

Bioassays of

Florida Atlantic University
Sea Tech Research/Testing Facility

Dania Beach, Broward County, Florida

NPDES #FL0178870

Sampled 7/21/03

December 2003

Biology Section
Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

The Florida Atlantic University (FAU)-Sea Tech Research/Testing Facility, 101 N. Beach Road, Dania Beach, Broward County, Florida, NPDES #FL0178870, tests performed on 22 to 24 July 2003.

Introduction

This research/testing facility has a permitted maximum daily flow of 0.144 MGD and a monthly average daily flow of 0.062 MGD (average flow for November 2002). Influent is used to test the effects of saltwater on aluminum, steel, and concrete construction products. Wastewater is not treated prior to being discharged to the Class III marine waters of Whiskey Creek (Intracoastal Waterway). The facility has been monitoring the concentration of iron in their effluent at the pumps. (facility information provided by Shani Bryce, FDEP, West Palm Beach).

Methods

Samples were collected by Terry Davis 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

Americamysis bahia 48-hr acute screening bioassay – Not Toxic
Menidia beryllina 48-hr acute screening bioassay – Not Toxic

See Table 1 for bioassay bench sheets.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory.

See Table 2 for chemicals results for the effluent and influent samples.
See Table 3 for a complete list of chemical analyses performed.

Algal Growth Potential

Raschke and Shultz (1987) found that Algal Growth Potential (AGP) values above 10.0 mg dry weight/L represent a "problem" threshold for marine receiving waters, implying nutrient enrichment (personal communication with Ron Raschke USEPA Region 4 1987). The effluent AGP was 2.55 mg dry wt/L of *Dunaliella tertiolecta*. This is below the "problem" threshold.

Conclusion

The effluent sample collected from this facility on July 21, 2003, did not show acute toxicity to either test species during the 48-hour bioassay tests. The AGP test result was below the problem threshold.

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from the FAU-Sea Tech Research/Testing Facility, 101 N. Beach Road, Dania Beach, Broward County, Florida, NPDES# FL0178870, performed from 21 to 24 July 2003.

Facility:	**FAU-Sea Tech Research/Testing Facility**	**NPDES #:**	**FL0178870**	Facility Type:	**Research/Testing**	**Analysts:**	Marshall Faircloth
Location:	101 N. Beach Road, Dania Beach	Contact/District:	Terry Davis/Southeast		**Facility**		Joshua Ayres
County:	Broward	Test type:	static acute screen				James Daniels
Sample Collection Date:	7/21/2003 Time: 1115	# tests:	2	Receiving Water:	Whiskey Creek/Intracoastal Waterway		
Test Beginning Date:	7/22/2003 Time: 1415	Chlorination Type:	not chlorinated		Class III Marine		
Test Ending Date:	7/24/2003 Time: 1415	FDEP SOP#:	TA07_01 / 02		**Page 1 of 1**	**Reviewer:**	Rob Buda

Organism: ***Americamysis bahia*** Life stage: 5 days [A]Feeding: Artemia Conductivity
Chamber size: 1L Food Batch #: 01940425G Uncorrected

	Sample/Diluent	SURVIVAL # Alive			pH (standard units)			Temperature °C[B]			Diss. Oxygen mg/L			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	0/20	5	5	5	8.6	8.2	7.9	24.3	23.9	24.6	7.0	5.0	4.8	49.6	51.8
Control B	0/20	5	5	5	8.6	8.2	8.0	24.3	25.2	24.8	6.9	5.2	4.6	50.4	52.8
Control C	0/20	5	5	5	8.6	8.2	8.0	24.3	24.8	24.3	7.0	5.2	4.6	50.6	53.0
Control D	0/20	5	5	5	8.6	8.2	7.9	24.3	24.3	25.0	7.0	5.2	5.0	50.6	53.0
100% A	20/0	5	5	5	8.2	8.0	8.0	24.7	24.2	25.4	6.7	5.5	5.0	51.8	54.7
100% B	20/0	5	5	5	8.2	8.0	7.9	24.7	24.1	25.2	6.7	5.4	5.0	51.8	55.0
100% C	20/0	5	5	5	8.2	8.0	7.9	24.7	24.3	24.7	6.7	5.4	5.0	51.9	54.7
100% D	20/0	5	5	5	8.2	8.0	7.9	24.7	24.9	25.6	6.6	5.3	5.0	52.0	57.2

[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 23.5-24.5°C.
Incubator #3 temperature range for the test period was 24.5-25.0°C.

Organism: ***Menidia beryllina*** Life stage: 12 days [C]Feeding: artemia Conductivity
Chamber size: 1L Food Batch #: 01940425G Uncorrected

	Sample/Diluent	SURVIVAL # Alive			pH (standard units)			Temperature °C[D]			Diss. Oxygen mg/L			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	8.4	8.2	8.1	24.2	25.2	24.1	6.5	5.6	5.4	48.8	52.4
Control B	0/500	5	4	4	8.4	8.2	8.1	24.2	24.6	25.7	6.5	5.5	5.3	50.9	55.3
Control C	0/500	5	5	5	8.4	8.2	8.1	24.2	24.6	25.9	6.6	5.5	5.3	50.9	54.9
Control D	0/500	5	5	5	8.4	8.2	8.2	24.2	25.1	25.5	6.6	5.5	5.4	50.7	54.0
100% A	500/0	5	5	5	8.2	8.1	8.1	24.5	24.8	25.4	6.4	5.8	5.4	51.6	55.1
100% B	500/0	5	5	5	8.2	8.1	8.0	24.6	24.7	25.9	6.5	5.6	5.2	51.8	57.0
100 % C	500/0	5	5	5	8.2	8.1	8.1	24.5	24.7	25.3	6.6	5.4	5.1	51.9	54.0
100% D	500/0	5	5	5	8.2	8.1	8.1	24.5	24.0	25.5	6.8	5.4	4.9	51.7	55.4

[C] Organisms fed prior to testing.

[D] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 23.5-24.5°C.
Incubator #3 temperature range for the test period was 24.5-25.0°C.
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-2003-07-22-07
sample number:	689917

Data Transcription Verification
date: 10/24/03
by: Cathy Oaks / Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	0.01	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water (fish):	<0.068	<0.068
Control water (mysid):	<0.068	<0.068
100% Sample:	<0.068	<0.068

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water (fish):	140	-
Control water (mysid):	140	-
100% Sample:	130	-

Mortality	Percent
Control water (fish):	5%
100% (fish):	0%
Control water (mysid):	0%
100 % (mysid):	0%

Salinity[E]		
Control water (fish):	33	-
Control water (mysid):	33	-
100% Sample:	35	-

[E] Salinity based on conductivity and temperature.

Table 2. Results of chemical analyses for the effluent and the influent from the FAU-Sea Tech Research/Testing Facility sampled on July 21, 2003.

Metals

Effluent

Aluminum	39	ug/L [I]
Calcium	441	mg/L
Copper	0.57	ug/L
Magnesium	1350	mg/L

Influent

Calcium	446	mg/L
Copper	0.47	ug/L [A]
Magnesium	1350	mg/L

Pesticides and Herbicides

Effluent

None detected

Nutrients

Effluent

Ammonia	0.02	mg N/L [U]
Nitrate+Nitrite	0.011	mg N/L
Total Kjeldahl Nitrogen	0.27	mg N/L [I]
Ortho-Phosphate	0.004	mg P/L [U]
Total Phosphorus	0.034	mg P/L [I]

Base, Neutral, & Acid Extractable Organics

Effluent

None detected

[A] The reported value is an average of two or more values.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
[U] Material was analyzed for but not detected. The value reported is the minimum detection limit.

Table 3. Chemical Analyses performed on the effluent from the FAU-Sea Tech Research/Testing Facility, sampled on July 21, 2003.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/21/2003 11:15	51-FAV-1-Effluent	Bio-AGP/LimNut	Algal Growth Potential	2.55	mg DryWt/L		0.1	0.3
7/21/2003 11:15	51-FAV-1-Effluent	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
7/21/2003 11:15	51-FAV-1-Effluent	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
7/21/2003 11:15	51-FAV-1-Effluent	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
7/21/2003 11:15	51-FAV-1-Effluent	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,2,4-Trichlorobenzene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,2-Dichlorobenzene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,3,5-Trinitrobenzene	3.7	ug/L	UJ	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,3-Dichlorobenzene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,4-Dichlorobenzene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	75
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	1-Naphthylamine	9.3	ug/L	U	9.3	37
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	UJ	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,4,5-Trichlorophenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,4,6-Trichlorophenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,4-Dichlorophenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,4-Dimethylphenol	47	ug/L	U	47	190
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	56
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,4-Dinitrotoluene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,6-Dichlorophenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2,6-Dinitrotoluene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Acetylaminofluorene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Chloronaphthalene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Chlorophenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Methyl-4,6-dinitrophenol	2.8	ug/L	U	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Methylnaphthalene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Naphthylamine	9.3	ug/L	U	9.3	37
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Nitroaniline	0.93	ug/L	UJ	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Nitrophenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	2-Picoline	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	3,3'-Dichlorobenzidine	37	ug/L	U	37	150
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	75
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	3-Methylcholanthrene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	3-Nitroaniline	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4-Aminobiphenyl	3.7	ug/L	UJ	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4-Bromophenyl phenyl ether	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4-Chloro-3-methylphenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4-Chloroaniline	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4-Nitroaniline	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	4-Nitrophenol	14	ug/L	U	14	56
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	5-Nitro-o-toluidine	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Acenaphthene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Acenaphthylene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Acetophenone	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Aldrin	1.4	ug/L	UJ	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Aniline	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Anthracene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Benzidine	93	ug/L	U	93	370
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Benzo(a)anthracene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Benzo(a)pyrene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Benzo(b)fluoranthene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Benzo(g,h,i)perylene	0.93	ug/L	U	0.93	3.7

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Benzo(k)fluoranthene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Benzyl alcohol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Bis(2-chloroethoxy)methane	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Bis(2-chloroethyl)ether	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Bis(2-chloroisopropyl)ether	2.8	ug/L	U	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	56
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Butyl benzyl phthalate	4.7	ug/L	U	4.7	19
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Chrysene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Di-n-butyl phthalate	4.7	ug/L	U	4.7	19
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Di-n-octyl phthalate	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Dibenzo(a,h)anthracene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Dibenzofuran	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Dieldrin	1.4	ug/L	UJ	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Diethyl phthalate	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Dimethyl phthalate	47	ug/L	U	47	190
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Dimethylaminoazobenzene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Dinoseb	3.7	ug/L	U	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Diphenylamine	2.8	ug/L	U	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Endosulfan I	3.7	ug/L	UJ	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Endosulfan II	3.7	ug/L	U	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Endrin	1.4	ug/L	UJ	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Endrin aldehyde	3.7	ug/L	U	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Ethyl methanesulfonate	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Fluoranthene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Fluorene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Hexachlorobenzene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Hexachlorobutadiene	2.8	ug/L	UJ	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Hexachlorocyclopentadiene	2.8	ug/L	UJ	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Hexachloroethane	2.8	ug/L	U	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Hexachloropropene	1.9	ug/L	UJ	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Indeno(1,2,3-cd)pyrene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Isophorone	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Isosafrole	0.93	ug/L	UJ	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Methapyrilene	3.7	ug/L	UJ	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Methyl methanesulfonate	0.93	ug/L	UJ	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosodi-n-butylamine	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosodiethylamine	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	UJ	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosodiphenylamine	2.8	ug/L	U	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosomorpholine	0.93	ug/L	UJ	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosopiperidine	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Naphthalene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	75
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Pentachlorobenzene	0.93	ug/L	UJ	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Pentachloroethane	47	ug/L	U	47	190
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Pentachloronitrobenzene	0.93	ug/L	UJ	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Pentachlorophenol	2.8	ug/L	U	2.8	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Phenacetin	3.7	ug/L	U	3.7	11
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Phenanthrene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Phenol	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Pyrene	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Pyridine	3.7	ug/L	U	3.7	15
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	Safrole	0.93	ug/L	U	0.93	3.7

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.6
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.5
7/21/2003 11:15	51-FAV-1-Effluent	BNA-Water	o-Toluidine	0.93	ug/L	U	0.93	3.7
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Alachlor	0.56	ug/L	U	0.56	2.24
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Ametryn	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Atrazine	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Azinphos Methyl	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Chlorpyrifos Ethyl	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Chlorpyrifos Methyl	0.093	ug/L	U	0.09	0.372
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Diazinon	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Ethion	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Ethoprop	0.093	ug/L	U	0.09	0.372
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Fonofos	0.093	ug/L	U	0.09	0.372
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Hexazinone	0.093	ug/L	U	0.09	0.372
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Metalaxyl	0.23	ug/L	U	0.23	0.92
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Metolachlor	0.47	ug/L	U	0.47	1.88
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Metribuzin	0.093	ug/L	U	0.09	0.372
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Naled	0.75	ug/L	U	0.75	3
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Norflurazon	0.093	ug/L	U	0.09	0.372
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Parathion Methyl	0.093	ug/L	U	0.09	0.372
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Phorate	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
7/21/2003 11:15	51-FAV-1-Effluent	GC-Water	Simazine	0.047	ug/L	U	0.05	0.188
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Aluminum	39	ug/L	I	20	80
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Arsenic	36	ug/L	U	10	40
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Cadmium	0.25	ug/L	U	0.25	1
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Calcium	441	mg/L		1	4
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Chromium	28	ug/L	U	4	16
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Copper	0.57	ug/L		0.1	0.4
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Iron	30	ug/L	U	30	120
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Lead	0.5	ug/L	U	0.5	2
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Magnesium	1350	mg/L		0.4	1.6
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Nickel	56	ug/L	U	5	20
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Selenium	16	ug/L	U	16	64
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Silver	0.2	ug/L	U	0.2	0.8
7/21/2003 11:15	51-FAV-1-Effluent	Metals-Water	Zinc	8	ug/L	U	8	32
7/21/2003 11:15	51-FAV-1-Effluent	Nutrients-Liquid	Ammonia-N	0.02	mg N/L	U	0.02	0.04
7/21/2003 11:15	51-FAV-1-Effluent	Nutrients-Liquid	NO2NO3-N	0.011	mg N/L		0	0.01
7/21/2003 11:15	51-FAV-1-Effluent	Nutrients-Liquid	N_KJEL_TOT	0.27	mg N/L	I	0.12	0.4
7/21/2003 11:15	51-FAV-1-Effluent	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0	0.01
7/21/2003 11:15	51-FAV-1-Effluent	Nutrients-Liquid	Total-P	0.034	mg P/L	I	0.02	0.04
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Aluminum	20	ug/L	U	20	80
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Arsenic	40	ug/L	U	10	40
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Cadmium	0.25	ug/L	U	0.25	1
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Calcium	446	mg/L		1	4
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Chromium	26	ug/L	U	4	16
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Copper	0.47	ug/L	A	0.1	0.4
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Iron	30	ug/L	U	30	120
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Lead	0.5	ug/L	U	0.5	2
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Magnesium	1350	mg/L		0.4	1.6

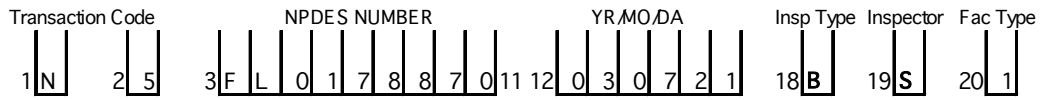
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Nickel	56	ug/L	U	5	20
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Selenium	16	ug/L	U	16	64
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Silver	0.2	ug/L	U	0.2	0.8
7/21/2003 11:25	51-FAV-3 - Influent	Metals-Water	Zinc	8	ug/L	U	8	32
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	UJ	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	78
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	1-Naphthylamine	9.7	ug/L	U	9.7	39
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	UJ	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Nitroaniline	0.97	ug/L	UJ	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	78
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4-Aminobiphenyl	3.9	ug/L	UJ	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Acetophenone	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Aldrin	1.5	ug/L	UJ	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Benzidine	97	ug/L	U	97	390
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Dieldrin	1.5	ug/L	UJ	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Diethyl phthalate	3.1	ug/L	I	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Endosulfan I	3.9	ug/L	UJ	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	UJ	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Hexachloropropene	1.9	ug/L	UJ	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Isosafrole	0.97	ug/L	UJ	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Methyl methanesulfonate	0.97	ug/L	UJ	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	UJ	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	UJ	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Pentachlorobenzene	0.97	ug/L	UJ	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Pentachloroethane	49	ug/L	U	49	190
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	UJ	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
7/21/2003 11:15	EQUIPMENT BLK	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Alachlor	0.66	ug/L	U	0.66	2.64
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Ametryn	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Atrazine	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Azinphos Methyl	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Bromacil	0.22	ug/L	U	0.22	0.88
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Butylate	0.22	ug/L	U	0.22	0.88
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Chlorpyrifos Ethyl	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Chlorpyrifos Methyl	0.11	ug/L	U	0.11	0.44
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Diazinon	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Ethion	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Ethoprop	0.11	ug/L	U	0.11	0.44
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Fenamiphos	0.22	ug/L	U	0.22	0.88
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Fonofos	0.11	ug/L	U	0.11	0.44
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Hexazinone	0.11	ug/L	U	0.11	0.44
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Malathion	0.16	ug/L	U	0.16	0.64
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Metalaxyl	0.27	ug/L	U	0.27	1.08
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Metolachlor	0.55	ug/L	U	0.55	2.2
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Metribuzin	0.11	ug/L	U	0.11	0.44
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Mevinphos	0.22	ug/L	U	0.22	0.88
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Naled	0.88	ug/L	U	0.88	3.52
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Norflurazon	0.11	ug/L	U	0.11	0.44
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Parathion Ethyl	0.16	ug/L	U	0.16	0.64
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Parathion Methyl	0.11	ug/L	U	0.11	0.44
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Phorate	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Prometryn	0.16	ug/L	U	0.16	0.64
7/21/2003 11:15	EQUIPMENT BLK	GC-Water	Simazine	0.055	ug/L	U	0.06	0.22
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Aluminum	10	ug/L	U	10	40
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Arsenic	5	ug/L	U	5	20
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Cadmium	0.025	ug/L	U	0.03	0.1
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Chromium	2	ug/L	U	2	8
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Copper	0.1	ug/L	U	0.1	0.4
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Iron	15	ug/L	U	15	60
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Nickel	2.5	ug/L	U	2.5	10
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Selenium	8	ug/L	U	8	32
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
7/21/2003 11:15	EQUIPMENT BLK	Metals-Water	Zinc	4	ug/L	U	4	16
7/21/2003 11:15	EQUIPMENT BLK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
7/21/2003 11:15	EQUIPMENT BLK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0	0.01
7/21/2003 11:15	EQUIPMENT BLK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
7/21/2003 11:15	EQUIPMENT BLK	Nutrients-Liquid	O-Phosphate-P	0.005	mg P/L	I	0	0.01
7/21/2003 11:15	EQUIPMENT BLK	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.02	0.04

The Bioassay of the FAU-Sea Tech Research/Testing Facility effluent sampled on July 21, 2003, NPDES #FL0178870.

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





The Priority Pollutants Analysis for Bioassay of the FAU-Sea Tech Research/Testing Facility effluent sampled on July 21, 2003, NPDES #FL0178870.

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

