

Bioassays of

City of Graceville WWTP

Jackson County

NPDES #FL0038555

Sampled June 24, 2003

February 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

The City of Graceville Wastewater Treatment Facility, 865 6th Street, Graceville, Jackson County, Florida, NPDES #FL0038555, tests performed on 24 to 26 June 2003.

Introduction

This advanced wastewater treatment facility (AWWTF) has a design flow of 1.1 million gallons per day (MGD) and an average daily flow of 0.503 MGD (January, 2000 – April, 2003). Treatment at this facility consists of static screens, dual sequential batch reactors, post equalization, settling, filtration, chlorination for disinfection, and dechlorination using sulfur dioxide gas before discharge into the Class III fresh waters of Holmes Creek (facility information provided by Wesley Keller, FDEP, Pensacola).

Methods

Samples were collected by Glenn Butts and Keith Butchikas 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_01 and TA07_02. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Toxicity Test Results

Tests were performed June 24-26, 2003.

Ceriodaphnia dubia 48-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 0% mortality in 100% sample at 48 hours

Cyprinella leedsi 48-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 10% mortality in 100% sample at 48 hours

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 detected in the analytical chemistry samples.
See Table 3 for a complete list of chemical analyses performed.

Algal Growth Potential

The Algal Growth Potential (AGP) result of the effluent was 17.6 mg Dry Wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The effluent AGP value was 3 times greater than this "problem" threshold.

Conclusion

The effluent sample collected from this facility on June 24, 2003, did not show acute toxicity to either test species during the 48-hour bioassay tests. The AGP result was 3 times greater than the "problem" threshold for freshwater systems, therefore the effluent could be source of nutrient enrichment in the receiving waters.

Literature Cited

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

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from the City of Graceville WWTF, 865 6th Street, Graceville, Jackson County, Florida, NPDES# FL0038555, performed from 24 to 26 June 2003.

Facility:	**The City of Graceville WWTF**		**NPDES #:**	**FL0038555**	Facility Type:	**WWTF**	**Analysts:**	Jacquelyn Champion	
Location:	865 6th Street, Graceville		Contact/District:	Butts/NW				Joshua Ayres	
County:	Jackson		Test type:	static acute screen				James Daniels	
Sample Collection Date:	6/24/2003	Time: 0910	# tests:	2	Receiving Water:	Holmes Creek		Marshall Faircloth	
Test Beginning Date:	6/24/2003	Time: 1545	Chlorination Type:	Dechlorinated		Class III Freshwater			
Test Ending Date:	6/26/2003	Time: 1410	FDEP SOP#:	TA07_01 / 02		**Page 1 of 1**	**Reviewer:**	Rob Buda	

Organism: ***Ceriodaphnia dubia*** Life stage: <24 hours [A]Feeding: YCT/Algae Chamber size: 30mL

	Sample/Diluent	SURVIVAL # Alive			pH (standard units)			Temperature °C[B]			Diss. Oxygen mg/L			Conductivity Uncorrected µmhos/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	8.1	-	8.2	23.7	-	24.3	7.7	-	7.7	181	210
Control B	0/20	5	5	5	-	-	8.2	-	-	24.0	-	-	7.7	-	215
Control C	0/20	5	5	5	-	-	8.2	-	-	24.0	-	-	7.6	-	205
Control D	0/20	5	5	5	-	-	8.2	-	-	24.1	-	-	7.7	-	205
100% A	20/0	5	5	5	7.8	-	8.0	24.3	-	24.5	7.7	-	7.6	190	210
100% B	20/0	5	5	5	-	-	8.0	-	-	24.6	-	-	7.5	-	200
100% C	20/0	5	5	5	-	-	8.0	-	-	24.5	-	-	7.3	-	200
100% D	20/0	5	5	5	-	-	8.0	-	-	24.2	-	-	7.3	-	195

[A] Organisms fed prior to testing.

[B] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 23.5-25.0°C.
Incubator #3 temperature range for the test period was 25.5-26.5°C.

Organism: ***Cyprinella leedsi*** Life stage: 12 days [C]Feeding: artemia Chamber size: 1L Food Batch #: 01940425G

	Sample/Diluent	SURVIVAL # Alive			pH (standard units)			Temperature °C[D]			Diss. Oxygen mg/L			Conductivity Uncorrected µmhos/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	6.9	8.2	8.4	24.1	23.7	25.0	7.7	6.4	7.3	267	310
Control B	0/500	5	5	5	7.0	8.2	8.4	24.1	23.8	25.4	7.9	6.7	7.2	259	300
Control C	0/500	5	5	5	7.1	8.2	8.4	24.0	23.8	25.0	8.0	6.9	7.3	262	295
Control D	0/500	5	5	5	7.2	8.2	8.4	24.1	23.7	25.2	8.1	7.4	7.4	259	300
100% A	500/0	5	5	5	7.4	7.9	7.7	24.5	23.6	24.9	8.2	7.0	6.4	204	245
100% B	500/0	5	5	3	7.4	7.9	7.7	24.8	23.6	25.8	8.0	7.1	6.5	190	240
100 % C	500/0	5	5	5	7.4	7.9	7.7	24.9	23.7	25.5	7.8	7.2	5.9	192	225
100% D	500/0	5	5	5	7.4	7.9	7.7	24.9	23.7	25.1	7.9	7.1	6.0	189	220

[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 23.5-25.0°C.
Incubator #3 temperature range for the test period was 25.5-26.5°C.

LIMS	
Job number:	TLH-2003-06-24-46
sample number:	683488

Data Transcription Verification
date: 9/11/03
by: Kathy Oaks / Brad Richardson

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

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

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water (fish):	139	136
Control water (water flea):	78	80
100% Sample:	75	68

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

Table 2. Results of chemical analyses on the effluent from the City of Graceville Advanced Wastewater Treatment Facility sampled on June 24, 2003.

Metals

Aluminum	43	ug/L	
Calcium	18.2	mg/L	
Iron	119	ug/L	
Lead	0.39	ug/L	I
Magnesium	4.5	mg/L	
Nickel	3.3	ug/L	I
Silver	0.029	ug/L	I
Zinc	10	ug/L	I

Pesticides and Herbicides

None detected

Nutrients

Ammonia	0.11	mg N/L	A
Nitrates and Nitrites	0.29	mg N/L	
Total Kjeldahl Nitrogen	0.37	mg N/L	
Ortho-Phosphates	0.14	mg P/L	
Total-Phosphorous	0.18	mg P/L	

Base, Neutral, & Acid Extractable Organics

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.

Table 3. Chemical Analyses performed on the effluent from City of Graceville Advanced Wastewater Treatment Facility, sampled on June 24, 2003.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/24/2003 10:10	# 1	Bio-AGP/LimNut	Algal Growth Potential	17.6	mg DryWt/L	A	0.1	0.3
6/24/2003 10:10	# 1	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
6/24/2003 10:10	# 1	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
6/24/2003 10:10	# 1	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
6/24/2003 10:10	# 1	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
6/24/2003 10:10	# 1	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	1,2,4-Trichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	1,2-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
6/24/2003 10:10	# 1	BNA-Water	1,3-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	1,3-Dinitrobenzene	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	1,4-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	1,4-Naphthoquinone	20	ug/L	UJ	20	78
6/24/2003 10:10	# 1	BNA-Water	1-Naphthylamine	9.8	ug/L	U	9.8	39
6/24/2003 10:10	# 1	BNA-Water	2,3,4,6-Tetrachlorophenol	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	2,4,5-Trichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2,4,6-Trichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2,4-Dichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	200
6/24/2003 10:10	# 1	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
6/24/2003 10:10	# 1	BNA-Water	2,4-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2,6-Dichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2,6-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2-Acetylaminofluorene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2-Chloronaphthalene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2-Chlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	2-Methylnaphthalene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2-Naphthylamine	9.8	ug/L	U	9.8	39
6/24/2003 10:10	# 1	BNA-Water	2-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2-Nitrophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	2-Picoline	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
6/24/2003 10:10	# 1	BNA-Water	3,3'-Dimethylbenzidine	20	ug/L	UJ	20	78
6/24/2003 10:10	# 1	BNA-Water	3-Methylcholanthrene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	3-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
6/24/2003 10:10	# 1	BNA-Water	4-Bromophenyl phenyl ether	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	4-Chloro-3-methylphenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	4-Chloroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	4-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
6/24/2003 10:10	# 1	BNA-Water	5-Nitro-o-toluidine	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Acenaphthene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Acenaphthylene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Acetophenone	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	Aniline	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Benzidine	98	ug/L	U	98	390
6/24/2003 10:10	# 1	BNA-Water	Benzo(a)anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Benzo(a)pyrene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Benzo(b)fluoranthene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Benzo(g,h,i)perylene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Benzo(k)fluoranthene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Benzyl alcohol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Bis(2-chloroethoxy)methane	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Bis(2-chloroethyl)ether	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/24/2003 10:10	# 1	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	20
6/24/2003 10:10	# 1	BNA-Water	Chrysene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	20
6/24/2003 10:10	# 1	BNA-Water	Di-n-octyl phthalate	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Dibenzo(a,h)anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Dibenzofuran	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	Diethyl phthalate	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	200
6/24/2003 10:10	# 1	BNA-Water	Dimethylaminoazobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
6/24/2003 10:10	# 1	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
6/24/2003 10:10	# 1	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
6/24/2003 10:10	# 1	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
6/24/2003 10:10	# 1	BNA-Water	Ethyl methanesulfonate	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Fluoranthene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Fluorene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	Hexachlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	Hexachloropropene	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	Indeno(1,2,3-cd)pyrene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Isophorone	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Isosafrole	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
6/24/2003 10:10	# 1	BNA-Water	Methyl methanesulfonate	0.98	ug/L	UJ	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosodi-n-butylamine	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosodiethylamine	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosomethylethylamine	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosomorpholine	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosopiperidine	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	N-Nitrosopyrrolidine	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	Naphthalene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	Nitroquinoline-1-oxide	20	ug/L	U	20	78
6/24/2003 10:10	# 1	BNA-Water	Pentachlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Pentachloroethane	49	ug/L	U	49	200
6/24/2003 10:10	# 1	BNA-Water	Pentachloronitrobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
6/24/2003 10:10	# 1	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
6/24/2003 10:10	# 1	BNA-Water	Phenanthrene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Phenol	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Pyrene	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
6/24/2003 10:10	# 1	BNA-Water	Safrole	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 10:10	# 1	BNA-Water	m,p-Cresols	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	o-Cresol	2	ug/L	U	2	7.8
6/24/2003 10:10	# 1	BNA-Water	o-Toluidine	0.98	ug/L	U	0.98	3.9
6/24/2003 10:10	# 1	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
6/24/2003 10:10	# 1	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
6/24/2003 10:10	# 1	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
6/24/2003 10:10	# 1	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.384

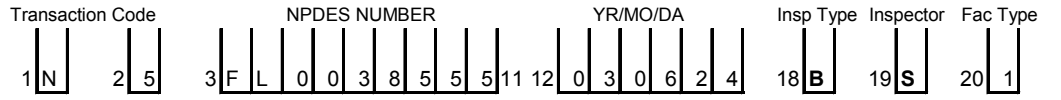
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/24/2003 10:10	# 1	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.384
6/24/2003 10:10	# 1	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
6/24/2003 10:10	# 1	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.384
6/24/2003 10:10	# 1	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.384
6/24/2003 10:10	# 1	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
6/24/2003 10:10	# 1	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
6/24/2003 10:10	# 1	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
6/24/2003 10:10	# 1	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.384
6/24/2003 10:10	# 1	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
6/24/2003 10:10	# 1	GC-Water	Naled	0.77	ug/L	U	0.77	3.08
6/24/2003 10:10	# 1	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.384
6/24/2003 10:10	# 1	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
6/24/2003 10:10	# 1	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.384
6/24/2003 10:10	# 1	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
6/24/2003 10:10	# 1	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
6/24/2003 10:10	# 1	Metals-Water	Aluminum	43	ug/L		10	40
6/24/2003 10:10	# 1	Metals-Water	Arsenic	5	ug/L	U	5	20
6/24/2003 10:10	# 1	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
6/24/2003 10:10	# 1	Metals-Water	Calcium	18.2	mg/L		0.05	0.2
6/24/2003 10:10	# 1	Metals-Water	Chromium	2	ug/L	U	2	8
6/24/2003 10:10	# 1	Metals-Water	Copper	3	ug/L	U	0.8	3.2
6/24/2003 10:10	# 1	Metals-Water	Iron	119	ug/L		15	60
6/24/2003 10:10	# 1	Metals-Water	Lead	0.39	ug/L	I	0.1	0.4
6/24/2003 10:10	# 1	Metals-Water	Magnesium	4.5	mg/L		0.02	0.08
6/24/2003 10:10	# 1	Metals-Water	Nickel	3.3	ug/L	I	2.5	10
6/24/2003 10:10	# 1	Metals-Water	Selenium	1	ug/L	U	1	4
6/24/2003 10:10	# 1	Metals-Water	Silver	0.029	ug/L	I	0.02	0.08
6/24/2003 10:10	# 1	Metals-Water	Zinc	10	ug/L	I	4	16
6/24/2003 10:10	# 1	Nutrients-Liquid	Ammonia-N	0.11	mg N/L	A	0.01	0.02
6/24/2003 10:10	# 1	Nutrients-Liquid	NO2NO3-N	0.29	mg N/L		0.004	0.01
6/24/2003 10:10	# 1	Nutrients-Liquid	N_KJEL_TOT	0.37	mg N/L		0.06	0.2
6/24/2003 10:10	# 1	Nutrients-Liquid	O-Phosphate-P	0.14	mg P/L		0.004	0.01
6/24/2003 10:10	# 1	Nutrients-Liquid	Total-P	0.18	mg P/L		0.015	0.04
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,2,4-Trichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,2-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,3-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,3-Dinitrobenzene	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,4-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1,4-Naphthoquinone	20	ug/L	UJ	20	78
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	1-Naphthylamine	9.8	ug/L	U	9.8	39
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,3,4,6-Tetrachlorophenol	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,4,5-Trichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,4,6-Trichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,4-Dichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	200
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,4-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,6-Dichlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2,6-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Acetylaminofluorene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Chloronaphthalene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Chlorophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Methylnaphthalene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Naphthylamine	9.8	ug/L	U	9.8	39
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Nitrophenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	2-Picoline	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	3,3'-Dimethylbenzidine	20	ug/L	UJ	20	78
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	3-Methylcholanthrene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	3-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4-Bromophenyl phenyl ether	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4-Chloro-3-methylphenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4-Chloroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4-Nitroaniline	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	5-Nitro-o-toluidine	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Acenaphthene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Acenaphthylene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Acetophenone	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Aniline	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Benzidine	98	ug/L	U	98	390
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Benzo(a)anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Benzo(a)pyrene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Benzo(b)fluoranthene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Benzo(g,h,i)perylene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Benzo(k)fluoranthene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Benzyl alcohol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethoxy)methane	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Bis(2-chloroethyl)ether	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	20
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Chrysene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	20
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Di-n-octyl phthalate	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Dibenzo(a,h)anthracene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Dibenzofuran	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Diethyl phthalate	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	200
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Dimethylaminoazobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Ethyl methanesulfonate	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Fluoranthene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Fluorene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Hexachlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Hexachloropropene	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Isophorone	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Isosafrole	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Methyl methanesulfonate	0.98	ug/L	UJ	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-butylamine	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosodiethylamine	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosomethylethylamine	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosomorpholine	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosopiperidine	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	N-Nitrosopyrrolidine	2	ug/L	U	2	7.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Naphthalene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Nitroquinoline-1-oxide	20	ug/L	U	20	78
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Pentachlorobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Pentachloroethane	49	ug/L	U	49	200
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Pentachloronitrobenzene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Phenanthrene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Phenol	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Pyrene	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	Safrole	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	m,p-Cresols	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	o-Cresol	2	ug/L	U	2	7.8
6/24/2003 6:45	EQUIPMENT BLK	BNA-Water	o-Toluidine	0.98	ug/L	U	0.98	3.9
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Alachlor	0.56	ug/L	U	0.56	2.24
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Ametryn	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Atrazine	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Azinphos Methyl	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Chlorpyrifos Ethyl	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Chlorpyrifos Methyl	0.093	ug/L	U	0.093	0.372
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Diazinon	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Ethion	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Ethoprop	0.093	ug/L	U	0.093	0.372
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Fonofos	0.093	ug/L	U	0.093	0.372
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Hexazinone	0.093	ug/L	U	0.093	0.372
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Metalaxyl	0.23	ug/L	U	0.23	0.92
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Metolachlor	0.47	ug/L	U	0.47	1.88
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Metribuzin	0.093	ug/L	U	0.093	0.372
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Naled	0.75	ug/L	U	0.75	3
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Norflurazon	0.093	ug/L	U	0.093	0.372
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Parathion Methyl	0.093	ug/L	U	0.093	0.372
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Phorate	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
6/24/2003 6:45	EQUIPMENT BLK	GC-Water	Simazine	0.047	ug/L	U	0.047	0.188
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Aluminum	34	ug/L	I	10	40
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Arsenic	5	ug/L	U	5	20
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Calcium	0.064	mg/L	I	0.05	0.2
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Chromium	2	ug/L	U	2	8
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Copper	3	ug/L	U	0.8	3.2
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Iron	38	ug/L	I	15	60
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Lead	0.1	ug/L	U	0.1	0.4
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Nickel	4.7	ug/L	I	2.5	10
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Selenium	1	ug/L	U	1	4
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
6/24/2003 6:45	EQUIPMENT BLK	Metals-Water	Zinc	4	ug/L	U	4	16
6/24/2003 6:45	EQUIPMENT BLK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
6/24/2003 6:45	EQUIPMENT BLK	Nutrients-Liquid	NO2NO3-N	0.005	mg N/L	I	0.004	0.01
6/24/2003 6:45	EQUIPMENT BLK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
6/24/2003 6:45	EQUIPMENT BLK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
6/24/2003 6:45	EQUIPMENT BLK	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.015	0.04

The Bioassay of The City of Graceville WWTF effluent sampled on June 24, 2003, NPDES #FL0038555.

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



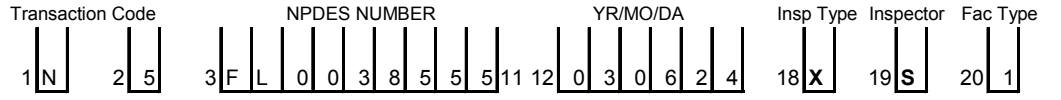
Remarks



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The Priority Pollutants Analysis for Bioassay of The City of Graceville WWTF effluent sampled on June 24, 2003, NPDES #FL0038555.

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



Remarks



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