

Bioassays of

Purdom Generating Station

St. Marks, Wakulla County, Florida

NPDES #FL0025526

Sampled 7/8/03

December 2003

Biology Section

Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

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Bureau of Laboratories
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The Purdom Generating Station, 667 Port Leon Drive, St. Marks, Wakulla County, Florida, NPDES #FL0025526, tests performed on 9 to 11 July 2003.

Introduction

This gas-fired, steam-powered electric power generating plant's design flow is 62 million gallons per day (MGD). The facility has three outfalls (D-015, I-017, I-C3) that enter the St. Marks River. The average daily flow from D-015 for a six-month period in 1999 was 20.82 MGD. The average daily flow from I-C3 was 0.1 MGD during 1999-2000. The average daily flow from outfall I-017 was 32.42 MGD during 42 months from 1999-2003. During this survey, Outfall I-017 was the only one discharging. Treatment of wastewater includes the addition of lime followed by mixing, flocculation, and sedimentation of low volume wastewaters, and pH adjustment of low volume wastewaters. Chlorine is added to the cooling water at the cooling towers. If necessary, cooling water is dechlorinated with sulfur dioxide before it is discharged into the Class III fresh waters of the St. Marks River (facility information provided by Wesley Keller, FDEP, Pensacola).

Methods

Samples were collected from the facility's NPDES sampling point by Joy Jackson and Ken Espy (FDEP-Tallahassee) 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 screening bioassay – Not Toxic
Cyprinella leedsi 48-hr acute screening bioassay – Not Toxic

See Table 1 for bioassay bench sheets.

Chemistry Results

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

See Table 2 for the Effluent limits, Class III freshwater criteria, and chemical results of analyses performed on effluent and influent samples.

See Table 3 for a complete list of chemical analyses performed.

Algal Growth Potential

Raschke and Shultz (1987) found that Algal Growth Potential (AGP) values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The effluent AGP was 3.89 mg dry wt/L of *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*.

Conclusion

The effluent sample collected from this facility on July 9, 2003, did not show acute toxicity to either test species during the 48-hour bioassay tests. The AGP test result was below the "problem" threshold.

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 Purdom Generating Station, 667 Port Leon Drive, St. Marks, Wakulla County, Florida, NPDES# FL0025526, performed from 9 to 11 July 2003.

Facility:	**Purdom Generating Station**	**NPDES #:**	**FL0025526**	Facility Type:	**Electric Power**	**Analysts:**	Jacquelyn Champion
Location:	667 Port Leon Drive, St. Marks	Contact/District:	Jackson/Northwest		**Plant**		Joshua Ayres
County:	Wakulla	Test type:	static acute screen				Christa Pierini
Sample Collection Date:	7/9/2003 Time: 1020	# tests:	2	Receiving Water:	St. Marks River		Marshall Faircloth
Test Beginning Date:	7/9/2003 Time: 1500	Chlorination Type:	not chlorinated		Class III Freshwater		
Test Ending Date:	7/11/2003 Time: 1900	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	7.9	-	8.4	24.6	-	25.6	7.7	-	7.4	175	225
Control B	0/20	5	5	5	-	-	8.4	-	-	25.2	-	-	7.5	-	240
Control C	0/20	5	5	5	-	-	8.4	-	-	24.1	-	-	7.6	-	235
Control D	0/20	5	5	5	-	-	8.4	-	-	23.8	-	-	7.6	-	250
100% A	20/0	5	5	5	7.8	-	8.5	25.8	-	25.2	7.3	-	7.5	250	325
100% B	20/0	5	5	5	-	-	8.5	-	-	24.9	-	-	7.4	-	300
100% C	20/0	5	5	5	-	-	8.5	-	-	24.4	-	-	7.5	-	305
100% D	20/0	5	5	5	-	-	8.5	-	-	23.9	-	-	7.6	-	300

[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 23.0-25.0°C.
Incubator #3 temperature range for the test period was 24.0-25.0°C.

Organism: ***Cyprinella leedsi*** Life stage: 8 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	7.8	8.2	8.4	25.0	24.4	24.3	7.6	7.6	7.8	265	285
Control B	0/500	5	5	5	7.8	8.3	8.4	25.1	24.0	24.4	7.5	7.6	7.8	270	295
Control C	0/500	5	5	5	7.8	8.3	8.4	25.3	24.0	25.0	7.4	7.7	7.8	270	295
Control D	0/500	5	5	5	7.8	8.3	8.4	25.4	24.3	26.0	7.5	7.7	7.7	275	295
100% A	500/0	5	5	5	7.9	8.3	8.3	25.7	24.3	24.2	7.3	7.7	7.9	260	265
100% B	500/0	5	5	5	7.9	8.3	8.3	25.7	24.1	24.9	7.4	7.6	8.0	260	270
100 % C	500/0	5	5	5	7.9	8.3	8.3	25.8	24.0	24.6	7.4	7.6	7.8	260	280
100% D	500/0	5	5	5	7.9	8.3	8.3	25.8	24.0	25.2	7.5	7.6	7.8	260	270

[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 23.0-25.0°C.
Incubator #3 temperature range for the test period was 24.0-25.0°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-2003-07-09-78
sample number:	687212

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

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

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water (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):	144	137
Control water (water flea):	79	85
100% Sample:	119	119

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

Table 2. Effluent limits, Class III Criteria and chemical results samples collected July 9, 2003.

Purdom Generating Station	Class III Criteria	Effluent Limits	Effluent	Intake
Organic Constituents (µg/L)				
None Detected	-	-		
Metals (µg/L unless otherwise noted)				
Aluminum	-	-	76 J	77 J
Arsenic	≤ 50	-	0.75 U	0.75 U
Cadmium	≤ 1.4 h	-	0.025 U	0.026 I
Calcium (mg/L)	-	-	41	40.3
Chromium-III	≤ 107.6 h	-	2 U	2 U
Copper	≤ 11.8 h	-	3.1 I	3 I
Iron	≤ 1000	-	192	189
Lead	≤ 4.5 h	-	0.12 IV	0.4 V
Magnesium (mg/L)	-	-	7	6.9
Nickel	≤ 65.6 h	-	0.77 I	0.75 I
Selenium	≤ 5	-	1 U	1 U
Silver	≤ 0.07	-	0.02 U	0.02 U
Zinc	≤ 150.8 h	-	4 U	4.7 I
Nutrients (mg/L)				
Ammonia	-	-	0.036	0.016 I
Nitrate+nitrite	-	-	0.053	0.051
Total Kjeldahl Nitrogen (TKN)	-	-	0.23	0.26 A
Ortho-phosphate	-	-	0.033	0.034
Total Phosphorus	-	-	0.061	0.052 A
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 5	-	7.1	6.2
pH (S.U.)	6.5-8.5	-	7.7	7.3
Conductivity (umhos/cm)	≤ 1275 h	-	256	252
Temperature (°F)	83.0° t	-	81.3	77.9
Total Suspended Solids (TSS)	-	-	4 U	4 U
Oil and Grease (mg/L)	5	5.0 m	1.6 IV	2.9 IV
Hardness (mg/L)	-	-	131.2 c	129 c

c - calculated value.

h - Value is based on water hardness as mg/L $CaCO_3$.

m - Daily maximum value

t - Temperature of heated discharge shall not be increased to more than 5° above background.

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

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J - Estimated value.

U - Material was analyzed for but not detected. The value reported is the minimum detection limit.

V - Analyte was detected in the sample and blank.

Table 3. Chemical Analyses performed on effluent and influent samples from Purdom Generating Station, sampled on July 9, 2003.

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
EFFLUENT	Bio-AGP/LimNut	Algal Growth Potential	3.89	mg DryWt/L		0.1	0.3
EFFLUENT	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	1.3	ug/L	U	1.3	3.8
EFFLUENT	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	1.3	ug/L	U	1.3	3.8
EFFLUENT	Bio-Microbiology	Fecal Coliforms-Membrane Filter	470	#/100 mL	Q		
EFFLUENT	Bio-Microbiology	Total Coliforms-Membrane Filter	52	#/100 mL	Q		
EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
EFFLUENT	Bio-Toxicology	Total Chlorine	0.03	mg/L	KQ		
EFFLUENT	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	1,2-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
EFFLUENT	BNA-Water	1,3-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	1,3-Dinitrobenzene	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	1,4-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	1,4-Naphthoquinone	20	ug/L	UJ	20	78
EFFLUENT	BNA-Water	1-Naphthylamine	9.8	ug/L	U	9.8	39
EFFLUENT	BNA-Water	2,3,4,6-Tetrachlorophenol	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	2,4,5-Trichlorophenol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2,4-Dichlorophenol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	200
EFFLUENT	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
EFFLUENT	BNA-Water	2,4-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2,6-Dichlorophenol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2,6-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2-Acetylaminofluorene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2-Chloronaphthalene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2-Chlorophenol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	2-Methylnaphthalene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2-Naphthylamine	9.8	ug/L	U	9.8	39
EFFLUENT	BNA-Water	2-Nitroaniline	0.98	ug/L	UJ	0.98	3.9
EFFLUENT	BNA-Water	2-Nitrophenol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	2-Picoline	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
EFFLUENT	BNA-Water	3,3'-Dimethylbenzidine	20	ug/L	UJ	20	78
EFFLUENT	BNA-Water	3-Methylcholanthrene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	3-Nitroaniline	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	4-Chloroaniline	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	4-Nitroaniline	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
EFFLUENT	BNA-Water	5-Nitro-o-toluidine	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Acenaphthene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Acenaphthylene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Acetophenone	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	Aniline	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Anthracene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Benzidine	98	ug/L	U	98	390
EFFLUENT	BNA-Water	Benzo(a)anthracene	0.98	ug/L	U	0.98	3.9

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
EFFLUENT	BNA-Water	Benzo(a)pyrene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Benzo(b)fluoranthene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Benzo(k)fluoranthene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Benzyl alcohol	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	47	ug/L	UJ	15	59
EFFLUENT	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	20
EFFLUENT	BNA-Water	Chrysene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	20
EFFLUENT	BNA-Water	Di-n-octyl phthalate	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Dibenzofuran	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Dieldrin	1.5	ug/L	UJ	1.5	5.9
EFFLUENT	BNA-Water	Diethyl phthalate	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	200
EFFLUENT	BNA-Water	Dimethylaminoazobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
EFFLUENT	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
EFFLUENT	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
EFFLUENT	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.9
EFFLUENT	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
EFFLUENT	BNA-Water	Ethyl methanesulfonate	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Fluoranthene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Fluorene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	Hexachlorobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	Hexachloropropene	2	ug/L	UJ	2	7.8
EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Isophorone	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Isosafrole	0.98	ug/L	UJ	0.98	3.9
EFFLUENT	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
EFFLUENT	BNA-Water	Methyl methanesulfonate	0.98	ug/L	UJ	0.98	3.9
EFFLUENT	BNA-Water	N-Nitrosodi-n-butylamine	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	N-Nitrosodiethylamine	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	N-Nitrosodimethylamine	2	ug/L	UJ	2	7.8
EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	N-Nitrosomethylethylamine	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	N-Nitrosomorpholine	0.98	ug/L	UJ	0.98	3.9
EFFLUENT	BNA-Water	N-Nitrosopiperidine	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	N-Nitrosopyrrolidine	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	Naphthalene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	Nitroquinoline-1-oxide	20	ug/L	U	20	78
EFFLUENT	BNA-Water	Pentachlorobenzene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Pentachloroethane	49	ug/L	U	49	200
EFFLUENT	BNA-Water	Pentachloronitrobenzene	0.98	ug/L	UJ	0.98	3.9
EFFLUENT	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
EFFLUENT	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
EFFLUENT	BNA-Water	Phenanthrene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Phenol	0.98	ug/L	U	0.98	3.9

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
EFFLUENT	BNA-Water	Pyrene	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
EFFLUENT	BNA-Water	Safrole	0.98	ug/L	U	0.98	3.9
EFFLUENT	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
EFFLUENT	BNA-Water	m,p-Cresols	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	o-Cresol	2	ug/L	U	2	7.8
EFFLUENT	BNA-Water	o-Toluidine	0.98	ug/L	U	0.98	3.9
EFFLUENT	GC-Water	Alachlor	0.59	ug/L	U	0.59	2.36
EFFLUENT	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
EFFLUENT	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.196
EFFLUENT	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.196
EFFLUENT	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
EFFLUENT	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.098	ug/L	U	0.098	0.392
EFFLUENT	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.196
EFFLUENT	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
EFFLUENT	GC-Water	Ethoprop	0.098	ug/L	U	0.098	0.392
EFFLUENT	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
EFFLUENT	GC-Water	Fonofos	0.098	ug/L	U	0.098	0.392
EFFLUENT	GC-Water	Hexazinone	0.098	ug/L	U	0.098	0.392
EFFLUENT	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
EFFLUENT	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
EFFLUENT	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96
EFFLUENT	GC-Water	Metribuzin	0.098	ug/L	U	0.098	0.392
EFFLUENT	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
EFFLUENT	GC-Water	Naled	0.78	ug/L	U	0.78	3.12
EFFLUENT	GC-Water	Norflurazon	0.098	ug/L	U	0.098	0.392
EFFLUENT	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
EFFLUENT	GC-Water	Parathion Methyl	0.098	ug/L	U	0.098	0.392
EFFLUENT	GC-Water	Phorate	0.049	ug/L	U	0.049	0.196
EFFLUENT	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
EFFLUENT	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
EFFLUENT	Metals-Water	Aluminum	76	ug/L	J	10	40
EFFLUENT	Metals-Water	Arsenic	0.75	ug/L	U	0.75	3
EFFLUENT	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
EFFLUENT	Metals-Water	Calcium	41	mg/L		0.05	0.2
EFFLUENT	Metals-Water	Chromium	2	ug/L	U	2	8
EFFLUENT	Metals-Water	Copper	3.1	ug/L	I	1.2	4.8
EFFLUENT	Metals-Water	Iron	192	ug/L		15	60
EFFLUENT	Metals-Water	Lead	0.12	ug/L	I	0.05	0.2
EFFLUENT	Metals-Water	Magnesium	7	mg/L		0.02	0.08
EFFLUENT	Metals-Water	Nickel	0.77	ug/L	I	0.5	2
EFFLUENT	Metals-Water	Selenium	1	ug/L	U	1	4
EFFLUENT	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
EFFLUENT	Metals-Water	Zinc	4	ug/L	U	4	16
EFFLUENT	Nutrients-Liquid	Ammonia-N	0.036	mg N/L		0.01	0.02
EFFLUENT	Nutrients-Liquid	NO2NO3-N	0.053	mg N/L		0.004	0.01
EFFLUENT	Nutrients-Liquid	N_KJEL_TOT	0.23	mg N/L		0.06	0.2
EFFLUENT	Nutrients-Liquid	O-Phosphate-P	0.033	mg P/L		0.004	0.01
EFFLUENT	Nutrients-Liquid	TSS	4	mg/L	U	4	16
EFFLUENT	Nutrients-Liquid	Total-P	0.061	mg P/L		0.015	0.04
EFFLUENT	Overflow	Oil and Grease	1.6	mg/L	IV		
FIELD BLANK	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	78
FIELD BLANK	BNA-Water	1-Naphthylamine	9.7	ug/L	U	9.7	39
FIELD BLANK	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
FIELD BLANK	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
FIELD BLANK	BNA-Water	2-Nitroaniline	0.97	ug/L	UJ	0.97	3.9
FIELD BLANK	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
FIELD BLANK	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	78
FIELD BLANK	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
FIELD BLANK	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Acetophenone	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Benzidine	97	ug/L	U	97	390
FIELD BLANK	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	47	ug/L	UJ	15	58
FIELD BLANK	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
FIELD BLANK	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
FIELD BLANK	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Dieldrin	1.5	ug/L	UJ	1.5	5.8
FIELD BLANK	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
FIELD BLANK	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
FIELD BLANK	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
FIELD BLANK	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
FIELD BLANK	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8
FIELD BLANK	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
FIELD BLANK	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	Hexachloropropene	1.9	ug/L	UJ	1.9	7.8
FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Isosafrole	0.97	ug/L	UJ	0.97	3.9
FIELD BLANK	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
FIELD BLANK	BNA-Water	Methyl methanesulfonate	0.97	ug/L	UJ	0.97	3.9
FIELD BLANK	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	UJ	1.9	7.8
FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	UJ	0.97	3.9
FIELD BLANK	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
FIELD BLANK	BNA-Water	Pentachlorobenzene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Pentachloroethane	49	ug/L	U	49	190
FIELD BLANK	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	UJ	0.97	3.9
FIELD BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
FIELD BLANK	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
FIELD BLANK	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
FIELD BLANK	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9
FIELD BLANK	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
FIELD BLANK	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
FIELD BLANK	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
FIELD BLANK	GC-Water	Alachlor	0.61	ug/L	U	0.61	2.44
FIELD BLANK	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
FIELD BLANK	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
FIELD BLANK	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.05	0.2
FIELD BLANK	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
FIELD BLANK	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
FIELD BLANK	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
FIELD BLANK	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
FIELD BLANK	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
FIELD BLANK	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
FIELD BLANK	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
FIELD BLANK	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
FIELD BLANK	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
FIELD BLANK	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
FIELD BLANK	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
FIELD BLANK	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
FIELD BLANK	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
FIELD BLANK	GC-Water	Naled	0.81	ug/L	U	0.81	3.24
FIELD BLANK	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
FIELD BLANK	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
FIELD BLANK	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
FIELD BLANK	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
FIELD BLANK	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
FIELD BLANK	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
FIELD BLANK	Metals-Water	Aluminum	10	ug/L	U	10	40
FIELD BLANK	Metals-Water	Arsenic	0.75	ug/L	U	0.75	3
FIELD BLANK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
FIELD BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
FIELD BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
FIELD BLANK	Metals-Water	Copper	1.2	ug/L	U	1.2	4.8
FIELD BLANK	Metals-Water	Iron	15	ug/L	U	15	60
FIELD BLANK	Metals-Water	Lead	0.088	ug/L	I	0.05	0.2
FIELD BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
FIELD BLANK	Metals-Water	Nickel	0.5	ug/L	U	0.5	2
FIELD BLANK	Metals-Water	Selenium	1	ug/L	U	1	4
FIELD BLANK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
FIELD BLANK	Metals-Water	Zinc	4	ug/L	U	4	16
FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
FIELD BLANK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
FIELD BLANK	Nutrients-Liquid	Total-P	0.015	mg P/L	U	0.015	0.04
FIELD BLANK	Overflow	Oil and Grease	1.9	mg/L	IV		
INTAKE	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	1,3,5-Trinitrobenzene	3.9	ug/L	U	3.9	16
INTAKE	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	1,4-Naphthoquinone	19	ug/L	UJ	19	78
INTAKE	BNA-Water	1-Naphthylamine	9.7	ug/L	U	9.7	39
INTAKE	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	2,4,5-Trichlorophenol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
INTAKE	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
INTAKE	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2,6-Dichlorophenol	0.97	ug/L	U	0.97	3.9

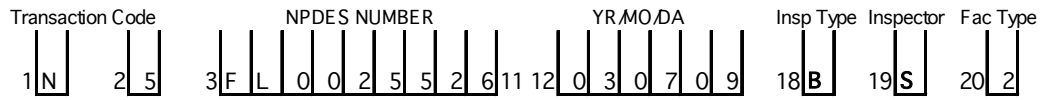
Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
INTAKE	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2-Acetylaminofluorene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	2-Methylnaphthalene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2-Naphthylamine	9.7	ug/L	U	9.7	39
INTAKE	BNA-Water	2-Nitroaniline	0.97	ug/L	UJ	0.97	3.9
INTAKE	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	2-Picoline	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
INTAKE	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	UJ	19	78
INTAKE	BNA-Water	3-Methylcholanthrene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	3-Nitroaniline	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	4-Aminobiphenyl	3.9	ug/L	U	3.9	16
INTAKE	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	4-Chloroaniline	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	4-Nitroaniline	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
INTAKE	BNA-Water	5-Nitro-o-toluidine	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	7,12-Dimethylbenz(a)anthracene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Acetophenone	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	Aniline	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Azobenzene/1,2-Diphenylhydrazine	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Benzidine	97	ug/L	U	97	390
INTAKE	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Benzyl alcohol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	Bis(2-ethylhexyl)phthalate	47	ug/L	UJ	15	58
INTAKE	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
INTAKE	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
INTAKE	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Dibenzofuran	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Dieldrin	1.5	ug/L	UJ	1.5	5.8
INTAKE	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
INTAKE	BNA-Water	Dimethylaminoazobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Dinoseb	3.9	ug/L	U	3.9	16
INTAKE	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
INTAKE	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
INTAKE	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
INTAKE	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
INTAKE	BNA-Water	Ethyl methanesulfonate	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	Hexachloropropene	1.9	ug/L	UJ	1.9	7.8
INTAKE	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Isosafrole	0.97	ug/L	UJ	0.97	3.9
INTAKE	BNA-Water	Methapyrilene	3.9	ug/L	UJ	3.9	16
INTAKE	BNA-Water	Methyl methanesulfonate	0.97	ug/L	UJ	0.97	3.9
INTAKE	BNA-Water	N-Nitrosodi-n-butylamine	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	N-Nitrosodiethylamine	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	UJ	1.9	7.8
INTAKE	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	N-Nitrosomorpholine	0.97	ug/L	UJ	0.97	3.9
INTAKE	BNA-Water	N-Nitrosopiperidine	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	78
INTAKE	BNA-Water	Pentachlorobenzene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Pentachloroethane	49	ug/L	U	49	190
INTAKE	BNA-Water	Pentachloronitrobenzene	0.97	ug/L	UJ	0.97	3.9
INTAKE	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
INTAKE	BNA-Water	Phenacetin	3.9	ug/L	U	3.9	12
INTAKE	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	Pyridine	3.9	ug/L	U	3.9	16
INTAKE	BNA-Water	Safrole	0.97	ug/L	U	0.97	3.9
INTAKE	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
INTAKE	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.8
INTAKE	BNA-Water	o-Toluidine	0.97	ug/L	U	0.97	3.9
INTAKE	GC-Water	Alachlor	0.64	ug/L	U	0.64	2.56
INTAKE	GC-Water	Ametryn	0.054	ug/L	U	0.054	0.216
INTAKE	GC-Water	Atrazine	0.054	ug/L	U	0.054	0.216
INTAKE	GC-Water	Azinphos Methyl	0.054	ug/L	U	0.054	0.216
INTAKE	GC-Water	Bromacil	0.22	ug/L	U	0.22	0.88
INTAKE	GC-Water	Butylate	0.22	ug/L	U	0.22	0.88
INTAKE	GC-Water	Chlorpyrifos Ethyl	0.054	ug/L	U	0.054	0.216
INTAKE	GC-Water	Chlorpyrifos Methyl	0.11	ug/L	U	0.11	0.44
INTAKE	GC-Water	Diazinon	0.054	ug/L	U	0.054	0.216
INTAKE	GC-Water	Ethion	0.054	ug/L	U	0.054	0.216
INTAKE	GC-Water	Ethoprop	0.11	ug/L	U	0.11	0.44
INTAKE	GC-Water	Fenamiphos	0.22	ug/L	U	0.22	0.88
INTAKE	GC-Water	Fonofos	0.11	ug/L	U	0.11	0.44
INTAKE	GC-Water	Hexazinone	0.11	ug/L	U	0.11	0.44
INTAKE	GC-Water	Malathion	0.16	ug/L	U	0.16	0.64

Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
INTAKE	GC-Water	Metalaxyl	0.27	ug/L	U	0.27	1.08
INTAKE	GC-Water	Metolachlor	0.54	ug/L	U	0.54	2.16
INTAKE	GC-Water	Metribuzin	0.11	ug/L	U	0.11	0.44
INTAKE	GC-Water	Mevinphos	0.22	ug/L	U	0.22	0.88
INTAKE	GC-Water	Naled	0.86	ug/L	U	0.86	3.44
INTAKE	GC-Water	Norflurazon	0.11	ug/L	U	0.11	0.44
INTAKE	GC-Water	Parathion Ethyl	0.16	ug/L	U	0.16	0.64
INTAKE	GC-Water	Parathion Methyl	0.11	ug/L	U	0.11	0.44
INTAKE	GC-Water	Phorate	0.054	ug/L	U	0.054	0.216
INTAKE	GC-Water	Prometryn	0.16	ug/L	U	0.16	0.64
INTAKE	GC-Water	Simazine	0.054	ug/L	U	0.054	0.216
INTAKE	Metals-Water	Aluminum	77	ug/L	J	10	40
INTAKE	Metals-Water	Arsenic	0.75	ug/L	U	0.75	3
INTAKE	Metals-Water	Cadmium	0.026	ug/L	I	0.025	0.1
INTAKE	Metals-Water	Calcium	40.3	mg/L		0.05	0.2
INTAKE	Metals-Water	Chromium	2	ug/L	U	2	8
INTAKE	Metals-Water	Copper	3	ug/L	I	1.2	4.8
INTAKE	Metals-Water	Iron	189	ug/L		15	60
INTAKE	Metals-Water	Lead	0.4	ug/L		0.05	0.2
INTAKE	Metals-Water	Magnesium	6.9	mg/L		0.02	0.08
INTAKE	Metals-Water	Nickel	0.75	ug/L	I	0.5	2
INTAKE	Metals-Water	Selenium	1	ug/L	U	1	4
INTAKE	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
INTAKE	Metals-Water	Zinc	4.7	ug/L	I	4	16
INTAKE	Nutrients-Liquid	Ammonia-N	0.016	mg N/L	I	0.01	0.02
INTAKE	Nutrients-Liquid	NO2NO3-N	0.051	mg N/L		0.004	0.01
INTAKE	Nutrients-Liquid	N_KJEL_TOT	0.26	mg N/L	A	0.06	0.2
INTAKE	Nutrients-Liquid	O-Phosphate-P	0.034	mg P/L		0.004	0.01
INTAKE	Nutrients-Liquid	TSS	4	mg/L	U	4	16
INTAKE	Nutrients-Liquid	Total-P	0.052	mg P/L	A	0.015	0.04
INTAKE	Overflow	Oil and Grease	2.9	mg/L	IV		

The Bioassay of the City of Tallahassee's Purdom Generating Station effluent sampled on July 9, 2003, NPDES #FL0025526.

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

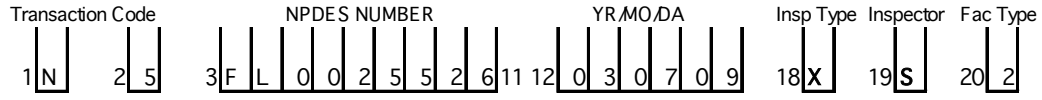


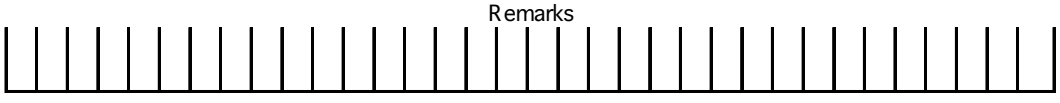


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The Priority Pollutants Analysis for Bioassay of the City of Tallahassee's Purdom Generating Station effluent sampled on July 9, 2003, NPDES #FL0025526.

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





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