubble	70			Mud/Muck/Silt			
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ _____

WATER QUALITY	Depth (m): ft	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	% DO		Secchi (m):
Top	0.60	21.78	6.82	7.90	4504	92.6		
Mid-depth								
Bottom								

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

Water Odors (check box): Normal: ☐ Sewage: ☑ Petroleum: ☐ Chemical: ☐ Other: ☐ _____

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

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

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

Weather Conditions/Notes:

Cloudy

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

SAMPLING TEAM:	SIGNATURE:	DATE:
SA, FB	Shelly Alexander	10/28/03

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y):	RECEIVING BODY OF WATER:
		10/28/03	Blackwater River

REMARKS:	LOCATION:	FIELD ID/NAME:
	Milton WWTP	station #1

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

TOTAL SCORE: 45

COMMENTS:

ANALYSIS DATE:	ANALYST:	SIGNATURE:
10/28/03	Ken Esry	

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

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
N 30 37 06.4 W 87 01 57.8		10/28/03	1110	Blackwater River

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
Marine F41	Santa Rosa	Milton WWTP	Station #2

RIPARIAN ZONE/INSTREAM FEATURES

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

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

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

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

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

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

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

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

Tide Types and Times

_____ : AM PM _____ : AM PM

_____ : AM PM _____ : AM PM

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

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☑ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Anaerobic: ☐ Other: ☐ _____

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

Sediment Deposition: Sludge: ☑ Sand smothering: none slight (moderate) severe Silt smothering: none slight moderate severe Other:

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass	40	5	point	Sand	40	5	point
Rock or Shell Rubble	60			Mud/Muck/Silt	60		
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☑ _____

WATER QUALITY	Depth (m)	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	DO%		Secchi (m):
X Top	1.4	21.50	6.67	7.95	4161	92.1		
Mid-depth								
Bottom								

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

Water Odors (check box): Normal: ☑ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ _____

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

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

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

Weather Conditions/Notes:

Cloudy

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

SAMPLING TEAM:	SIGNATURE:	DATE:
SA, FB	Shelly Alexander	10/28/03

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 10/28/03	RECEIVING BODY OF WATER: Blackwater River
REMARKS:	LOCATION: Milton WWTP		FIELD ID NAME: Station #2

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

TOTAL SCORE: 45

COMMENTS:

ANALYSIS DATE: 10/28/03	ANALYST: Ken Espy	SIGNATURE:

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

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
N 30 37 05.5 W 87 01 57.9		10/28/13	1240	Blackwater River

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
	Santa Rosa	Milton WWTP	Station #3

RIPARIAN ZONE/INSTREAM FEATURES

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

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

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

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

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

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

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

Artificially Impounded ☐ yes

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

Tide Types and Times

_____ : AM PM _____ : AM PM

_____ : AM PM _____ : AM PM

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

SEDIMENT/SUBSTRATE

Sediment Odors: Normal: ☐ Sewage: ☐ Petroleum: ☑ Chemical: ☐ Anaerobic: ☐ Other: ☐ _____

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

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

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass	10	5	ponar	Sand	40		ponar
Rock or Shell Rubble	90			Mud/Muck/Silt	60		
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ _____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	DO %		Secchi (m):
Top								
Mid-depth								
X Bottom	1.02	21.01	6.66	7.80	4770	88.2		

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

Water Odors (check box): Normal: ☑ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ _____

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

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

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

Weather Conditions/Notes:

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

SAMPLING TEAM:	SIGNATURE:	DATE:
SA, FB	Shelby Alexander	10/28/13

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 10/28/03	RECEIVING BODY OF WATER: Blackwater River

REMARKS:	LOCATION: Milton WWTP	FIELD ID/NAME: Station #3

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

TOTAL SCORE [ ]

COMMENTS:

ANALYSIS DATE: 10/28/03	ANALYST: Ike Espy	SIGNATURE:

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

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
N 30 37 05.4 W 87 01 57.4		10/28/03	1354	Blackwater River

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
Marine F41	Santa Rosa	Milton WWTP	Station #4

RIPARIAN ZONE/INSTREAM FEATURES

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

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

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

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

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

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

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

Artificially Impounded ☐ yes

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

Tide Types and Times

AM : PM ____ AM : PM ____

AM : PM ____ AM : PM ____

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

SEDIMENT/SUBSTRATE

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

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

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

Substrate Types	% coverage	# times sampled	method	Substrate Types	% coverage	# times sampled	method
Seagrass		5	poker	Sand	20	5	poker
Rock or Shell Rubble	50			Mud/Muck/Silt	80		
Aquatic Vegetation				Other:			

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ ____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	% DO		Secchi (m):
Top ✓	1.37	20.20	6.47	7.64	3144	89.0		
Mid-depth								
Bottom								

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

Water Odors (check box): Normal: ☑ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐ ____

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

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

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

Weather Conditions/Notes:

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

SAMPLING TEAM:	SIGNATURE:	DATE:
SA, FB	Shelley Alexander	10/28/03

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 10/28/03	RECEIVING BODY OF WATER: Blackwater River

REMARKS:	LOCATION: Milton WWTP	FIELD ID/NAME: Station #4

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

TOTAL SCORE 49

COMMENTS:

ANALYSIS DATE: 10/28/03	ANALYST: Ken Esry	SIGNATURE:

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

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
N 30 37 02.9 N 87 01 57.3		10/28/03	1446	BLACKWATER RIVER

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
MARINE FYI	Santa Rosa	MILTON WWTP	STATION # 5

RIPARIAN ZONE/INSTREAM FEATURES

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

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

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

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

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

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

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

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

Tide Types and Times

	AM/PM		AM/PM
:	AM PM	:	AM PM
:	AM PM	:	AM PM

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

SEDIMENT/SUBSTRATE

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

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

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

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

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ _____

WATER QUALITY	Depth (m)	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	9000		Secchi (m):
Top	0.82	20.33	6.58	7.97	3076	59.2		
Mid-depth								
Bottom								

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

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

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

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

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

Weather Conditions/Notes:

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

SAMPLING TEAM:	SIGNATURE:	DATE:
SA, FB	Shelly Alvarado	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y): 10/28/03	RECEIVING BODY OF WATER: Blackwater River
REMARKS:	LOCATION: Milton WWTP		FIELD ID/NAME: Station #5

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

TOTAL SCORE [59]

COMMENTS:

ANALYSIS DATE: 10/28/03	ANALYST: Ken Espy	SIGNATURE:

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

LAT/LONGS:	STORET STATION NUMBER:	DATE (M/D/Y):	TIME	RECEIVING BODY OF WATER:
N30 37 02.8 W87 01 57.3		10/28/03	1436	Blackwater River

REMARKS:	COUNTY:	SITE LOCATION:	FIELD ID/NAME:
Marine #41	Santa Rosa	Milton WWTP	Station #6

RIPARIAN ZONE/INSTREAM FEATURES

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

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

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

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

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

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

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

Artificially Impounded ☐ yes

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

Tide Types and Times

_____ : AM PM _____ : AM PM

_____ : AM PM _____ : AM PM

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

SEDIMENT/SUBSTRATE

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

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

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

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

Community Types

Mangroves ☐ Oyster bars ☐ Reef ☐ Natural beach ☐ Other: ☐ _____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	% DO		Secchi (m):
Top X	0.73	20.27	6.56	7.86	32.42	88.9		
Mid-depth								
Bottom X								

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

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

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

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

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

Weather Conditions/Notes:

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

SAMPLING TEAM:	SIGNATURE:	DATE:
SA, FB	Shelly Alexander	10/28/03

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
MARINE BENTHIC HABITAT ASSESSMENT FIELD DATA SHEET

SUBMITTING AGENCY CODE: / SUBMITTING AGENCY NAME:	STORET STATION NUMBER:	DATE (M/D/Y):	RECEIVING BODY OF WATER:
		10/28/03	Blackwater River

REMARKS:	LOCATION:	FIELD ID/NAME:
	Milton WWTP	Station #6

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

TOTAL SCORE 59

COMMENTS:

ANALYSIS DATE:	ANALYST:	SIGNATURE:
10/28/03	Ken Espy	

Appendix 8a

Benthic macroinvertebrates collected from ponar samples from upstream and downstream of the Milton WWTP facility (10/28/03). 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.

	Station # 1	Station # 2	Station # 3	Station # 4	Station # 5	Station # 6
Annelida						
Polychaeta						
Ampharetidae	-	8	-	117	-	-
Boccardiella sp.	42	-	-	-	-	-
Capitella capitata complex	-	-	-	67	-	14
Capitellidae	-	-	-	-	-	14
Dipolydora socialis	8	267	92	-	17	-
Hobsonia florida	-	-	-	25	75	97
Laeonereis culveri	175	292	1,392	258	425	861
Nereididae	-	8	8	42	8	14
Polydora cornuta	33	400	292	8	1,092	42
Spionidae	-	-	-	8	-	-
Stenoninereis martini	8	317	17	8	108	28
Streblospio sp.	-	-	-	117	242	250
Oligochaeta						
Limnodrilus sp.	17	-	-	-	8	-
Lumbriculus variegatus	-	267	-	-	-	-
Tubificidae	-	133	17	-	-	14
Arthropoda						
Crustacea						
Amphipoda						
Gammaridae	-	25	-	-	-	-
Gammarus sp.	-	42	-	-	-	-
Gammarus sp. B	-	8	-	-	33	-
Gammarus tigrinus	-	158	-	-	-	-
Grandidierella bonnieroides	8	8	-	8	8	-
Hyalella azteca	-	-	-	-	8	-
Cumacea						
Almyracuma proximoculi	8	17	17	-	8	-
Decapoda						
Callinectes sapidus	-	8	-	-	-	-
Callinectes sp.	-	-	-	-	17	-
Portunidae	-	-	-	-	8	-
Undetermined Decapoda	-	-	-	-	-	14
Xanthidae	-	8	-	-	-	-
Isopoda						
Cassidinidea ovalis	-	8	-	-	-	-
Cyathura polita	-	-	17	-	133	83
Mysidacea						
Taphromysis louisianae	-	42	-	-	-	-
Undetermined Mysidacea	-	-	17	-	-	-
Insecta						
Diptera						
Ceratopogonidae	8	133	58	50	92	97
Chironomidae	8	8	-	8	-	-
Chironomus sp.	183	350	-	8	-	-
Coelotanypus sp.	-	-	-	83	25	83
Cryptochironomus sp.	17	8	17	-	-	-
Dasyhelea sp.	-	-	8	-	-	-
Dicrotendipes modestus	-	192	17	-	-	-
Dicrotendipes neomodestus	-	8	-	-	-	-

Appendix 8a (continued)

	Station # 1	Station # 2	Station # 3	Station # 4	Station # 5	Station # 6
Dicrotendipes sp.	-	-	-	8	-	-
Djalmabatista pulcher	-	-	-	-	25	-
Nanocladius sp.	-	17	-	-	17	-
Palpomyia/bezzia grp.	-	17	-	8	33	-
Pericoma sp.	8	-	-	-	-	-
Phaenopsectra obediens grp.	-	8	-	-	-	-
Polypedilum halterale grp.	-	-	-	-	-	42
Polypedilum illinoense grp.	-	8	-	-	-	-
Polypedilum sp.	8	8	-	-	8	-
Stictochironomus sp.	250	17	-	-	-	-
Stictochironomus devinctus	142	-	83	-	8	28
Tanytarsus sp. L Epler	-	8	-	-	-	-
Undetermined Diptera	-	8	-	-	-	-
Ephemeroptera						
Baetidae	-	-	-	-	8	-
Caenis sp.	-	83	8	-	-	-
Hexagenia sp.	-	-	8	-	-	-
Hexagenia limbata	-	-	8	-	-	-
Lepidoptera						
Neargyractis slossonalis	-	-	8	-	-	-
Pyralidae	-	8	-	-	-	-
Odonata						
Coenagrionidae	-	8	-	-	-	-
Enallagma sp.	-	17	-	-	-	-
Enallagma durum	-	8	-	-	-	-
Gomphidae	-	-	-	-	17	-
Gomphus sp.	-	8	-	-	-	-
Macromia sp.	-	-	8	-	-	-
Trichoptera						
Cernotina sp.	-	17	-	-	25	-
Hydroptila sp.	-	17	-	-	-	-
Leptoceridae	-	8	-	-	-	-
Oecetis sp.	-	-	-	-	8	-
Oecetis inconspicua Cmplx.	-	8	25	-	-	-
Oecetis sp. A Floyd	-	8	-	-	-	-
Mollusca						
Bivalvia						
Rangia cuneata	-	-	8	-	-	-
Undetermined Bivalvia	-	-	-	-	17	-
Gastropoda						
Hydrobiidae	8	292	-	8	-	-
Neritina sp.	17	50	50	-	8	-
Pyramidellidae	-	8	-	-	-	-
Undetermined Gastropoda	-	17	-	-	25	-
Nemertea						
Undetermined Nemertea	-	25	-	8	83	-
Platyhelminthes						
Polycladida	-	8	-	-	-	-

Appendix 8b

Benthic macroinvertebrates collected in ponar samples from upstream and downstream of the Milton WWTP facility (10/28/03). Taxa collected and total number of individuals counted (n = 5 samples/site).

	Station # 1	Station # 2	Station # 3	Station # 4	Station # 5	Station # 6
Annelida						
Oligochaeta						
Limnodrilus sp.	2	-	-	-	1	-
Lumbriculus variegatus	-	32	-	-	-	-
Tubificidae	-	16	2	-	-	1
Polychaeta						
Ampharetidae	-	1	-	14	-	-
Boccardiella sp.	5	-	-	-	-	-
Capitella capitata complex	-	-	-	8	-	1
Capitellidae	-	-	-	-	-	1
Dipolydora socialis	1	32	11	-	2	-
Hobsonia florida	-	-	-	3	9	7
Laeonereis culveri	21	35	167	31	51	62
Nereididae	-	1	1	5	1	1
Polydora cornuta	4	48	35	1	131	3
Spionidae	-	-	-	1	-	-
Stenoninereis martini	1	38	2	1	13	2
Streblospio sp.	-	-	-	14	29	18
Arthropoda						
Crustacea						
Amphipoda						
Gammaridae	-	3	-	-	-	-
Gammarus sp.	-	5	-	-	-	-
Gammarus sp. B	-	1	-	-	4	-
Gammarus tigrinus	-	19	-	-	-	-
Grandidierella bonnieroides	1	1	-	1	1	-
Hyalella azteca	-	-	-	-	1	-
Cumacea						
Almyracuma proximoculi	1	2	2	-	1	-
Decapoda						
Callinectes sapidus	-	1	-	-	-	-
Callinectes sp.	-	-	-	-	2	-
Portunidae	-	-	-	-	1	-
Undetermined Decapoda	-	-	-	-	-	1
Xanthidae	-	1	-	-	-	-
Isopoda						
Cassidinidea ovalis	-	1	-	-	-	-
Cyathura polita	-	-	2	-	16	6
Mysidacea						
Taphromysis louisianae	-	5	-	-	-	-
Undetermined Mysidacea	-	-	2	-	-	-
Insecta						
Diptera						
Ceratopogonidae	1	16	7	6	11	7
Chironomidae	1	1	-	1	-	-
Chironomus sp.	22	42	-	1	-	-
Coelotanypus sp.	-	-	-	10	3	6
Cryptochironomus sp.	2	1	2	-	-	-
Dasyhelea sp.	-	-	1	-	-	-
Dicrotendipes modestus	-	23	2	-	-	-
Dicrotendipes neomodestus	-	1	-	-	-	-

Appendix 8b (continued)

	Station # 1	Station # 2	Station # 3	Station # 4	Station # 5	Station # 6
Dicrotendipes sp.	-	-	-	1	-	-
Djalmabatista pulcher	-	-	-	-	3	-
Nanocladius sp.	-	2	-	-	2	-
Palpomyia/bezzia grp.	-	2	-	1	4	-
Pericoma sp.	1	-	-	-	-	-
Phaenopsectra obediens grp.	-	1	-	-	-	-
Polypedilum halterale grp.	-	-	-	-	-	3
Polypedilum illinoense grp.	-	1	-	-	-	-
Polypedilum sp.	1	1	-	-	1	-
Stictochironomus sp.	30	2	-	-	-	-
Stictochironomus devinctus	17	-	10	-	1	2
Tanytarsus sp. L Epler	-	1	-	-	-	-
Undetermined Diptera	-	1	-	-	-	-
Ephemeroptera						
Baetidae	-	-	-	-	1	-
Caenis sp.	-	10	1	-	-	-
Hexagenia sp.	-	-	1	-	-	-
Hexagenia limbata	-	-	1	-	-	-
Lepidoptera						
Neargyractis slossonalis	-	-	1	-	-	-
Pyralidae	-	1	-	-	-	-
Odonata						
Coenagrionidae	-	1	-	-	-	-
Enallagma sp.	-	2	-	-	-	-
Enallagma durum	-	1	-	-	-	-
Gomphidae	-	-	-	-	2	-
Gomphus sp.	-	1	-	-	-	-
Macromia sp.	-	-	1	-	-	-
Trichoptera						
Cernotina sp.	-	2	-	-	3	-
Hydroptila sp.	-	2	-	-	-	-
Leptoceridae	-	1	-	-	-	-
Oecetis sp.	-	-	-	-	1	-
Oecetis inconspicua complex	-	1	3	-	-	-
Oecetis sp. A Floyd	-	1	-	-	-	-
Mollusca						
Bivalvia						
Rangia cuneata	-	-	1	-	-	-
Undetermined Bivalvia	-	-	-	-	2	-
Gastropoda						
Hydrobiidae	1	35	-	1	-	-
Neritina sp.	2	6	6	-	1	-
Pyramidellidae	-	1	-	-	-	-
Undetermined Gastropoda	-	2	-	-	3	-
Nemertea						
Undetermined Nemertea	-	3	-	1	10	-
Platyhelminthes						
Polycladida	-	1	-	-	-	-

Appendix 9

Discharge Monitoring Report

DMR Summary Results

01/01/2003 to 12/31/2003

Facility Name: MILTON STP

Permit Number: FL0021903

Outfall Indicator: 001-1

Monitoring Location Code: 1

Parameter Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P 00011	TEMPERATURE, WATER DEG FAHRENHEIT	ADDMON	5/1/2003 to 4/30/2008	MAXIMUM	DEG.F	80.3	82	76
P 00180	PERCENT CAPACITY (TMADF/Permitted Capacity) x 100	ADDMON	5/1/2003 to 4/30/2008	MO TOTAL	PER- CENT	62.7667	69.2	51.6
P 00400	PH	8.5	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	SU	7.1622	7.37	6.55
P 00400	PH	6	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MINIMUM	SU	6.5778	6.7	6.4
P 00400	PH	DELMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008		SU	7.26	7.34	7.18
P 00530	SOLIDS, TOTAL SUSPENDED	40	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	MG/L	1.6125	2.1	1
P 00530	SOLIDS, TOTAL SUSPENDED	20	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MO AVG	MG/L	1.265	2.02	0
P 00530	SOLIDS, TOTAL SUSPENDED	30	5/1/2003 to 4/30/2008	WKLY AVG	MG/L	1.284	2.02	0
P 00530	SOLIDS, TOTAL SUSPENDED	DELMON	11/1/98 to 5/31/2001		MG/L	1.65	1.65	1.65
P 00600	NITROGEN, TOTAL (AS N)	ADDMON	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	5.1533	7.95	4.03
P 00600	NITROGEN, TOTAL (AS N)	ADDMON	5/1/2003 to 4/30/2008	MO AVG	MG/L	3.9633	5.32	2.85
P 00610	NITROGEN, AMMONIA TOTAL (AS N)	ADDMON	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	0.7617	1.13	0.55
P 00610	NITROGEN, AMMONIA TOTAL (AS N)	ADDMON	5/1/2003 to 4/30/2008	MO AVG	MG/L	0.5775	0.7	0.47
P 00619	AMMONIA, UNIONIZED	0.02	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	0.01	0.01	0.01
P 00625	NITROGEN, KJELDAHL TOTAL (AS N)	ADDMON	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	1.4817	1.78	1.2
P 00625	NITROGEN, KJELDAHL TOTAL (AS N)	ADDMON	5/1/2003 to 4/30/2008	MO AVG	MG/L	1.255	1.42	1.12
P 00630	NITRITE PLUS NITRATE TOTAL 1 DET (AS N)	ADDMON	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	3.8483	6.51	2.67
P 00630	NITRITE PLUS NITRATE TOTAL 1 DET (AS N)	ADDMON	5/1/2003 to 4/30/2008	MO AVG	MG/L	2.6817	3.9	1.72
P 00665	PHOSPHORUS, TOTAL (AS P)	ADDMON	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	2.8	3.28	2.41
P 00665	PHOSPHORUS, TOTAL (AS P)	ADDMON	5/1/2003 to 4/30/2008	MO AVG	MG/L	2.5967	3.2	2.07
P 00900	HARDNESS, TOTAL (AS CACO3)	ADDMON	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	84.9833	97.9	72.3
P 00900	HARDNESS, TOTAL (AS CACO3)	0	11/1/98 to 5/31/2001	MINIMUM	MG/L	77.1667	85.5	67.4
P 01094	ZINC, TOTAL RECOVERABLE	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	UG/L	41.1111	59	28
P 01094	ZINC, TOTAL RECOVERABLE	DELMON	11/1/98 to 5/31/2001		UG/L	59	59	59
P 01114	LEAD, TOTAL RECOVERABLE	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	UG/L	1.0667	1.2	1
P 01114	LEAD, TOTAL RECOVERABLE	DELMON	11/1/98 to 5/31/2001		UG/L	1	1	1
P 01119	COPPER, TOTAL RECOVERABLE	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	UG/L	4.8	7.6	3.5
P 01119	COPPER, TOTAL RECOVERABLE	DELMON	11/1/98 to 5/31/2001		UG/L	5.6	5.6	5.6
P 50050	FLOW	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MO AVG	MGD	1.5478	1.93	1.19
P 50050	FLOW	2.5	11/1/98 to 5/31/2001	QRTR AVG	MGD	1.5133	1.54	1.49
P 50050	FLOW	2.5	5/1/2003 to 4/30/2008	QTR ROLL	MGD	1.58	1.73	1.29
P 50060	CHLORINE, TOTAL RESIDUAL	0.01	5/1/2003 to 4/30/2008	MAXIMUM	MG/L	0.025	0.1	0.01
P 74055	COLIFORM, FECAL GENERAL	800	5/1/2003 to 4/30/2008	MAXIMUM	#/ 100ML	3	3	3
P 74055	COLIFORM, FECAL GENERAL	ADDMON	5/1/2003 to 4/30/2008	MO GEOMN	#/ 100ML	1.32	1.32	1.32
P 80082	BOD, CARBONACEOUS 05 DAY, 20C	30	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	MG/L	4.5	6.7	2.5
P 80082	BOD, CARBONACEOUS 05 DAY, 20C	15	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MO AVG	MG/L	3.0778	3.8	2.5
P 80082	BOD, CARBONACEOUS 05 DAY, 20C	22.5	5/1/2003 to 4/30/2008	WKLY AVG	MG/L	2.9667	3.4	2.5
P 80082	BOD, CARBONACEOUS 05 DAY, 20C	DELMON	11/1/98 to 5/31/2001		MG/L	3.3	3.3	3.3

Outfall Indicator: 001-1
Monitoring Location Code: A

Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P 50060	CHLORINE, TOTAL RESIDUAL	0.5	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MINIMUM	MG/L	0.6244	0.91	0.53

Outfall Indicator: 001-1
Monitoring Location Code: G

Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P 00530	SOLIDS, TOTAL SUSPENDED	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MO AVG	MG/L	171.5722	211	140.4
P 80082	BOD, CARBONACEOUS 05 DAY, 20C	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MO AVG	MG/L	209.4444	243	177

Outfall Indicator: 001-1
Monitoring Location Code: P

Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P 01094	ZINC, TOTAL RECOVERABLE	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	UG/L	90.6337	97.9	75.89
P 01094	ZINC, TOTAL RECOVERABLE	DELMON	11/1/98 to 5/31/2001		UG/L	95.69	95.69	95.69
P 01114	LEAD, TOTAL RECOVERABLE	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	UG/L	2.5033	3.09	1.93
P 01114	LEAD, TOTAL RECOVERABLE	DELMON	11/1/98 to 5/31/2001		UG/L	2.73	2.73	2.73
P 01119	COPPER, TOTAL RECOVERABLE	ADDMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MAXIMUM	UG/L	10.1425	11.61	8.44
P 01119	COPPER, TOTAL RECOVERABLE	DELMON	11/1/98 to 5/31/2001		UG/L	10.34	10.34	10.34
P 50060	CHLORINE, TOTAL RESIDUAL	0.01	11/1/98 to 5/31/2001	MAXIMUM	MG/L	0.01	0.01	0.01

Outfall Indicator: 001-1
Monitoring Location Code: Q

Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P 01094	ZINC, TOTAL RECOVERABLE	0	5/1/2003 to 4/30/2008	MAXIMUM	UG/L	53.45	59.4	47.5
P 01094	ZINC, TOTAL RECOVERABLE	0	11/1/98 to 5/31/2001	MINIMUM	UG/L	43.67	58.43	35.89
P 01114	LEAD, TOTAL RECOVERABLE	0	5/1/2003 to 4/30/2008	MAXIMUM	UG/L	0.91	0.91	0.91
P 01114	LEAD, TOTAL RECOVERABLE	0	11/1/98 to 5/31/2001	MINIMUM	UG/L	1.6	1.74	1.33
P 01119	COPPER, TOTAL RECOVERABLE	0	5/1/2003 to 4/30/2008	MAXIMUM	UG/L	5.36	5.36	5.36
P 01119	COPPER, TOTAL RECOVERABLE	0	11/1/98 to 5/31/2001	MINIMUM	UG/L	4.9333	5.12	4.74

Outfall Indicator: 001-1
Monitoring Location Code: Y

Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P 00530	SOLIDS, TOTAL SUSPENDED	20	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	ANNL AVG	MG/L	1.2544	1.51	1.16
P 00530	SOLIDS, TOTAL SUSPENDED	DELMON	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008		MG/L	1.22	1.23	1.21
P 74055	COLIFORM, FECAL GENERAL	200	5/1/2003 to 4/30/2008	ANNL AVG	#/ 100ML	1.04	1.04	1.04
P 80082	BOD, CARBONACEOUS 05 DAY, 20C	15	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	ANNL AVG	MG/L	3.0789	3.24	2.84
P 80082	BOD, CARBONACEOUS 05 DAY, 20C	DELMON	5/1/2003 to 4/30/2008		MG/L	3.1	3.1	3.1

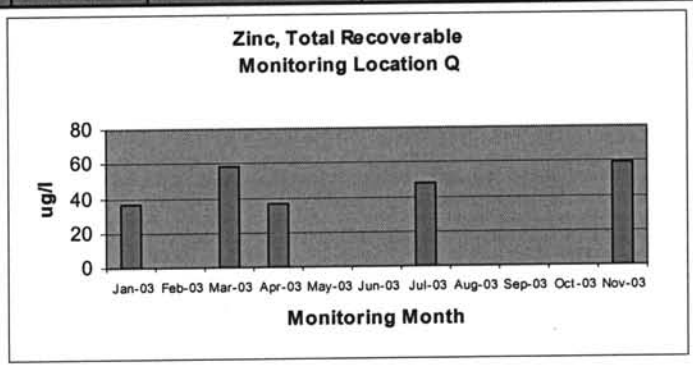
Outfall Indicator: 001-T
Monitoring Location Code: P

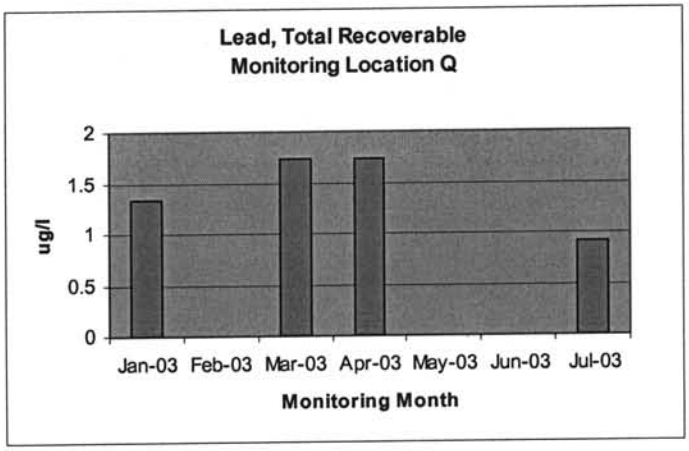
Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P TBP3B	NOEL STATRE 7DAY CHR CERIODAPHNIA	100	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MINIMUM	PER- CENT	100	100	100
P TBP6C	NOEL STATRE 7DAY CHR PIMEPHALES	100	11/1/98 to 5/31/2001 5/1/2003 to 4/30/2008	MINIMUM	PER- CENT	100	100	100

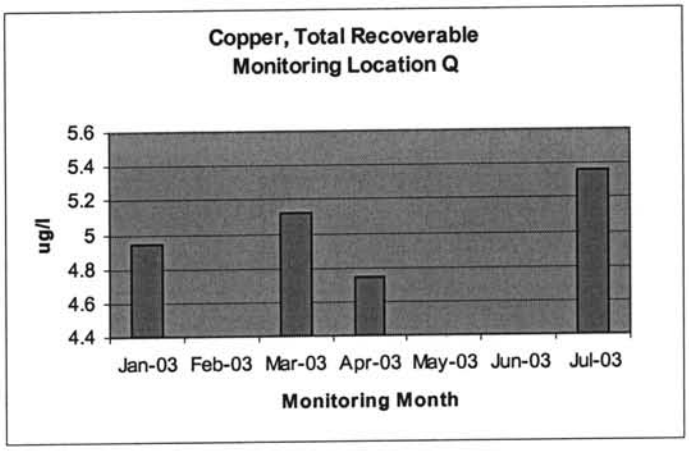
Outfall Indicator: 001-T
Monitoring Location Code: Q

Code	Description	Limit	Limit Effective Dates	Stat Base	Units	AVG	MAX	MIN
P TBP3B	NOEL STATRE 7DAY CHR CERIODAPHNIA	100	11/1/98 to 5/31/2001	MINIMUM	PER- CENT	100	100	100
P TBP6C	NOEL STATRE 7DAY CHR PIMEPHALES	100	11/1/98 to 5/31/2001	MINIMUM	PER- CENT	100	100	100

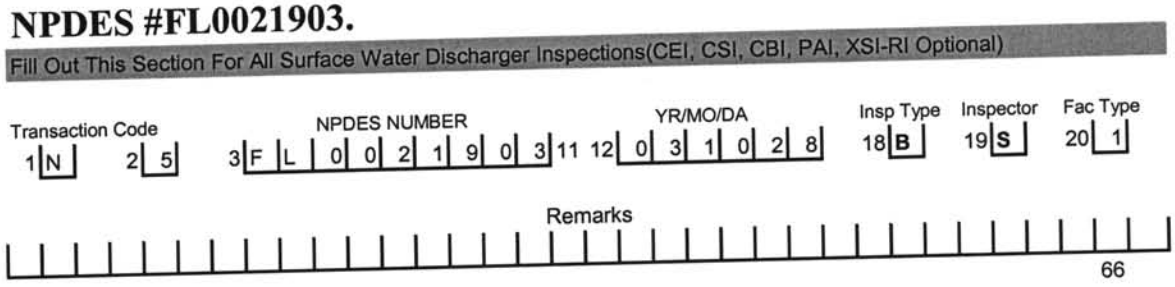
Outfall Type	Monitoring Date	Outfall Indicator	Parameter Code	Parameter Description	Monitoring Location Code	Concentration (1)	Concentration Limit (1)	Concentration Statistical Base (1)
EFFLUENT	7/31/2003	001-1	P 01094	ZINC, TOTAL RECOVERABLE	Q	47.5	0.00	MAXIMUM
EFFLUENT	7/31/2003	001-1	P 01114	LEAD, TOTAL RECOVERABLE	Q	0.91	0.00	MAXIMUM
EFFLUENT	7/31/2003	001-1	P 01119	COPPER, TOTAL RECOVERABLE	Q	5.36	0.00	MAXIMUM
EFFLUENT	11/30/2003	001-1	P 01094	ZINC, TOTAL RECOVERABLE	Q	59.4	0.00	MAXIMUM







The Bioassay of Milton WWTP effluent sampled on October 28, 2003, NPDES #FL0021903.



The Priority Pollutants Analysis for Bioassay of Milton WWTP effluent sampled on October 28, 2003, NPDES #FL0021903.

