

Bioassays of

South Central Regional
Wastewater Treatment and Disposal Board

Delray Beach, Broward County, Florida

NPDES #FL0035980

Sampled 3/24/03

June 2003

Biology Section
Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

Bioassays of

South Central Regional Wastewater Treatment and Disposal Board

Delray Beach, Broward County, Florida

NPDES #FL0035980

Biology Section
Bureau of Laboratories
June 2003

South Central Regional Wastewater Treatment and Disposal Board, 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES #FL0035980, tests performed on 25 to 29 March 2003.

Introduction

This WWTP has a design flow of 24.0 MGD and an average daily flow of 26.4 MGD (January – March, 2003). Wastewater treatment consists of a complete-mix activated-sludge process, chlorination, and dechlorination before discharge into the Class III Marine waters of the Atlantic Ocean. A mixing zone exists for dissolved oxygen, copper, cyanide, and pH (facility information provided by Hubert Philoctete, FDEP, West Palm Beach).

Methods

Samples were collected by Terry Davis following DEP-SOP-001/01 FS 2400 Wastewater Sampling. Per the NPDES permit for this facility, four separate grab samples were collected at evenly spaced (6-hour) intervals over a 24-hour period.

All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm

The toxicity tests discussed in this report were performed following internal DEP SOP's TA07_03 and TA07_04. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Toxicity Test Results

Sample 1
Americamysis bahia 96-hr acute definitive – Control Failure (test invalidated)
Menidia beryllina 96-hr acute definitive – LC50- >100% effluent

Sample 2
Americamysis bahia 96-hr acute definitive– LC50-100% effluent
Menidia beryllina 96-hr acute definitive – LC50-54.9% effluent

Sample 3
Americamysis bahia 96-hr acute definitive– LC50-77.1% effluent
Menidia beryllina 96-hr acute definitive – Control Failure (test invalidated)

Sample 4
Americamysis bahia 96-hr acute definitive –LC50-81.4% effluent
Menidia beryllina 96-hr acute definitive–LC50-71.7% effluent

See Tables 1 through 4 for bioassay bench sheets.

Chemistry Results

Total residual chlorine and total ammonia were detected in all four of the bioassay samples in the laboratory as follows:

Sample 1- total ammonia- 7.130 mg/L, unionized ammonia-0.728 mg/L, total residual chlorine-0.22 mg/L.

Sample 2-total ammonia- 9.830 mg/L, unionized ammonia-0.997 mg/L, total residual chlorine-0.27 mg/L.

Sample 3-total ammonia- 11.800 mg/L, unionized ammonia-1.450 mg/L, total residual chlorine-0.37 mg/L.

Sample 4-total ammonia- 10.600 mg/L, unionized ammonia-1.310 mg/L, total residual chlorine-0.22 mg/L.

See Table 5 for chemicals detected in the analytical chemistry samples.
The concentration of copper (6.6 μg/L) in the sample submitted for chemical analysis exceeded the Class III marine water quality standard for copper (≤ 3.7 ug/L) (FAC 62-302.530).

See Table 6 for a complete list of chemical analyses performed.

Conclusion

All the samples of effluent collected from this facility on March 23 and 24, 2003, showed acute toxicity to both test species (excluding the two invalidated tests) during the 96-hour bioassay tests. The toxicity is attributed primarily to the unionized ammonia concentrations in the samples. The unionized ammonia concentrations in the samples generally exceeded the concentrations reported to have produced 48 hour LC_{50}'s in *Americamysis bahia* (~1.0 mg/L) and *Menidia beryllina* (~0.9 mg/L) (D.C. Miller *et al*, 1990, The *Acute and Chronic Toxicity of Ammonia to Marine Fish and Invertebrates*, Archives of Environmental Contamination and Toxicology 19: 40–48). The concentration of copper measured in the chemistry analysis is another potential source of toxicity in the test. Unidentified constituents in the sample cannot be ruled out as contributing to the observed mortality.

Table 1. Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #1), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #1**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/23/2003 Time: 1500	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1630	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_03		**Page 1 of 2**	**Reviewer:**	Rob Buda

Organism: ***Americamysis bahia*** Life stage: 3-5 days [A]Feeding: artemia

Chamber size: 1L Food Batch #: 01940425G

Concentrations	Sample/Diluent Volume(mL)	SURVIVAL # Alive 0 hr	24 hr	48 hr	pH 0 hour	24 hour	48 hour	Temperature[B] 0 hour	24 hour	48 hour	Dissolved Oxygen[C] 0 hour	24 hour	48 hour	Conductivity Uncorrected mmhos/cm 0 hour	48 hour
Control A	0/500	10	10	10	8.2	8.2	8.2	25.2	24.4	23.6	6.3	5.2	7.5	33.3	32.7
Control B	0/500	10	10	10	8.2	8.2	8.3	25.4	24.2	23.4	7.1	5.3	7.4	35.8	30.2
Salt Cntl A	0/500	10	10	10	8.3	8.3	8.2	25.4	24.2	23.6	7.8	5.3	7.1	30.5	31.0
Salt Cntl B	0/500	10	10	10	8.3	8.3	8.3	25.7	24.2	24.0	7.7	5.2	7.0	31.2	31.0
6.25% A	31.25/468.75	10	10	10	8.2	8.2	8.3	25.3	24.6	23.4	7.7	5.3	7.6	35.5	34.3
6.25% B	31.25/468.75	10	10	10	8.2	8.2	8.3	25.3	24.6	23.6	7.0	5.4	7.7	35.6	34.7
12.5% A	62.5/437.5	10	10	10	8.2	8.2	8.3	25.4	24.5	23.5	7.5	5.7	7.2	34.6	34.1
12.5% B	62.5/437.5	10	10	10	8.2	8.2	8.3	25.4	24.5	23.8	7.5	5.5	7.3	35.3	34.5
30% A	150/350	10	10	10	8.2	8.2	8.2	25.3	25.6	23.7	7.7	5.5	7.5	34.8	34.1
30% B	150/350	10	10	10	8.2	8.2	8.2	25.3	25.6	23.8	7.7	5.7	7.4	34.8	34.0
50% A	250/250	10	10	10	8.2	8.2	8.2	25.3	25.6	23.8	7.7	5.4	7.5	34.1	33.4
50% B	250/250	10	10	10	8.2	8.2	8.2	25.3	25.6	23.5	7.7	3.5	7.4	34.1	33.1
100% A	500/0	10	10	10	8.2	8.2	8.3	25.3	24.8	24.3	7.7	4.0	7.2	32.4	32.3
100% B	500/0	10	10	10	8.2	8.2	8.3	25.3	24.7	23.7	7.8	4.2	7.0	31.7	31.2

Organism: ***Americamysis bahia*** (After Renewal)

Concentrations	Sample/Diluent Volume(mL)	SURVIVAL # Alive 48 hr	72 hr[E]	96 hr	pH 48 hour	72 hour	96 hour	Temperature[B] 48 hour	72 hour	96 hour	Dissolved Oxygen[C] 48 hour	72 hour	96 hour	Conductivity Uncorrected mmhos/cm 48 hour	96 hour
Control A	0/500	10	7	7	8.3	8.2	8.2	25.0	24.4	24.7	7.7	7.2	6.0	31.9	33.3
Control B	0/500	10	10	10	8.3	8.2	8.1	24.7	24.5	25.0	7.7	7.2	5.3	32.6	33.3
Salt Cntl A	0/500	10	9	9	8.3	8.3	8.3	24.8	25.4	24.4	5.8	7.1	5.3	31.1	33.1
Salt Cntl B	0/500	10	10	10	8.3	8.3	8.3	24.6	25.3	25.4	5.7	7.0	5.5	31.1	32.8
6.25% A	31.25/468.75	10	10	10	8.3	8.2	8.1	24.8	24.5	24.7	7.7	6.6	5.3	32.2	32.9
6.25% B	31.25/468.75	10	10	10	8.3	8.2	8.1	24.8	24.4	24.3	7.7	6.5	5.2	32.4	32.9
12.5% A	62.5/437.5	10	10	10	8.3	8.2	8.1	24.9	24.3	24.1	6.9	6.6	5.1	32.3	33.2
12.5% B	62.5/437.5	10	10	10	8.3	8.2	8.1	24.9	24.4	23.9	6.9	6.4	5.1	32.4	32.5
30% A	150/350	10	10	10	8.2	8.2	8.1	24.9	24.7	23.9	6.9	5.9	5.0	32.4	32.5
30% B	150/350	10	10	10	8.2	8.2	8.1	25.1	24.4	23.8	6.8	5.7	4.9	32.4	32.5
50% A	250/250	10	10	10	8.2	8.2	8.2	25.0	24.5	24.1	6.8	5.7	5.3	32.3	32.4
50% B	250/250	10	10	10	8.2	8.2	8.1	24.9	24.5	24.4	6.8	5.8	5.4	32.4	32.7
100% A	500/0	10	10	9	8.2	8.1	8.1	25.2	24.6	24.3	6.7	5.5	4.8	32.4	32.3
100% B	500/0	10	10	9	8.1	8.1	8.1	25.1	24.5	24.9	6.7	5.2	4.7	32.1	33.0

[E] Control Failure at 72 hours.

Continued

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661712

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.22	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	7.130	0.728

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	147	169

Salinity [D]	ppt
Mysid control:	20
100% sample:	<1

[A] Organisms fed daily.

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 25.0-27.0°C.
Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to increase the initial D.O. from 4.9 mg/L to 8.2 mg/L.

[D] Salinity based on conductivity and temperature.
Sample was salted to 20ppt using 40 fathoms artificial sea salts.
Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

Table 1. Concluded

Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #1), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #1**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/23/2003 Time: 1500	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1630	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_04		**Page 2 of 2**	**Reviewer:**	Rob Buda

Organism: ***Menidia beryllina*** Life stage: 11-12 days [A]Feeding: artemia

Chamber size: 1L Food Batch #: 01940425G

Concentrations	Sample/Diluent Volume(mL)	SURVIVAL # Alive 0 hr	24 hr	48 hr	pH 0 hour	24 hour	48 hour	Temperature[B] 0 hour	24 hour	48 hour	Dissolved Oxygen[C] 0 hour	24 hour	48 hour	Conductivity Uncorrected mmhos/cm 0 hour	48 hour
Control A	0/500	10	10	10	8.3	8.3	8.3	24.8	24.6	23.7	7.5	6.1	6.9	35.0	34.0
Control B	0/500	10	10	10	8.3	8.3	8.3	25.1	24.5	24.2	7.5	6.2	6.9	35.2	35.2
Salt Cntl A	0/500	10	10	10	8.3	8.3	8.3	26.0	24.4	23.9	8.0	6.3	5.9	31.0	30.7
Salt Cntl B	0/500	10	10	10	8.3	8.3	8.3	25.8	24.6	23.8	7.3	6.3	5.7	31.3	30.4
6.25% A	31.25/468.75	10	10	9	8.2	8.3	8.3	25.2	24.6	24.1	7.7	6.3	6.9	35.5	34.0
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30% A	150/350	10	10	10	8.2	8.3	8.3	25.2	24.6	23.7	7.4	6.4	6.8	34.7	33.7
30% B	150/350	10	9	9	8.3	8.3	8.3	25.2	24.9	24.6	7.7	6.3	6.7	34.5	34.9
50% A	250/250	10	10	10	8.3	8.3	8.3	25.3	25.2	24.3	7.7	6.3	6.4	34.1	33.6
50% B	250/250	10	10	9	8.3	8.3	8.3	25.3	24.2	23.8	7.8	6.1	6.2	33.8	33.4
100% A	500/0	10	10	6	8.2	8.3	8.3	25.3	25.3	23.9	7.8	6.0	6.2	32.3	31.6
100% B	500/0	10	9	6	8.2	8.3	8.3	25.3	24.6	24.4	7.9	5.9	6.0	32.0	31.9

Organism: ***Menidia beryllina*** (After Renewal)

Concentrations	Sample/Diluent Volume(mL)	SURVIVAL # Alive 48 hr	72 hr	96 hr	pH 48 hour	72 hour	96 hour	Temperature[B] 48 hour	72 hour	96 hour	Dissolved Oxygen[C] 48 hour	72 hour	96 hour	Conductivity Uncorrected mmhos/cm 48 hour	96 hour
Control A	0/500	10	10	10	8.3	8.3	8.3	24.8	24.7	25.3	6.9	7.0	6.4	32.1	33.5
Control B	0/500	10	10	10	8.3	8.3	8.2	24.8	25.0	24.9	6.9	6.2	6.4	32.2	34.0
Salt Cntl A	0/500	10	10	10	8.3	8.3	8.3	24.7	24.9	24.2	5.6	6.1	6.2	31.0	32.4
Salt Cntl B	0/500	10	10	10	8.3	8.3	8.3	24.7	24.9	24.8	5.4	5.9	6.1	31.0	32.3
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6.25% B	31.25/468.75	10	10	10	8.3	8.3	8.2	25.0	24.6	24.8	6.8	5.7	6.2	32.5	33.4
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12.5% B	62.5/437.5	10	10	10	8.3	8.2	8.2	25.1	24.5	24.1	6.8	5.8	6.3	32.5	32.7
30% A	150/350	10	10	10	8.2	8.2	8.2	25.0	24.6	24.0	6.8	5.7	6.3	32.5	32.5
30% B	150/350	9	8	8	8.2	8.2	8.2	25.1	24.8	24.3	6.8	5.6	6.2	32.5	32.8
50% A	250/250	10	10	10	8.2	8.2	8.2	25.1	24.7	24.1	6.8	5.7	6.1	32.3	33.2
50% B	250/250	9	9	9	8.2	8.2	8.2	25.1	24.7	24.6	6.8	5.7	6.1	32.1	32.9
100% A	500/0	6	5	5	8.1	8.2	8.2	25.1	24.6	24.6	6.6	5.5	6.1	32.2	33.2
100% B	500/0	6	6	6	8.1	8.2	8.2	25.2	24.7	24.3	6.6	5.5	6.1	32.4	33.1

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

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

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661712

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.22	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	7.130	0.728

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	147	169

Salinity [D]	ppt
Menidia control:	20
100% sample:	<1

[A] Organisms fed daily.

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

Room Temperature range for the test period was 25.0-27.0°C.

Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to increase the initial D.O. from 4.9 mg/L to 8.2 mg/L.

[D] Salinity based on conductivity and temperature. Sample was salted to 20ppt using 40 fathoms artificial sea salts.

Table 2. Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #2), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #2**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/23/2003 Time: 2100	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1445	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_03		**Page 1 of 2**	**Reviewer:**	Rob Buda

Organism: ***Americamysis bahia*** Life stage: 3-5 days [A]Feeding: artemia
Chamber size: 1L Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
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	10	10	10	8.3	8.2	8.1	25.3	24.9	25.0	7.5	5.1	5.8	32.8	36.8
Control B	0/500	10	10	10	8.3	8.2	8.1	25.2	24.9	25.1	7.1	5.2	5.6	35.2	36.3
6.25% A	31.25/468.75	10	9	9	8.3	8.2	8.1	25.3	24.6	24.7	7.3	5.3	5.2	35.4	36.0
6.25% B	31.25/468.75	10	10	9	8.2	8.2	8.1	25.3	24.8	24.7	7.6	5.2	5.2	35.2	35.8
12.5% A	62.5/437.5	10	10	10	8.2	8.2	8.0	25.4	24.6	24.6	7.6	4.9	4.8	35.0	35.4
12.5% B	62.5/437.5	10	10	10	8.2	8.2	8.1	25.3	24.5	24.9	7.7	4.9	4.8	35.2	35.2
30% A	150/350	10	10	10	8.2	8.1	8.1	25.3	24.4	24.8	7.7	5.0	4.8	34.7	34.5
30% B	150/350	10	10	10	8.2	8.2	8.1	25.3	24.3	24.7	7.8	5.1	4.4	34.1	34.5
50% A	250/250	10	10	10	8.2	8.2	8.1	25.2	24.2	25.0	7.8	5.0	4.9	33.4	34.0
50% B	250/250	10	10	10	8.2	8.2	8.1	25.2	24.2	25.7	7.8	4.8	5.0	33.5	34.7
100% A	500/0	10	8	8	8.2	8.2	8.1	25.2	24.2	24.1	7.9	5.0	4.8	31.5	31.6
100% B	500/0	10	8	8	8.2	8.2	8.1	25.2	24.1	24.3	8.0	4.7	4.7	31.1	31.5

Organism: ***Americamysis bahia*** (After Renewal)

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	48 hr	72 hr	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/500	10	10	10	8.3	8.3	8.2	25.3	24.7	25.6	6.6	6.1	6.4	31.6	32.2
Control B	0/500	10	10	10	8.3	8.3	8.2	25.3	24.6	24.6	6.7	6.2	6.3	32.5	32.6
6.25% A	31.25/468.75	9	10	10	8.3	8.3	8.2	25.2	24.8	24.4	6.7	6.2	6.1	31.6	32.0
6.25% B	31.25/468.75	9	9	9	8.3	8.3	8.2	25.1	24.8	24.8	6.7	6.2	6.0	32.3	32.2
12.5% A	62.5/437.5	10	10	10	8.2	8.3	8.1	25.2	24.7	25.1	6.7	5.8	5.0	32.4	32.5
12.5% B	62.5/437.5	10	10	10	8.2	8.2	8.1	25.2	24.5	24.7	6.7	5.5	4.5	32.4	32.6
30% A	150/350	10	10	10	8.2	8.2	8.1	25.1	24.6	25.0	6.6	5.6	4.5	32.3	32.7
30% B	150/350	10	10	10	8.2	8.2	8.1	25.2	24.7	25.0	6.6	5.6	4.2	32.2	31.9
50% A	250/250	10	10	10	8.1	8.2	8.2	25.0	24.9	24.9	6.6	5.2	4.5	31.5	32.5
50% B	250/250	10	10	10	8.1	8.2	8.2	25.2	24.7	24.8	6.6	5.3	4.4	32.4	32.5
100% A	500/0	8	5	4	8.0	8.2	8.2	25.0	24.9	25.2	6.5	5.2	4.3	32.2	32.1
100% B	500/0	8	6	6	8.0	8.2	8.2	24.9	25.2	24.9	6.5	4.8	4.4	31.9	32.3

Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

Continued

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661713

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.27	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	9.830	0.997

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	160	161

Salinity [D]	ppt
Mysid control:	20
100% sample:	<1

[A] Organisms fed daily.

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 25.0-27.0°C.
Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to increase the initial D.O. from 6.3 mg/L to 8.0 mg/L.

[D] Salinity based on conductivity and temperature. Sample was salted to 20ppt using 40 fathoms artificial sea salts.

[E] See sample #1 for Salt Control data.

Table 2. Concluded

Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #2), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #2**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/23/2003 Time: 2100	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1445	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_04		**Page 2 of 2**	**Reviewer:**	Rob Buda

Organism: ***Menidia beryllina*** Life stage: 11-12 days [A]Feeding: artemia

Chamber size: 1L Food Batch #: 01940425G

														Conductivity Uncorrected	
	Sample/Diluent	**SURVIVAL # Alive**			pH			Temperature[B]			Dissolved Oxygen[C]			mmhos/cm	
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	10	9	8	8.2	8.3	8.3	25.2	24.9	24.1	7.0	6.0	6.3	32.7	35.6
Control B	0/500	10	10	10	8.3	8.3	8.3	25.2	24.8	24.3	7.1	6.1	6.3	35.0	35.5
6.25% A	31.25/468.75	10	10	10	8.3	8.3	8.3	25.2	24.4	24.6	7.4	6.1	6.2	35.2	35.6
6.25% B	31.25/468.75	10	10	10	8.3	8.3	8.3	25.2	24.5	24.4	7.5	6.2	6.2	35.4	35.5
12.5% A	62.5/437.5	10	10	9	8.2	8.3	8.3	25.2	24.9	24.6	7.6	6.2	6.0	34.8	36.2
12.5% B	62.5/437.5	10	10	10	8.3	8.3	8.3	25.4	24.4	24.3	7.6	6.2	6.1	35.4	35.1
30% A	150/350	10	10	9	8.2	8.3	8.2	25.3	24.5	24.4	7.7	6.2	6.0	34.6	34.5
30% B	150/350	10	10	9	8.2	8.2	8.2	25.3	24.5	24.0	7.8	6.0	5.9	34.5	34.7
50% A	250/250	10	10	5	8.2	8.3	8.3	25.2	24.5	24.6	7.8	5.9	5.8	33.6	33.6
50% B	250/250	10	10	9	8.2	8.3	8.3	25.2	24.0	24.5	7.8	5.9	5.7	33.0	33.5
100% A	500/0	10	7	1	8.2	8.2	8.3	25.1	24.0	24.5	7.8	5.9	5.6	31.4	31.3
100% B	500/0	10	5	0	8.2	8.3	8.3	25.1	24.6	24.4	7.8	5.8	5.5	30.5	31.2

Organism: ***Menidia beryllina*** (After Renewal)

														Conductivity Uncorrected	
	Sample/Diluent	**SURVIVAL # Alive**			pH			Temperature[B]			Dissolved Oxygen[C]			mmhos/cm	
Concentrations	Volume(mL)	48 hr	72 hr	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/500	8	8	8	8.3	8.3	8.3	25.2	24.4	25.5	6.8	5.8	5.9	32.0	31.5
Control B	0/500	10	10	10	8.3	8.3	8.3	25.3	24.2	24.7	6.9	5.9	6.1	32.3	31.5
6.25% A	31.25/468.75	10	10	10	8.3	8.3	8.3	25.2	24.2	24.9	6.9	6.2	6.1	32.5	32.2
6.25% B	31.25/468.75	10	10	10	8.3	8.3	8.2	25.0	24.3	24.9	6.9	6.1	6.1	32.5	32.4
12.5% A	62.5/437.5	9	9	8	8.3	8.3	8.3	25.0	24.3	24.8	6.8	5.9	6.0	32.5	32.2
12.5% B	62.5/437.5	10	10	8	8.3	8.3	8.3	25.0	24.1	25.3	6.8	6.0	6.1	32.3	31.6
30% A	150/350	9	9	9	8.2	8.2	8.2	24.9	24.3	24.8	6.8	6.1	6.0	32.3	31.5
30% B	150/350	9	9	9	8.2	8.2	8.2	24.8	24.2	25.6	6.8	5.9	6.0	32.4	32.0
50% A	250/250	5	5	5	8.2	8.2	8.2	24.8	24.4	25.8	6.7	5.8	5.8	32.2	32.7
50% B	250/250	9	8	8	8.2	8.2	8.2	24.8	24.6	25.6	6.7	5.6	5.9	31.9	32.1
100% A	500/0	1	1	1	8.1	8.2	8.2	24.8	24.5	25.6	6.7	5.5	5.8	32.0	33.1
100% B	500/0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

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

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661713

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.27	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	9.830	0.997

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	160	161

Salinity [D]	ppt
Menidia control:	20
100% sample:	<1

[A] Organisms fed daily.

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

Room Temperature range for the test period was 25.0-27.0°C.

Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to increase the initial D.O. from 6.3 mg/L to 8.0 mg/L.

[D] Salinity based on conductivity and temperature. Sample was salted to 20ppt using 40 fathoms artificial sea salts.

[E] See sample #1 for Salt Control data.

Table 3. Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #3), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #3**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/24/2003 Time: 0300	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1430	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_03		**Page 1 of 2**	**Reviewer:**	Rob Buda

Organism: ***Americamysis bahia*** Life stage: 3-5 days [A]Feeding: artemia
Chamber size: 1L Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
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	0/400	10	10	10	8.2	8.2	8.0	25.0	24.6	25.1	6.9	4.7	4.5	35.5	34.2
Control B	0/400	10	10	10	8.2	8.2	8.0	24.9	24.3	24.8	7.0	4.8	4.2	34.9	35.8
6.25% A	25/375	10	10	10	8.2	8.2	8.0	24.8	24.4	24.8	7.2	4.7	3.8	35.2	34.7
6.25% B	25/375	10	10	10	8.2	8.2	8.0	24.9	24.0	25.4	7.2	5.0	3.8	35.2	36.3
12.5% A	50/350	10	10	10	8.2	8.2	8.0	24.9	24.3	25.4	7.6	5.0	3.5	35.0	36.1
12.5% B	50/350	10	10	10	8.2	8.2	8.0	25.0	24.2	25.5	7.8	4.9	3.5	34.8	35.2
30% A	120/280	10	10	10	8.2	8.2	8.1	25.0	24.3	26.2	7.4	5.1	3.4	34.2	34.7
30% B	120/280	10	10	10	8.2	8.2	8.1	24.9	24.4	25.8	7.3	5.0	3.5	34.2	33.8
50% A	200/200	10	10	10	8.2	8.2	8.1	24.9	24.7	25.4	7.2	5.0	3.5	33.4	34.0
50% B	200/200	10	10	10	8.2	8.2	8.1	24.9	24.6	24.8	7.2	4.7	3.6	33.4	33.5
100% A	400/0	10	5	2	8.2	8.2	8.2	25.0	24.7	24.7	7.4	4.7	3.3	31.0	30.7
100% B	400/0	10	6	4	8.3	8.2	8.2	24.9	24.5	24.9	7.3	4.7	3.1	30.7	30.7

Organism: ***Americamysis bahia*** (After Renewal)

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	48 hr	72 hr	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/400	10	10	10	8.2	8.2	8.2	25.4	26.0	24.6	6.4	5.4	6.6	32.6	32.7
Control B	0/400	10	10	10	8.2	8.2	8.2	25.4	27.0	24.6	6.4	5.0	6.7	32.8	32.9
6.25% A	25/375	10	10	10	8.2	8.2	8.2	25.5	26.2	24.0	6.4	4.8	6.8	32.6	33.5
6.25% B	25/375	10	10	10	8.2	8.2	8.2	25.6	26.3	24.4	6.4	4.7	6.8	32.9	33.4
12.5% A	50/350	10	10	10	8.2	8.2	8.3	25.7	24.6	25.0	6.4	4.9	6.9	32.9	34.0
12.5% B	50/350	10	10	10	8.2	8.2	8.3	25.6	26.3	24.7	6.4	4.9	6.9	32.8	32.1
30% A	120/280	10	10	10	8.2	8.2	8.3	25.7	25.0	24.7	6.4	4.9	6.9	32.6	32.9
30% B	120/280	10	10	10	8.2	8.2	8.3	25.7	25.5	24.1	6.4	4.9	6.9	32.6	33.6
50% A	200/200	10	10	10	8.2	8.2	8.4	25.5	25.1	24.7	6.4	5.0	6.9	32.4	32.1
50% B	200/200	10	10	10	8.2	8.2	8.4	25.5	25.4	24.6	6.4	3.9	6.9	32.4	32.4
100% A	400/0	2	2	1	8.2	8.2	8.3	25.5	24.9	25.1	6.5	4.3	6.9	31.8	32.6
100% B	400/0	4	3	3	8.1	8.2	8.4	25.6	25.3	24.9	6.5	4.3	6.8	31.8	32.7

Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

Continued

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661714

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.37	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	11.800	1.450

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	159	161

Salinity [D]	ppt
Mysid control:	20
100% sample:	<1

[A] Organisms fed daily.

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 25.0-27.0°C.

Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to decrease the initial D.O. from 10.4 mg/L to 8.0 mg/L.

[D] Salinity based on conductivity and temperature.
Sample was salted to 20ppt using 40 fathoms artificial sea salts.

[E] See sample #1 for Salt Control data.

Table 3. Concluded

Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #3), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #3**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/24/2003 Time: 0300	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1430	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_04		**Page 2 of 2**	**Reviewer:**	Rob Buda

Organism: ***Menidia beryllina*** Life stage: 11-12 days [A]Feeding: artemia

Chamber size: 1L Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
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	0/400	10	10	10	8.2	8.3	8.3	24.9	24.4	25.1	7.0	6.1	6.5	35.0	36.0
Control B	0/400	10	10	10	8.2	8.3	8.3	24.9	24.4	24.2	6.9	6.2	6.6	35.1	36.5
6.25% A	25/375	10	10	10	8.2	8.3	8.3	24.8	24.0	24.7	7.3	6.3	6.6	35.2	35.6
6.25% B	25/375	10	10	10	8.2	8.3	8.3	25.0	24.0	25.0	7.2	6.4	6.6	35.2	36.3
12.5% A	50/350	10	9	8	8.2	8.3	8.3	24.9	24.1	25.8	7.1	6.4	6.6	34.9	36.7
12.5% B	50/350	10	10	10	8.3	8.3	8.3	25.0	23.9	25.2	7.2	6.4	6.6	34.8	36.3
30% A	120/280	10	9	8	8.2	8.3	8.3	25.0	24.3	24.8	7.4	6.3	6.4	34.0	34.5
30% B	120/280	10	9	8	8.3	8.3	8.3	25.0	24.0	24.6	7.1	6.2	6.4	34.3	34.4
50% A	200/200	10	10	3	8.3	8.3	8.3	25.0	24.0	26.5	7.2	6.1	6.3	33.2	35.1
50% B	200/200	10	10	10	8.3	8.3	8.3	25.0	23.9	25.4	7.1	6.1	6.1	33.6	34.4
100% A	400/0	10	7	0	8.3	8.3	8.3	24.9	24.4	27.0	7.2	6.0	5.6	31.0	32.5
100% B	400/0	10	6	0	8.3	8.3	8.3	24.9	24.1	26.3	7.4	5.9	5.4	30.9	32.1

Organism: ***Menidia beryllina*** (After Renewal)

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	48 hr	72 hr[F]	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/400	10	7	5	8.3	8.3	8.3	25.3	25.4	26.5	6.6	5.5	6.7	32.7	33.4
Control B	0/400	10	4	1	8.3	8.3	8.3	25.2	26.9	27.0	6.7	5.9	6.6	33.1	33.5
6.25% A	25/375	10	6	2	8.3	8.3	8.3	25.3	24.6	27.8	6.8	6.3	6.3	32.6	34.7
6.25% B	25/375	10	6	2	8.3	8.3	8.3	25.4	25.5	26.9	6.8	6.4	6.3	32.8	33.8
12.5% A	50/350	8	4	2	8.3	8.3	8.3	25.5	25.1	26.5	6.8	6.5	6.2	32.5	33.7
12.5% B	50/350	10	5	2	8.3	8.3	8.3	25.6	25.0	26.7	6.9	6.5	6.2	32.5	33.4
30% A	120/280	8	2	0	8.3	8.3	8.3	25.4	24.8	27.0	6.8	6.6	6.1	32.5	33.3
30% B	120/280	8	6	2	8.3	8.3	8.3	25.4	25.1	26.5	6.8	6.4	6.1	32.2	33.4
50% A	200/200	3	3	1	8.2	8.3	8.3	25.6	24.6	26.3	6.9	6.4	6.1	32.5	33.0
50% B	200/200	10	2	1	8.2	8.3	8.3	25.5	25.0	26.1	6.8	6.5	6.0	32.4	32.8
100% A	400/0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100% B	400/0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

[F] Control Failure at 72 hours.

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661714

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.37	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	11.800	1.450

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	159	161

Salinity [D]	ppt
Mysid control:	20
100% sample:	<1

[A] Organisms fed daily.

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 25.0-27.0°C.
Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to decrease the initial D.O. from 10.4 mg/L to 8.0 mg/L.

[D] Salinity based on conductivity and temperature. Sample was salted to 20ppt using 40 fathoms artificial sea salts.

[E] See sample #1 for Salt Control data.

Table 4. Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #4), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #4**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/24/2003 Time: 0800	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1445	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_03		**Page 1 of 2**	**Reviewer:**	Rob Buda

Organism: ***Americamysis bahia*** Life stage: 3-5 days [A]Feeding: artemia
Chamber size: 1L Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
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	0/400	10	10	10	8.3	8.2	8.0	24.8	24.2	26.5	7.5	4.9	4.1	34.2	34.0
Control B	0/400	10	10	10	8.3	8.2	8.0	24.9	24.3	26.2	7.2	5.0	3.6	35.1	36.2
6.25% A	25/375	10	10	10	8.3	8.2	8.1	24.9	24.4	25.7	7.4	4.9	4.3	35.2	35.9
6.25% B	25/375	10	10	8	8.3	8.2	8.1	24.9	24.2	25.6	7.2	4.8	5.0	35.2	34.7
12.5% A	50/350	10	10	10	8.3	8.2	8.0	25.0	25.1	25.0	7.3	4.9	5.0	35.0	33.5
12.5% B	50/350	10	10	10	8.3	8.2	8.0	24.9	24.8	24.8	7.3	4.7	4.2	35.0	35.9
30% A	120/280	10	10	10	8.3	8.2	8.1	25.0	24.7	24.4	7.2	5.0	3.9	34.1	36.0
30% B	120/280	10	10	10	8.3	8.2	8.1	25.0	24.7	24.6	7.2	5.0	3.9	34.2	34.5
50% A	200/200	10	10	10	8.3	8.2	8.2	25.0	24.3	24.4	7.4	4.7	4.1	33.3	33.6
50% B	200/200	10	10	10	8.3	8.2	8.1	25.0	24.4	24.3	7.4	4.8	4.5	33.1	33.2
100% A	400/0	10	9	7	8.3	8.2	8.2	25.0	24.7	24.1	7.2	4.7	4.7	30.9	30.7
100% B	400/0	10	5	5	8.3	8.2	8.2	25.0	24.5	24.2	7.3	4.6	4.9	30.3	30.8

Organism: ***Americamysis bahia*** (After Renewal)

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	48 hr	72 hr	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/400	10	10	10	8.3	8.2	8.1	25.6	24.0	24.4	5.8	4.6	4.1	30.7	32.0
Control B	0/400	10	10	10	8.3	8.2	8.2	25.5	24.0	24.2	6.3	5.1	4.0	32.3	32.5
6.25% A	25/375	10	10	10	8.3	8.3	8.2	25.3	23.8	24.2	6.5	5.7	5.0	32.5	32.3
6.25% B	25/375	8	8	8	8.3	8.2	8.2	25.4	23.7	24.3	6.6	5.7	5.1	32.4	31.9
12.5% A	50/350	10	10	10	8.3	8.2	8.1	25.2	23.7	24.5	6.7	5.7	4.7	32.4	32.0
12.5% B	50/350	10	10	10	8.3	8.2	8.1	25.2	23.8	24.6	6.7	5.6	4.4	32.6	32.6
30% A	120/280	10	10	10	8.3	8.2	8.1	25.2	23.6	24.5	6.6	5.2	4.0	32.6	32.2
30% B	120/280	10	10	10	8.3	8.2	8.1	25.2	24.0	24.3	6.5	5.2	4.2	32.2	32.1
50% A	200/200	10	10	10	8.2	8.2	8.2	25.2	23.7	24.6	6.5	5.2	4.3	32.1	32.1
50% B	200/200	10	10	10	8.2	8.2	8.2	25.2	23.8	24.7	6.6	5.2	4.4	32.0	32.1
100% A	400/0	7	5	2	8.2	8.2	8.2	25.1	23.8	24.9	6.7	5.1	4.3	31.4	31.2
100% B	400/0	5	5	4	8.2	8.2	8.2	25.1	23.8	24.8	6.7	4.9	4.3	31.4	31.8

Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

Continued

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661715

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.22	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	10.600	1.310

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	159	159

Salinity [D]	ppt
Mysid control:	20
100% sample:	<1

[A] Organisms fed daily.

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

Room Temperature range for the test period was 25.0-27.0°C.

Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to decrease the initial D.O. from 10.4 mg/L to 7.2 mg/L.

[D] Salinity based on conductivity and temperature.

Sample was salted to 20ppt using 40 fathoms artificial sea salts.

[E] See sample #1 for Salt Control data.

Table 4. Concluded

Data recorded during the 96-hour acute bioassays of a sample of effluent from South Central Regional Wastewater Treatment and Disposal Board (Sample #4), 1801 N. Congress Avenue, Delray Beach, Broward County, Florida, NPDES# FL0035980, performed from 25 to 29 March 2003.

Facility:	**South Central Regional WWTP, Sample #4**	**NPDES#:**	**FL0035980**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	1801 N. Congress Ave., Delray Beach	Contact/District:	Philoctete/SE				Joshua Ayres
County:	Broward	Test type:	acute definitive renewal				James Daniels
Sample Collection Date:	3/24/2003 Time: 0800	# tests:	8	Receiving Water:	Atlantic Ocean		Travis Hill
Test Beginning Date:	3/25/2003 Time: 1445	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	3/29/2003 Time: 1100	FDEP SOP#:	TA07_04		**Page 2 of 2**	**Reviewer:**	Rob Buda

Organism: ***Menidia beryllina*** Life stage: 11-12 days [A]Feeding: artemia
Chamber size: 1L Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
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	0/400	10	10	10	8.3	8.3	8.2	24.8	24.3	25.0	7.4	6.3	5.1	35.2	36.1
Control B	0/400	10	10	10	8.3	8.3	8.2	24.9	24.7	24.6	7.3	6.4	5.0	35.4	36.1
6.25% A	25/375	10	10	9	8.3	8.3	8.2	24.9	24.2	25.2	7.1	6.3	4.9	35.1	35.8
6.25% B	25/375	10	10	10	8.3	8.3	8.2	24.9	24.4	24.1	7.1	6.4	5.1	35.2	35.5
12.5% A	50/350	10	10	10	8.3	8.3	8.2	25.0	24.3	24.5	7.0	6.3	5.1	35.1	34.8
12.5% B	50/350	10	10	10	8.3	8.3	8.2	25.1	24.2	24.2	7.1	6.2	4.9	35.1	36.6
30% A	120/280	10	10	10	8.3	8.3	8.2	25.0	24.3	25.2	7.1	6.1	4.8	35.1	35.9
30% B	120/280	10	10	10	8.3	8.3	8.2	24.9	24.6	25.1	7.2	6.1	4.8	34.2	34.4
50% A	200/200	10	10	10	8.3	8.3	8.3	24.9	24.2	25.2	7.3	5.7	5.0	33.0	33.4
50% B	200/200	10	10	10	8.3	8.3	8.2	24.9	24.2	25.0	7.3	5.7	5.0	33.2	33.3
100% A	400/0	10	9	8	8.3	8.3	8.3	24.9	24.3	24.8	7.2	5.9	5.0	30.1	31.0
100% B	400/0	10	9	0	8.3	8.3	8.3	25.0	24.4	24.7	7.2	5.7	4.9	30.4	30.6

Organism: ***Menidia beryllina*** (After Renewal)

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[B]			Dissolved Oxygen[C]			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	48 hr	72 hr	96 hr	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	72 hour	96 hour	48 hour	96 hour
Control A	0/400	10	10	10	8.3	8.2	8.2	25.2	24.4	24.7	7.0	5.6	5.5	32.7	32.2
Control B	0/400	10	10	10	8.3	8.2	8.3	25.1	24.8	25.1	6.8	5.6	5.6	32.8	32.7
6.25% A	25/375	9	9	9	8.3	8.3	8.3	25.2	24.8	25.4	6.7	5.3	5.8	32.7	33.0
6.25% B	25/375	10	10	10	8.3	8.3	8.3	25.0	24.7	25.2	6.7	5.4	6.0	32.8	32.9
12.5% A	50/350	10	10	10	8.3	8.3	8.2	24.9	24.6	25.3	6.7	5.6	5.9	32.6	32.6
12.5% B	50/350	10	10	10	8.3	8.3	8.2	24.9	24.6	25.1	6.7	5.5	5.8	31.9	32.5
30% A	120/280	10	10	10	8.3	8.3	8.3	25.0	24.6	25.1	6.8	5.5	5.7	32.1	32.5
30% B	120/280	10	10	10	8.3	8.3	8.3	25.1	24.5	25.3	7.0	5.6	5.7	32.3	33.2
50% A	200/200	10	10	10	8.3	8.3	8.3	25.1	24.5	24.9	6.9	5.7	6.0	31.9	32.3
50% B	200/200	10	10	10	8.2	8.3	8.3	25.0	24.8	25.1	7.0	5.6	6.0	31.4	32.3
100% A	400/0	1	1	1	8.2	8.3	8.3	25.0	24.7	25.1	7.1	5.5	5.9	30.8	32.3
100% B	400/0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Light Intensity during the test was 50-100 foot candles.
Photoperiod during the test was 16 hours of light : 8 hours of dark.

LIMS	
Job number:	TLH-2003-03-25-02
sample number:	661715

Data Transcription Verification	
date:	5/19/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.22	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	10.600	1.310

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	245	-
100% Sample:	159	159

Salinity [D]	ppt
Mysid control:	20
100% sample:	<1

[A] Organisms fed daily.

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 25.0-27.0°C.
Incubator #3 temperature range for the test period was 24.5-25.5°C.

[C] Sample was aerated to decrease the initial D.O. from 10.4 mg/L to 7.2 mg/L.

[D] Salinity based on conductivity and temperature.
Sample was salted to 20ppt using 40 fathoms artificial sea salts.

[E] See sample #1 for Salt Control data.

Table 5. Results of chemical analyses on the effluent from South Central Regional WWTP sampled on March 23, 2003.

Metals			
Aluminum	68	ug/L	
Cadmium	0.043	ug/L	I
Calcium	56.1	mg/L	
Copper	6.6	ug/L	I
Iron	91	ug/L	I
Lead	0.9	ug/L	
Magnesium	4.4	mg/L	
Silver	0.3	ug/L	
Zinc	53	ug/L	I
Pesticides and Herbicides			
Atrazine	0.28	ug/L	
Nutrients			
Ammonia-N	12	mg N/L	
Nitrates and Nitrites	4.1	mg N/L	
Total Kjeldahl Nitrogen	15	mg N/L	
Ortho-Phosphates	0.94	mg P/L	Q
Total Phosphorous	1.4	mg P/L	
Base, Neutral, & Acid Extractable Organics			
Diethyl phthalate	2.1	ug/L	I

Q The sample was held beyond normal holding time.
I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 6. Chemical Analyses performed on the effluent from South Central Regional WWTP, sampled on March 23, 2003.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
3/23/2003 9:00	51-SC-1A	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	1,2,4-Trichlorobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	1,2-Dichlorobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	1,3,5-Trinitrobenzene	4	ug/L	U	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	1,3-Dichlorobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	1,3-Dinitrobenzene	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	1,4-Dichlorobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	1,4-Naphthoquinone	20	ug/L	UJ	20	79
3/23/2003 9:00	51-SC-1A	BNA-Water	1-Naphthylamine	9.9	ug/L	U	9.9	40
3/23/2003 9:00	51-SC-1A	BNA-Water	2,3,4,6-Tetrachlorophenol	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	2,4,5-Trichlorophenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2,4,6-Trichlorophenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2,4-Dichlorophenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2,4-Dimethylphenol	50	ug/L	U	50	200
3/23/2003 9:00	51-SC-1A	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
3/23/2003 9:00	51-SC-1A	BNA-Water	2,4-Dinitrotoluene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2,6-Dichlorophenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2,6-Dinitrotoluene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Acetylaminofluorene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Chloronaphthalene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Chlorophenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Methyl-4,6-dinitrophenol	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Methylnaphthalene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Naphthylamine	9.9	ug/L	U	9.9	40
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Nitroaniline	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Nitrophenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	2-Picoline	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	3,3'-Dichlorobenzidine	40	ug/L	U	40	160
3/23/2003 9:00	51-SC-1A	BNA-Water	3,3'-Dimethylbenzidine	20	ug/L	U	20	79
3/23/2003 9:00	51-SC-1A	BNA-Water	3-Methylcholanthrene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	3-Nitroaniline	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9

3/23/2003 9:00	51-SC-1A	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	4-Aminobiphenyl	4	ug/L	U	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	4-Bromophenyl phenyl ether	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	4-Chloro-3-methylphenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	4-Chloroaniline	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	4-Nitroaniline	0.99	ug/L	UJ	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
3/23/2003 9:00	51-SC-1A	BNA-Water	5-Nitro-o-toluidine	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Acenaphthene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Acenaphthylene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Acetophenone	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Aniline	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Anthracene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Benzidine	99	ug/L	U	99	400
3/23/2003 9:00	51-SC-1A	BNA-Water	Benzo(a)anthracene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Benzo(a)pyrene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Benzo(b)fluoranthene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Benzo(g,h,i)perylene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Benzo(k)fluoranthene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Benzyl alcohol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Bis(2-chloroethoxy)methane	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Bis(2-chloroethyl)ether	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Bis(2-chloroisopropyl)ether	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59
3/23/2003 9:00	51-SC-1A	BNA-Water	Butyl benzyl phthalate	5	ug/L	U	5	20
3/23/2003 9:00	51-SC-1A	BNA-Water	Chrysene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Di-n-butyl phthalate	5	ug/L	U	5	20
3/23/2003 9:00	51-SC-1A	BNA-Water	Di-n-octyl phthalate	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Dibenzo(a,h)anthracene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Dibenzofuran	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Diethyl phthalate	2.1	ug/L	I	0.99	4

3/23/2003 9:00	51-SC-1A	BNA-Water	Dimethyl phthalate	50	ug/L	U	50	200
3/23/2003 9:00	51-SC-1A	BNA-Water	Dimethylaminoazobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Dinoseb	4	ug/L	U	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	Diphenylamine	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	Endosulfan I	4	ug/L	U	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	Endosulfan II	4	ug/L	U	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Endrin aldehyde	4	ug/L	U	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	Ethyl methanesulfonate	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Fluoranthene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Fluorene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Hexachlorobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Hexachlorobutadiene	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	Hexachlorocyclopentadiene	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	Hexachloroethane	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	Hexachloropropene	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Indeno(1,2,3-cd)pyrene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Isophorone	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Isosafrole	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Methapyrilene	4	ug/L	UJ	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	Methyl methanesulfonate	0.99	ug/L	UJ	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosodi-n-butylamine	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosodiethylamine	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosodiphenylamine	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosomethylethylamine	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosomorpholine	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosopiperidine	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	N-Nitrosopyrrolidine	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Naphthalene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	Nitroquinoline-1-oxide	20	ug/L	UJ	20	79
3/23/2003 9:00	51-SC-1A	BNA-Water	Pentachlorobenzene	0.99	ug/L	U	0.99	4

3/23/2003 9:00	51-SC-1A	BNA-Water	Pentachloroethane	50	ug/L	U	50	200
3/23/2003 9:00	51-SC-1A	BNA-Water	Pentachloronitrobenzene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Pentachlorophenol	3	ug/L	U	3	12
3/23/2003 9:00	51-SC-1A	BNA-Water	Phenacetin	4	ug/L	U	4	12
3/23/2003 9:00	51-SC-1A	BNA-Water	Phenanthrene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Phenol	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Pyrene	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	Pyridine	4	ug/L	U	4	16
3/23/2003 9:00	51-SC-1A	BNA-Water	Safrole	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
3/23/2003 9:00	51-SC-1A	BNA-Water	m,p-Cresols	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	o-Cresol	2	ug/L	U	2	7.9
3/23/2003 9:00	51-SC-1A	BNA-Water	o-Toluidine	0.99	ug/L	U	0.99	4
3/23/2003 9:00	51-SC-1A	Bio-AGP/LimNut	Algal Growth Potential	324	ıg DryWt/	A	0.1	0.3
3/23/2003 9:00	51-SC-1A	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	UQ	0.85	2.6
3/23/2003 9:00	51-SC-1A	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	UQ	0.85	2.6
3/23/2003 9:00	51-SC-1A	GC-Water	Alachlor	0.59	ug/L	U	0.59	2.36
3/23/2003 9:00	51-SC-1A	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
3/23/2003 9:00	51-SC-1A	GC-Water	Atrazine	0.28	ug/L		0.049	0.196
3/23/2003 9:00	51-SC-1A	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.196
3/23/2003 9:00	51-SC-1A	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
3/23/2003 9:00	51-SC-1A	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
3/23/2003 9:00	51-SC-1A	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
3/23/2003 9:00	51-SC-1A	GC-Water	Chlorpyrifos Methyl	0.12	ug/L	U	0.098	0.392
3/23/2003 9:00	51-SC-1A	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.196
3/23/2003 9:00	51-SC-1A	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
3/23/2003 9:00	51-SC-1A	GC-Water	Ethoprop	0.098	ug/L	U	0.098	0.392
3/23/2003 9:00	51-SC-1A	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
3/23/2003 9:00	51-SC-1A	GC-Water	Fonofos	0.098	ug/L	U	0.098	0.392
3/23/2003 9:00	51-SC-1A	GC-Water	Hexazinone	0.098	ug/L	U	0.098	0.392
3/23/2003 9:00	51-SC-1A	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
3/23/2003 9:00	51-SC-1A	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
3/23/2003 9:00	51-SC-1A	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96
3/23/2003 9:00	51-SC-1A	GC-Water	Metribuzin	0.098	ug/L	U	0.098	0.392

3/23/2003 9:00	51-SC-1A	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
3/23/2003 9:00	51-SC-1A	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.12
3/23/2003 9:00	51-SC-1A	GC-Water	Norflurazon	0.098	ug/L	U	0.098	0.392
3/23/2003 9:00	51-SC-1A	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
3/23/2003 9:00	51-SC-1A	GC-Water	Parathion Methyl	0.098	ug/L	U	0.098	0.392
3/23/2003 9:00	51-SC-1A	GC-Water	Phorate	0.049	ug/L	U	0.049	0.196
3/23/2003 9:00	51-SC-1A	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
3/23/2003 9:00	51-SC-1A	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
3/23/2003 9:00	51-SC-1A	Metals-Water	Aluminum	68	ug/L		10	40
3/23/2003 9:00	51-SC-1A	Metals-Water	Arsenic	5	ug/L	U	5	20
3/23/2003 9:00	51-SC-1A	Metals-Water	Cadmium	0.043	ug/L	I	0.025	0.1
3/23/2003 9:00	51-SC-1A	Metals-Water	Calcium	56.1	mg/L		0.05	0.2
3/23/2003 9:00	51-SC-1A	Metals-Water	Chromium	8.8	ug/L	U	2	8
3/23/2003 9:00	51-SC-1A	Metals-Water	Copper	6.6	ug/L	I	0.75	3
3/23/2003 9:00	51-SC-1A	Metals-Water	Iron	91	ug/L	I	7	28
3/23/2003 9:00	51-SC-1A	Metals-Water	Lead	0.9	ug/L		0.1	0.4
3/23/2003 9:00	51-SC-1A	Metals-Water	Magnesium	4.4	mg/L		0.01	0.04
3/23/2003 9:00	51-SC-1A	Metals-Water	Nickel	2	ug/L	U	2	8
3/23/2003 9:00	51-SC-1A	Metals-Water	Selenium	1	ug/L	U	1	4
3/23/2003 9:00	51-SC-1A	Metals-Water	Silver	0.3	ug/L		0.02	0.08
3/23/2003 9:00	51-SC-1A	Metals-Water	Zinc	53	ug/L	I	4	16
3/23/2003 9:00	51-SC-1A	Nutrients-Liquid	Ammonia-N	12	mg N/L		0.4	0.8
3/23/2003 9:00	51-SC-1A	Nutrients-Liquid	NO2NO3-N	4.1	mg N/L		0.04	0.1
3/23/2003 9:00	51-SC-1A	Nutrients-Liquid	N_KJEL_TOT	15	mg N/L		0.3	1
3/23/2003 9:00	51-SC-1A	Nutrients-Liquid	O-Phosphate-P	0.94	mg P/L	Q	0.032	0.08
3/23/2003 9:00	51-SC-1A	Nutrients-Liquid	Total-P	1.4	mg P/L		0.25	0.8
3/24/2003 10:00	51-SC-2	BNA-Water	1,2,4,5-Tetrachlorobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	1,2,4-Trichlorobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	1,2-Dichlorobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	1,3,5-Trinitrobenzene	4.1	ug/L	U	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	1,3-Dichlorobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	1,3-Dinitrobenzene	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	1,4-Dichlorobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	1,4-Naphthoquinone	20	ug/L	UJ	20	82
3/24/2003 10:00	51-SC-2	BNA-Water	1-Naphthylamine	10	ug/L	U	10	41
3/24/2003 10:00	51-SC-2	BNA-Water	2,3,4,6-Tetrachlorophenol	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	2,4,5-Trichlorophenol	1	ug/L	U	1	4.1

3/24/2003 10:00	51-SC-2	BNA-Water	2,4,6-Trichlorophenol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2,4-Dichlorophenol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2,4-Dimethylphenol	51	ug/L	U	51	200
3/24/2003 10:00	51-SC-2	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	61
3/24/2003 10:00	51-SC-2	BNA-Water	2,4-Dinitrotoluene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2,6-Dichlorophenol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2,6-Dinitrotoluene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2-Acetylaminofluorene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2-Chloronaphthalene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2-Chlorophenol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2-Methyl-4,6-dinitrophenol	3.1	ug/L	U	3.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	2-Methylnaphthalene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2-Naphthylamine	10	ug/L	U	10	41
3/24/2003 10:00	51-SC-2	BNA-Water	2-Nitroaniline	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2-Nitrophenol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	2-Picoline	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	3,3'-Dichlorobenzidine	41	ug/L	U	41	160
3/24/2003 10:00	51-SC-2	BNA-Water	3,3'-Dimethylbenzidine	20	ug/L	U	20	82
3/24/2003 10:00	51-SC-2	BNA-Water	3-Methylcholanthrene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	3-Nitroaniline	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	4-Aminobiphenyl	4.1	ug/L	U	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	4-Bromophenyl phenyl ether	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	4-Chloro-3-methylphenol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	4-Chloroaniline	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	4-Nitroaniline	1	ug/L	UJ	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	4-Nitrophenol	15	ug/L	U	15	61
3/24/2003 10:00	51-SC-2	BNA-Water	5-Nitro-o-toluidine	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	7,12-Dimethylbenz(a)anthracene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Acenaphthene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Acenaphthylene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Acetophenone	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Aldrin	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	Aniline	1	ug/L	U	1	4.1

3/24/2003 10:00	51-SC-2	BNA-Water	Anthracene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Benzidine	100	ug/L	U	100	410
3/24/2003 10:00	51-SC-2	BNA-Water	Benzo(a)anthracene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Benzo(a)pyrene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Benzo(b)fluoranthene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Benzo(g,h,i)perylene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Benzo(k)fluoranthene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Benzyl alcohol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Bis(2-chloroethoxy)methane	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Bis(2-chloroethyl)ether	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Bis(2-chloroisopropyl)ether	3.1	ug/L	U	3.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	61
3/24/2003 10:00	51-SC-2	BNA-Water	Butyl benzyl phthalate	5.1	ug/L	U	5.1	20
3/24/2003 10:00	51-SC-2	BNA-Water	Chrysene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Di-n-butyl phthalate	5.1	ug/L	U	5.1	20
3/24/2003 10:00	51-SC-2	BNA-Water	Di-n-octyl phthalate	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Dibenzo(a,h)anthracene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Dibenzofuran	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	Diethyl phthalate	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Dimethyl phthalate	51	ug/L	U	51	200
3/24/2003 10:00	51-SC-2	BNA-Water	Dimethylaminoazobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Dinoseb	4.1	ug/L	U	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	Diphenylamine	3.1	ug/L	U	3.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	Endosulfan I	4.1	ug/L	U	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	Endosulfan II	4.1	ug/L	U	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	Endrin aldehyde	4.1	ug/L	U	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	Ethyl methanesulfonate	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Fluoranthene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Fluorene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	Hexachlorobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Hexachlorobutadiene	3.1	ug/L	U	3.1	12

3/24/2003 10:00	51-SC-2	BNA-Water	Hexachlorocyclopentadiene	3.1	ug/L	U	3.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	Hexachloroethane	3.1	ug/L	U	3.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	Hexachloropropene	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	Indeno(1,2,3-cd)pyrene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Isophorone	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Isosafrole	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Methapyrilene	4.1	ug/L	UJ	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	Methyl methanesulfonate	1	ug/L	UJ	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosodi-n-butylamine	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosodiethylamine	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosodiphenylamine	3.1	ug/L	U	3.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosomethylethylamine	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosomorpholine	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosopiperidine	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	N-Nitrosopyrrolidine	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	Naphthalene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Nitrobenzene	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	Nitroquinoline-1-oxide	20	ug/L	UJ	20	82
3/24/2003 10:00	51-SC-2	BNA-Water	Pentachlorobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Pentachloroethane	51	ug/L	U	51	200
3/24/2003 10:00	51-SC-2	BNA-Water	Pentachloronitrobenzene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Pentachlorophenol	3.1	ug/L	U	3.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	Phenacetin	4.1	ug/L	U	4.1	12
3/24/2003 10:00	51-SC-2	BNA-Water	Phenanthrene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Phenol	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Pyrene	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	Pyridine	4.1	ug/L	U	4.1	16
3/24/2003 10:00	51-SC-2	BNA-Water	Safrole	1	ug/L	U	1	4.1
3/24/2003 10:00	51-SC-2	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	6.1
3/24/2003 10:00	51-SC-2	BNA-Water	m,p-Cresols	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	o-Cresol	2	ug/L	U	2	8.2
3/24/2003 10:00	51-SC-2	BNA-Water	o-Toluidine	1	ug/L	U	1	4.1

3/24/2003 10:00	51-SC-2	GC-Water	Alachlor	0.59	ug/L	U	0.59	2.36
3/24/2003 10:00	51-SC-2	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
3/24/2003 10:00	51-SC-2	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
3/24/2003 10:00	51-SC-2	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	GC-Water	Chlorpyrifos Methyl	0.098	ug/L	U	0.098	0.392
3/24/2003 10:00	51-SC-2	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	GC-Water	Ethoprop	0.098	ug/L	U	0.098	0.392
3/24/2003 10:00	51-SC-2	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
3/24/2003 10:00	51-SC-2	GC-Water	Fonofos	0.098	ug/L	U	0.098	0.392
3/24/2003 10:00	51-SC-2	GC-Water	Hexazinone	0.098	ug/L	U	0.098	0.392
3/24/2003 10:00	51-SC-2	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
3/24/2003 10:00	51-SC-2	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
3/24/2003 10:00	51-SC-2	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96
3/24/2003 10:00	51-SC-2	GC-Water	Metribuzin	0.098	ug/L	U	0.098	0.392
3/24/2003 10:00	51-SC-2	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
3/24/2003 10:00	51-SC-2	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.12
3/24/2003 10:00	51-SC-2	GC-Water	Norflurazon	0.098	ug/L	U	0.098	0.392
3/24/2003 10:00	51-SC-2	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
3/24/2003 10:00	51-SC-2	GC-Water	Parathion Methyl	0.098	ug/L	U	0.098	0.392
3/24/2003 10:00	51-SC-2	GC-Water	Phorate	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
3/24/2003 10:00	51-SC-2	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
3/24/2003 10:00	51-SC-2	Metals-Water	Aluminum	10	ug/L	U	10	40
3/24/2003 10:00	51-SC-2	Metals-Water	Arsenic	5	ug/L	U	5	20
3/24/2003 10:00	51-SC-2	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
3/24/2003 10:00	51-SC-2	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
3/24/2003 10:00	51-SC-2	Metals-Water	Chromium	2	ug/L	U	2	8
3/24/2003 10:00	51-SC-2	Metals-Water	Copper	2.2	ug/L	U	0.75	3
3/24/2003 10:00	51-SC-2	Metals-Water	Iron	7	ug/L	U	7	28
3/24/2003 10:00	51-SC-2	Metals-Water	Lead	0.1	ug/L	U	0.1	0.4
3/24/2003 10:00	51-SC-2	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
3/24/2003 10:00	51-SC-2	Metals-Water	Nickel	2	ug/L	U	2	8
3/24/2003 10:00	51-SC-2	Metals-Water	Selenium	1	ug/L	U	1	4

3/24/2003 10:00	51-SC-2	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
3/24/2003 10:00	51-SC-2	Metals-Water	Zinc	15	ug/L	U	4	16
3/24/2003 10:00	51-SC-2	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
3/24/2003 10:00	51-SC-2	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
3/24/2003 10:00	51-SC-2	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
3/24/2003 10:00	51-SC-2	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
3/24/2003 10:00	51-SC-2	Nutrients-Liquid	Total-P	0.025	mg P/L	U	0.025	0.08

The Bioassay of South Central Regional WWTP effluent sampled on March 23, 2003, NPDES #FL0035980.

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

Transaction Code		NPDES NUMBER										YR/MO/DA						Insp Type	Inspector	Fac Type
1	N	2	5	3	F	L	0	0	3	5	9	8	0	#	#	0	3	0	3	2	3	# **B**	# **S**	# 1

Remarks

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The Priority Pollutants Analysis for Bioassay of South Central Regional WWTP effluent sampled on March 23, 2003, NPDES #FL0035980.

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

Transaction Code		NPDES NUMBER										YR/MO/DA						Insp Type	Inspector	Fac Type
1	N	2	5	3	F	L	0	0	3	5	9	8	0	#	#	0	3	0	3	2	3	# **B**	# **S**	# 1

Remarks

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