

Bioassays of

Ridge Generating Station, L.P.

(Also Known As Wheelabrator)

Polk County

NPDES #FLS132772

Sampled August 22, 2005

November 2005

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Ridge Generating Station, L.P., (AKA Wheelabrator) 3131 K-Ville Avenue, Auburndale, Polk County, Florida, NPDES #FLS132772. Effluent samples for this facility were collected on August 22, 2005.

Introduction

Ridge Generating Station, L.P., is a 50-megawatt electric power generating plant that uses yard waste, waste wood, used tires, landfill gas, and propane as raw materials for fuel. The facility has no design flow. Discharge from the facility is intermittent and rainfall dependent. The monthly average flow from August 1, 2004, through July 31, 2005, was 53,761 gallons per day (GPD). The flow during the sampling event was 149,100 GPD. Process wastewater is collected, stored, treated, and reused within the plant. Industrial wastewater generated from the site consists of contact storm water runoff from the tire and wood storage areas, and storm water runoff from the entrance road swale system. This industrial wastewater is collected in an unlined detention pond. Effluent from this pond passes through a final oil and water separator and is aerated prior to being discharged off-site via Outfall D-001 to an unnamed mining reclamation lake and then to Saddle Creek, both of which are classified as Class III fresh waters. The storm water runoff from the entrance road swale system discharges via Outfall D-003 to off-site wetlands.

The Department issued Warning Letter No. MN03-001MM53SWD to the facility on May 28, 2003, to address various issues arising as the result of a Multimedia Inspection conducted on October 31, 2002. Effluent violations at Outfall D-001 of pH, total recoverable iron, and total recoverable zinc were identified and several air violations were also addressed. The facility corrected the violations indicated in the initial Warning Letter, but additional effluent violations of specific conductance, unionized ammonia, total recoverable arsenic, and total recoverable zinc at Outfall D-001 were identified by the Department after review of more recent DMRs submitted by the Facility.

A Consent Order (CO) was executed on May 24, 2004 that required the facility to submit a Source Identification Study ("SIC") and an Unlined Pond Performance Study ("UPPS"). The facility has submitted an interim report, which will suspend the surface water sampling for the unlined pond, will continue with the ground water assessment plan and dredging of the pond. A Corrective Action Plan (CAP), if needed, will be submitted after the studies are complete.

During the course of the studies, the facility had the following exceedances for total recoverable lead: 7.7 µg/L in June 2004, 4.9 µg/L in July 2004, and 4.9 µg/L in September 2004.

The Department agreed to provide an additional interim limit for total recoverable lead and an amended CO was executed on January 10, 2005. Other interim limits include those for specific conductance, unionized ammonia, zinc, and arsenic (facility information provided by Lori Pillsbury and Cindy Falandysz of FDEP Southwest District).

Methods

Samples were collected from the EFF-01 NPDES sampling point for D-001 by Lori Pillsbury and Craig Little (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_01,TA07_02, 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. 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.

Toxicity Test Results

Tests were performed August 23-25, 2005.

Ceriodaphnia dubia 48-hour acute screening bioassay – LC_{50} > 100%, 0% mortality* in 100% sample at 48 hours

Pimephales promelas 48-hour 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-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 7.4 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The analytical chemistry suggests that the effluent is nitrogen-limited. The predicted AGP based on inorganic nitrogen concentrations was 1.37 (±20%) mg dry wt/L (Table 1; Miller et al. 1978).

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 0.036 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was <0.02 mg/L. Note: The ammonia analysis was from an unpreserved or improperly preserved sample and may not be accurate (Table 2).

Aluminum, iron, lead, and zinc were detected in the effluent at levels that comply with Class III fresh water quality criteria. Chromium-III, copper, nickel, and selenium were detected between the laboratory method detection limits (MDLs) and practical quantitation limits (PQLs).

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 22, 2005, was not acutely toxic to either test species during the acute screen 48-hour bioassays. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters. Effluent water quality samples did not exceed any applicable water quality standards or violate any permit conditions.

Literature Cited

Miller, W. E., T. E. Maloney, and J. C. Greene. 1978. The *Selenastrum capricornutum* Printz algal assay bottle test. EPA-600/9-78-018. U. S. EPA, Cincinnati, Ohio. 126 p.

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. Measured and predicted algal growth potential (AGP; mg dry wt/L) of Pseudokirchneriella subcapitata *for total soluble nitrogen (TSIN) and total nitrogen (TN) limitation and ratios of nitrogen to phosphorus for samples collected from Ridge Generating Station, L.P. on August 22, 2005.*

Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (TN) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	7.4	1.37 ± 0.274	76 ± 15.2	0.03	1.43

Table 2. Effluent limits, Class III Freshwater Criteria, and chemical data for samples collected from Ridge Generating Station, L.P. on August 22, 2005.

Ridge Generating Station, L.P. NPDES# FLS132772	Class III Freshwater Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
Cyanide	≤ 5.2	≤ 5.2	0.005 U
Phenol	-	≤ 300	0.95 U
Metals (µg/L unless otherwise noted)			
Aluminum	-	-	61
Arsenic	≤ 50	≤ 80	4 U
Cadmium	≤ 1.6 b	-	0.19 U
Calcium (mg/L)	-	-	47.2
Chromium-III	≤ 119.6 b	-	2.1 I
Copper	≤ 13.1 b	-	1.3 I
Iron	≤ 1,000	≤ 1,000	288
Lead	≤ 5.3 b	≤ 19 g	0.81
Magnesium (mg/L)	-	-	7.6
Nickel	≤ 73.2 b	-	2.6 I
Selenium	≤ 5	-	0.53 I
Silver	≤ 0.07	-	0.025 U
Zinc	≤ 168.1 b	≤ 2,200 g	32
Nutrients (mg/L)			
Ortho-phosphate	-	-	1.3
Total Phosphorus	-	-	1.4 Y
Ammonia	-	-	0.036 Y
Unionized Ammonia	≤ 0.02	≤ 0.08 g	≤ 0.02 c
Nitrate+Nitrite	-	-	0.004 fUY
Total Kjeldahl Nitrogen	-	-	2 Y
Organic Nitrogen	-	-	1.96 c
Total Nitrogen	-	Report	2 c
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥ 5	≥ 5	5.8
pH (S.U.)	6.0-8.5	6.0-8.5	8
Conductivity (umhos/cm)	≤ 1,275	2500 g	486
Temperature (C)	-	Report	27
CBOD (mg/L)	-	-	3.2 eJQ
Oil and Grease (mg/L)	≤ 5	≤ 5	1.7 U
Turbidity (mg/L)	-	-	5 A
TSS (mg/L)	-	-	4 U
Flow (GPD)	-	Report	53,761 a
Alkalinity (mg/L)	≥ 20	-	163
Hardness (mg/L)	-	Report	149.2 c

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

a - Annual average

b - Value is calculated based on hardness

c - Calculated value

e - CBOD was detected in the field blank at 0.28 mg/L IJQ

f - Nitrate+Nitrite was detected in the field blank at a concentration of 0.12 mg/L

g - Interim limits established under the current Consent Order

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 limi

J - Estimated value

Q - Sample held beyond normal holding time

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

Y - The analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.

FDEP Biology Section - Acute Bioassay Bench Sheets

Facility: Ridge Generating Station, L.P.
Address: 3131 K-Ville Avenue
City: Auburndale County: Polk
Contact/District: Lori Pillsbury / Southwest Dist.
NPDES Permit #: FLS 132772
LIMS Job #: TLH-2005-08-23-33 LIMS Sample #: 859527
Lims Data Entry: 8-26-05 MF Data Entry Verification: 8-26-05 SP

Sample Collection: Date: 8-22-05 Time: 1000
Hold time Start: Date: 8-22-05 Time: 1000

Comments:

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_01
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No
Test 2 validation: Test 2: SOP TA07_02
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 24.1 - 26.4
Room 0246: 23.7 - 24.8
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
Sarah Pritchard
Erin Kinsey
Theresa Mitchell-Stephens
Marshall Faircloth
James Daniels
Nicole Wolkenhauer
REVIEWER

Water Quality Parameters	20% DMW	Well Water	Salt Water ASW NSW Test 1	Salt Water ASW NSW Test 2	~~Moderately Hard~~ Well 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	DN	SP
Alkalinity (mg/L as $CaCO_3$)	86				85	190	HACH	CW	SP
Hardness (mg/L as $CaCO_3$):	98				98	152	HACH	EW	SP
Total Ammonia (mg/L as N):	<0.017				<0.017	<0.017	DENVER	SP	NC
Salinity (ppth):	<1				<1	<1	YSI Mettler	SP	NC

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Appendix 1. Bench Sheets (continued)

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 859527 Test #: 1 Test Started: Date 8-23-05 Time: 1300

Organism: C. dubia Test Ended: Date 8-25-05 Time: 1315

Organism Batch: ~~8-25-05~~ 8-05 Diluent/ Batch: DMW 1-25-05

Organism Age: ~~7 days~~ <24 hrs Food: YCT *P. subcapitata* *Artemia*

Chamber Size 30 mL Batch: 3-05 3-05 -

Test Volume 20 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	A	5	5	5			
	B	B	5	5	5			
	C	C	5	5	5			
	D	D	5	5	5			
100%	A	A	5	5	5			
	B	B	5	5	5			
	C	C	5	5	5			
	D	D	5	5	5			
Organisms loaded by: [illegible]		Checked by: [illegible]		50	JD			
Loading verified at 0 hours by: JD		(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).

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Appendix 1. Bench Sheets (continued)

FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 859527 Test #: 2 Test Started: Date 8-23-05 Time: 1320
Organism: ~~Ctentsi~~ Pyromelas Test Ended: Date 8-25-05 Time: 1315
Organism Batch: ~~25-05~~ 12-05 Diluent/ Batch: ~~(+)W~~ MHW / ~~#~~ 6-05
Organism Age: 7 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	A1	5	5	5			
	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: SP		Checked by: (initials)	[redacted]	JD	JD			
Loading verified at 0 hours by: [illegible]			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).

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Bioassay Parameters

LIMS Sample # : 859527 Test # : 1 of 2

TEST SOP: TA07_01__ 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		C			
pH (S.U.)	8.2		8.1			
Temperature °C	24.3		24.0			
Dissolved Oxygen mg/L	7.9		7.9			
Conductivity (µmhos) mmhos	170		195			
(initials) Measured by:	DN		JD			
(initials) Recorded by:	DN		JD			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		C			
pH (S.U.)	8.2		8.5			
Temperature °C	24.2		24.0			
Dissolved Oxygen mg/L	7.1		8.1			
Conductivity (µmhos) mmhos	480		520			
(initials) Measured by:	DN		JD			
(initials) Recorded by:	DN		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:

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Bioassay Parameters

LIMS Sample # : 859527 **Test # :** 2 of 2

TEST SOP: TA07_ 02 **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	8.0	8.0			
Temperature °C	24.4	24.9	24.5			
Dissolved Oxygen mg/L	7.7	7.1	7.8			
Conductivity ~~µmhos~~ mmhos	310	380	370			
(initials) Measured by:	DN	JD	JD			
(initials) Recorded by:	DN	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.)	8.2	8.2	8.4			
Temperature °C	24.3	24.6	24.2			
Dissolved Oxygen mg/L	7.2	6.6	7.9			
Conductivity ~~µmhos~~ mmhos	485	550	540			
(initials) Measured by:	DN	JD	JD			
(initials) Recorded by:	DN	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:

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Appendix 2. Chemical Analyses performed on the effluent from the Ridge Generating Station Outfall D-001, sampled on August 22, 2005.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/22/2005 10:00	Outfall D-001	Bio-AGP/LimNut	Algal Growth Potential	7.4	mg DryWt/L		0.3	0.9
8/22/2005 10:00	Outfall D-001	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	3.2	mg/L	JQ		
8/22/2005 9:40	Field Blank	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.28	mg/L	IJQ		
8/22/2005 10:00	Outfall D-001	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
8/22/2005 10:00	Outfall D-001	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
8/22/2005 10:00	Outfall D-001	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
8/22/2005 10:00	Outfall D-001	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
8/22/2005 10:00	Outfall D-001	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
8/22/2005 10:00	Outfall D-001	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
8/22/2005 10:00	Outfall D-001	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
8/22/2005 10:00	Outfall D-001	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
8/22/2005 10:00	Outfall D-001	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
8/22/2005 10:00	Outfall D-001	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
8/22/2005 10:00	Outfall D-001	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Benzidine	95	ug/L	U	95	380

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/22/2005 10:00	Outfall D-001	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
8/22/2005 10:00	Outfall D-001	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
8/22/2005 10:00	Outfall D-001	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
8/22/2005 10:00	Outfall D-001	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
8/22/2005 10:00	Outfall D-001	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
8/22/2005 10:00	Outfall D-001	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
8/22/2005 10:00	Outfall D-001	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
8/22/2005 10:00	Outfall D-001	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
8/22/2005 10:00	Outfall D-001	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
8/22/2005 10:00	Outfall D-001	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
8/22/2005 10:00	Outfall D-001	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	11
8/22/2005 10:00	Outfall D-001	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
8/22/2005 10:00	Outfall D-001	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Naphthalene	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
8/22/2005 10:00	Outfall D-001	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
8/22/2005 10:00	Outfall D-001	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
8/22/2005 10:00	Outfall D-001	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
8/22/2005 10:00	Outfall D-001	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
8/22/2005 10:00	Outfall D-001	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
8/22/2005 10:00	Outfall D-001	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
8/22/2005 9:40	Field Blank	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
8/22/2005 9:40	Field Blank	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
8/22/2005 9:40	Field Blank	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
8/22/2005 9:40	Field Blank	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
8/22/2005 9:40	Field Blank	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
8/22/2005 9:40	Field Blank	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Benzidine	95	ug/L	U	95	380

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/22/2005 9:40	Field Blank	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
8/22/2005 9:40	Field Blank	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
8/22/2005 9:40	Field Blank	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
8/22/2005 9:40	Field Blank	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
8/22/2005 9:40	Field Blank	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
8/22/2005 9:40	Field Blank	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
8/22/2005 9:40	Field Blank	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
8/22/2005 9:40	Field Blank	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
8/22/2005 9:40	Field Blank	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
8/22/2005 9:40	Field Blank	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
8/22/2005 9:40	Field Blank	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	11
8/22/2005 9:40	Field Blank	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
8/22/2005 9:40	Field Blank	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Naphthalene	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
8/22/2005 9:40	Field Blank	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
8/22/2005 9:40	Field Blank	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
8/22/2005 9:40	Field Blank	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
8/22/2005 9:40	Field Blank	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
8/22/2005 9:40	Field Blank	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
8/22/2005 9:40	Field Blank	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
8/22/2005 9:40	Field Blank	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
8/22/2005 10:00	Outfall D-001	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
8/22/2005 10:00	Outfall D-001	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
8/22/2005 10:00	Outfall D-001	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
8/22/2005 10:00	Outfall D-001	GC-Water	Azinphos Methyl	0.2	ug/L	U	0.2	0.8
8/22/2005 10:00	Outfall D-001	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
8/22/2005 10:00	Outfall D-001	GC-Water	Butylate	0.2	ug/L	UJ	0.2	0.8
8/22/2005 10:00	Outfall D-001	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
8/22/2005 10:00	Outfall D-001	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
8/22/2005 10:00	Outfall D-001	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
8/22/2005 10:00	Outfall D-001	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
8/22/2005 10:00	Outfall D-001	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
8/22/2005 10:00	Outfall D-001	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
8/22/2005 10:00	Outfall D-001	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
8/22/2005 10:00	Outfall D-001	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
8/22/2005 10:00	Outfall D-001	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6
8/22/2005 10:00	Outfall D-001	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
8/22/2005 10:00	Outfall D-001	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
8/22/2005 10:00	Outfall D-001	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
8/22/2005 10:00	Outfall D-001	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
8/22/2005 10:00	Outfall D-001	GC-Water	Naled	0.8	ug/L	U	0.8	3.2
8/22/2005 10:00	Outfall D-001	GC-Water	Norflurazon	0.15	ug/L	UJ	0.15	0.6
8/22/2005 10:00	Outfall D-001	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
8/22/2005 10:00	Outfall D-001	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
8/22/2005 10:00	Outfall D-001	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
8/22/2005 10:00	Outfall D-001	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
8/22/2005 10:00	Outfall D-001	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
8/22/2005 9:40	Field Blank	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.3
8/22/2005 9:40	Field Blank	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.19

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/22/2005 9:40	Field Blank	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.19
8/22/2005 9:40	Field Blank	GC-Water	Azinphos Methyl	0.19	ug/L	U	0.19	0.76
8/22/2005 9:40	Field Blank	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
8/22/2005 9:40	Field Blank	GC-Water	Butylate	0.19	ug/L	UJ	0.19	0.76
8/22/2005 9:40	Field Blank	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.19
8/22/2005 9:40	Field Blank	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
8/22/2005 9:40	Field Blank	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.19
8/22/2005 9:40	Field Blank	GC-Water	Ethion	0.048	ug/L	U	0.048	0.19
8/22/2005 9:40	Field Blank	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
8/22/2005 9:40	Field Blank	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
8/22/2005 9:40	Field Blank	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
8/22/2005 9:40	Field Blank	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
8/22/2005 9:40	Field Blank	GC-Water	Malathion	0.14	ug/L	UJ	0.14	0.56
8/22/2005 9:40	Field Blank	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
8/22/2005 9:40	Field Blank	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.9
8/22/2005 9:40	Field Blank	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
8/22/2005 9:40	Field Blank	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
8/22/2005 9:40	Field Blank	GC-Water	Naled	0.76	ug/L	U	0.76	3
8/22/2005 9:40	Field Blank	GC-Water	Norflurazon	0.14	ug/L	UJ	0.14	0.56
8/22/2005 9:40	Field Blank	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
8/22/2005 9:40	Field Blank	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
8/22/2005 9:40	Field Blank	GC-Water	Phorate	0.048	ug/L	U	0.048	0.19
8/22/2005 9:40	Field Blank	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
8/22/2005 9:40	Field Blank	GC-Water	Simazine	0.048	ug/L	U	0.048	0.19
8/22/2005 10:00	Outfall D-001	Metals-Water	Aluminum	61	ug/L		5	20
8/22/2005 10:00	Outfall D-001	Metals-Water	Arsenic	4	ug/L	U	4	16
8/22/2005 10:00	Outfall D-001	Metals-Water	Cadmium	0.19	ug/L	U	0.19	0.76
8/22/2005 10:00	Outfall D-001	Metals-Water	Calcium	47.2	mg/L		0.05	0.2
8/22/2005 10:00	Outfall D-001	Metals-Water	Chromium	2.1	ug/L	I	2	8
8/22/2005 10:00	Outfall D-001	Metals-Water	Copper	1.3	ug/L	I	0.5	2
8/22/2005 10:00	Outfall D-001	Metals-Water	Iron	288	ug/L		10	40
8/22/2005 10:00	Outfall D-001	Metals-Water	Lead	0.81	ug/L		0.075	0.3
8/22/2005 10:00	Outfall D-001	Metals-Water	Magnesium	7.6	mg/L		0.01	0.04
8/22/2005 10:00	Outfall D-001	Metals-Water	Nickel	2.6	ug/L	I	2	8
8/22/2005 10:00	Outfall D-001	Metals-Water	Selenium	0.53	ug/L	I	0.5	2
8/22/2005 10:00	Outfall D-001	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1

Appendix 2. Chemical Analyses (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
8/22/2005 10:00	Outfall D-001	Metals-Water	Zinc	32	ug/L		3	12
8/22/2005 9:40	Field Blank	Metals-Water	Aluminum	5	ug/L	U	5	20
8/22/2005 9:40	Field Blank	Metals-Water	Arsenic	4	ug/L	U	4	16
8/22/2005 9:40	Field Blank	Metals-Water	Cadmium	0.19	ug/L	U	0.19	0.76
8/22/2005 9:40	Field Blank	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
8/22/2005 9:40	Field Blank	Metals-Water	Chromium	2	ug/L	U	2	8
8/22/2005 9:40	Field Blank	Metals-Water	Copper	0.5	ug/L	U	0.5	2
8/22/2005 9:40	Field Blank	Metals-Water	Iron	10	ug/L	U	10	40
8/22/2005 9:40	Field Blank	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
8/22/2005 9:40	Field Blank	Metals-Water	Magnesium	0.01	mg/L	U	0.01	0.04
8/22/2005 9:40	Field Blank	Metals-Water	Nickel	2	ug/L	U	2	8
8/22/2005 9:40	Field Blank	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
8/22/2005 9:40	Field Blank	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
8/22/2005 9:40	Field Blank	Metals-Water	Zinc	3	ug/L	U	3	12
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	Alkalinity	163	mg CaCO3/L		0.65	2.5
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	Ammonia-N	0.036	mg N/L	Y	0.01	0.02
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	Cyanide	0.005	mg CN/L	U	0.005	0.02
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	Kjeldahl Nitrogen	2	mg N/L	Y	0.12	0.4
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	UY	0.004	0.01
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	O-Phosphate-P	1.3	mg P/L		0.08	0.2
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	Total-P	1.4	mg P/L	Y	0.1	0.3
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	TSS	4	mg/L	U	4	16
8/22/2005 10:00	Outfall D-001	Nutrients-Liquid	Turbidity	5	NTU	A	0.05	0.05
8/22/2005 9:40	Field Blank	Nutrients-Liquid	Alkalinity	0.65	mg CaCO3/L	U	0.65	2.5
8/22/2005 9:40	Field Blank	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
8/22/2005 9:40	Field Blank	Nutrients-Liquid	Cyanide	0.005	mg CN/L	U	0.005	0.02
8/22/2005 9:40	Field Blank	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
8/22/2005 9:40	Field Blank	Nutrients-Liquid	NO2NO3-N	0.12	mg N/L		0.004	0.01
8/22/2005 9:40	Field Blank	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
8/22/2005 9:40	Field Blank	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
8/22/2005 10:00	Outfall D-001	Overflow	Oil and Grease	1.7	mg/L	U		
8/22/2005 9:40	Field Blank	Overflow	Oil and Grease	1.7	mg/L	U		

The Bioassay of Ridge Generating Station, L.P. effluent sampled on August 22, 2005. NPDES #FLS132772.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L S 1 3 2 7 7 2 11	12 0 5 0 8 2 2	18 **B**	19 **S**	20 2

Remarks

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The Priority Pollutants Analysis of Ridge Generating Station, L.P. effluent sampled on August 22, 2005. NPDES #FLS132772.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L S 1 3 2 7 7 2 11	12 0 5 0 8 2 2	18 **X**	19 **S**	20 2

Remarks

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Biological Analyses of Ridge Generating Station, L.P. effluent sampled on August 22, 2005. NPDES #FLS132772.

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

Transaction Code	NPDES NUMBER	YR/MO/DA	Insp Type	Inspector	Fac Type
1 N 2 5	3 F L S 1 3 2 7 7 2 11	12 0 5 0 8 2 2	18 **S**	19 **S**	20 2

Remarks

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