

Bioassays of

Beverly Beach Wastewater Treatment Facility

Beverly Beach, Flagler County, Florida

NPDES #FL0039756

Sampled 10/21/02

April 2003

Biology Section

Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

Bioassays of

Beverly Beach Wastewater Treatment Facility

Beverly Beach, Flagler County, Florida

NPDES #FL0039756

Biology Section
Bureau of Laboratories
April 2003

Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Highway A1A, Beverly Beach, Flagler County, Florida, NPDES #FL0039756, tests performed on 22 to 26 October 2002.

Introduction

The permitted capacity of this wastewater treatment facility is 0.215 MGD annual average daily flow (AADF), and it has an annual average flow of 0.036 MGD (June-August 2002). The facility consists of three plants. Plant Number One consists of a 0.030 MGD (AADF) design capacity extended-aeration activated-sludge domestic wastewater treatment plant, which includes influent screening, aeration and secondary clarification. Plant Number Two is a 0.035 MGD (AADF) design capacity extended-aeration activated-sludge plant. Plant Number Three is a 0.150 MGD (AADF) design capacity contact stabilization plant. The final treated effluent from all three plants is combined and sent through filtration, chlorination, and dechlorination, and thereafter gravity fed to the Class III marine waters of the Intracoastal Waterway, approximately one mile north of the intersection of SR100 and A1A. The Beverly Beach outfall line is approximately 15 feet in length, and discharges at a depth of approximately 2.5 feet (facility information provided by Jessica Weatherby, FDEP, Jacksonville).

Methods

Per the NPDES permit for this facility, four separate grab samples were collected at evenly spaced (6-hour) intervals over a 24-hour period. Samples were collected by Patrick O'Connor following DEP-SOP-001/01 FS 2400 Wastewater Sampling. 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 static renewal– Control Failure
Menidia beryllina 96-hr acute definitive static renewal– Not Toxic

Sample 2
Americamysis bahia 96-hr acute definitive static renewal– Control Failure
Menidia beryllina 96-hr acute definitive static renewal– Not Toxic

Sample 3
Americamysis bahia 96-hr acute definitive static renewal– Control Failure
Menidia beryllina 96-hr acute definitive static renewal– Not Toxic

Sample 4
Americamysis bahia 96-hr acute definitive static renewal– Control Failure
Menidia beryllina 96-hr acute definitive static renewal– Not Toxic

See Tables 1 through 4 for bioassay bench sheets.

Chemistry Results

Total residual chlorine was not detected in the bioassay samples in the laboratory. Total ammonia was detected in samples 1, 2, and 4 at concentrations of 0.148, 0.120, and 0.605 mg/L, respectively, with unionized ammonia detected at 0.011, 0.010, and 0.045 mg/L, respectively.

See Table 5 for chemicals detected in the analytical chemistry samples for sample #4.

See Table 6 for all the results of all the chemical analyses performed for sample #4.

Conclusion

The samples of effluent collected from this facility on October 21, 2002, did not show acute toxicity to *Menidia beryllina* during the 96-hour bioassay tests. The four *Americamysis bahia* tests were all invalidated due to control failures. The Biology Section will re-test this facility if the district wishes to re-sample.

Table 1. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 1, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 1**		**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach		Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler		Test type:	acute definitive static renewal				James Daniels
Sample Collection Date:	10/20/2002	Time: 1840	# tests:	8	Receiving Water:	Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002	Time: 1900	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	10/23/2002	Time: 1000				**Page 1 of 3**	**Reviewer:**	David Whiting

Organism: ***Americamysis bahia*** Life stage: 3 days

		SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			Conductivity Uncorrected mmhos/cm	
	Sample/Diluent														
Concentrations	Volume(mL)	0 hr	24 hr[C]	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour
Control A	0/500	5	4	-	8.1	8.1	-	23.8	23.4	-	6.9	6.6	-	10.1	10.2
Control B	0/500	5	4	-	8.1	8.1	-	23.9	23.4	-	6.8	6.7	-	10.3	10.3
Control C	0/500	5	4	-	8.1	8.1	-	23.9	23.5	-	6.8	6.8	-	10.3	10.4
Control D	0/500	5	5	-	8.1	8.1	-	24.0	23.2	-	6.8	6.8	-	10.3	10.4
Salt Cont A	0/500	5	5	4	8.2	8.2	8.0	24.1	24.0	22.7	6.5	5.7	5.2	9.88	10.1
Salt Cont B	0/500	5	5	5	8.2	8.2	-	24	23.9	-	6.6	5.8	-	10.0	10.3
Salt Cont C	0/500	5	5	5	8.2	8.2	-	23.9	23.7	-	6.6	5.9	-	10.1	10.2
Salt Cont D	0/500	5	5	5	8.2	8.2	-	23.9	23.7	-	6.6	5.9	-	10.1	10.3
Salt Cont A2	0/500	5	5	5	8.2	8.3	8.1	23.8	23.9	22.7	6.6	6.2	5.5	10.2	10.3
Salt Cont B2	0/500	5	5	5	8.3	8.3	-	23.8	24.0	-	6.6	6.1	-	10.2	10.4
Salt Cont C2	0/500	5	5	5	8.3	8.3	-	23.8	23.8	-	6.6	6.3	-	10.1	10.3
Salt Cont D2	0/500	5	5	5	8.3	8.3	-	23.8	23.7	-	6.6	6.3	-	10.2	10.3
6.25% A	31.25/468.75	5	4	-	8.1	8.1	-	24.0	23.2	-	6.8	7.0	-	10.4	10.3
6.25% B	31.25/468.75	5	5	-	8.1	8.1	-	24.0	23.2	-	6.8	7.0	-	10.4	10.4
6.25% C	31.25/468.75	5	4	-	8.1	8.1	-	24.0	23.2	-	6.8	6.8	-	10.4	10.5
6.25% D	31.25/468.75	5	5	-	8.1	8.1	-	24.1	23.5	-	6.8	6.8	-	10.3	10.5
12.5% A	62.5/437.5	5	5	-	8.1	8.1	-	24.1	23.6	-	6.8	6.8	-	10.4	10.5
12.5% B	62.5/437.5	5	4	-	8.1	8.1	-	24.2	23.4	-	6.8	6.7	-	10.4	10.5
12.5% C	62.5/437.5	5	5	-	8.1	8.1	-	24.2	23.3	-	6.8	6.7	-	10.4	10.0
12.5%D	62.5/437.5	5	5	-	8.1	8.1	-	24.2	23.6	-	6.8	6.7	-	10.4	10.5
25% A	125/375	5	4	-	8.2	8.1	-	24.2	23.6	-	6.8	6.0	-	10.3	10.6
25% B	125/375	5	5	-	8.2	8.1	-	24.3	23.4	-	6.7	5.9	-	10.4	10.7
25% C	125/375	5	4	-	8.2	8.1	-	24.2	23.5	-	6.7	6.0	-	10.4	10.6
25% D	125/375	5	5	-	8.2	8.1	-	24.3	23.7	-	6.7	6.1	-	10.4	10.3
50% A	250/250	5	5	-	8.2	8.1	-	24.3	23.4	-	6.7	6.2	-	10.5	10.7
50% B	250/250	5	5	-	8.2	8.1	-	24.3	23.1	-	6.7	6.2	-	10.5	10.7
50% C	250/250	5	5	-	8.2	8.1	-	24.3	23.1	-	6.7	6.3	-	10.5	10.6
50% D	250/250	5	5	-	8.2	8.1	-	24.3	23.4	-	6.6	6.4	-	10.5	10.7
100% A	500/0	5	5	-	8.2	8.2	-	24.3	23.4	-	6.6	6.4	-	10.7	11.0
100% B	500/0	5	5	-	8.2	8.2	-	24.3	23.2	-	6.6	6.3	-	10.7	10.9
100% C	500/0	5	5	-	8.2	8.2	-	24.3	23.1	-	6.3	6.1	-	10.9	11.0
100% D	500/0	5	4	-	8.2	8.2	-	24.3	23.4	-	6.2	6.1	-	11.1	10.9

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630403

Data Transcription Verification	
date:	4/14/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.148	0.011

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	146	196

Salinity [B]	ppt
Menidia control:	6
100% sample:	<1
100% adjusted sample:	6

[B] Salinity based on conductivity and temperature.

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #1 temperature range for the test period was 24.5-25.5°C.

[C] Test terminated at 24 hours due to excessive control mortality.

Continued

Table 1. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 1, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 1**		**NPDES#:**	**FL0039756**	Facility Type: **WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach		Contact/District:	O'Connor/NE			Joshua Ayres
County:	Flagler		Test type:	acute definitive static renewal			James Daniels
Sample Collection Date:	10/20/2002	Time: 1840	# tests:	8	Receiving Water: Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002	Time: 1830	Chlorination Type:	dechlorinated	Class III Marine		Christa Pierini
Test Ending Date:	10/26/2002	Time: 1600			**Page 2 of 3**	**Reviewer:**	David Whiting

Organism: ***Menidia beryllina*** Life stage: 6 days

															Conductivity Uncorrected	
	Sample/Diluent	**SURVIVAL # Alive**			pH			Temperature[A]			Dissolved Oxygen				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	5	5	5	8.0	8.2	8.2	24.0	23.3	22.9	6.8	7.1	7.1		2.25	2.40
Control B	0/500	5	5	5	8.0	8.2	-	24.1	23.5	-	6.8	7.0	-		2.35	-
Control C	0/500	5	5	5	8.0	8.2	-	24.1	23.8	-	6.9	7.0	-		2.30	-
Control D	0/500	5	5	5	8.0	8.2	-	24.1	23.7	-	6.9	6.8	-		2.35	-
Salt Cont A	0/500	5	5	5	8.3	8.3	8.3	23.7	24.1	23.3	6.8	6.4	5.6		2.24	2.84
Salt Cont B	0/500	5	5	5	8.2	8.3	-	23.7	24	-	6.8	6.3	-		2.14	-
Salt Cont C	0/500	5	5	5	8.2	8.3	-	23.7	23.9	-	6.8	6.5	-		2.1	-
Salt Cont D	0/500	5	5	5	8.2	8.3	-	23.7	23.7	-	6.8	6.5	-		2.1	-
Salt Cont A2	0/500	5	5	5	8.2	8.2	8.2	23.7	23.7	23.0	6.8	6.7	5.7		2.09	2.14
Salt Cont B2	0/500	5	5	5	8.2	8.2	-	23.8	24.2	-	6.8	6.7	-		2.07	-
Salt Cont C2	0/500	5	5	5	8.2	8.2	-	23.8	24.1	-	6.8	6.6	-		2.07	-
Salt Cont D2	0/500	5	5	5	8.2	8.2	-	23.8	23.7	-	6.8	6.6	-		2.07	-
6.25% A	31.25/468.75	5	5	5	8.0	8.2	8.2	24.1	23.6	23.3	6.9	6.9	7.0		2.45	2.50
6.25% B	31.25/468.75	5	5	5	8.0	8.2	-	24.1	23.3	-	6.9	6.8	-		2.45	-
6.25% C	31.25/468.75	5	5	5	8.0	8.2	-	24.0	23.5	-	7.0	7.0	-		2.44	-
6.25% D	31.25/468.75	5	5	5	8.0	8.2	-	24.1	23.7	-	7.0	6.9	-		2.45	-
12.5% A	62.5/437.5	5	5	5	8.0	8.2	8.2	24.1	23.4	23.3	7.0	6.9	6.7		2.45	2.50
12.5% B	62.5/437.5	5	5	5	8.0	8.2	-	24.1	23.6	-	6.9	6.8	-		2.48	-
12.5% C	62.5/437.5	5	5	5	8.0	8.1	-	24.1	23.5	-	7.0	6.8	-		2.48	-
12.5%D	62.5/437.5	5	5	5	8.0	8.1	-	24.0	23.8	-	7.0	6.7	-		2.47	-
25% A	125/375	5	5	5	8.0	8.2	8.2	24.0	23.3	23.3	7.0	6.6	6.9		2.51	2.55
25% B	125/375	5	5	5	8.0	8.2	-	24.0	23.6	-	7.0	6.6	-		2.51	-
25% C	125/375	5	5	5	8.0	8.2	-	24.0	23.6	-	7.0	6.6	-		2.51	-
25% D	125/375	5	5	5	8.0	8.2	-	23.9	24.0	-	7.0	6.6	-		2.50	-
50% A	250/250	5	5	5	8.0	8.1	8.2	23.9	23.9	23.8	7.0	6.7	6.9		2.60	2.75
50% B	250/250	5	5	5	8.0	8.1	-	24.0	23.6	-	6.9	6.6	-		2.55	-
50% C	250/250	5	5	5	8.0	8.1	-	24.0	23.5	-	7.0	6.7	-		2.55	-
50% D	250/250	5	5	5	8.0	8.1	-	24.0	23.3	-	6.9	6.7	-		2.60	-
100% A	500/0	5	5	5	8.1	8.1	8.1	24.1	23.5	23.1	6.9	6.8	6.7		2.75	2.85
100% B	500/0	5	5	5	8.1	8.1	-	24.1	23.6	-	6.8	6.7	-		2.79	-
100% C	500/0	5	5	5	8.1	8.1	-	24.1	23.3	-	6.7	6.6	-		2.77	-
100% D	500/0	5	5	5	8.1	8.1	-	24.0	23.5	-	6.6	6.5	-		2.78	-

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #1 temperature range for the test period was 24.5-25.5°C.

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630403

Data Transcription Verification	
date:	1/27/2003
by:	Christa Pierini
	James Daniels

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.148	0.011

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	146	196

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

Continued

Table 1. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 1, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.
Concluded

Facility:	**Beverly Beach WWTF- Sample 1**		**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach		Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler		Test type:	acute definitive static renewal				James Daniels
Sample Collection Date:	10/20/2002	Time: 1840	# tests:	8	Receiving Water:	Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002	Time: 1830	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	10/26/2002	Time: 1600				**Page 3 of 3**	**Reviewer:**	David Whiting

Organism: ***Menidia beryllina***

		SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			Conductivity Uncorrected mmhos/cm	
Concentrations	Sample/Diluent 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	5	5	5	8.0	8.2	8.2	24.0	24.3	24.7	7.4	7.2	7.2	2.30	2.56
Control B	0/500	5	5	5	8.0	8.2	8.2	23.9	24.5	24.9	7.1	7.1	7.3	2.32	2.61
Control C	0/500	5	5	5	8.0	8.2	8.2	23.9	24.9	24.4	7.1	7.1	7.3	2.35	2.53
Control D	0/500	5	5	5	8.0	8.2	8.2	23.9	25.6	24.7	7.0	7.0	7.6	2.32	2.53
Salt Cont A	0/500	5	5	5	8.1	8.2	8.1	24.7	24.3	24.5	6.5	6.5	7.0	2.60	2.26
Salt Cont B	0/500	5	5	5	8.1	8.2	8.2	24.9	24.6	24.4	6.5	6.5	6.9	2.40	2.33
Salt Cont C	0/500	5	5	5	8.1	8.2	8.2	24.7	24.7	24.4	6.6	6.6	7.3	2.30	2.28
Salt Cont D	0/500	5	5	5	8.1	8.2	8.2	24.7	24.2	24.3	6.6	6.3	6.9	2.30	2.26
Salt Cont A2	0/500	5	5	5	8	8.1	8.1	24.4	24.4	24.4	6.7	6.6	6.6	3.10	2.25
Salt Cont B2	0/500	5	5	5	8.1	8.1	8.1	24.7	24.3	24.6	6.6	6.4	6.6	2.40	2.24
Salt Cont C2	0/500	5	5	5	8.1	8.1	8.1	24.7	24.3	25.0	6.8	6.5	6.2	2.30	2.30
Salt Cont D2	0/500	5	5	5	8.0	8.1	8.1	24.6	24.2	24.4	6.8	6.4	6.8	2.30	2.29
6.25% A	31.25/468.75	5	5	5	7.9	8.2	8.2	24.1	26.0	24.6	7.3	7.0	7.6	2.31	2.65
6.25% B	31.25/468.75	5	5	5	8.0	8.2	8.2	24.2	24.8	25.1	7.2	6.9	7.5	2.48	2.70
6.25% C	31.25/468.75	5	5	5	8.0	8.2	8.2	24.2	25.5	25.0	7.1	6.9	7.4	2.46	2.67
6.25% D	31.25/468.75	5	5	5	8.0	8.2	8.2	24.1	24.5	24.6	7.1	7.0	7.5	2.47	2.55
12.5% A	62.5/437.5	5	5	5	8.0	8.2	8.2	24.1	26.4	24.3	7.3	6.6	7.6	2.46	2.65
12.5% B	62.5/437.5	5	5	5	8.0	8.2	8.2	24.3	25.0	24.3	7.1	6.6	7.6	2.51	2.63
12.5% C	62.5/437.5	5	5	5	8.0	8.2	8.2	24.3	24.8	24.8	7.1	6.8	7.6	2.52	2.70
12.5%D	62.5/437.5	5	5	5	8.0	8.2	8.2	24.1	25.3	24.3	7.1	6.9	7.4	2.51	2.57
25% A	125/375	5	5	5	8.0	8.2	8.2	24.1	24.7	24.5	7.3	7.0	7.6	2.51	2.74
25% B	125/375	5	5	5	8.0	8.2	8.2	24.3	24.4	24.5	7.2	7.0	7.6	2.56	2.76
25% C	125/375	5	5	5	8.0	8.2	8.2	24.2	25.9	24.5	7.0	6.9	7.7	2.61	2.75
25% D	125/375	5	5	5	8.0	8.2	8.2	24.1	26.2	24.1	7.0	6.8	7.6	2.59	2.78
50% A	250/250	5	5	5	8.0	8.2	8.2	24.0	25.0	24.9	7.2	6.9	7.7	2.65	2.97
50% B	250/250	5	5	5	8.0	8.2	8.2	24.1	25.1	24.4	7.0	7.0	7.6	2.76	2.97
50% C	250/250	5	5	5	8.0	8.2	8.2	24.2	24.7	24.2	6.9	6.9	7.7	2.76	2.87
50% D	250/250	5	5	5	8.0	8.2	8.2	24.1	26.3	24.0	6.8	6.8	7.5	2.74	2.88
100% A	500/0	5	5	5	8.0	8.1	8.2	24.0	25.6	25.9	5.7	6.8	7.3	2.91	3.46
100% B	500/0	5	5	5	8.0	8.1	8.2	24.2	24.5	24.2	5.7	6.8	7.4	3.06	3.28
100% C	500/0	5	5	5	8.0	8.1	8.2	24.2	26.3	24.1	5.8	6.5	7.4	3.09	3.28
100% D	500/0	5	5	5	8.0	8.1	8.2	24.1	24.8	24.0	5.7	6.4	6.9	3.09	3.27

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #1 temperature range for the test period was 24.5-25.5°C.

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630403

Data Transcription Verification	
date:	1/27/2003
by:	Christa Pierini
	James Daniels

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.148	0.011

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	146	196

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

Table 2. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 2, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 2**	**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach	Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler	Test type:	acute definitive static renewal				James Daniels
Sample Collection Date:	10/21/2002 Time: 0110	# tests:	8	Receiving Water:	Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002 Time: 1900	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	10/23/2002 Time: 1600				**Page 1 of 3**	**Reviewer:**	David Whiting

Organism: ***Americamysis bahia*** Life stage: 3 days

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr[C]	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour
[D]Control A	0/500	5	3	-	8.1	8.1	-	24.1	26.5	-	6.9	5.9	-	10.0	11.5
Control B	0/500	5	4	-	8.1	8.1	-	24.1	25.5	-	6.7	6.1	-	10.4	11.3
Control C	0/500	5	3	-	8.1	8.1	-	24.1	26.3	-	6.8	6.0	-	10.4	11.6
Control D	0/500	5	4	-	8.1	8.1	-	24.2	25.5	-	6.7	5.7	-	10.5	11.2
6.25% A	31.25/468.75	5	3	-	8.2	8.2	-	24.2	25.8	-	6.8	5.9	-	10.6	11.7
6.25% B	31.25/468.75	5	5	-	8.2	8.2	-	24.2	25.5	-	6.7	6.0	-	10.5	11.5
6.25% C	31.25/468.75	5	5	-	8.2	8.2	-	24.2	26.4	-	6.8	6.1	-	10.5	11.6
6.25% D	31.25/468.75	5	5	-	8.2	8.2	-	24.2	25.6	-	6.8	6.1	-	10.5	11.3
12.5% A	62.5/437.5	5	5	-	8.2	8.2	-	24.2	25.8	-	6.8	6.2	-	10.6	11.3
12.5% B	62.5/437.5	5	4	-	8.2	8.2	-	24.2	24.9	-	6.7	6.2	-	10.6	11.4
12.5% C	62.5/437.5	5	3	-	8.2	8.2	-	24.2	26.1	-	6.8	6.3	-	10.6	11.1
12.5%D	62.5/437.5	5	4	-	8.2	8.2	-	24.2	25.6	-	6.8	6.3	-	10.6	11.3
25% A	125/375	5	5	-	8.2	8.2	-	24.2	26.1	-	6.8	6.5	-	10.7	11.5
25% B	125/375	5	5	-	8.2	8.2	-	24.3	25.7	-	6.8	6.4	-	10.7	11.4
25% C	125/375	5	5	-	8.2	8.2	-	24.3	26.4	-	6.8	6.3	-	10.6	11.8
25% D	125/375	5	4	-	8.2	8.2	-	24.2	25.6	-	6.7	6.3	-	10.7	11.4
50% A	250/250	5	5	-	8.2	8.2	-	24.4	26.0	-	6.7	6.1	-	10.8	11.8
50% B	250/250	5	4	-	8.2	8.2	-	24.4	25.3	-	6.7	6.0	-	10.9	11.7
50% C	250/250	5	5	-	8.2	8.2	-	24.4	25.8	-	6.8	6.0	-	10.9	11.5
50% D	250/250	5	4	-	8.2	8.2	-	24.4	25.8	-	6.7	5.9	-	10.8	11.6
100% A	500/0	5	5	-	8.3	8.2	-	24.4	25.8	-	6.7	6.0	-	11.0	11.8
100% B	500/0	5	3	-	8.3	8.2	-	24.6	25.7	-	6.7	5.9	-	11.0	11.8
100% C	500/0	5	5	-	8.3	8.2	-	24.6	25.0	-	6.7	6.0	-	11.1	11.7
100% D	500/0	5	5	-	8.3	8.2	-	24.6	24.7	-	6.7	6.2	-	11.0	11.7

LIMS

Job number: TLH-2002-10-22-03

sample number: 630404

Data Transcription Verification

date: 4/14/2003

by: Cathy Oaks, Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.120	0.010

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	129	199

Salinity [B]	ppt
Menidia control:	6
100% sample:	<1
100% adjusted sample:	6

[B] Salinity based on conductivity and temperature.

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] Test terminated at 24 hours due to excessive control mortality.

[D] See Table 1 for Salt control.

Continued

Table 2. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 2, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 2**	**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach	Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler	Test type:	acute definitive static renewal				James Daniels
Sample Collection Date:	10/21/2002 Time: 0110	# tests:	8	Receiving Water:	Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002 Time: 1830	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	10/26/2002 Time: 1600				**Page 2 of 3**	**Reviewer:**	David Whiting

Organism: ***Menidia beryllina*** Life stage: 6 days

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			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
[C]Control A	0/500	5	5	5	7.9	8.2	8.1	24.1	24.2	26.6	7.1	7.2	6.1	2.30	2.63
Control B	0/500	5	5	5	7.9	8.2	-	24.1	24.2	-	7.1	7.1	-	2.35	-
Control C	0/500	5	5	5	7.9	8.2	-	24.1	24.4	-	7.1	7.0	-	2.35	-
Control D	0/500	5	5	5	7.9	8.2	-	24.1	24.6	-	7.1	7.0	-	2.35	-
6.25% A	31.25/468.75	5	5	5	8.0	8.2	8.1	24.1	24.5	24.6	7.0	7.0	6.1	2.40	2.60
6.25% B	31.25/468.75	5	5	5	8.0	8.2	-	24.3	24.6	-	7.0	6.9	-	2.40	-
6.25% C	31.25/468.75	5	5	5	8.0	8.2	-	24.3	24.9	-	7.0	6.8	-	2.40	-
6.25% D	31.25/468.75	5	5	5	8.0	8.2	-	24.4	25.0	-	7.0	6.8	-	2.40	-
12.5% A	62.5/437.5	5	5	5	8.0	8.2	8.1	24.4	25.0	25.1	7.0	6.8	5.8	2.40	2.68
12.5% B	62.5/437.5	5	5	5	8.0	8.2	-	24.4	25.3	-	7.0	6.7	-	2.45	-
12.5% C	62.5/437.5	5	5	5	8.0	8.2	-	24.4	25.0	-	7.0	6.8	-	2.40	-
12.5%D	62.5/437.5	5	5	5	8.0	8.2	-	24.4	24.7	-	7.0	6.7	-	2.40	-
25% A	125/375	5	5	5	8.0	8.2	8.1	24.4	24.3	26.3	7.0	6.9	5.8	2.50	2.77
25% B	125/375	5	5	5	8.0	8.2	-	24.4	25.1	-	7.0	6.9	-	2.50	-
25% C	125/375	5	5	5	8.0	8.2	-	24.4	24.8	-	7.0	6.8	-	2.45	-
25% D	125/375	5	5	5	8.0	8.2	-	24.4	24.8	-	6.9	6.8	-	2.45	-
50% A	250/250	5	5	5	8.0	8.2	8.1	24.4	24.7	25.6	6.9	6.8	5.8	2.55	2.95
50% B	250/250	5	5	5	8.0	8.2	-	24.6	24.8	-	6.9	6.8	-	2.55	-
50% C	250/250	5	5	5	8.0	8.2	-	24.6	24.6	-	6.9	6.8	-	2.60	-
50% D	250/250	5	5	5	8.0	8.2	-	24.6	24.7	-	6.9	6.8	-	2.55	-
100% A	500/0	5	5	5	8.1	8.2	8.1	24.5	24.4	24.8	6.9	6.9	6.0	2.70	2.93
100% B	500/0	5	5	5	8.1	8.2	-	24.8	24.7	-	6.9	6.9	-	2.75	-
100% C	500/0	5	5	5	8.1	8.2	-	24.8	24.7	-	6.9	6.8	-	2.75	-
100% D	500/0	5	5	5	8.1	8.2	-	24.9	24.8	-	6.9	6.8	-	2.75	-

LIMS	
Job number:	630404
sample number:	TLH-2002-10-22-03

Data Transcription Verification	
date:	1/27/2003
by:	Christa Pierini
	James Daniels

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.120	0.010

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	129	199

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] See Table 1 for Salt Control.

Continued

Table 2. Concluded

Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 2, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 2**		**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**		**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach		Contact/District:	O'Connor/NE					Joshua Ayres
County:	Flagler		Test type:	acute definitive static renewal					James Daniels
Sample Collection Date:	10/21/2002	Time: 0110	# tests:	8	Receiving Water:	Intracostal Waterway			Marshall Faircloth
Test Beginning Date:	10/22/2002	Time: 1830	Chlorination Type:	dechlorinated		Class III Marine			Christa Pierini
Test Ending Date:	10/26/2002	Time: 1600				**Page 3 of 3**		**Reviewer:**	David Whiting

Organism: ***Menidia beryllina***

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			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
[C]Control A	0/500	5	5	5	7.8	8.1	8.2	24.4	26.2	24.2	7.0	7.0	7.1	2.28	2.59
Control B	0/500	5	5	5	7.8	8.1	8.2	24.5	24.8	24.2	6.9	6.7	7.1	2.40	2.55
Control C	0/500	5	5	5	7.8	8.1	8.1	24.6	25.7	24.1	6.9	6.2	7.0	2.42	2.57
Control D	0/500	5	5	5	7.8	8.1	8.2	24.5	24.3	24.3	6.9	6.2	7.0	2.44	2.56
6.25% A	31.25/468.75	5	5	5	7.9	8.1	8.2	24.4	25.3	24.5	7.0	6.5	7.1	2.45	2.65
6.25% B	31.25/468.75	5	5	5	7.9	8.1	8.2	24.5	24.5	24.7	7.0	6.5	7.2	2.49	2.62
6.25% C	31.25/468.75	5	5	5	7.9	8.1	8.2	24.8	24.6	25.7	6.8	6.7	7.1	2.49	2.68
6.25% D	31.25/468.75	5	5	5	8.0	8.1	8.2	25.0	25.4	24.7	6.7	6.7	7.1	2.53	2.66
12.5% A	62.5/437.5	5	5	5	8.0	8.2	8.2	24.7	25.2	24.3	6.8	6.6	7.2	2.51	2.65
12.5% B	62.5/437.5	5	5	5	8.0	8.2	8.2	24.7	25.4	24.2	6.8	6.7	7.4	2.55	2.64
12.5% C	62.5/437.5	5	5	5	8.0	8.2	8.2	24.7	24.4	24.8	6.9	6.9	7.4	2.56	2.70
12.5%D	62.5/437.5	5	5	5	8.0	8.2	8.2	24.8	26.1	24.3	6.9	6.8	7.4	2.51	2.72
25% A	125/375	5	5	5	8.0	8.2	8.2	24.8	25.7	24.2	6.9	6.8	7.3	2.59	2.77
25% B	125/375	5	5	5	8.0	8.2	8.2	24.9	25.0	24.2	6.9	6.8	7.4	2.63	2.76
25% C	125/375	5	5	5	8.0	8.2	8.2	24.8	24.5	24.1	6.9	6.9	7.4	2.64	2.76
25% D	125/375	5	5	5	8.0	8.2	8.2	24.6	25.5	24.0	6.9	7.0	7.5	2.61	2.77
50% A	250/250	5	5	5	8.0	8.1	8.2	24.5	24.4	23.8	7.0	6.8	7.5	2.76	2.91
50% B	250/250	5	5	5	8.0	8.1	8.2	24.9	24.5	24.3	7.0	6.7	7.5	2.80	2.93
50% C	250/250	5	5	5	8.0	8.1	8.2	24.9	25.8	24.7	6.9	6.7	7.5	2.78	2.96
50% D	250/250	5	5	5	8.0	8.1	8.2	24.7	26.3	25.3	6.9	6.6	7.4	2.77	2.97
100% A	500/0	5	5	5	8.0	8.0	8.1	24.6	24.1	25.0	6.9	6.5	7.3	3.01	3.28
100% B	500/0	5	5	5	8.0	8.0	8.1	24.9	25.1	24.3	6.9	6.5	7.1	3.10	3.18
100% C	500/0	5	5	5	8.0	8.0	8.1	24.7	24.3	24.4	6.9	6.8	7.2	3.07	3.22
100% D	500/0	5	5	5	8.0	8.0	8.1	24.6	25.8	24.9	6.9	6.7	7.3	3.08	3.36

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] See Table 1 for Salt Control.

LIMS	
Job number:	630404
sample number:	TLH-2002-10-22-03

Data Transcription Verification	
date:	1/27/2003
by:	James Daniels
	Christa Pierini

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.120	0.010

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	129	199

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

Table 3. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 3, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 3**		**NPDES#:**	**FL0039756**	Facility Type: **WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach		Contact/District:	O'Connor/NE			Joshua Ayres
County:	Flagler		Test type:	acute definitive static renewal			James Daniels
Sample Collection Date:	10/21/2002	Time: 0710	# tests:	8	Receiving Water: Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002	Time: 1900	Chlorination Type:	dechlorinated	Class III Marine		Christa Pierini
Test Ending Date:	10/24/2002	Time: 1600			**Page 1 of 3**	**Reviewer:**	David Whiting

Organism: ***Americamysis bahis*** Life stage: 3 days

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr[C]	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	4	8.1	8.1	7.8	23.9	24.2	24.2	6.6	5.9	5.5	10.1	9.80
Control B	0/500	5	5	3	8.1	8.1	-	23.9	24.4	-	6.6	6.0	-	10.4	-
Control C	0/500	5	4	2	8.1	8.1	-	23.9	24.2	-	6.6	6.1	-	10.2	-
Control D	0/500	5	5	5	8.1	8.1	-	23.9	24.3	-	6.6	6.1	-	10.3	-
6.25% A	31.25/468.75	5	4	4	8.1	8.1	7.9	23.9	24.2	24.5	6.6	6.4	6.2	10.5	10.7
6.25% B	31.25/468.75	5	5	5	8.1	8.1	-	23.9	23.9	-	6.6	6.3	-	10.6	-
6.25% C	31.25/468.75	5	5	5	8.1	8.1	-	23.9	24.8	-	6.6	6.3	-	10.5	-
6.25% D	31.25/468.75	5	5	5	8.1	8.1	-	23.9	24.7	-	6.6	6.1	-	10.6	-
12.5% A	62.5/437.5	5	5	5	8.2	8.1	7.9	24.0	24.2	26.4	6.6	6.3	4.0	10.6	11.2
12.5% B	62.5/437.5	5	5	5	8.2	8.1	-	24.0	24.8	-	6.6	6.2	-	10.7	-
12.5% C	62.5/437.5	5	5	5	8.2	8.1	-	24.0	24.9	-	6.6	6.1	-	10.6	-
12.5%D	62.5/437.5	5	4	4	8.2	8.1	-	23.9	24.4	-	6.6	6.0	-	10.7	-
25% A	125/375	5	5	5	8.2	8.1	7.9	24.0	24.5	24.2	6.6	6.2	5.0	10.7	11.2
25% B	125/375	5	5	5	8.2	8.1	-	24.0	24.4	-	6.6	6.1	-	10.7	-
25% C	125/375	5	5	5	8.2	8.1	-	23.9	25.4	-	6.6	6.1	-	10.7	-
25% D	125/375	5	5	5	8.2	8.1	-	23.9	24.4	-	6.6	5.9	-	10.7	-
50% A	250/250	5	5	5	8.2	8.2	8.0	24.0	25.5	24.1	6.6	5.6	5.5	10.9	11.3
50% B	250/250	5	5	5	8.2	8.2	-	23.7	25.2	-	6.6	5.4	-	10.9	-
50% C	250/250	5	5	5	8.2	8.2	-	23.9	24.2	-	6.5	5.8	-	11.0	-
50% D	250/250	5	5	5	8.2	8.2	-	24.0	24.1	-	6.4	5.9	-	11.0	-
100% A	500/0	5	5	5	8.2	8.2	8.1	24.0	26.2	24.2	4.8	5.6	5.9	11.4	12.8
100% B	500/0	5	5	4	8.3	8.2	-	24.1	25.8	-	4.8	5.5	-	11.6	-
100% C	500/0	5	5	5	8.3	8.2	-	24.1	25.6	-	4.6	5.6	-	11.5	-
100% D	500/0	5	5	5	8.3	8.2	-	24.1	24.8	-	4.5	5.5	-	11.5	-

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630405

Data Transcription Verification	
date:	4/14/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

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

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	148	198

Salinity [B]	ppt
Menidia control:	6
100% sample:	<1
100% adjusted sample:	6

[B] Salinity based on conductivity and temperature.

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] Test terminated at 48 hours due to excessive control mortality.

[D] See table 1 for Salt control.

Continued

Table 3. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 3, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 3**		**NPDES#:**	**FL0039756**	Facility Type: **WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach		Contact/District:	O'Connor/NE			Joshua Ayres
County:	Flagler		Test type:	acute definitive static renewal			James Daniels
Sample Collection Date:	10/21/2002	Time: 0710	# tests:	8	Receiving Water: Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002	Time: 1830	Chlorination Type:	dechlorinated	Class III Marine		Christa Pierini
Test Ending Date:	10/26/2002	Time: 1600			**Page 2 of 3**	**Reviewer:**	David Whiting

Organism: ***Menidia beryllina*** Life stage: 6 days

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			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
[C]Control A	0/500	5	5	5	7.9	8.2	8.0	24.1	24.1	24.6	6.6	6.4	6.2	2.30	2.70
Control B	0/500	5	5	5	7.9	8.2	-	24.0	24.0	-	6.7	6.4	-	2.30	-
Control C	0/500	5	5	5	7.9	8.2	-	23.8	24.2	-	6.8	6.6	-	2.32	-
Control D	0/500	5	5	5	7.9	8.2	-	23.8	24.4	-	6.8	6.6	-	2.34	-
6.25% A	31.25/468.75	5	5	5	8.0	8.2	8.1	24.0	24.2	24.3	6.8	6.7	6.1	2.42	2.65
6.25% B	31.25/468.75	5	5	5	8.0	8.2	-	24.1	24.2	-	6.8	6.8	-	2.42	-
6.25% C	31.25/468.75	5	5	5	8.0	8.2	-	24.0	24.1	-	6.8	6.9	-	2.42	-
6.25% D	31.25/468.75	5	5	5	8.0	8.2	-	24.0	24.1	-	6.8	6.8	-	2.44	-
12.5% A	62.5/437.5	5	5	5	8.0	8.2	8.0	24.1	24.1	24.6	6.8	6.9	6.0	2.52	2.75
12.5% B	62.5/437.5	5	5	5	8.0	8.2	-	24.1	24.2	-	6.8	6.9	-	2.50	-
12.5% C	62.5/437.5	5	5	5	8.0	8.2	-	24.0	24.1	-	6.9	6.9	-	2.50	-
12.5%D	62.5/437.5	5	5	5	8.0	8.2	-	24.0	24.0	-	6.9	6.8	-	2.50	-
25% A	125/375	5	5	5	8.0	8.2	8.1	24.0	24.1	24.3	6.9	6.9	6.0	2.65	2.90
25% B	125/375	5	5	5	8.0	8.2	-	24.1	24.4	-	6.8	6.9	-	2.65	-
25% C	125/375	5	5	5	8.0	8.2	-	24.1	24.4	-	6.8	6.8	-	2.65	-
25% D	125/375	5	5	5	8.0	8.2	-	24.1	24.2	-	6.8	6.7	-	2.66	-
50% A	250/250	5	5	5	8.0	8.2	8.0	24.1	24.5	24.6	6.8	6.7	5.1	2.97	3.30
50% B	250/250	5	5	5	8.1	8.2	-	24.1	24.4	-	6.8	6.6	-	2.96	-
50% C	250/250	5	5	5	8.1	8.2	-	24.1	24.2	-	6.8	6.5	-	2.97	-
50% D	250/250	5	5	5	8.1	8.2	-	24.1	24.2	-	6.7	6.5	-	2.97	-
100% A	500/0	5	5	5	8.1	8.1	8.0	24.1	24.3	24.2	6.7	6.5	5.4	3.55	3.70
100% B	500/0	5	5	5	8.1	8.1	-	24.2	24.2	-	6.7	6.6	-	3.54	-
100% C	500/0	5	5	5	8.1	8.1	-	24.2	24.3	-	6.6	6.5	-	3.55	-
100% D	500/0	5	5	5	8.1	8.1	-	24.2	24.3	-	6.6	6.4	-	3.53	-

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630405

Data Transcription Verification	
date:	1/27/2003
by:	James Daniels
	Christa Pierini

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

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

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	148	198

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] See Table 1 for Salt Control.

Continued

Table 3. Concluded

Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 3, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 3**	**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach	Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler	Test type:	acute definitive static renewal				James Daniels
Sample Collection Date:	10/21/2002 Time: 0710	# tests:	8	Receiving Water:	Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002 Time: 1830	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	10/26/2002 Time: 1600				**Page 3 of 3**	**Reviewer:**	David Whiting

Organism: ***Menidia beryllina***

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			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
[C]Control A	0/500	5	5	5	7.9	8.1	8.2	23.7	24.9	24.9	7.0	6.3	6.9	2.32	2.68
Control B	0/500	5	5	5	7.9	8.1	8.2	23.9	24.5	24.2	6.9	6.3	7.0	2.32	2.57
Control C	0/500	5	5	5	7.9	8.1	8.2	23.9	24.4	26.9	7.0	6.6	7.0	2.36	2.80
Control D	0/500	5	5	5	7.9	8.1	8.2	23.8	24.0	25.9	7.0	6.7	6.9	2.36	2.68
6.25% A	31.25/468.75	5	5	5	7.9	8.1	8.2	23.7	24.5	25.9	7.3	6.7	7.0	2.37	2.73
6.25% B	31.25/468.75	5	5	5	8.0	8.1	8.2	23.9	24.2	24.1	7.2	6.6	7.1	2.45	2.69
6.25% C	31.25/468.75	5	5	5	8.0	8.1	8.2	23.9	24.1	23.8	7.1	6.5	7.5	2.45	2.70
6.25% D	31.25/468.75	5	5	5	8.0	8.1	8.2	24.1	24.4	24.7	7.0	6.5	7.5	2.45	2.68
12.5% A	62.5/437.5	5	5	5	7.9	8.1	8.2	23.8	24.0	24.3	7.4	6.6	7.4	2.40	2.73
12.5% B	62.5/437.5	5	5	5	8.0	8.1	8.2	23.8	24.4	24.6	7.3	6.6	7.4	2.48	2.76
12.5% C	62.5/437.5	5	5	5	8.0	8.1	8.2	24.0	24.1	24.3	7.1	6.6	7.2	2.47	2.73
12.5%D	62.5/437.5	5	5	5	8.0	8.1	8.2	24.0	24.0	26.6	7.1	6.7	7.4	2.54	2.91
25% A	125/375	5	5	5	8.0	8.1	8.2	23.8	24.1	25.5	7.1	6.8	7.1	2.53	2.89
25% B	125/375	5	5	5	8.1	8.1	8.2	23.9	24.5	25.9	7.0	6.9	7.2	2.54	2.89
25% C	125/375	5	5	5	8.1	8.1	8.2	24.0	24.6	25.6	6.9	6.7	7.2	2.55	2.89
25% D	125/375	5	5	5	8.1	8.1	8.2	24.0	24.3	24.3	6.9	6.5	7.0	2.64	2.82
50% A	250/250	5	5	5	8.0	8.0	8.2	23.9	24.2	24.5	7.0	6.4	7.0	2.73	3.02
50% B	250/250	5	5	5	8.0	8.0	8.1	24.0	24.5	25.4	6.8	6.4	7.0	2.79	3.19
50% C	250/250	5	5	5	8.0	8.0	8.1	24.0	24.1	24.9	6.7	6.2	7.0	2.81	3.17
50% D	250/250	5	5	5	8.0	8.0	8.1	24.1	24.4	24.1	6.6	6.2	6.6	2.88	3.02
100% A	500/0	5	5	5	8.0	8.0	7.9	23.9	24.3	26.0	6.8	6.2	5.0	3.19	3.70
100% B	500/0	5	5	5	8.1	8.0	7.9	23.9	24.3	25.7	6.0	6.2	2.7	3.22	3.61
100% C	500/0	5	5	5	8.1	8.0	7.8	24.0	24.0	25.9	5.9	6.1	2.8	3.24	3.62
100% D	500/0	5	5	5	8.1	8.0	7.8	24.1	24.3	24.6	5.9	6.2	2.5	3.28	3.50

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] See Table 1 for Salt Control.

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630405

Data Transcription Verification	
date:	1/27/2003
by:	James Daniels
	Christa Pierini

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

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

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	148	198

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

Table 4. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 4, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 4**	**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach	Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler	Test type:	acute definitive static renewal				James Daniels
Sample Collection Date:	10/21/2002 Time: 1345	# tests:	8	Receiving Water:	Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002 Time: 1900	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	10/24/2002 Time: 1600				**Page 1 of 3**	**Reviewer:**	David Whiting

Organism: ***Americamysis bahia*** Life stage: 3 days

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr[C]	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	8.2	8.0	8.1	23.7	23.8	25.2	6.5	5.8	5.1	10.2	10.7
Control B	0/500	5	5	3	8.2	8.0	-	23.7	23.3	-	6.6	5.8	-	10.4	-
Control C	0/500	5	5	3	8.2	8.0	-	23.6	23.4	-	6.6	6.2	-	10.3	-
Control D	0/500	5	4	3	8.2	8.0	-	23.7	23.9	-	6.6	6.2	-	10.4	-
6.25% A	31.25/468.75	5	5	5	8.2	8.1	8.0	23.7	24.0	25.0	6.6	6.2	5.8	10.2	10.9
6.25% B	31.25/468.75	5	5	5	8.2	8.1	-	23.7	23.8	-	6.6	6.2	-	10.2	-
6.25% C	31.25/468.75	5	4	3	8.2	8.1	-	23.7	23.6	-	6.6	6.2	-	10.3	-
6.25% D	31.25/468.75	5	3	1	8.2	8.1	-	23.7	23.7	-	6.6	6.2	-	10.2	-
12.5% A	62.5/437.5	5	3	3	8.2	8.1	8.0	23.6	23.6	24.5	6.6	6.3	5.0	10.9	11.2
12.5% B	62.5/437.5	5	5	4	8.2	8.1	-	23.5	23.9	-	6.6	6.3	-	10.8	-
12.5% C	62.5/437.5	5	5	5	8.2	8.1	-	23.4	23.5	-	6.7	6.4	-	10.9	-
12.5%D	62.5/437.5	5	5	4	8.2	8.1	-	23.4	23.3	-	6.7	6.4	-	10.8	-
25% A	125/375	5	4	4	8.2	8.1	8.0	23.4	23.2	24.3	6.7	6.6	5.4	10.8	11.1
25% B	125/375	5	5	4	8.2	8.1	-	23.3	23.6	-	6.7	6.6	-	10.8	-
25% C	125/375	5	5	5	8.2	8.1	-	23.3	23.4	-	6.7	6.5	-	10.9	-
25% D	125/375	5	5	4	8.2	8.1	-	23.3	23.3	-	6.7	6.5	-	10.8	-
50% A	250/250	5	5	5	8.2	8.2	8.0	23.3	23.8	24.0	6.7	6.5	5.7	10.8	11.2
50% B	250/250	5	5	3	8.2	8.2	-	23.3	23.5	-	6.7	6.4	-	10.8	-
50% C	250/250	5	5	4	8.2	8.2	-	23.3	23.3	-	6.7	6.4	-	10.8	-
50% D	250/250	5	5	5	8.2	8.2	-	23.3	23.4	-	6.7	6.3	-	10.8	-
100% A	500/0	5	5	5	8.3	8.2	8.0	23.3	23.7	24.1	6.6	6.3	5.9	11.1	11.4
100% B	500/0	5	5	5	8.3	8.2	-	23.3	23.5	-	6.6	6.2	-	11.2	-
100% C	500/0	5	5	5	8.3	8.2	-	23.4	23.6	-	6.6	6.2	-	11.2	-
100% D	500/0	5	5	4	8.3	8.2	-	23.4	23.8	-	6.6	6.1	-	11.1	-

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630406

Data Transcription Verification	
date:	4/14/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.605	0.045

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	136	197

Salinity [B]	ppt
Menidia control:	6
100% sample:	<1
100% adjusted sample:	6

[B] Salinity based on conductivity and temperature.

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] Test terminated at 48 hours due to excessive control mortality.

[D] See table 1 for Salt control.

Continued

Table 4. Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 4, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 4**		**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**		**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach		Contact/District:	O'Connor/NE					Joshua Ayres
County:	Flagler		Test type:	acute definitive static renewal					James Daniels
Sample Collection Date:	10/21/2002	Time: 1345	# tests:	8	Receiving Water:	Intracostal Waterway			Marshall Faircloth
Test Beginning Date:	10/22/2002	Time: 1830	Chlorination Type:	dechlorinated		Class III Marine			Christa Pierini
Test Ending Date:	10/26/2002	Time: 1600				**Page 2 of 3**		**Reviewer:**	David Whiting

Organism: ***Menidia beryllina*** Life stage: 6 days

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			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
[C]Control A	0/500	5	5	5	7.9	8.2	8.1	23.5	24.9	23.7	6.8	6.3	6.1	2.30	2.47
Control B	0/500	5	5	5	7.9	8.2	-	23.5	24.7	-	6.8	6.4	-	2.31	-
Control C	0/500	5	5	5	7.9	8.2	-	23.4	24.1	-	6.8	6.7	-	2.32	-
Control D	0/500	5	5	5	8.0	8.2	-	23.4	23.9	-	6.8	6.8	-	2.31	-
6.25% A	31.25/468.75	5	5	5	8.0	8.2	8.0	23.3	24.5	23.9	6.8	6.8	6.2	2.21	2.36
6.25% B	31.25/468.75	5	5	5	8.0	8.2	-	23.3	24.4	-	6.9	6.8	-	2.20	-
6.25% C	31.25/468.75	5	5	5	8.0	8.2	-	23.2	24.0	-	6.9	6.9	-	2.20	-
6.25% D	31.25/468.75	5	5	5	8.0	8.2	-	23.1	24.8	-	6.9	6.9	-	2.20	-
12.5% A	62.5/437.5	5	5	5	8.0	8.2	8.0	23.3	23.7	23.8	6.9	6.9	5.7	2.20	2.54
12.5% B	62.5/437.5	5	5	5	8.0	8.2	-	23.3	23.9	-	6.9	6.9	-	2.23	-
12.5% C	62.5/437.5	5	5	5	8.0	8.2	-	23.2	24.0	-	6.9	6.8	-	2.25	-
12.5%D	62.5/437.5	5	5	5	8.0	8.2	-	23.1	24.4	-	6.9	6.8	-	2.26	-
25% A	125/375	5	5	5	8.0	8.2	7.9	23.3	24.0	24.1	6.9	6.9	5.9	2.36	2.64
25% B	125/375	5	5	5	8.0	8.2	-	23.3	24.3	-	6.9	6.9	-	2.39	-
25% C	125/375	5	5	5	8.0	8.2	-	23.2	24.0	-	6.9	6.8	-	2.38	-
25% D	125/375	5	5	5	8.0	8.2	-	23.2	24.0	-	6.9	6.8	-	2.38	-
50% A	250/250	5	5	5	8.0	8.2	7.8	23.3	24.0	24.0	6.7	6.9	6.0	2.58	2.72
50% B	250/250	5	5	5	8.0	8.2	-	23.5	24.1	-	6.7	6.9	-	2.60	-
50% C	250/250	5	5	5	8.0	8.2	-	23.5	24.0	-	6.7	6.8	-	2.60	-
50% D	250/250	5	5	5	8.0	8.2	-	23.5	24.5	-	6.8	6.8	-	2.60	-
100% A	500/0	5	5	5	8.0	8.1	7.9	23.6	24.2	24.0	6.8	6.8	5.9	3.07	3.00
100% B	500/0	5	5	5	8.1	8.1	-	23.8	24.2	-	6.7	6.7	-	3.11	-
100% C	500/0	5	5	5	8.1	8.1	-	23.9	24.0	-	6.7	6.7	-	3.12	-
100% D	500/0	5	5	5	8.1	8.1	-	23.9	24.2	-	6.6	6.6	-	3.12	-

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] See Table 1 for Salt Control.

Continued

LIMS	
Job number:	TLH-2002-10-22-03
sample number:	630406

Data Transcription Verification	
date:	1/29/2003
by:	James Daniels
	Christa Pierini

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.605	0.045

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	136	197

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

Table 4. Concluded

Data recorded during the 96-hour acute definitive bioassays of a sample of effluent from Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), Sample 4, Highway A1A, Beverly Beach, Flagler County, Florida, NPDES# FL0039756, performed from 22 to 26 October 2002.

Facility:	**Beverly Beach WWTF- Sample 4**	**NPDES#:**	**FL0039756**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Brynda
Location:	Highway A1A, Beverly Beach	Contact/District:	O'Connor/NE				Joshua Ayres
County:	Flagler	Test type:	acute definitive static renewal				James Daniels
Sample Collection Date:	10/21/2002 Time: 1345	# tests:	8	Receiving Water:	Intracostal Waterway		Marshall Faircloth
Test Beginning Date:	10/22/2002 Time: 1830	Chlorination Type:	dechlorinated		Class III Marine		Christa Pierini
Test Ending Date:	10/26/2002 Time: 1600				**Page 3 of 3**	**Reviewer:**	David Whiting

Organism: ***Menidia beryllina***

Concentrations	Sample/Diluent Volume(mL)	SURVIVAL # Alive 48 hr	72 hr	96 hr	pH 48 hour	72 hour	96 hour	Temperature[A] 48 hour	72 hour	96 hour	Dissolved Oxygen 48 hour	72 hour	96 hour	Conductivity Uncorrected mmhos/cm 48 hour	96 hour
[C]Control A	0/500	5	5	5	8.0	8.1	8.2	23.5	25.5	25.7	7.0	5.8	7.0	2.44	2.73
Control B	0/500	5	5	5	8.0	8.1	8.2	23.8	24.1	25.6	7.0	5.9	7.1	2.42	2.69
Control C	0/500	5	5	5	8.0	8.1	8.2	23.9	24.9	25.0	7.0	6.3	7.1	2.43	2.60
Control D	0/500	5	5	5	8.0	8.1	8.2	24.0	24.4	24.8	7.0	6.3	7.2	2.41	2.59
6.25% A	31.25/468.75	5	5	5	8.0	8.1	8.2	23.6	24.3	26.8	7.4	6.5	7.0	2.30	2.90
6.25% B	31.25/468.75	5	5	5	8.0	8.1	8.2	23.8	25.5	25.3	7.3	6.5	6.8	2.39	2.68
6.25% C	31.25/468.75	5	5	5	8.0	8.1	8.2	24.0	25.4	25.7	7.1	6.0	6.8	2.40	2.61
6.25% D	31.25/468.75	5	5	5	8.0	8.1	8.2	24.1	25.1	26.4	7.1	6.2	7.0	2.39	2.68
12.5% A	62.5/437.5	5	5	5	7.9	8.1	8.2	23.6	24.8	27.3	7.4	6.4	7.0	2.32	2.91
12.5% B	62.5/437.5	5	5	5	8.0	8.1	8.2	23.9	25.4	27.7	7.4	6.4	6.8	2.38	2.81
12.5% C	62.5/437.5	5	5	5	8.0	8.1	8.2	24.1	25.1	25.7	7.1	6.3	6.8	2.46	2.69
12.5%D	62.5/437.5	5	5	5	8.0	8.1	8.2	24.1	24.1	25.1	7.0	6.3	6.9	2.44	2.69
25% A	125/375	5	5	5	8.0	8.1	8.2	23.6	24.5	25.4	7.3	6.6	7.0	2.48	2.82
25% B	125/375	5	5	5	8.0	8.1	8.2	23.9	24.2	25.7	7.2	6.6	7.0	2.57	2.83
25% C	125/375	5	5	5	8.0	8.1	8.2	24.0	24.8	26.2	7.1	6.7	7.1	2.59	2.88
25% D	125/375	5	5	5	8.0	8.1	8.2	23.9	24.3	24.8	7.0	6.7	7.0	2.57	2.75
50% A	250/250	5	5	5	8.0	8.1	8.2	23.4	24.8	27.9	7.3	6.8	7.1	2.63	3.16
50% B	250/250	5	5	5	8.0	8.1	8.2	23.5	24.3	26.7	7.2	6.7	6.8	2.74	3.06
50% C	250/250	5	5	5	8.1	8.1	8.2	23.6	24.9	24.9	7.0	6.4	6.9	2.75	2.91
50% D	250/250	5	5	5	8.1	8.1	8.2	24.1	24.7	24.7	6.9	6.2	7.0	2.78	2.95
100% A	500/0	5	5	5	8.0	8.0	8.1	23.5	24.7	25.1	7.2	6.4	6.9	3.04	3.44
100% B	500/0	5	5	5	8.0	8.0	8.1	23.7	24.6	25.1	5.9	6.3	7.0	3.07	3.45
100% C	500/0	5	5	5	8.0	8.0	8.1	23.9	25.0	25.1	5.8	6.2	7.0	3.20	3.42
100% D	500/0	5	5	5	8.0	8.0	8.1	24.0	23.9	26.1	5.7	6.1	7.1	3.19	3.61

LIMS

Job number: TLH-2002-10-22-03

sample number: 630406

Data Transcription Verification

date: 1/29/2003

by: James Daniels, Christa Pierini

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	0.605	0.045

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	185	-
100% Sample:	136	197

Salinity [B]	ppt
Menidia control:	1
100% sample:	<1
100% adjusted sample:	1

[B] Salinity based on conductivity and temperature.

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.5-25.0°C.
Incubator #3 temperature range for the test period was 24.0-26.0°C.

[C] See Table 1 for Salt Control.

Table 5. Results of chemical analyses on the effluent from Beverly Beach Wastewater Treatment Facility sample #4 sampled on October 21, 2002.

Metals

Aluminum	43	ug/L	
Cadmium	0.052	ug/L	I
Calcium	55.4	mg/L	
Copper	3.9	ug/L	
Iron	28	ug/L	I
Magnesium	10.6	mg/L	
Zinc	42.5	ug/L	

Pesticides and Herbicides

Atrazine	0.1	ug/L	I

Nutrients

Ammonia-N	0.73	mg N/L
Nitrates and Nitrites	19	mg N/L
Total Kjeldahl Nitrogen	2.9	mg N/L
Ortho Phosphates	3.9	mg P/L
Total Phosphorous	4	mg P/L

Base, Neutral, & Acid Extractable Organics

None detected

[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 Beverly Beach Wastewater Treatment Facility (Ocean City Utilities), sampled on October 21, 2002.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,2,4-Trichlorobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,2-Dichlorobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,3-Dichlorobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,4-Dichlorobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	75
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	1-Naphthylamine	9.4	ug/L	U	9.4	38
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,4,5-Trichlorophenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,4,6-Trichlorophenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,4-Dichlorophenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,4-Dimethylphenol	47	ug/L	U	47	190
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,4-Dinitrotoluene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,6-Dichlorophenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2,6-Dinitrotoluene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Acetylaminofluorene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Chloronaphthalene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Chlorophenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Methylnaphthalene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Naphthylamine	9.4	ug/L	U	9.4	38
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Nitroaniline	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Nitrophenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	2-Picoline	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	75
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	3-Methylcholanthrene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	3-Nitroaniline	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7

10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4-Bromophenyl phenyl ether	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4-Chloro-3-methylphenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4-Chloroaniline	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4-Nitroaniline	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	5-Nitro-o-toluidine	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Acenaphthene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Acenaphthylene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Acetophenone	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Aniline	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Anthracene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Azobenzene/1,2-Diphenylhydrazi	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Benzidine	94	ug/L	U	94	380
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Benzo(a)anthracene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Benzo(a)pyrene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Benzo(b)fluoranthene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Benzo(g,h,i)perylene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Benzo(k)fluoranthene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Benzyl alcohol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethoxy)methane	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethyl)ether	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Bis(2-chloroisopropyl)ether	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Butyl benzyl phthalate	4.7	ug/L	U	4.7	19
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Chrysene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Di-n-butyl phthalate	4.7	ug/L	U	4.7	19
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Di-n-octyl phthalate	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Dibenzo(a,h)anthracene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Dibenzofuran	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Diethyl phthalate	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Dimethyl phthalate	47	ug/L	U	47	190

10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Dimethylaminoazobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Diphenylamine	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Ethyl methanesulfonate	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Fluoranthene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Fluorene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Hexachlorobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Hexachlorobutadiene	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Hexachlorocyclopentadiene	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Hexachloroethane	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Isophorone	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Isosafrole	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Methyl methanesulfonate	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-butylamine	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosodiethylamine	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosodiphenylamine	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosomorpholine	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosopiperidine	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Naphthalene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	75
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Pentachlorobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Pentachloroethane	47	ug/L	U	47	190

10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Pentachloronitrobenzene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Pentachlorophenol	2.8	ug/L	U	2.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Phenanthrene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Phenol	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Pyrene	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	Safrole	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.5
10/21/2002 13:25	EQUIPMENT BLK	BNA-Water	o-Toluidine	0.94	ug/L	U	0.94	3.8
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Ametryn	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Atrazine	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Azinphos Methyl	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Chlorpyrifos Ethyl	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Chlorpyrifos Methyl	0.094	ug/L	U	0.094	0.376
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Diazinon	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Ethion	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Ethoprop	0.094	ug/L	U	0.094	0.376
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Fonofos	0.094	ug/L	U	0.094	0.376
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Hexazinone	0.094	ug/L	U	0.094	0.376
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Metolachlor	0.47	ug/L	U	0.47	1.88
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Metribuzin	0.094	ug/L	U	0.094	0.376
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Naled	0.75	ug/L	U	0.75	3
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Norflurazon	0.094	ug/L	U	0.094	0.376
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56

10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Parathion Methyl	0.094	ug/L	U	0.094	0.376
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Phorate	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
10/21/2002 13:25	EQUIPMENT BLK	GC-Water	Simazine	0.047	ug/L	U	0.047	0.188
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Aluminum	10	ug/L	U	10	40
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Arsenic	3	ug/L	U	3	12
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Calcium	0.04	mg/L	U	0.04	0.12
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Chromium	2	ug/L	U	2	8
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Copper	0.75	ug/L	U	0.75	3
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Iron	7	ug/L	U	7	28
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Lead	0.1	ug/L	U	0.1	0.4
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Nickel	2	ug/L	U	2	8
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Selenium	1	ug/L	U	1	4
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
10/21/2002 13:25	EQUIPMENT BLK	Metals-Water	Zinc	3.2	ug/L	U	2	8
10/21/2002 13:25	EQUIPMENT BLK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
10/21/2002 13:25	EQUIPMENT BLK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
10/21/2002 13:25	EQUIPMENT BLK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
10/21/2002 13:25	EQUIPMENT BLK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
10/21/2002 13:25	EQUIPMENT BLK	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.015	0.04
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	76
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	1-Naphthylamine	9.5	ug/L	U	9.5	38
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,4,5-Trichlorophenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57

10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,6-Dichlorophenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Acetylaminofluorene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Methylnaphthalene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Naphthylamine	9.5	ug/L	U	9.5	38
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Nitroaniline	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	2-Picoline	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	76
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	3-Methylcholanthrene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	3-Nitroaniline	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4-Chloroaniline	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4-Nitroaniline	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	5-Nitro-o-toluidine	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Acetophenone	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Aniline	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Azobenzene/1,2-Diphenylhydrazi	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Benzidine	95	ug/L	U	95	380
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8

10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Benzyl alcohol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Dibenzofuran	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Dimethylaminoazobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Ethyl methanesulfonate	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8

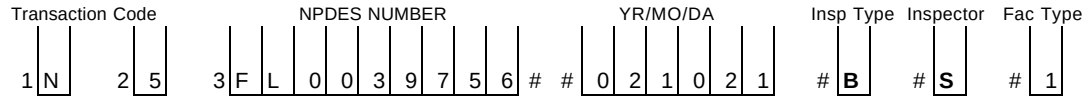
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Isosafrole	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Methyl methanesulfonate	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosodi-n-butylamine	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosodiethylamine	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosomorpholine	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosopiperidine	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	76
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Pentachlorobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Pentachloronitrobenzene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	Safrole	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.6
10/21/2002 13:45	FINAL EFFLUENT (13-16)	BNA-Water	o-Toluidine	0.95	ug/L	U	0.95	3.8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Bio-Toxicology	Bioassay-Acute-Def-SW-Fish, LC	100	LC50	L		
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Bio-Toxicology	Bioassay-Acute-Def-SW-Mysid, 1	No Result	LC50			
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Ametryn	0.047	ug/L	U	0.047	0.188

10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Atrazine	0.1	ug/L	I	0.047	0.188
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Azinphos Methyl	0.047	ug/L	U	0.047	0.188
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Chlorpyrifos Ethyl	0.047	ug/L	U	0.047	0.188
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Chlorpyrifos Methyl	0.094	ug/L	U	0.094	0.376
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Diazinon	0.047	ug/L	U	0.047	0.188
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Ethion	0.047	ug/L	U	0.047	0.188
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Ethoprop	0.094	ug/L	U	0.094	0.376
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Fonofos	0.094	ug/L	U	0.094	0.376
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Hexazinone	0.094	ug/L	U	0.094	0.376
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Metolachlor	0.47	ug/L	U	0.47	1.88
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Metribuzin	0.094	ug/L	U	0.094	0.376
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Naled	0.75	ug/L	U	0.75	3
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Norflurazon	0.094	ug/L	U	0.094	0.376
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Parathion Methyl	0.094	ug/L	U	0.094	0.376
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Phorate	0.047	ug/L	U	0.047	0.188
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
10/21/2002 13:45	FINAL EFFLUENT (13-16)	GC-Water	Simazine	0.047	ug/L	U	0.047	0.188
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Aluminum	43	ug/L		10	40
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Arsenic	3	ug/L	U	3	12
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Cadmium	0.052	ug/L	I	0.025	0.1
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Calcium	55.4	mg/L		0.04	0.12
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Chromium	2	ug/L	U	2	8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Copper	3.9	ug/L		0.75	3
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Iron	28	ug/L	I	7	28
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Lead	0.31	ug/L	U	0.1	0.4
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Magnesium	10.6	mg/L		0.01	0.04
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Nickel	2	ug/L	U	2	8
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Selenium	1	ug/L	U	1	4
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Metals-Water	Zinc	42.5	ug/L		2	8

10/21/2002 13:45	FINAL EFFLUENT (13-16)	Nutrients-Liquid	Ammonia-N	0.73	mg N/L	0.02	0.04
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Nutrients-Liquid	NO2NO3-N	19	mg N/L	0.08	0.2
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Nutrients-Liquid	N_KJEL_TOT	2.9	mg N/L	0.12	0.4
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Nutrients-Liquid	O-Phosphate-P	3.9	mg P/L	0.4	1
10/21/2002 13:45	FINAL EFFLUENT (13-16)	Nutrients-Liquid	Total-P	4	mg P/L	0.06	0.16

The Bioassay of Beverly Beach Wastewater Treatment Facility (Ocean City Utilities) effluent sampled on October 21, 2002, NPDES #FL0039756.

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



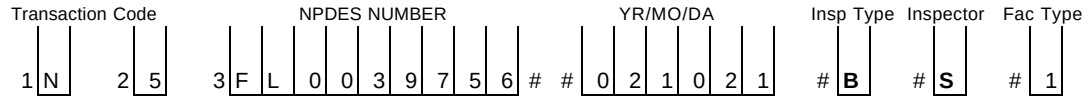
Remarks



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The Priority Pollutants Analysis for Bioassay of Beverly Beach Wastewater Treatment Facility (Ocean City Utilities) effluent sampled on October 21, 2002, NPDES #FL0039756.

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



Remarks



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