

Bioassays of

Florida Power & Light Company- Cutler Power Plant

Dade County

NPDES #FL0001481

Sampled August 8, 2005

November 2005

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Florida Power & Light Company Cutler Power Plant, 14925 SW 67 Avenue, Florida City, Dade County, Florida, NPDES #FL0001481. Effluent samples for this facility were collected on August 8, 2005.

Introduction

The Florida Power and Light Cutler Power Plant is an electric power generating plant, which consists of two fossil fuel units (Units 5 and 6) with a combined total nameplate rating of 232 Megawatts. These generating units are normally used only during periods of peak power demand. The facility has a design flow of 297 million gallons per day (MGD) and had an annual average daily flow of 177.4 MGD from August 2004 through July 2005. Once-through condenser cooling water from Biscayne Bay, auxiliary cooling water from saline wells, and supplemental cooling water from the intake canal are discharged through Outfall D-001. Non-equipment area uncontaminated storm water is intermittently discharged through Outfall D-003, and intake screen wash water is intermittently discharged through outfall D-004. All three outfalls are located approximately at Latitude 25º37'52" North and Longitude 80º17'56" West and discharge to the Class III Marine Outstanding Florida Waters of Biscayne Bay. No chemicals are added and no treatment is provided for the once-through condenser cooling water, auxiliary cooling water, and intake screen wash water. The discharge of all other wastewater from the operation of Units 5 and 6 is treated by one or more of the following: neutralization, chemical precipitation, sedimentation, and/or oil/water separation prior to final disposal in an on-site evaporation/percolation pond. These wastewaters include: air heater wash water, boiler chemical cleaning wastewater, boiler fireside wash water, demineralizer backwash water, boiler blowdown, laboratory and sampling streams, plant and equipment area floor drains, dust collector wash, ash sluice, and reverse osmosis/electro-deionization reject water.

This facility has no Administrative or Consent orders. The facility has no toxicity requirements or mixing zones (facility information provided by Tjerk van Veen of FDEP Southeast District).

Methods

Samples were collected from the EFF-1 NPDES sampling point for Outfall D-001 by Terry Davis (FDEP Southeast District) 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 48-hour acute screening toxicity tests and algal growth potential test were performed following internal DEP SOP's TA07_03, TA07_04, and TA08_01 through TA08_09. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp. The Department uses the 48-hour acute screening toxicity test to provide reasonable assurance that the facility does not adversely affect waters of the state.

Toxicity Test Results

Tests were performed August 9 - 11, 2005.

Americamysis bahia 48-hour acute screening bioassay –	LC_{50} > 100%, 0% mortality* in 100% sample at 48 hours
Menidia beryllina 48-hour acute screening bioassay –	LC_{50} > 100%, 5% mortality* in 100% sample at 48 hours

The bioassay sample was not acutely toxic to the test organisms.

See Appendix 1 for bioassay bench sheets.

*NOTE: In a 48-hour acute screening test of 100% effluent, mortality of <20% provides reasonable assurance that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Rule 62-302.500 (1)(a)4, F.A.C.). Mortality between 20-50% mortality indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% provides reasonable assurance that the effluent fails to meet the minimum requirement to discharge to waters of the state (Rule 62-4.244(3)(a), F.A.C.).

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 0.496 mg dry wt/L of *Dunaliella tertiolecta.* This value is between the laboratory method detection limit (MDL) and practical quantitation limit (PQL) of 0.300 and 0.900 mg dry wt/L, respectively. Raschke and Shultz found that AGP values above 10.0 mg dry weight/L represent a "problem" threshold for marine receiving waters, implying nutrient enrichment (personal communication with Ron Raschke USEPA Region 4 1987). The analytical chemistry suggests that the effluent is phosphorus-limited. Total phosphorus and ortho-phosphate were not detected in the effluent sample; therefore, neither AGP predictions nor nitrogen to phosphorus ratios are calculable.

See Table 1 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 collected and preserved for chemical analysis was 0.049 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L.

The effluent's concentration of dissolved oxygen, estimated at 3.1 mg/L based on a field meter reading of 44% saturation at 34.51ºC (100% saturation = 7.07 mg/L at 34ºC and 6.95 mg/L at 35ºC at sea level), was in violation of the Class III marine criterion for dissolved oxygen of ≥4.0 mg/L (62-302.530(31), F.A.C.). When measured in the laboratory, the dissolved oxygen concentration of the effluent sample was 5.3 mg/L.

Iron was detected between the laboratory method detection limit (MDL) and practical quantitation limit (PQL).

See Table 2 for results of analytes detected in the effluent, and corresponding limits.

See Appendix 2 for a complete list of chemical analyses performed.

Conclusion

The effluent sample collected from Outfall D-001 for this facility on August 8, 2005, was not acutely toxic to the mysid, *A. bahia,* or the fish, *M. beryllina*, during the acute screen 48-hour bioassays. The effluent AGP result was less than the "problem" threshold for marine receiving waters. The effluent dissolved oxygen was in violation of the Class III marine water quality standard.

Table 1. Measured and predicted algal growth potential (AGP; mg dry wt/L) of Dunaliella tertiolecta *and nitrogen to phosphorus ratios for samples collected from Florida Power & Light Cutler Power Plant on August 8, 2005.*

Location	AGP (measured)	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	0.496 AIV	Not Applicable*	Not Applicable*

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
V - Analyte was detected in both the sample and method blank
* - Ortho-phosphate and total phosphorus were not detected in the analytical chemistry sample, so predictions could not be made and N:P ratios could not be calculated.

Table 2. Effluent limits, Class Marine III Criteria, and chemical data for samples collected from Florida Power & Light Company Cutler Power Plant on August 8, 2005.

FPL Cutler NPDES# FL 0001481	Class III Marine Stds	Effluent Limits	Effluent Samples
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1,500	-	5 U
Arsenic	≤ 50	-	4 U
Cadmium	≤ 9.3	-	0.5 U
Calcium (mg/L)	-	-	335
Chromium-III	-	-	2 U
Copper	≤ 3.7	-	5 U
Iron	≤ 300	-	33 I
Lead	≤ 8.5	-	0.75 U
Magnesium (mg/L)	-	-	965
Nickel	≤ 8.3	-	2 U
Selenium	≤ 71	-	6 U
Silver	≤ 2.3	-	0.25 U
Zinc	≤ 86	-	3 U
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.004 U
Total Phosphorus	-	-	0.02 U
Ammonia	-	-	0.049
Unionized Ammonia	-	-	≤ 0.02 c
Nitrate+Nitrite	-	-	0.046
Total Kjeldahl Nitrogen	-	-	1.3
Organic Nitrogen	-	-	1.25 c
Total Nitrogen	-	-	1.35 c
General Physical and Chemical Parameters			
pH (S.U.)	6.5-8.5	-	7.5
Conductivity (umhos/cm)	-	-	30,020
Dissolved Oxygen (mg/L)	≥ 4.0	-	3.1
Temperature (C)	-	Report	34.5
Oil and Grease (mg/L)	≤ 5.0	-	1.7 UJ
Flow (AADF in MGD)	-	≤ 297	177.4 a
Hardness (mg/L)	-	-	4,810.4 c

Value exceeds the Class III Marine Water Quality Criteria (62-302, F.A.C.) and/or Effluent Limits

a - Annual average

c - Calculated value

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

J - Estimated value

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

FDEP Biology Section - Acute Bioassay Bench Sheets

Facility: FPL Cutler Plant

Address: 14925 SW 67th Avenue

City: Miami County: Dade

Contact/District: Terry Davis / SED

NPDES Permit #: FL 0001481

LIMS Job #: TLH-2005-08-09-14 LIMS Sample #: 855854

Lims Data Entry: 8-12-05 MF Data Entry Verification: 8-12-05 SP

Sample Collection: Date: 8-8-05 Time: 1015

Hold time Start: Date: 8-8-05 Time: 1015

Comments: ~~The Acrobat test is Reported as NO Result because the concurrent SRT (Standard Reference Toxicant test) demonstrated that the test organisms were much hardier than usual.~~ MF - 8-12-05.
TEST reported as LC50 > 100% due to successful follow-up SRT test. MF 11-20-05

(1) Total Power, NSW Salinity = 122 mg/L DH 8/9/05.

Instructions (for below): Circle appropriate wording. If yes is circled complete blanks.

Test Type: ~~Screening~~/Definitive
(Static) / Static Renewal / Flow-through
Test Duration: (48) 96 Hours
Light Intensity : 50 - 100 ft. candles
Photoperiod : 16 hours light 8 hours dark
Initial sample handling:

Test 1 validation: Test 1: SOP TA07_03
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No
Test 2 validation: Test 2: SOP TA07_04
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

pH adjustment : yes (no) Initial pH NaOH N HCl N Drops mL Final pH
Aeration : yes (no) Initial DO: mg/L Final DO: mg/L Duration: minutes Rate: - bubbles/min
Salinity adjusted (Test 1): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine
Salinity adjusted (Test 2): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine
Dechlorination: yes (no) mL of 0.025N Sodium thiosulfate per liter of sample. Final TRC

Temperature Range °C
Incubator # 2 Range 23.8-25.9
Room B246: 23.6-24.2
Waterbath: N/A

Sample Validation:
Temperature: Shipped ≤6°C (Yes) No Hand Delivered: Cooling (received °C < collected °C) Yes No
Holding Time: ≤36 Hours (Yes) No (Composite-end of collection; grab-when collected; 4 in 24 - time last sample collected)

Investigators' Signatures
Cristina
Sarah Pritchard
Deanna McClellan
Marshall Faircloth
James Daniels
Heidi Hollandorf
REVIEWER

Water Quality Parameters	20% DMW	Well Water	Salt Water ASW (NSW) Test 1	Salt Water ASW (NSW) Test 2	Moderately Hard Water	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	N/A	N/A	N/A	N/A	N/A	Not measured		-	SP
Lab Total Residual Cl2 (mg/L):			<0.03	<0.03		<0.03	HACH	SP	DN
Alkalinity (mg/L as $CaCO_3$):			120122	122		102	HACH	DN	SP
Hardness (mg/L as $CaCO_3$):			-	-		-	HACH	-	SP
Total Ammonia (mg/L as N):			<0.051	<0.051		<0.051	DENVER	MF	SP
Salinity (ppth):			25.6 MF	25.6 MF		25.8 SP	YSI Mettler	SP/MF	MF

V.1.6 7/1/05

Page 000041

Appendix 1. Bench Sheets (continued)



FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 855854 Test #: 1 Test Started: Date 8-9-05 Time: 1430
Organism: A. bahia Test Ended: Date 8-11-05 Time: 1400
Organism Batch: 17-05 Diluent/ Batch: ASW / 10-05
Organism Age: 4 days Food: YCT *P. subcapitata* *Artemia*
Chamber Size 1000 mL Batch: - - 351384 25 GR
Test Volume 500 mL Feeding: Prior to test - Prior to renewal Daily

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	A1	5	5	4/0			
	B	A2	5	5	5			
	C	A3	5	5	5			
	D	A4	5	5	5			
100%	A	A5	5	5	5			
	B	A6	5	5	5			
	C	A7	5	5	5			
	D	A8	5	5	5			
Organisms loaded by: SR		Checked by: [redacted]		JD	JD			
Loading verified at 0 hours by: DN		(initials)						

Comments:

m = missing d = dead BR = before renewal AR = after renewal
Test Results:
% mortality in 100% sample 0
LC_{50}: >100 If Calculated: 95% CI _____ Method: _____
Screening Tests: Report LC50 as >100%, =100%, or <100%.
Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

v1.2 3/8/05

Page 000042

Appendix 1. Bench Sheets (continued)

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FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 855854 Test #: 2 Test Started: Date 3-9-05 Time: 1400
Organism: M. beryllina Test Ended: Date 3-11-05 Time: 1400
Organism Batch: 16-05 Diluent/ Batch: ASW / 10-05
Organism Age: 11 days Food: YCT *P. subcapitata* *Artemia*
Chamber Size 1000 mL Batch: - - 3513842GR
Test Volume 500 mL Feeding: (Prior to test) - Prior to renewal - Daily

Concentration	Replicate	Chamber #	Test Hour: 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	A9	5	5	5			
	B	A10	5	5	5			
	C	A11	5	5	5			
	D	A12	5	5	5			
100%	A	A13	5	5	5			
	B	A14	5	4 1D	4			
	C	A15	5	5	5			
	D	A16	5	5	5			
Organisms loaded by: SP Loading verified at 0 hours by: EW		Checked by: (initials)	[redacted]	EF	JD			

Comments: ~~The SRT performed with the same batch of organisms showed that the test organisms were hardier than normal.~~ mf 8-12-05

m = missing d = dead BR = before renewal AR = after renewal

Test Results:
% mortality in 100% sample 5
LC_{50}: >100 If Calculated: 95% CI ______ Method: ______ ~~Reported as no result~~, mf 8/12/05

Screening Tests: Report LC50 as >100%, =100%, or <100%.
Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

Reported as LC50 >100 due to successful following SRT. MF 11-20-05

Page 000043 v1.2 3/8/05

Bioassay Parameters

LIMS Sample #: 855854 **Test #:** 1 of 2

TEST SOP: TA07_ 03 Test Species: *Ceriodaphnia dubia Cyprinella leedsi Pimephales promelas* ~~*Americamysis bahia*~~ *Menidia beryllina* Other:_____

V.1 2/24/04

Concentration: Control	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.2	7.9	7.7			
Temperature °C	24.3	24.2	24.1			
Dissolved Oxygen mg/L	6.8	6.1	5.4			
Conductivity µmhos (mmhos)	39.8	41.5	41.6			
(initials) Measured by:	MF	JD	JD			
(initials) Recorded by:	MF	JD	JD			

Comments:

Concentration: 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.0	7.9	7.9			
Temperature °C	24.3	24.1	24.2			
Dissolved Oxygen mg/L	5.3	5.7	5.4			
Conductivity µmhos (mmhos)	40.4	41.0	41.6			
(initials) Measured by:	MF	JD	JD			
(initials) Recorded by:	MF	JD	JD			

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

v1.1 2/24/04

000044

Bioassay Parameters

LIMS Sample # : 855854 **Test # :** 2 **of** 2

TEST SOP: TA07_ 04 **Test Species:** *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:_____

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.2	7.9	7.9			
Temperature °C	24.2	24.1	24.3			
Dissolved Oxygen mg/L	6.8	6.2	6.0			
Conductivity µmhos (mmhos)	39.9	41.1	41.8			
(initials) Measured by:	MF	JD	JD			
(initials) Recorded by:	MF	JD	JD			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.0	8.0	8.0			
Temperature °C	24.3	24.0	24.1			
Dissolved Oxygen mg/L	5.3	6.0	5.8			
Conductivity µmhos (mmhos)	40.4	40.7	41.5			
(initials) Measured by:	MF	JD	JD			
(initials) Recorded by:	MF	JD	JD			

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

[redacted]

Appendix 2. Chemical Analyses performed on the effluent from the Florida Power & Light Company Cutler Power Plant Outfall D-001, sampled on August 8, 2005.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:15	Effluent	Bio-AGP/LimNut	Algal Growth Potential	0.496	mg DryWt/L	AIV	0.3	0.9
8/8/2005 10:15	Effluent	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	1.9	ug/L	I	0.85	2.6
8/8/2005 10:15	Effluent	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0	ug/L	J	0.85	2.6
8/8/2005 10:15	Effluent	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	No Result	LC50			
8/8/2005 10:15	Effluent	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
8/8/2005 10:15	Effluent	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
8/8/2005 10:15	Effluent	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
8/8/2005 10:15	Effluent	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
8/8/2005 10:15	Effluent	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	UJ	38	150
8/8/2005 10:15	Effluent	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
8/8/2005 10:15	Effluent	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
8/8/2005 10:15	Effluent	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:15	Effluent	BNA-Water	Benzidine	95	ug/L	U	95	380
8/8/2005 10:15	Effluent	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
8/8/2005 10:15	Effluent	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
8/8/2005 10:15	Effluent	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
8/8/2005 10:15	Effluent	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
8/8/2005 10:15	Effluent	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
8/8/2005 10:15	Effluent	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
8/8/2005 10:15	Effluent	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
8/8/2005 10:15	Effluent	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
8/8/2005 10:15	Effluent	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
8/8/2005 10:15	Effluent	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
8/8/2005 10:15	Effluent	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:15	Effluent	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
8/8/2005 10:15	Effluent	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
8/8/2005 10:15	Effluent	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
8/8/2005 10:15	Effluent	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	UJ	1.9	7.6
8/8/2005 10:15	Effluent	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
8/8/2005 10:15	Effluent	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
8/8/2005 10:15	Effluent	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
8/8/2005 10:15	Effluent	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
8/8/2005 10:40	Field Blank	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
8/8/2005 10:40	Field Blank	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58
8/8/2005 10:40	Field Blank	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
8/8/2005 10:40	Field Blank	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	UJ	38	150
8/8/2005 10:40	Field Blank	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:40	Field Blank	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
8/8/2005 10:40	Field Blank	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Benzidine	96	ug/L	U	96	380
8/8/2005 10:40	Field Blank	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
8/8/2005 10:40	Field Blank	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
8/8/2005 10:40	Field Blank	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
8/8/2005 10:40	Field Blank	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
8/8/2005 10:40	Field Blank	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
8/8/2005 10:40	Field Blank	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
8/8/2005 10:40	Field Blank	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
8/8/2005 10:40	Field Blank	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
8/8/2005 10:40	Field Blank	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:40	Field Blank	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
8/8/2005 10:40	Field Blank	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
8/8/2005 10:40	Field Blank	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
8/8/2005 10:40	Field Blank	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
8/8/2005 10:40	Field Blank	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
8/8/2005 10:40	Field Blank	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
8/8/2005 10:40	Field Blank	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	UJ	1.9	7.7
8/8/2005 10:40	Field Blank	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
8/8/2005 10:40	Field Blank	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
8/8/2005 10:40	Field Blank	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
8/8/2005 10:40	Field Blank	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
8/8/2005 10:15	Effluent	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
8/8/2005 10:15	Effluent	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
8/8/2005 10:15	Effluent	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
8/8/2005 10:15	Effluent	GC-Water	Azinphos Methyl	0.2	ug/L	U	0.2	0.8
8/8/2005 10:15	Effluent	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
8/8/2005 10:15	Effluent	GC-Water	Butylate	0.2	ug/L	UJ	0.2	0.8
8/8/2005 10:15	Effluent	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
8/8/2005 10:15	Effluent	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
8/8/2005 10:15	Effluent	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
8/8/2005 10:15	Effluent	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
8/8/2005 10:15	Effluent	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
8/8/2005 10:15	Effluent	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
8/8/2005 10:15	Effluent	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
8/8/2005 10:15	Effluent	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
8/8/2005 10:15	Effluent	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:15	Effluent	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
8/8/2005 10:15	Effluent	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
8/8/2005 10:15	Effluent	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
8/8/2005 10:15	Effluent	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
8/8/2005 10:15	Effluent	GC-Water	Naled	0.8	ug/L	U	0.8	3.2
8/8/2005 10:15	Effluent	GC-Water	Norflurazon	0.15	ug/L	U	0.15	0.6
8/8/2005 10:15	Effluent	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
8/8/2005 10:15	Effluent	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
8/8/2005 10:15	Effluent	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
8/8/2005 10:15	Effluent	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
8/8/2005 10:15	Effluent	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
8/8/2005 10:40	Field Blank	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.3
8/8/2005 10:40	Field Blank	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.19
8/8/2005 10:40	Field Blank	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.19
8/8/2005 10:40	Field Blank	GC-Water	Azinphos Methyl	0.19	ug/L	U	0.19	0.76
8/8/2005 10:40	Field Blank	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
8/8/2005 10:40	Field Blank	GC-Water	Butylate	0.19	ug/L	UJ	0.19	0.76
8/8/2005 10:40	Field Blank	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.19
8/8/2005 10:40	Field Blank	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
8/8/2005 10:40	Field Blank	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.19
8/8/2005 10:40	Field Blank	GC-Water	Ethion	0.048	ug/L	U	0.048	0.19
8/8/2005 10:40	Field Blank	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
8/8/2005 10:40	Field Blank	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
8/8/2005 10:40	Field Blank	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
8/8/2005 10:40	Field Blank	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
8/8/2005 10:40	Field Blank	GC-Water	Malathion	0.14	ug/L	UJ	0.14	0.56
8/8/2005 10:40	Field Blank	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
8/8/2005 10:40	Field Blank	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.9
8/8/2005 10:40	Field Blank	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
8/8/2005 10:40	Field Blank	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
8/8/2005 10:40	Field Blank	GC-Water	Naled	0.76	ug/L	U	0.76	3
8/8/2005 10:40	Field Blank	GC-Water	Norflurazon	0.14	ug/L	U	0.14	0.56
8/8/2005 10:40	Field Blank	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56

Appendix 2. Chemical Analyses (continued)

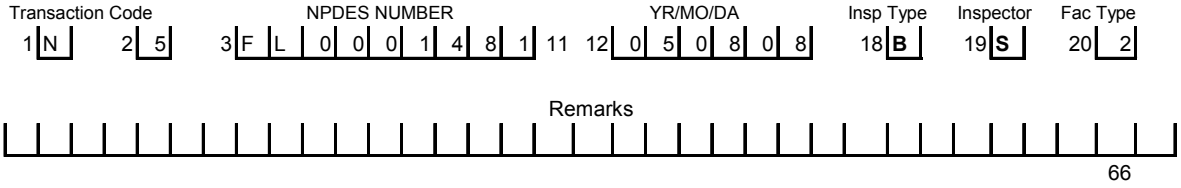
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:40	Field Blank	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
8/8/2005 10:40	Field Blank	GC-Water	Phorate	0.048	ug/L	U	0.048	0.19
8/8/2005 10:40	Field Blank	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
8/8/2005 10:40	Field Blank	GC-Water	Simazine	0.048	ug/L	U	0.048	0.19
8/8/2005 10:15	Effluent	Metals-Water	Aluminum	5	ug/L	U	5	20
8/8/2005 10:15	Effluent	Metals-Water	Arsenic	4	ug/L	U	4	16
8/8/2005 10:15	Effluent	Metals-Water	Cadmium	0.5	ug/L	U	0.5	2
8/8/2005 10:15	Effluent	Metals-Water	Calcium	335	mg/L		1	4
8/8/2005 10:15	Effluent	Metals-Water	Chromium	2	ug/L	U	2	8
8/8/2005 10:15	Effluent	Metals-Water	Copper	5	ug/L	U	5	20
8/8/2005 10:15	Effluent	Metals-Water	Iron	33	ug/L	I	30	120
8/8/2005 10:15	Effluent	Metals-Water	Lead	0.75	ug/L	U	0.75	3
8/8/2005 10:15	Effluent	Metals-Water	Magnesium	965	mg/L		0.2	0.8
8/8/2005 10:15	Effluent	Metals-Water	Nickel	2	ug/L	U	2	8
8/8/2005 10:15	Effluent	Metals-Water	Selenium	6	ug/L	U	6	24
8/8/2005 10:15	Effluent	Metals-Water	Silver	0.25	ug/L	U	0.25	1
8/8/2005 10:15	Effluent	Metals-Water	Zinc	3	ug/L	U	3	12
8/8/2005 10:40	Field Blank	Metals-Water	Aluminum	5	ug/L	U	5	20
8/8/2005 10:40	Field Blank	Metals-Water	Arsenic	4	ug/L	U	4	16
8/8/2005 10:40	Field Blank	Metals-Water	Cadmium	0.13	ug/L	U	0.13	0.52
8/8/2005 10:40	Field Blank	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
8/8/2005 10:40	Field Blank	Metals-Water	Chromium	2	ug/L	U	2	8
8/8/2005 10:40	Field Blank	Metals-Water	Copper	0.5	ug/L	U	0.5	2
8/8/2005 10:40	Field Blank	Metals-Water	Iron	10	ug/L	U	10	40
8/8/2005 10:40	Field Blank	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
8/8/2005 10:40	Field Blank	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
8/8/2005 10:40	Field Blank	Metals-Water	Nickel	2	ug/L	U	2	8
8/8/2005 10:40	Field Blank	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
8/8/2005 10:40	Field Blank	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
8/8/2005 10:40	Field Blank	Metals-Water	Zinc	3	ug/L	U	3	12
8/8/2005 10:15	Effluent	Nutrients-Liquid	Ammonia-N	0.049	mg N/L		0.01	0.02
8/8/2005 10:15	Effluent	Nutrients-Liquid	Kjeldahl Nitrogen	1.3	mg N/L		0.12	0.4
8/8/2005 10:15	Effluent	Nutrients-Liquid	NO2NO3-N	0.046	mg N/L		0.004	0.01

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/8/2005 10:15	Effluent	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
8/8/2005 10:15	Effluent	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
8/8/2005 10:40	Field Blank	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
8/8/2005 10:40	Field Blank	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
8/8/2005 10:40	Field Blank	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
8/8/2005 10:40	Field Blank	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
8/8/2005 10:40	Field Blank	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
8/8/2005 10:15	Effluent	Overflow	Oil and Grease	1.7	mg/L	UJ		
8/8/2005 10:40	Field Blank	Overflow	Oil and Grease	1.7	mg/L	U		

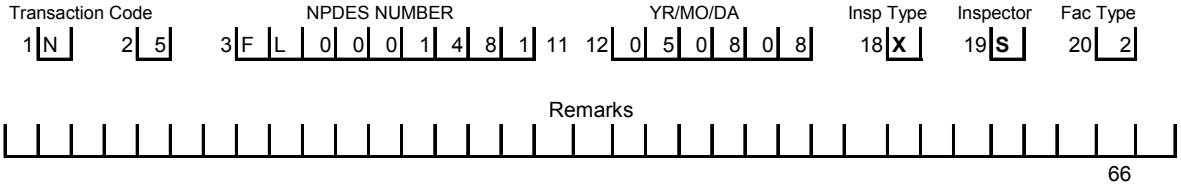
The Bioassay of Florida Power & Light Cutler Power Plant effluent sampled on August 8, 2005. NPDES #FL0001481.

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



The Priority Pollutants Analysis of Florida Power & Light Cutler Power Plant effluent sampled on August 8, 2005. NPDES #FL0001481.

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



Biological Analyses of Florida Power & Light Cutler Power Plant effluent sampled on August 8, 2005. NPDES #FL0001481.

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

