

Bioassays of

Florida Power Corporation Crystal River

Citrus County

NPDES #FL0036366

Sampled February 2, 2004

July 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Florida Power Corporation Crystal River, 15760 Power Line Road, Crystal River, Citrus County, Florida, NPDES #FL0036366. Effluent samples for this facility were collected on February 2, 2004.

Introduction

The Florida Power Corporation's Crystal River facility is an electric power generating plant. The facility consists of five generating units; however, only two units, Unit 4 and Unit 5, both fossil fuel-fired, are under NPDES permit FL0036366. These two units have a total nameplate rating of 1390 MW. The permitted discharge rate for each unit is 44 million gallons per day (MGD). The average daily flow (ADF), based on the Discharge Monitoring Reports from November 2002-December 2003 from Unit 4 was 1.90 MGD (Outfall D-074). The ADF for Unit 5 was 1.86 MGD (Outfall D-075). The wastewater treatment process at the facility consists of screening and chlorination of the cooling-tower blowdown (as needed) and retention of wastewater for solids settling in the coal and ash-pile runoff collection ponds. In general, chlorine is applied on a daily basis to one of the two cooling towers serving Units 4 and 5. Treated effluent is discharged into the Class III Marine Waters of the Gulf of Mexico. The facility also has three power generating units. Units 1 and 2 are fossil fuel-fired units and Unit 3 is a nuclear fuel-fired unit. These three units are monitored under NPDES permit FL0000159 (facility information provided by Melissa Gunter, FDEP, Southwest District, Tampa).

The bioassay sample was collected from Outfall D-075 (Unit 5) since the cooling-tower blowdown from Unit 5 was chlorinated during the morning of the sampling event.

Methods

Samples were collected from the NPDES sampling point by Melissa Gunter (FDEP, Southwest District, Tampa) 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 and algal growth potential tests discussed in this report were performed following internal DEP SOP's TA07_03,TA07_04, and TA08_01 through TA08_06. 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 February 3 - 5, 2004.

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

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

See Table 1 for bioassay bench sheets.

Algal Growth Potential

The effluent AGP was 4.51mg dry wt/L of *Dunaliella tertiolecta.* Nutrient data suggests that the effluent is nitrogen-limited, and there is no evidence of growth inhibition. Raschke and Shultz 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).

See Table 2 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory. The total ammonia concentration in the sample preserved for chemical analysis was 0.043 mg/L. Based on the pH, salinity, and temperature of the effluent at the time of sample collection, the effluent unionized ammonia concentration was 0.01 mg/L.

The effluent concentration of copper (3.97 µg/L) exceeded the Class III Marine Quality Criterion (See Table 3, 62-302.530(24) F.A.C.).

Aluminum and iron were detected in the effluent samples at levels that complied with Class III Marine Criteria.

See Table 3 for results of analytes detected in the effluent.

See Appendix 1 for a complete list of chemical analyses performed.

Conclusion

Effluent samples collected from this facility on February 2, 2004 did not show unacceptable acute toxicity to either test species during the 48-hour bioassay tests. The effluent AGP result was less than the "problem" threshold for marine receiving waters. The effluent concentration of copper (3.97 µg/L) exceeded the Class III Marine Quality Criterion.

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 Florida Power Corporation Crystal River Power Plant, 15760 Power Line Road, Crystal River, Citrus County, Florida, NPDES# FL0036366, performed from 3 to 5 February 2004.

Facility:	**Florida Power Corporation Crystal River**		**NPDES #:**	**FL0036366**	Facility Type:	**Industrial**	**Analysts:**	Christa A. Pierini	
Location:	15760 Power Line Road, Crystal River		Contact/District:	M. Gunter, T. Falkner/Southwest		**Power Plant**		Sarah Prichard	Joshua Ayres
County:	Citrus		Test type:	static acute screen				Scott Andree	James Daniels
Sample Collection Date:	2/2/2004	Time: 1205	# tests:	2	Receiving Water:	Gulf of Mexico			Marshall Faircloth
Test Beginning Date:	2/3/2004	Time: 1500	Chlorination Type:	chlorinated		Class III marine			
Test Ending Date:	2/5/2004	Time: 1315	FDEP SOP#:	TA07_01 / 02		**Page 1 of 1**	**Reviewer:**	Julie Espy	

Organism: ***Americamysis bahia*** (mysid) Life stage: 5 days Chamber size: 1000 ml [A]Feeding: *Artemia* Food Batch #: 0194025G

	Sample/Diluent	SURVIVAL # Alive			pH			[C]Temperature (C)			Diss. Oxygen (mg/L)			[D]Conductivity	
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	8.2	8.1	8.1	24.0	24.2	24.0	6.9	6.0	6.4	41.2	45.0
Control B	0/500	5	5	5	8.2	8.1	8.1	24.0	24.3	24.2	6.7	5.7	5.8	43.7	45.6
Control C	0/500	5	5	5	8.2	8.1	8.1	24.0	24.0	24.8	6.5	5.2	5.8	44.4	46.6
Control D	0/500	5	5	5	8.2	8.1	8.1	24.0	24.5	24.0	6.4	5.6	5.9	44.5	45.0
100% A	500/0	5	5	5	8.3	8.1	8.0	24.0	24.0	24.2	7.1	5.8	6.4	43.1	45.5
100% B	500/0	5	5	5	8.3	8.1	8.0	24.0	24.1	24.7	7.1	5.9	6.0	42.9	46.5
100% C	500/0	5	5	5	8.3	8.1	8.0	24.0	24.0	24.0	6.6	6.0	6.3	44.0	46.2
100% D	500/0	5	5	5	8.3	8.1	8.0	24.0	24.1	24.1	6.7	6.0	6.3	43.9	45.4

[A]Organisms fed prior to test and daily.

Organism: ***Menidia beryllina*** (fish) Life stage: 13 days Chamber size: 1000 mL [B]Feeding: *Artemia* Food Batch #: 0194025G

	Sample/Diluent	SURVIVAL # Alive			pH			[C]Temperature (C)			Diss. Oxygen (mg/L)			[D]Conductivity	
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	8.3	8.2	8.1	24.1	25.1	25.6	6.8	5.9	6.3	43.3	46.2
Control B	0/500	5	5	5	8.3	8.2	8.1	24.0	24.9	25.1	6.8	5.8	6.5	43.1	46.4
Control C	0/500	5	5	5	8.3	8.2	8.1	24.2	24.9	24.4	6.8	5.9	6.4	44.0	45.9
Control D	0/500	5	5	5	8.3	8.2	8.1	24.0	24.8	24.8	6.7	6.0	6.5	43.9	45.8
100% A	500/0	5	5	5	8.2	8.1	8.1	24.1	25.1	25.4	6.7	6.0	6.4	43.3	42.4
100% B	500/0	5	5	5	8.2	8.1	8.1	24.4	24.9	24.9	6.8	6.0	6.5	42.2	45.4
100 % C	500/0	5	5	5	8.2	8.1	8.1	24.0	24.8	24.2	6.8	6.0	6.5	43.9	45.4
100% D	500/0	5	5	5	8.2	8.1	8.1	24.2	24.3	24.4	6.7	6.0	6.5	44.4	45.3

[B]Organisms fed prior to testing.

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

[D]Conductivity value is uncorrected mmhos/cm.

Room Temperature range for the test period was 23.5 - 24.5°C.

Incubator #3 temperature range for the test period was 23.0 - 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-2004-02-03-01
sample number:	731735

Data Transcription Verification
date: 4/09/04
by: Cathy Oaks/James Daniels

Total Residual CL2	mg/L	Method
Field:	not measured	-
Lab:	<0.03	Hach
Control water (NSW):	<0.03	Hach

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water (NSW):	<0.017	<0.017
100% Sample:	<0.068	<0.068

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water (NSW):	132	-
100% Sample:	158	-

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

[E]Salinity	ppt
[F]Control water (NSW):	29.2
100 % sample:	29.1

[E]Salinity based on temperature and conductivity.

[F]NSW (Control water) was diluted with well water from 32 ppt to 29.2

***Table 2**. Measured algal growth potential (AGP) and ratios of total soluble nitrogen to ortho-phosphate and total nitrogen to total phosphate for the sample of effluent collected from Florida Power Corporation Crystal River Power Plant on February 2, 2004.*

Location	AGP (measured)	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	4.51	4.69	7.33

Table 3. *Effluent limits, Class III Criteria and chemical data from samples collected from the Florida Power Corporation Crystal River Power Plant sampled on February 2, 2004.*

Florida Power Corporation Crystal River Power Plant	Class III Marine Stds	Effluent Limits	Effluent Samples
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1500	-	111
Arsenic	≤ 50	-	29 U
Cadmium	≤ 9.3	-	0.25 U
Calcium (mg/L)	-	-	359
Chromium-III	-	-	6 U
Copper	≤ 3.7	-	3.97
Iron	≤ 300	-	140
Lead	≤ 8.5	-	0.5 U
Magnesium (mg/L)	-	-	1140
Nickel	≤ 8.3	-	62 U
Selenium	≤ 71	-	16 U
Silver	≤ 2.3	-	0.2 U
Zinc	≤ 86	-	27 U
Nutrients (mg/L)			
TDS	-	-	27300
TSS	-	-	8 I
Ortho-phosphate	-	-	0.013
Total Phosphorus	-	-	0.072
Ammonia	-	-	0.043
Unionized Ammonia	-	-	0.01 c
Nitrate+Nitrite	-	-	0.018
Total Kjeldahl Nitrogen	-	-	0.51
Organic Nitrogen	-	-	0.47 c
Total Nitrogen	-	-	0.53 c
Turbidity	-	-	3 A
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥4.0 s	-	7.4
pH (S.U.)	6.5 - 8.5 s	6.5 - 8.5	8.2
Conductivity (umhos/cm)	-	-	45345
Temperature (C)	-	-	29.4
BOD (mg/L)	-	-	0.59 AI
BOD (mg/L)	-	-	0.46 AI
Oil and Grease (mg/l)	≤ 5	-	0.92 IV
Hardness (mg/L)	-	-	5590.9 c
AGP (mg DryWt/L)	-	-	4.51 A
Chlorine (100% sample lab)	≤ 0.01	-	≤ 0.03 U

Value exceeds the Class III Marine Water Quality Criteria

A - Value reported is the mean of two or more determinations

I - Value reported is between the laboratory method detection limit and the laboratory practical quantitation limit

U - Material analyzed for but not detected; value reported is the minimum detection limit

V - Analyte was detected in both sample and method blank

s - Single sample

Appendix 1. Chemical Analyses performed on the effluent from the Florida Power Corporation Crystal River Power Plant sampled on February 2, 2004.

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/2/2004 13:15	D-0C0	Bio-BOD	Biochemical Oxygen Demand-5 Day	1.1	mg/L			
2/2/2004 13:15	D-0C0	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.3	mg/L			
2/2/2004 13:15	D-0C0	Metals-Water	Copper	1.1	ug/L	I	1	4
2/2/2004 13:15	D-0C0	Nutrients-Liquid	Ammonia-N	0.013	mg N/L	I	0.01	0.02
2/2/2004 13:15	D-0C0	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
2/2/2004 13:15	D-0C0	Nutrients-Liquid	N_KJEL_TOT	0.36	mg N/L		0.06	0.2
2/2/2004 13:15	D-0C0	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
2/2/2004 13:15	D-0C0	Nutrients-Liquid	TDS	384	mg/L		15	60
2/2/2004 13:15	D-0C0	Nutrients-Liquid	TSS	13	mg/L	I	4	16
2/2/2004 13:15	D-0C0	Nutrients-Liquid	Total-P	0.023	mg P/L	I	0.02	0.06
2/2/2004 13:15	D-0C0	Nutrients-Liquid	Turbidity	5.2	NTU		0.05	0.05
2/2/2004 11:10	FIELD BLANK	Bio-BOD	Biochemical Oxygen Demand-5 Day	0.2	mg/L	U		
2/2/2004 11:10	FIELD BLANK	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.2	mg/L	U		
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	78
2/2/2004 11:10	FIELD BLANK	BNA-Water	1-Naphthylamine	9.7	ug/L	UJ	9.7	39
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Nitroaniline	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
2/2/2004 11:10	FIELD BLANK	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	78
2/2/2004 11:10	FIELD BLANK	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
2/2/2004 11:10	FIELD BLANK	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Acetophenone	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9

2/2/2004 11:10	FIELD BLANK	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Benzidine	97	ug/L	U	97	390
2/2/2004 11:10	FIELD BLANK	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
2/2/2004 11:10	FIELD BLANK	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
2/2/2004 11:10	FIELD BLANK	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
2/2/2004 11:10	FIELD BLANK	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
2/2/2004 11:10	FIELD BLANK	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Endrin aldehyde	3.9	ug/L	UJ	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Isosafrole	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	Methyl methanesulfonate	0.97	ug/L	UJ	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	UJ	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
2/2/2004 11:10	FIELD BLANK	BNA-Water	Pentachlorobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Pentachloroethane	49	ug/L	U	49	190
2/2/2004 11:10	FIELD BLANK	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
2/2/2004 11:10	FIELD BLANK	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	BNA-Water	Pyridine	3.9	ug/L	UJ	3.9	16
2/2/2004 11:10	FIELD BLANK	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9

2/2/2004 11:10	FIELD BLANK	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
2/2/2004 11:10	FIELD BLANK	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
2/2/2004 11:10	FIELD BLANK	GC-Water	Alachlor	0.59	ug/L	U	0.59	2.36
2/2/2004 11:10	FIELD BLANK	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
2/2/2004 11:10	FIELD BLANK	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.196
2/2/2004 11:10	FIELD BLANK	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.196
2/2/2004 11:10	FIELD BLANK	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
2/2/2004 11:10	FIELD BLANK	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
2/2/2004 11:10	FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
2/2/2004 11:10	FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.098	ug/L	U	0.098	0.392
2/2/2004 11:10	FIELD BLANK	GC-Water	Diazinon	0.049	ug/L	UJ	0.049	0.196
2/2/2004 11:10	FIELD BLANK	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
2/2/2004 11:10	FIELD BLANK	GC-Water	Ethoprop	0.098	ug/L	U	0.098	0.392
2/2/2004 11:10	FIELD BLANK	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
2/2/2004 11:10	FIELD BLANK	GC-Water	Fonofos	0.098	ug/L	U	0.098	0.392
2/2/2004 11:10	FIELD BLANK	GC-Water	Hexazinone	0.098	ug/L	U	0.098	0.392
2/2/2004 11:10	FIELD BLANK	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
2/2/2004 11:10	FIELD BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
2/2/2004 11:10	FIELD BLANK	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96
2/2/2004 11:10	FIELD BLANK	GC-Water	Metribuzin	0.098	ug/L	U	0.098	0.392
2/2/2004 11:10	FIELD BLANK	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
2/2/2004 11:10	FIELD BLANK	GC-Water	Naled	0.78	ug/L	U	0.78	3.12
2/2/2004 11:10	FIELD BLANK	GC-Water	Norflurazon	0.098	ug/L	U	0.098	0.392
2/2/2004 11:10	FIELD BLANK	GC-Water	Parathion Ethyl	0.15	ug/L	UJ	0.15	0.6
2/2/2004 11:10	FIELD BLANK	GC-Water	Parathion Methyl	0.098	ug/L	U	0.098	0.392
2/2/2004 11:10	FIELD BLANK	GC-Water	Phorate	0.049	ug/L	U	0.049	0.196
2/2/2004 11:10	FIELD BLANK	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
2/2/2004 11:10	FIELD BLANK	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
2/2/2004 11:10	FIELD BLANK	Metals-Water	Aluminum	7	ug/L	U	7	28
2/2/2004 11:10	FIELD BLANK	Metals-Water	Arsenic	6	ug/L	U	6	24
2/2/2004 11:10	FIELD BLANK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
2/2/2004 11:10	FIELD BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
2/2/2004 11:10	FIELD BLANK	Metals-Water	Chromium	3	ug/L	U	3	12
2/2/2004 11:10	FIELD BLANK	Metals-Water	Copper	1	ug/L	U	1	4
2/2/2004 11:10	FIELD BLANK	Metals-Water	Iron	17	ug/L	I	15	60
2/2/2004 11:10	FIELD BLANK	Metals-Water	Lead	0.16	ug/L	I	0.05	0.2
2/2/2004 11:10	FIELD BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
2/2/2004 11:10	FIELD BLANK	Metals-Water	Nickel	3	ug/L	U	3	12
2/2/2004 11:10	FIELD BLANK	Metals-Water	Selenium	1	ug/L	U	1	4
2/2/2004 11:10	FIELD BLANK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
2/2/2004 11:10	FIELD BLANK	Metals-Water	Zinc	4	ug/L	U	4	16
2/2/2004 11:10	FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
2/2/2004 11:10	FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
2/2/2004 11:10	FIELD BLANK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
2/2/2004 11:10	FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
2/2/2004 11:10	FIELD BLANK	Nutrients-Liquid	TSS	4	mg/L	U	4	16
2/2/2004 11:10	FIELD BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
2/2/2004 11:10	FIELD BLANK	Nutrients-Liquid	Turbidity	0.05	NTU	U	0.05	0.05
2/2/2004 11:10	FIELD BLANK	Overflow	Oil and Grease	0.88	mg/l	IV		
2/2/2004 12:05	OUTFALL D-075	Bio-AGP/LimNut	Algal Growth Potential	4.51	mg DryWt/L	A	0.1	0.3
2/2/2004 12:05	OUTFALL D-075	Bio-BOD	Biochemical Oxygen Demand-5 Day	0.46	mg/L	AI		
2/2/2004 12:05	OUTFALL D-075	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.59	mg/L	AI		
2/2/2004 12:05	OUTFALL D-075	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
2/2/2004 12:05	OUTFALL D-075	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
2/2/2004 12:05	OUTFALL D-075	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
2/2/2004 12:05	OUTFALL D-075	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8

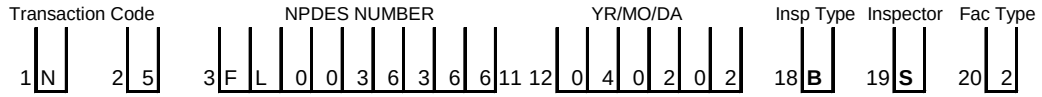
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	76
2/2/2004 12:05	OUTFALL D-075	BNA-Water	1-Naphthylamine	9.5	ug/L	U	9.5	38
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,4,5-Trichlorophenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,6-Dichlorophenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Acetylaminofluorene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Methylnaphthalene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Naphthylamine	9.5	ug/L	U	9.5	38
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Nitroaniline	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	2-Picoline	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
2/2/2004 12:05	OUTFALL D-075	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	U	19	76
2/2/2004 12:05	OUTFALL D-075	BNA-Water	3-Methylcholanthrene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	3-Nitroaniline	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4-Chloroaniline	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4-Nitroaniline	0.95	ug/L	UJ	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
2/2/2004 12:05	OUTFALL D-075	BNA-Water	5-Nitro-o-toluidine	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Acetophenone	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Aniline	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Benzidine	95	ug/L	U	95	380
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Benzyl alcohol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Dibenzofuran	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Dimethylaminoazobenzene	0.95	ug/L	U	0.95	3.8

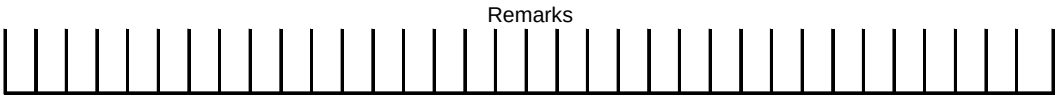
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Ethyl methanesulfonate	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Isosafrole	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Methapyrilene	3.8	ug/L	UJ	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Methyl methanesulfonate	0.95	ug/L	UJ	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosodi-n-butylamine	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosodiethylamine	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	UJ	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosomorpholine	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosopiperidine	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	76
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Pentachlorobenzene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Pentachloronitrobenzene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
2/2/2004 12:05	OUTFALL D-075	BNA-Water	Safrole	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
2/2/2004 12:05	OUTFALL D-075	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.6
2/2/2004 12:05	OUTFALL D-075	BNA-Water	o-Toluidine	0.95	ug/L	U	0.95	3.8
2/2/2004 12:05	OUTFALL D-075	GC-Water	Alachlor	0.56	ug/L	U	0.56	2.24
2/2/2004 12:05	OUTFALL D-075	GC-Water	Ametryn	0.047	ug/L	U	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	GC-Water	Atrazine	0.047	ug/L	U	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	GC-Water	Azinphos Methyl	0.047	ug/L	U	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/2/2004 12:05	OUTFALL D-075	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/2/2004 12:05	OUTFALL D-075	GC-Water	Chlorpyrifos Ethyl	0.047	ug/L	U	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	GC-Water	Chlorpyrifos Methyl	0.093	ug/L	U	0.093	0.372
2/2/2004 12:05	OUTFALL D-075	GC-Water	Diazinon	0.047	ug/L	UJ	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	GC-Water	Ethion	0.047	ug/L	U	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	GC-Water	Ethoprop	0.093	ug/L	U	0.093	0.372
2/2/2004 12:05	OUTFALL D-075	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/2/2004 12:05	OUTFALL D-075	GC-Water	Fonofos	0.093	ug/L	U	0.093	0.372
2/2/2004 12:05	OUTFALL D-075	GC-Water	Hexazinone	0.093	ug/L	U	0.093	0.372
2/2/2004 12:05	OUTFALL D-075	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56

2/2/2004 12:05	OUTFALL D-075	GC-Water	Metalaxyl	0.23	ug/L	U	0.23	0.92
2/2/2004 12:05	OUTFALL D-075	GC-Water	Metolachlor	0.47	ug/L	U	0.47	1.88
2/2/2004 12:05	OUTFALL D-075	GC-Water	Metribuzin	0.093	ug/L	U	0.093	0.372
2/2/2004 12:05	OUTFALL D-075	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
2/2/2004 12:05	OUTFALL D-075	GC-Water	Naled	0.75	ug/L	U	0.75	3
2/2/2004 12:05	OUTFALL D-075	GC-Water	Norflurazon	0.093	ug/L	U	0.093	0.372
2/2/2004 12:05	OUTFALL D-075	GC-Water	Parathion Ethyl	0.14	ug/L	UJ	0.14	0.56
2/2/2004 12:05	OUTFALL D-075	GC-Water	Parathion Methyl	0.093	ug/L	U	0.093	0.372
2/2/2004 12:05	OUTFALL D-075	GC-Water	Phorate	0.047	ug/L	U	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
2/2/2004 12:05	OUTFALL D-075	GC-Water	Simazine	0.047	ug/L	U	0.047	0.188
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Aluminum	111	ug/L		14	56
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Arsenic	29	ug/L	U	29	120
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Cadmium	0.25	ug/L	U	0.25	1
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Calcium	359	mg/L		0.1	0.4
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Chromium	6	ug/L	U	6	24
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Copper	3.97	ug/L		0.2	0.8
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Iron	140	ug/L		30	120
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Lead	0.5	ug/L	U	0.5	2
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Magnesium	1.14E+03	mg/L		0.5	2
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Nickel	62	ug/L	U	62	250
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Selenium	16	ug/L	U	16	64
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Silver	0.2	ug/L	U	0.2	0.8
2/2/2004 12:05	OUTFALL D-075	Metals-Water	Zinc	27	ug/L	U	27	110
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	Ammonia-N	0.043	mg N/L		0.01	0.02
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	NO2NO3-N	0.018	mg N/L		0.004	0.01
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	N_KJEL_TOT	0.51	mg N/L		0.12	0.4
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	O-Phosphate-P	0.013	mg P/L		0.004	0.01
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	TDS	2.73E+04	mg/L		15	60
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	TSS	8	mg/L	I	4	16
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	Total-P	0.072	mg P/L		0.02	0.06
2/2/2004 12:05	OUTFALL D-075	Nutrients-Liquid	Turbidity	3	NTU	A	0.05	0.05
2/2/2004 12:05	OUTFALL D-075	Overflow	Oil and Grease	0.92	mg/l	IV		

The Bioassay of the Florida Power Corporation Crystal River Power Plant effluent sampled on 2 February 2004, NPDES #FL0036366.

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 Florida Power Corporation Crystal River Power Plant effluent sampled on 2 February 2004, NPDES #FL0036366.

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

