

Bioassays of

Tampa Electric Company- Bayside

(formerly Tampa Electric Company – F. J. Gannon Station)

Hillsborough County

NPDES #FL0000809

Sampled June 27, 2005

September 2005

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Tampa Electric Company - Bayside, 3602 Port Sutton Rd., Tampa, Hillsborough County, Florida, NPDES #FL0000809. Effluent samples for this facility were collected on June 27, 2005.

Introduction

The Tampa Electric Company Bayside facility (formerly known as Tampa Electric Company - F. J. Gannon Station) is a natural gas-fired electric power generation facility. The facility has a design flow of 1,346.3 million gallons per day (MGD). The mean flow from June 2004 through May 2005 was 560 MGD. The flow during the sampling event was 600.5 MGD. Effluent from the facility is routed through a common discharge flume (Outfall D-001) and is composed primarily of once-through cooling water from Hillsborough Bay. Minor components of the effluent are recycle tank blow-down and reverse osmosis (RO) concentrate blow-down. Effluent is not treated prior to discharge though outfall D-001 into the Class III marine waters of Hillsborough Bay.

There are no Administrative Orders or Consent Orders concerning this facility. The facility has no mixing zones. There have been several violations of flow within the past year. A revision (dated March 5, 2003) was made to the permit describing changes to discharges from internal outfalls, I-037, and I-040. These changes were associated with the re-powering of the plant as a natural gas facility instead of a coal-fired plant (facility information provided Lori Pillsbury of FDEP Southwest District).

Methods

Samples were collected from the D-001 NPDES sampling point by Lori Pillsbury and Nahir Cornwell (FDEP Southwest 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_07. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp. While the 48-hour acute screening toxicity test does not reflect the permit required conditions, the Department uses it to provide reasonable assurance that the facility does not adversely affect waters of the state.

The control water for these tests was prepared by adding sufficient natural seawater (salinity of 40 parts per thousand (ppth)) to aged artificial seawater (salinity of 20 ppth) to produce a solution of 23.1 ppth salinity. The salinity of the effluent sample (23.3 ppth) was not adjusted.

Toxicity Test Results

Tests were performed June 28 - 30, 2005.

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

The bioassay samples were not acutely toxic to the test organisms.

See Appendix 1 for bioassay bench sheets.

*NOTE: In a 48-hr 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 1.07 mg dry wt/L of *Dunaliella tertiolecta.* 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 nitrogen-limited.

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 0.038 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L.

Aluminum was detected in the effluent at levels that comply with the Class III marine water quality criterion. Iron and selenium were detected between the laboratory minimum detection limits (MDL) and practical quantitation limits (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 June 27, 2005, was not acutely toxic to either test species during the acute screening 48-hour bioassays. The effluent AGP result was less than the "problem” threshold for marine receiving waters. Effluent water quality samples did not exceed any applicable water quality standards or violate any permit conditions.

Literature Cited

Maloney, T. E., W. E. Miller, and D. T. Specht. 1974. The Marine Algal Assay Procedure: Bottle Test. National Environmental Research Center Office of Research and Development. U. S. EPA, Corvallis, Oregon. 43 p.

Table 1. Algal growth potential (AGP; mg dry wt/L) of Dunaliella tertiolecta *and nitrogen to phosphorus ratios for samples collected from Tampa Electric Company Bayside facility on June 27, 2005.*

Location	AGP	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	1.07	0.16	2.32

Table 2. Effluent limits, Class III Marine Criteria and chemical data for samples from Tampa Bay Electric Company Bayside facility on June 27, 2005.

TECO Bayside NPDES# FL0000809	Class III Marine Stds	Effluent Limits	Effluent Samples
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1500	-	89
Arsenic	≤ 50	-	8 U
Cadmium	≤ 9.3	-	0.5 U
Calcium (mg/L)	-	-	271
Chromium-III	-	-	9.4 U
Copper	≤ 3.7	≤ 3.7	5 U
Iron	≤ 300	≤ 300	66 I
Lead	≤ 8.5	-	0.75 U
Magnesium (mg/L)	-	-	876
Nickel	≤ 8.3	-	9.8 U
Selenium	≤ 71	-	5.3 I
Silver	≤ 2.3	-	0.25 U
Zinc	≤ 86	-	6 U
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.31
Total Phosphorus	-	-	0.38
Ammonia	-	-	0.038
Unionized Ammonia	-	-	< 0.02
Nitrate+Nitrite	-	-	0.013
Total Kjeldahl Nitrogen	-	-	0.87
Organic Nitrogen	-	-	0.83 c
Total Nitrogen	-	-	0.88 c
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥ 4 s	-	5.4
pH (S.U.)	6.5-8.5 s	-	7.8
Conductivity (umhos/cm)	-	-	38,407
Temperature (C)	-	Report	38.5
BOD (mg/L)	-	-	1.8 AI
TSS (mg/L)	-	-	4 U
Turbidity (NTU)	29 t	-	2
Flow (MGD)	-	Report	560 a

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

a - Annual average

c - calculated value

s - Single sample

t - Shall not exceed 29 NTUs 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.

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

FDEP Biology Section - Acute Bioassay Bench Sheets

Facility: TECO Bayside (former TECO F.J. Gannon Station)
Address: 3602 Port Sutton Rd.
City: Tampa County: Hillsborough
Contact/District: Lori Pillsbury
NPDES Permit #: FL 0000809
LIMS Job #: TLH-2005-06-28-03 LIMS Sample #: 845257

Sample Collection: Date: 6-27-05 Time: 0930
Hold time Start: Date: 6-27-05 Time: 0930

Comments: * Not Received
The control water for these tests was prepared by adding artificial salt water of 40 ppth salinity (ppth) to de-ionized water to decrease the salinity to 20 ppth salinity (233 ppth). Sample salinity was not adjusted. MF 7-1-05

Lims Data Entry: 7-6-05 MF Data Entry Verification: 6 7-7-05 CB

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_01
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 # 3 Range 24.5 - 24.8°C
Room B246: 23.7 - 24.0 °C
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
Frank Pinkard
Dawn Hilchey
Erin Kemp
Marshall Faircloth
Kristi Mitchell
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	-	-	-
Lab Total Residual Cl2 (mg/L):			<0.03	<0.03		0.33	HACH	EK	EK
Alkalinity (mg/L as $CaCO_3$):			221	221		142	HACH	EK	MF
Hardness (mg/L as $CaCO_3$):			N/M*	N/M*		N/M*	HACH	N/M*	SP
Total Ammonia (mg/L as N):			0.051	0.051		0.051	DENVER	DN	SP
Salinity (ppth):			23.1	23.1		23.3	YSI Mettler	DN	SP

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Appendix 1. Bench Sheets (continued)

FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 845257 Test #: 1 Test Started: Date 6-28-05 Time: 1445

Organism: A. bahia Test Ended: Date 6-30-05 Time: 1430

Organism Batch: 13-05 Diluent/ Batch: ASW / 8-05

Organism Age: 4 days Food: YCT *P. subcapitata* (*Artemia*) 35138425 GR

Chamber Size 1000 mL Batch:

Test Volume 500 mL Feeding: (Prior to test) Prior to renewal (Daily)

			Test Hour					
Concentration	Replicate	Chamber #	0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	E1	5	5	5			
	B	E2	5	5	5			
	C	E3	5	5	5			
	D	E4	5	5	5			
100%	A	E5	5	5	5			
	B	E6	5	5	5			
	C	E7	5	5	5			
	D	E8	5	5	5			
Organisms loaded by: SP	Checked by:			SP	DN			

Loading verified at 0 hours by: ω (initials)

Comments:

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

Test Results:

% mortality in 100% sample Ø

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).

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Appendix 1. Bench Sheets (continued)

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FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 845257 Test #: 2 Test Started: Date 6-28-05 Time: 1530
Organism: M. beryllina Test Ended: Date 6-30-05 Time: 1515
Organism Batch: 12-05 Diluent/ Batch: ASW / 8-05
Organism Age: 11 days Food: YCT P. subcapitata (Artemia)
Chamber Size 1000 mL Batch: ___ ___ 35138425GR
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	E9	5	5	5			
	B	E10	5	5	5			
	C	E11	5	5	5			
	D	E12	5	5	5			
100%	A	E13	5	5	5			
	B	E14	5	5	5			
	C	E15	5	5	5			
	D	E16	5	5	5			
Organisms loaded by: SP		Checked by:	[redacted]	SP	DN			

Loading verified at 0 hours by: DN DN (initials)

Comments:

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

Test Results:

% mortality in 100% sample Ø

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).

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Appendix 1. Bench Sheets (continued)

Bioassay Parameters

LIMS Sample #: 845257 Test #: 1 of 2

TEST SOP: TA07_03 Test Species: *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:

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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.)	8.3	8.2	8.1			
Temperature °C	24.2	24.2	24.1			
Dissolved Oxygen mg/L	6.8	6.4	6.1			
Conductivity µmhos mmhos	35.7	36.8	37.9			
(initials) Measured by:	DN	DN	SP			
(initials) Recorded by:	DN	DN	SP			

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.)	8.1	8.0	7.9			
Temperature °C	24.2	24.3	24.1			
Dissolved Oxygen mg/L	6.1	6.5	5.8			
Conductivity µmhos mmhos	36.8	37.6	38.4			
(initials) Measured by:	DN	DN	SP			
(initials) Recorded by:	DN	DN	SP			

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:

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Bioassay Parameters

LIMS Sample # : 845257 **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.)	8.3	8.2	8.2			
Temperature °C	24.1	24.1	24.5			
Dissolved Oxygen mg/L	6.9	6.4 (A)	6.0			
Conductivity µmhos (mmhos)	36.1	36.8	38.2			
(initials) Measured by:	DN	DN	SB			
(initials) Recorded by:	DN	DN	SB			

Comments: (A) Entry error from 0 hr. DN. D.O. @ 24 hr. = 6.2 mg/L

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.)	8.1	8.0	8.3			
Temperature °C	24.1	24.1	24.1			
Dissolved Oxygen mg/L	6.1	6.6	8.6			
Conductivity µmhos (mmhos)	36.8	37.6	38.8			
(initials) Measured by:	DN	DN	SB			
(initials) Recorded by:	DN	DN	SB			

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:

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Appendix 2. Chemical Analyses performed on the effluent from the Tampa Bay Electric Company Bayside facility Outfall D-001, sampled on June 27, 2005.

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:30	Outfall D-001	Bio-AGP/LimNut	Algal Growth Potential	1.07	mg DryWt/L	AV	0.3	0.9
6/27/2005 9:30	Outfall D-001	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.8	mg/L	AI		
6/27/2005 9:30	Outfall D-001	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	8.3	ug/L		0.85	2.6
6/27/2005 9:30	Outfall D-001	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0	ug/L		0.85	2.6
6/27/2005 9:30	Outfall D-001	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
6/27/2005 9:30	Outfall D-001	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
6/27/2005 9:30	Outfall D-001	BNA-Water	1,2,4-Trichlorobenzene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	1,2-Dichlorobenzene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	1,3-Dichlorobenzene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	1,4-Dichlorobenzene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	2,4,6-Trichlorophenol	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	2,4-Dichlorophenol	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	2,4-Dimethylphenol	54	ug/L	U	54	220
6/27/2005 9:30	Outfall D-001	BNA-Water	2,4-Dinitrophenol	16	ug/L	U	16	65
6/27/2005 9:30	Outfall D-001	BNA-Water	2,4-Dinitrotoluene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	2,6-Dinitrotoluene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	2-Chloronaphthalene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	2-Chlorophenol	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	2-Methyl-4,6-dinitrophenol	3.3	ug/L	U	3.3	13
6/27/2005 9:30	Outfall D-001	BNA-Water	2-Nitrophenol	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	3,3'-Dichlorobenzidine	43	ug/L	UJ	43	170
6/27/2005 9:30	Outfall D-001	BNA-Water	4,4'-DDD	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	4,4'-DDE	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	4,4'-DDT	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	4-Bromophenyl phenyl ether	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	4-Chloro-3-methylphenol	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	4-Chlorophenyl phenyl ether	2.2	ug/L	U	2.2	8.7
6/27/2005 9:30	Outfall D-001	BNA-Water	4-Nitrophenol	16	ug/L	U	16	65
6/27/2005 9:30	Outfall D-001	BNA-Water	Acenaphthene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Acenaphthylene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Aldrin	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	alpha-BHC	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Anthracene	1.1	ug/L	U	1.1	4.3

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:30	Outfall D-001	BNA-Water	Benzidine	110	ug/L	U	110	430
6/27/2005 9:30	Outfall D-001	BNA-Water	Benzo(a)anthracene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Benzo(a)pyrene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Benzo(b)fluoranthene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Benzo(g,h,i)perylene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Benzo(k)fluoranthene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	beta-BHC	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Bis(2-chloroethoxy)methane	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Bis(2-chloroethyl)ether	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Bis(2-chloroisopropyl)ether	3.3	ug/L	U	3.3	13
6/27/2005 9:30	Outfall D-001	BNA-Water	Bis(2-ethylhexyl)phthalate	16	ug/L	U	16	65
6/27/2005 9:30	Outfall D-001	BNA-Water	Butyl benzyl phthalate	5.4	ug/L	U	5.4	22
6/27/2005 9:30	Outfall D-001	BNA-Water	Chrysene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	delta-BHC	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Dibenzo(a,h)anthracene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Dieldrin	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Diethyl phthalate	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Dimethyl phthalate	54	ug/L	U	54	220
6/27/2005 9:30	Outfall D-001	BNA-Water	Di-n-butyl phthalate	5.4	ug/L	U	5.4	22
6/27/2005 9:30	Outfall D-001	BNA-Water	Di-n-octyl phthalate	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Endosulfan I	4.3	ug/L	U	4.3	17
6/27/2005 9:30	Outfall D-001	BNA-Water	Endosulfan II	4.3	ug/L	U	4.3	17
6/27/2005 9:30	Outfall D-001	BNA-Water	Endosulfan sulfate	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Endrin	1.6	ug/L	UJ	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Endrin aldehyde	4.3	ug/L	U	4.3	17
6/27/2005 9:30	Outfall D-001	BNA-Water	Fluoranthene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Fluorene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	gamma-BHC	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Heptachlor	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Heptachlor epoxide	1.6	ug/L	U	1.6	6.5
6/27/2005 9:30	Outfall D-001	BNA-Water	Hexachlorobenzene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Hexachlorobutadiene	3.3	ug/L	U	3.3	13
6/27/2005 9:30	Outfall D-001	BNA-Water	Hexachlorocyclopentadiene	3.3	ug/L	U	3.3	13
6/27/2005 9:30	Outfall D-001	BNA-Water	Hexachloroethane	3.3	ug/L	U	3.3	13

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:30	Outfall D-001	BNA-Water	Indeno(1,2,3-cd)pyrene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Isophorone	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Naphthalene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Nitrobenzene	2.2	ug/L	U	2.2	8.7
6/27/2005 9:30	Outfall D-001	BNA-Water	N-Nitrosodimethylamine	2.2	ug/L	U	2.2	8.7
6/27/2005 9:30	Outfall D-001	BNA-Water	N-Nitrosodi-n-propylamine	2.2	ug/L	U	2.2	8.7
6/27/2005 9:30	Outfall D-001	BNA-Water	N-Nitrosodiphenylamine	3.3	ug/L	UJ	3.3	13
6/27/2005 9:30	Outfall D-001	BNA-Water	Pentachlorophenol	3.3	ug/L	U	3.3	13
6/27/2005 9:30	Outfall D-001	BNA-Water	Phenanthrene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Phenol	1.1	ug/L	U	1.1	4.3
6/27/2005 9:30	Outfall D-001	BNA-Water	Pyrene	1.1	ug/L	U	1.1	4.3
6/27/2005 9:50	blank	BNA-Water	1,2,4-Trichlorobenzene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	1,2-Dichlorobenzene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	1,3-Dichlorobenzene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	1,4-Dichlorobenzene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	2,4,6-Trichlorophenol	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	2,4-Dichlorophenol	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	2,4-Dimethylphenol	50	ug/L	U	50	200
6/27/2005 9:50	blank	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
6/27/2005 9:50	blank	BNA-Water	2,4-Dinitrotoluene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	2,6-Dinitrotoluene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	2-Chloronaphthalene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	2-Chlorophenol	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	2-Methyl-4,6-dinitrophenol	3	ug/L	U	3	12
6/27/2005 9:50	blank	BNA-Water	2-Nitrophenol	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	3,3'-Dichlorobenzidine	40	ug/L	UJ	40	160
6/27/2005 9:50	blank	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	4-Bromophenyl phenyl ether	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	4-Chloro-3-methylphenol	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.9
6/27/2005 9:50	blank	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
6/27/2005 9:50	blank	BNA-Water	Acenaphthene	0.99	ug/L	U	0.99	4

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:50	blank	BNA-Water	Acenaphthylene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Anthracene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Benzidine	99	ug/L	U	99	400
6/27/2005 9:50	blank	BNA-Water	Benzo(a)anthracene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Benzo(a)pyrene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Benzo(b)fluoranthene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Benzo(g,h,i)perylene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Benzo(k)fluoranthene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Bis(2-chloroethoxy)methane	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Bis(2-chloroethyl)ether	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Bis(2-chloroisopropyl)ether	3	ug/L	U	3	12
6/27/2005 9:50	blank	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59
6/27/2005 9:50	blank	BNA-Water	Butyl benzyl phthalate	5	ug/L	U	5	20
6/27/2005 9:50	blank	BNA-Water	Chrysene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Dibenzo(a,h)anthracene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Diethyl phthalate	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Dimethyl phthalate	50	ug/L	U	50	200
6/27/2005 9:50	blank	BNA-Water	Di-n-butyl phthalate	5	ug/L	U	5	20
6/27/2005 9:50	blank	BNA-Water	Di-n-octyl phthalate	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Endosulfan I	4	ug/L	U	4	16
6/27/2005 9:50	blank	BNA-Water	Endosulfan II	4	ug/L	U	4	16
6/27/2005 9:50	blank	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Endrin aldehyde	4	ug/L	U	4	16
6/27/2005 9:50	blank	BNA-Water	Fluoranthene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Fluorene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
6/27/2005 9:50	blank	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:50	blank	BNA-Water	Hexachlorobenzene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Hexachlorobutadiene	3	ug/L	U	3	12
6/27/2005 9:50	blank	BNA-Water	Hexachlorocyclopentadiene	3	ug/L	U	3	12
6/27/2005 9:50	blank	BNA-Water	Hexachloroethane	3	ug/L	U	3	12
6/27/2005 9:50	blank	BNA-Water	Indeno(1,2,3-cd)pyrene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Isophorone	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Naphthalene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.9
6/27/2005 9:50	blank	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.9
6/27/2005 9:50	blank	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.9
6/27/2005 9:50	blank	BNA-Water	N-Nitrosodiphenylamine	3	ug/L	UJ	3	12
6/27/2005 9:50	blank	BNA-Water	Pentachlorophenol	3	ug/L	U	3	12
6/27/2005 9:50	blank	BNA-Water	Phenanthrene	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Phenol	0.99	ug/L	U	0.99	4
6/27/2005 9:50	blank	BNA-Water	Pyrene	0.99	ug/L	U	0.99	4
6/27/2005 9:30	Outfall D-001	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
6/27/2005 9:30	Outfall D-001	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
6/27/2005 9:30	Outfall D-001	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
6/27/2005 9:30	Outfall D-001	GC-Water	Azinphos Methyl	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
6/27/2005 9:30	Outfall D-001	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
6/27/2005 9:30	Outfall D-001	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
6/27/2005 9:30	Outfall D-001	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
6/27/2005 9:30	Outfall D-001	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
6/27/2005 9:30	Outfall D-001	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
6/27/2005 9:30	Outfall D-001	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6
6/27/2005 9:30	Outfall D-001	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
6/27/2005 9:30	Outfall D-001	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
6/27/2005 9:30	Outfall D-001	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:30	Outfall D-001	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
6/27/2005 9:30	Outfall D-001	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
6/27/2005 9:30	Outfall D-001	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
6/27/2005 9:30	Outfall D-001	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
6/27/2005 9:30	Outfall D-001	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
6/27/2005 9:30	Outfall D-001	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
6/27/2005 9:50	blank	GC-Water	Alachlor	0.65	ug/L	U	0.65	2.6
6/27/2005 9:50	blank	GC-Water	Ametryn	0.054	ug/L	U	0.054	0.22
6/27/2005 9:50	blank	GC-Water	Atrazine	0.054	ug/L	U	0.054	0.22
6/27/2005 9:50	blank	GC-Water	Azinphos Methyl	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Bromacil	0.22	ug/L	U	0.22	0.88
6/27/2005 9:50	blank	GC-Water	Butylate	0.22	ug/L	U	0.22	0.88
6/27/2005 9:50	blank	GC-Water	Chlorpyrifos Ethyl	0.054	ug/L	U	0.054	0.22
6/27/2005 9:50	blank	GC-Water	Chlorpyrifos Methyl	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Diazinon	0.054	ug/L	U	0.054	0.22
6/27/2005 9:50	blank	GC-Water	Ethion	0.054	ug/L	U	0.054	0.22
6/27/2005 9:50	blank	GC-Water	Ethoprop	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Fenamiphos	0.22	ug/L	U	0.22	0.88
6/27/2005 9:50	blank	GC-Water	Fonofos	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Hexazinone	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Malathion	0.16	ug/L	UJ	0.16	0.64
6/27/2005 9:50	blank	GC-Water	Metalaxyl	0.27	ug/L	U	0.27	1.1
6/27/2005 9:50	blank	GC-Water	Metolachlor	0.54	ug/L	U	0.54	2.2
6/27/2005 9:50	blank	GC-Water	Metribuzin	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Mevinphos	0.22	ug/L	U	0.22	0.88
6/27/2005 9:50	blank	GC-Water	Naled	0.87	ug/L	UJ	0.87	3.5
6/27/2005 9:50	blank	GC-Water	Norflurazon	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Parathion Ethyl	0.16	ug/L	U	0.16	0.64
6/27/2005 9:50	blank	GC-Water	Parathion Methyl	0.11	ug/L	U	0.11	0.44
6/27/2005 9:50	blank	GC-Water	Phorate	0.054	ug/L	U	0.054	0.22
6/27/2005 9:50	blank	GC-Water	Prometryn	0.16	ug/L	U	0.16	0.64
6/27/2005 9:50	blank	GC-Water	Simazine	0.054	ug/L	U	0.054	0.22
6/27/2005 9:30	Outfall D-001	Metals-Water	Aluminum	89	ug/L		10	40

Appendix 2. Chemical Analyses (continued)

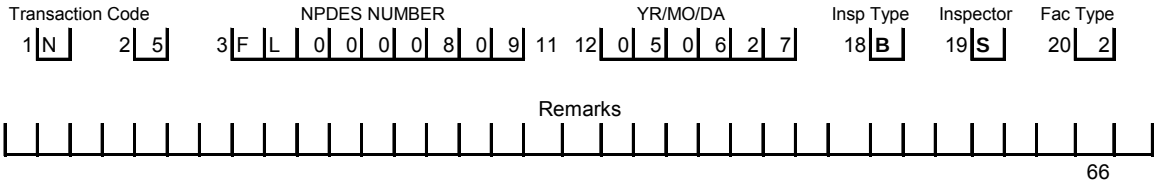
Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:30	Outfall D-001	Metals-Water	Arsenic	8	ug/L	U	8	32
6/27/2005 9:30	Outfall D-001	Metals-Water	Cadmium	0.5	ug/L	U	0.5	2
6/27/2005 9:30	Outfall D-001	Metals-Water	Calcium	271	mg/L		0.1	0.4
6/27/2005 9:30	Outfall D-001	Metals-Water	Chromium	9.4	ug/L	U	9.4	38
6/27/2005 9:30	Outfall D-001	Metals-Water	Copper	5	ug/L	U	5	20
6/27/2005 9:30	Outfall D-001	Metals-Water	Iron	66	ug/L	I	20	80
6/27/2005 9:30	Outfall D-001	Metals-Water	Lead	0.75	ug/L	U	0.75	3
6/27/2005 9:30	Outfall D-001	Metals-Water	Magnesium	876	mg/L		0.1	0.4
6/27/2005 9:30	Outfall D-001	Metals-Water	Nickel	9.8	ug/L	U	9.8	39
6/27/2005 9:30	Outfall D-001	Metals-Water	Selenium	5.3	ug/L	I	5	20
6/27/2005 9:30	Outfall D-001	Metals-Water	Silver	0.25	ug/L	U	0.25	1
6/27/2005 9:30	Outfall D-001	Metals-Water	Zinc	6	ug/L	U	6	24
6/27/2005 9:50	blank	Metals-Water	Aluminum	5	ug/L	U	5	20
6/27/2005 9:50	blank	Metals-Water	Arsenic	4	ug/L	U	4	16
6/27/2005 9:50	blank	Metals-Water	Cadmium	0.05	ug/L	U	0.05	0.2
6/27/2005 9:50	blank	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
6/27/2005 9:50	blank	Metals-Water	Chromium	2	ug/L	U	2	8
6/27/2005 9:50	blank	Metals-Water	Copper	1.1	ug/L	U	1.1	4.4
6/27/2005 9:50	blank	Metals-Water	Iron	10	ug/L	U	10	40
6/27/2005 9:50	blank	Metals-Water	Lead	0.3	ug/L	U	0.3	1.2
6/27/2005 9:50	blank	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
6/27/2005 9:50	blank	Metals-Water	Nickel	2	ug/L	U	2	8
6/27/2005 9:50	blank	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
6/27/2005 9:50	blank	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
6/27/2005 9:50	blank	Metals-Water	Zinc	5.5	ug/L	U	5.5	22
6/27/2005 9:30	Outfall D-001	Nutrients-Liquid	Ammonia-N	0.038	mg N/L		0.01	0.02
6/27/2005 9:30	Outfall D-001	Nutrients-Liquid	Kjeldahl Nitrogen	0.87	mg N/L		0.12	0.4
6/27/2005 9:30	Outfall D-001	Nutrients-Liquid	NO2NO3-N	0.013	mg N/L		0.004	0.01
6/27/2005 9:30	Outfall D-001	Nutrients-Liquid	O-Phosphate-P	0.31	mg P/L		0.04	0.1
6/27/2005 9:30	Outfall D-001	Nutrients-Liquid	Total-P	0.38	mg P/L		0.02	0.06
6/27/2005 9:30	Outfall D-001	Nutrients-Liquid	TSS	4	mg/L	U	4	16
6/27/2005 9:30	Outfall D-001	Nutrients-Liquid	Turbidity	2	NTU		0.05	0.05
6/27/2005 9:50	blank	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
6/27/2005 9:50	blank	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis	Component	Result	Units	Remark	MDL	PQL
6/27/2005 9:50	blank	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
6/27/2005 9:50	blank	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
6/27/2005 9:50	blank	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06

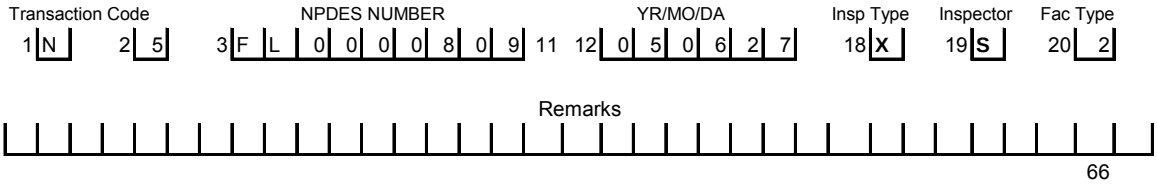
The Bioassay of Tampa Bay Electric Company Bayside facility effluent sampled on June 27, 2005. NPDES #FL0000809.

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



The Priority Pollutants Analysis of Tampa Bay Electric Company Bayside facility effluent sampled on June 27, 2005. NPDES #FL0000809.

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



Biological Analyses of Tampa Bay Electric Company Bayside facility effluent sampled on June 27, 2005. NPDES #FL0000809.

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

