

Bioassays of

Noma Wastewater Treatment Plant

Noma, Holmes County, Florida

NPDES #FL0040207

Sampled 12/9/02

March 2003

Biology Section

Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

Bioassays of

Noma Wastewater Treatment Plant

Noma, Holmes County, Florida

NPDES #FL0040207

Biology Section
Bureau of Laboratories
March 2003

Noma WWTP, Country Road 175, Noma, Holmes County, Florida, NPDES #FL0040207, tests performed on 10 to 12 December 2002.

Introduction

This WWTP has a design flow of 0.025MGD and an average daily flow of 0.013MGD (January, 2000- March, 2002). Wastewater treatment at this facility consists of equalization, extended aeration, a mudwell, digestion of residuals, clarification, filtration, hypochlorite disinfection, and dechlorination. After digestion, wastewater residuals are transported to the City of Bonifay WWTF for further treatment, while the wastewater is discharged to the Class III fresh waters of Wrights Creek (facility information provided by Wesley Keller, FDEP, Pensacola).

Methods

Samples were collected by Glenn Butts 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

Ceriodaphnia dubia 48-hr acute screen – Toxic (100% mortality)
Ceriodaphnia dubia 48-hr acute screen – dechlorinated effluent - Not Toxic
Cyprinella leedsi 48-hr acute screen – Toxic (100% mortality)
Cyprinella leedsi 48-hr acute screen – dechlorinated effluent - Not Toxic

See Table 1 for bioassay bench sheets.

Chemistry Results

Total residual chlorine was detected in the bioassay sample in the laboratory at a concentration of 2.42 mg/L. Total ammonia and unionized ammonia were detected in the bioassay sample in the laboratory at concentrations of 2.39 mg/L and 0.094 mg/L, respectively.

See Table 2 for chemicals detected in the analytical chemistry samples.
See Table 3 for a complete list of chemical analyses performed.

Conclusion

The sample of effluent collected from this facility on December 9, 2002, was acutely toxic to both test species during the 48-hour bioassay tests. The cause of toxicity in the sample is attributed primarily to the total residual chlorine concentration; however, unidentified constituents in the sample may have also contributed to the observed mortality.

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from Noma WWTP, County Road 175, Noma, Holmes County, Florida, NPDES# FL0040207, performed from 10 to 12 December 2002.

Facility:	**Noma WWTP**		**NPDES #:**	**FL0040207**	Facility Type: **WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	Country Road 175, Noma		Contact/District:	Butts/NW			Joshua Ayres
County:	Holmes		Test type:	static acute screen			James Daniels
Sample Collection Date:	12/9/2002 Time: 1100		# tests:	2	Receiving Water: Wrights Creek		Marshall Faircloth
Test Beginning Date:	12/10/2002 Time: 1500		Chlorination Type:	dechlorinated	Class III fresh		Christa Pierini
Test Ending Date:	12/12/2002 Time: 1400				**Page 1 of 2**	**Reviewer:**	David Whiting

Organism: ***Ceriodaphnia dubia*** Life stage: <24 hours

	Sample/Diluent	SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			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	8.2	-	8.1	24.1	-	24.4	6.9	-	7.8	173	190
Control B	0/20	5	5	5	-	-	8.2	-	-	24.3	-	-	7.8	-	190
Control C	0/20	5	5	5	-	-	8.2	-	-	24.1	-	-	7.9	-	200
Control D	0/20	5	5	5	-	-	8.2	-	-	23.7	-	-	7.9	-	220
Dechlor Cntl A	0/20	5	5	5	8.2	-	8.2	23.7	-	24.4	6.9	-	7.8	185	205
Dechlor Cntl B	0/20	5	5	5	-	-	8.1	-	-	24.2	-	-	7.8	-	210
Dechlor Cntl C	0/20	5	5	5	-	-	8.1	-	-	24.1	-	-	7.8	-	220
Dechlor Cntl D	0/20	5	5	5	-	-	8.1	-	-	23.6	-	-	7.8	-	240
[C]100% Dechlor A	20/0	5	5	5	8.0	-	8.4	23.7	-	24.3	6.8	-	7.9	412	420
100% Dechlor B	20/0	5	5	5	-	-	8.4	-	-	24.2	-	-	7.8	-	450
100% Dechlor C	20/0	5	5	5	-	-	8.4	-	-	24.0	-	-	7.9	-	460
100% Dechlor D	20/0	5	5	5	-	-	8.4	-	-	23.6	-	-	7.9	-	490
[B]100% A	20/0	5	0	-	7.8	-	-	24.0	-	-	6.9	-	-	408	-
100% B	20/0	5	0	-	-	-	-	-	-	-	-	-	-	-	-
100% C	20/0	5	0	-	-	-	-	-	-	-	-	-	-	-	-
100% D	20/0	5	0	-	-	-	-	-	-	-	-	-	-	-	-

[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.

[B] All organisms in the 100% sample test replicates were dead within 10 minutes of loading.

[C] Sample was dechlorinated using 2.7 mL of 0.025N sodium thiosulfate per liter of sample.

LIMS	
Job number:	TLH-2002-12-10-01
sample number:	642017

Data Transcription Verification	
date:	2/3/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	2.42	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water (water flea):	<0.017	<0.017
100% Sample:	2.39	0.094

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water (water flea):	75	88
100% Sample:	129	100

Continued

Table 1. Concluded

Data recorded during the 48-hour acute screening bioassays of a sample of effluent from Noma WWTP, Country Road 175, Noma, Holmes County, Florida, NPDES# FL0040207, performed from 10 to 12 December 2002.

Facility:	**Noma WWTP**	**NPDES #:**	**FL0040207**	Facility Type:	**WWTP**	**Analysts:**	Jacquelyn Brynda
Location:	Country Road 175, Noma	Contact/District:	Butts/NW				Joshua Ayres
County:	Holmes	Test type:	static acute screen				James Daniels
Sample Collection Date:	12/9/2002 Time: 1100	# tests:	2	Receiving Water:	Wrights Creek		Marshall Faircloth
Test Beginning Date:	12/10/2002 Time: 1500	Chlorination Type:	dechlorinated		Class III fresh		Christa Pierini
Test Ending Date:	12/12/2002 Time: 1400				**Page 2 of 2**	**Reviewer:**	David Whiting

Organism: ***Cyprinella leedsi*** Life stage: 13 days

	Sample/Diluent	**SURVIVAL # Alive**			pH			Temperature[A]			Dissolved Oxygen			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	8.0	8.2	8.5	24.1	23.9	24.4	7.7	7.9	7.6	265	280
Control B	0/500	5	5	5	8.0	8.2	8.5	24.1	23.7	24.7	7.6	7.8	7.6	264	280
Control C	0/500	5	5	5	8.0	8.3	8.5	23.8	23.9	24.6	7.9	7.5	7.7	260	280
Control D	0/500	5	5	5	8.0	8.3	8.5	23.6	24.1	24.6	8.1	7.5	7.6	263	280
Dechlor Cntl A	0/500	5	5	5	8.0	8.3	8.4	23.3	24.2	24.6	8.2	7.8	7.8	264	285
Dechlor Cntl B	0/500	5	5	5	8.0	8.3	8.4	23.1	24.7	24.8	8.1	7.7	7.7	265	290
Dechlor Cntl C	0/500	5	5	5	8.0	8.3	8.4	22.6	24.3	24.5	8.2	7.6	7.6	264	290
Dechlor Cntl D	0/500	5	5	5	8.0	8.3	8.4	22.5	23.9	24.6	8.3	7.6	7.6	263	295
[C]100% Dechlor A	500/0	5	5	5	7.9	8.2	8.1	24.0	24.5	24.4	8.2	7.5	7.5	415	435
100% Dechlor B	500/0	5	5	5	7.9	8.2	8.1	23.9	24.4	24.2	7.8	7.5	7.3	428	445
100% Dechlor C	500/0	5	5	5	7.9	8.2	8.1	23.6	24.5	24.6	7.8	7.4	7.0	429	450
100% Dechlor D	500/0	5	5	4	7.9	8.2	8.1	23.5	24.1	24.5	7.8	7.4	6.9	422	450
[B]100% A	500/0	5	0	-	7.7	-	-	24.0	-	-	7.7	-	-	409	-
100% B	500/0	5	0	-	7.7	-	-	24.1	-	-	7.6	-	-	407	-
100% C	500/0	5	0	-	7.7	-	-	23.7	-	-	7.6	-	-	408	-
100% D	500/0	5	0	-	7.7	-	-	23.6	-	-	7.6	-	-	403	-

[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.

[B] All organisms in the 100% sample test replicates were dead within 10 minutes of loading.

[C] Sample was dechlorinated using 2.7 mL of 0.025N sodium thiosulfate per liter of sample.

LIMS	
Job number:	TLH-2002-12-10-22
sample number:	642017

Data Transcription Verification	
date:	2/3/2003
by:	Cathy Oaks
	Brad Richardson

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	2.42	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water:	<0.017	<0.017
100% Sample:	2.39	0.094

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	136	132
100% Sample:	129	100

Table 2. Results of chemical analyses on the effluent from Noma WWTP sampled on December 9, 2002.

Metals

Aluminum	68	ug/L	
Calcium	31.8	mg/L	
Copper	2.3	ug/L	I
Iron	39	ug/L	
Lead	0.26	ug/L	I
Magnesium	6.7	mg/L	
Zinc	20.9	ug/L	J

Pesticides and Herbicides

None detected

Nutrients

Ammonia-N	2.8	mg N/L
Nitrates and Nitrites	0.14	mg N/L
Total Kjeldahl Nitrogen	3.6	mg N/L
Ortho-Phosphate	1.8	mg P/L
Total Phosphorous	1.8	mg P/L

Base, Neutral, & Acid Extractable Organics

None detected

[J] The reported value is an estimated value.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 3. Chemical Analysis performed on the effluent from Noma WWTP, sampled on December 9, 2002.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
12/9/2002 11:00	#1	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
12/9/2002 11:00	#1	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00	#1	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	76
12/9/2002 11:00	#1	BNA-Water	1-Naphthylamine	9.5	ug/L	U	9.5	38
12/9/2002 11:00	#1	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00	#1	BNA-Water	2,4,5-Trichlorophenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
12/9/2002 11:00	#1	BNA-Water	2,4-Dinitrophenol	14	ug/L	UJ	14	57
12/9/2002 11:00	#1	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2,6-Dichlorophenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2-Acetylaminofluorene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
12/9/2002 11:00	#1	BNA-Water	2-Methylnaphthalene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2-Naphthylamine	9.5	ug/L	U	9.5	38
12/9/2002 11:00	#1	BNA-Water	2-Nitroaniline	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	2-Picoline	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
12/9/2002 11:00	#1	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	76
12/9/2002 11:00	#1	BNA-Water	3-Methylcholanthrene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	3-Nitroaniline	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00	#1	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00	#1	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7

12/9/2002 11:00 #1	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
12/9/2002 11:00 #1	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	4-Chloroaniline	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	4-Nitroaniline	0.95	ug/L	UJ	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
12/9/2002 11:00 #1	BNA-Water	5-Nitro-o-toluidine	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Acetophenone	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	Aniline	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Benzidine	95	ug/L	UJ	95	380
12/9/2002 11:00 #1	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Benzyl alcohol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
12/9/2002 11:00 #1	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
12/9/2002 11:00 #1	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
12/9/2002 11:00 #1	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
12/9/2002 11:00 #1	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Dibenzofuran	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190

12/9/2002 11:00 #1	BNA-Water	Dimethylaminoazobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
12/9/2002 11:00 #1	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	11
12/9/2002 11:00 #1	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
12/9/2002 11:00 #1	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
12/9/2002 11:00 #1	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
12/9/2002 11:00 #1	BNA-Water	Ethyl methanesulfonate	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
12/9/2002 11:00 #1	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
12/9/2002 11:00 #1	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
12/9/2002 11:00 #1	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Isosafrole	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
12/9/2002 11:00 #1	BNA-Water	Methyl methanesulfonate	0.95	ug/L	UJ	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	N-Nitrosodi-n-butylamine	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	N-Nitrosodiethylamine	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
12/9/2002 11:00 #1	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	N-Nitrosomorpholine	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	N-Nitrosopiperidine	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	76
12/9/2002 11:00 #1	BNA-Water	Pentachlorobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Pentachloroethane	48	ug/L	U	48	190

12/9/2002 11:00 #1	BNA-Water	Pentachloronitrobenzene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
12/9/2002 11:00 #1	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
12/9/2002 11:00 #1	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	Pyridine	3.8	ug/L	UJ	3.8	15
12/9/2002 11:00 #1	BNA-Water	Safrole	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
12/9/2002 11:00 #1	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.6
12/9/2002 11:00 #1	BNA-Water	o-Toluidine	0.95	ug/L	U	0.95	3.8
12/9/2002 11:00 #1	Bio-AGP/LimNut	Algal Growth Potential	0.1	mg DryWt/I	U	0.1	0.3
12/9/2002 11:00 #1	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC5	100	LC50	K		
12/9/2002 11:00 #1	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	K		
12/9/2002 11:00 #1	Bio-Toxicology	Bioassay-Acute-Scrn-FW-Fish,LC50-decl	100	LC50	L		
12/9/2002 11:00 #1	Bio-Toxicology	Bioassy-Acute-Scrn-FW-Cdubia,LC50-de	100	LC50	L		
12/9/2002 11:00 #1	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
12/9/2002 11:00 #1	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00 #1	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00 #1	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00 #1	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
12/9/2002 11:00 #1	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
12/9/2002 11:00 #1	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00 #1	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
12/9/2002 11:00 #1	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00 #1	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00 #1	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
12/9/2002 11:00 #1	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
12/9/2002 11:00 #1	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
12/9/2002 11:00 #1	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
12/9/2002 11:00 #1	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
12/9/2002 11:00 #1	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
12/9/2002 11:00 #1	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92

12/9/2002 11:00	#1	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
12/9/2002 11:00	#1	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
12/9/2002 11:00	#1	GC-Water	Naled	0.76	ug/L	U	0.76	3.04
12/9/2002 11:00	#1	GC-Water	Norflurazon	0.095	ug/L	U	0.095	0.38
12/9/2002 11:00	#1	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
12/9/2002 11:00	#1	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
12/9/2002 11:00	#1	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00	#1	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
12/9/2002 11:00	#1	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
12/9/2002 11:00	#1	Metals-Water	Aluminum	68	ug/L		10	40
12/9/2002 11:00	#1	Metals-Water	Arsenic	3	ug/L	U	3	12
12/9/2002 11:00	#1	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
12/9/2002 11:00	#1	Metals-Water	Calcium	31.8	mg/L		0.04	0.12
12/9/2002 11:00	#1	Metals-Water	Chromium	2	ug/L	U	2	8
12/9/2002 11:00	#1	Metals-Water	Copper	2.3	ug/L	I	0.75	3
12/9/2002 11:00	#1	Metals-Water	Iron	62	ug/L		7	28
12/9/2002 11:00	#1	Metals-Water	Lead	0.26	ug/L	I	0.1	0.4
12/9/2002 11:00	#1	Metals-Water	Magnesium	6.7	mg/L		0.01	0.04
12/9/2002 11:00	#1	Metals-Water	Nickel	3	ug/L	U	2	8
12/9/2002 11:00	#1	Metals-Water	Selenium	1	ug/L	U	1	4
12/9/2002 11:00	#1	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
12/9/2002 11:00	#1	Metals-Water	Zinc	20.9	ug/L	J	2	8
12/9/2002 11:00	#1	Nutrients-Liquid	Ammonia-N	2.8	mg N/L		0.2	0.4
12/9/2002 11:00	#1	Nutrients-Liquid	NO2NO3-N	0.14	mg N/L		0.004	0.01
12/9/2002 11:00	#1	Nutrients-Liquid	N_KJEL_TOT	3.6	mg N/L		0.06	0.2
12/9/2002 11:00	#1	Nutrients-Liquid	O-Phosphate-P	1.8	mg P/L		0.08	0.2
12/9/2002 11:00	#1	Nutrients-Liquid	Total-P	1.8	mg P/L		0.075	0.2
12/9/2002 6:50	BLANKS	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	77
12/9/2002 6:50	BLANKS	BNA-Water	1-Naphthylamine	9.6	ug/L	U	9.6	38
12/9/2002 6:50	BLANKS	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.7

12/9/2002 6:50	BLANKS	BNA-Water	2,4,5-Trichlorophenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
12/9/2002 6:50	BLANKS	BNA-Water	2,4-Dinitrophenol	14	ug/L	UJ	14	58
12/9/2002 6:50	BLANKS	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2,6-Dichlorophenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2-Acetylaminofluorene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	2-Methylnaphthalene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2-Naphthylamine	9.6	ug/L	U	9.6	38
12/9/2002 6:50	BLANKS	BNA-Water	2-Nitroaniline	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	2-Picoline	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
12/9/2002 6:50	BLANKS	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	77
12/9/2002 6:50	BLANKS	BNA-Water	3-Methylcholanthrene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	3-Nitroaniline	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	4-Chloroaniline	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	4-Nitroaniline	0.96	ug/L	UJ	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
12/9/2002 6:50	BLANKS	BNA-Water	5-Nitro-o-toluidine	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Acetophenone	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8

12/9/2002 6:50	BLANKS	BNA-Water	Aniline	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Benzidine	96	ug/L	UJ	96	380
12/9/2002 6:50	BLANKS	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Benzyl alcohol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
12/9/2002 6:50	BLANKS	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
12/9/2002 6:50	BLANKS	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
12/9/2002 6:50	BLANKS	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Dibenzofuran	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
12/9/2002 6:50	BLANKS	BNA-Water	Dimethylaminoazobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	Ethyl methanesulfonate	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8

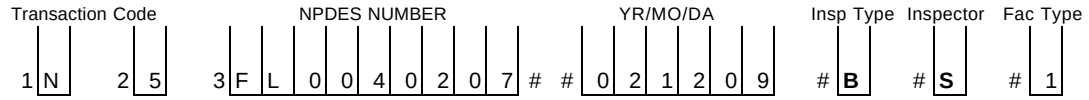
12/9/2002 6:50	BLANKS	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Isosafrole	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	Methyl methanesulfonate	0.96	ug/L	UJ	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosodi-n-butylamine	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosodiethylamine	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosomorpholine	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosopiperidine	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	77
12/9/2002 6:50	BLANKS	BNA-Water	Pentachlorobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
12/9/2002 6:50	BLANKS	BNA-Water	Pentachloronitrobenzene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
12/9/2002 6:50	BLANKS	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	12
12/9/2002 6:50	BLANKS	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	Pyridine	3.8	ug/L	UJ	3.8	15
12/9/2002 6:50	BLANKS	BNA-Water	Safrole	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
12/9/2002 6:50	BLANKS	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.7
12/9/2002 6:50	BLANKS	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.7

12/9/2002 6:50	BLANKS	BNA-Water	o-Toluidine	0.96	ug/L	U	0.96	3.8
12/9/2002 6:50	BLANKS	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
12/9/2002 6:50	BLANKS	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
12/9/2002 6:50	BLANKS	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
12/9/2002 6:50	BLANKS	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.384
12/9/2002 6:50	BLANKS	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.384
12/9/2002 6:50	BLANKS	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
12/9/2002 6:50	BLANKS	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.384
12/9/2002 6:50	BLANKS	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.384
12/9/2002 6:50	BLANKS	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
12/9/2002 6:50	BLANKS	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
12/9/2002 6:50	BLANKS	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
12/9/2002 6:50	BLANKS	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.384
12/9/2002 6:50	BLANKS	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
12/9/2002 6:50	BLANKS	GC-Water	Naled	0.77	ug/L	U	0.77	3.08
12/9/2002 6:50	BLANKS	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.384
12/9/2002 6:50	BLANKS	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
12/9/2002 6:50	BLANKS	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.384
12/9/2002 6:50	BLANKS	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
12/9/2002 6:50	BLANKS	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
12/9/2002 6:50	BLANKS	Metals-Water	Aluminum	10	ug/L	U	10	40
12/9/2002 6:50	BLANKS	Metals-Water	Arsenic	3	ug/L	U	3	12
12/9/2002 6:50	BLANKS	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
12/9/2002 6:50	BLANKS	Metals-Water	Calcium	0.04	mg/L	U	0.04	0.12
12/9/2002 6:50	BLANKS	Metals-Water	Chromium	2	ug/L	U	2	8
12/9/2002 6:50	BLANKS	Metals-Water	Copper	2.2	ug/L	U	0.75	3
12/9/2002 6:50	BLANKS	Metals-Water	Iron	23	ug/L	I	7	28
12/9/2002 6:50	BLANKS	Metals-Water	Lead	0.1	ug/L	U	0.1	0.4
12/9/2002 6:50	BLANKS	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
12/9/2002 6:50	BLANKS	Metals-Water	Nickel	3.6	ug/L	I	2	8

12/9/2002 6:50	BLANKS	Metals-Water	Selenium	1	ug/L	U	1	4
12/9/2002 6:50	BLANKS	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
12/9/2002 6:50	BLANKS	Metals-Water	Zinc	5	ug/L	U	2	8
12/9/2002 6:50	BLANKS	Nutrients-Liquid	Ammonia-N	0.02	mg N/L	I	0.01	0.02
12/9/2002 6:50	BLANKS	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
12/9/2002 6:50	BLANKS	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
12/9/2002 6:50	BLANKS	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
12/9/2002 6:50	BLANKS	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.015	0.04

The Bioassay of Noma WWTP effluent sampled on December 9, 2002, NPDES #FL0040207.

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



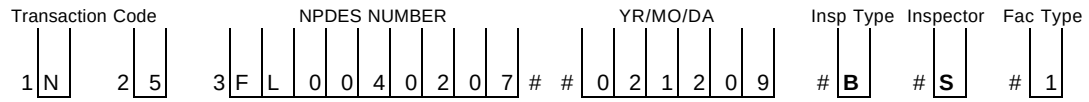
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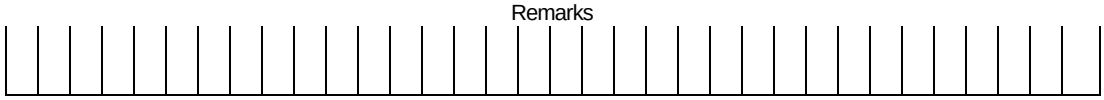
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The Priority Pollutants Analysis for Bioassay of Noma WWTP effluent sampled on December 9, 2002, NPDES #FL0040207.

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



Remarks



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