

Bioassays of

Riverside Plaza

Duval County

NPDES #FL0039691

Sampled February 28, 2005

June 2005

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Riverside Plaza, 111 Riverside Avenue, Jacksonville, Duval County, Florida, NPDES #FL0039691. Effluent samples for this facility were collected on February 28, 2005.

Introduction

Riverside Plaza is an office building complex, which uses once-through non-contact cooling water in its air conditioning system. The cooling system has a maximum flow of 2.1 million gallons per day (MGD). The system had an annual average daily flow of 1.3 MGD from January - December 2004. Water for the cooling system is withdrawn from the Class III Marine waters of the St. Johns River, passes through the system, and is discharged back into the river through Outfall D-001, a submerged 0.254 meter (10 inch) diameter pipe located 15.2 meters (50 feet) offshore under a concrete pier at approximately 30º 19' 20" N latitude and 81º 40' 10" W longitude. Although the permit authorizes a chlorination/dechlorination system consisting of hypochlorite and sodium sulfite, no chlorination has been used at the facility for several years. The facility has a mixing zone for temperature, which extends approximately 6.1 m (20 feet) in all directions from the point of discharge to the water surface and encompasses an area of approximately 116.8 square meters (1,257 square feet). There is no toxicity testing requirement in the permit. There have been no known exceedances of permit limits within the past two years (facility summary provided by Jeremy RiCharde of FDEP Northeast District).

Methods

Samples were collected from the D-001 NPDES sampling point by Jeremy RiCharde and Eesa Ali (FDEP Northeast 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 96-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

Toxicity Test Results

Tests were performed March 1-5, 2005.

Americamysis bahia 96-hr acute screening bioassay –	LC_{50} > 100%, 5%* mortality in 100% sample at 96 hours
Menidia beryllina 96-hr acute screening bioassay –	LC_{50} > 100%, 5%* mortality in 100% sample at 96 hours

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

See Appendix 1 for bioassay bench sheets.

*NOTE: In a 96-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 15.1 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 co-limited by nitrogen and phosphorus.

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 0.032 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 Class III marine water quality criteria. Lead, nickel, and zinc were detected between the laboratory minimum detection limits (MDL) and practical quantitation limits (PQL).

The effluent iron level (565 µg/L) exceeded the Marine Water Quality Standards of ≤300 µg/L (62-302.530(39), F.A.C.).

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 D-001 for this facility on February 28, 2005, was not acutely toxic to either test species during the 96-hour bioassays. The effluent AGP result exceeded the "problem” threshold for marine receiving waters. The effluent iron level exceeded the Marine Water Quality criterion.

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 weight/L) of Dunaliella tertiolecta *and N:P ratios for samples collected from Riverside Plaza on February 28, 2005.*

Location	AGP	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	15.1	3.49	14.3

Table 2. Effluent limits, Class III Marine Criteria and chemical data for samples collected from Riverside Plaza on February 28, 2005.

Riverside Plaza NPDES# FL0039691	Class III Marine Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
None Detected	-	-	-
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1,500	-	453
Arsenic	≤ 50	-	6 U
Cadmium	≤ 9.3	-	0.37 U
Calcium (mg/L)	-	-	169
Chromium-III	-	-	2 U
Copper	≤ 3.7	-	2.5 U
Iron	≤ 300	-	565
Lead	≤ 8.5	-	1.05 I
Magnesium (mg/L)	-	-	555
Nickel	≤ 8.3	-	2.8 I
Selenium	≤ 71	-	2.5 U
Silver	≤ 2.3	-	0.13 U
Zinc	≤ 86	-	5.7 I
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.075
Total Phosphorus	-	-	0.1
Ammonia	-	-	0.032
Unionized Ammonia	-	-	<0.02c
Nitrate+Nitrite	-	-	0.23
Total Kjeldahl Nitrogen	-	-	1.2
Organic Nitrogen	-	-	1.17 c
Total Nitrogen	-	-	1.43 c
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥ 4	-	8.8
pH (S.U.)	6.5-8.5	6.5-8.5 s	7.8
Conductivity (umhos/cm)	-	-	24,370
Temperature (C)	-	-	17.4

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

c - calculated value

s - Single sample

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: Riverside Plaza
Address: 111 Riverside Avenue
City: Jacksonville **County:** Duval
Contact/District: Jeremy Richards – Northeast
NPDES Permit #: FL 0039691
LIMS Job #: TLH-2005-03-01-15 **LIMS Sample #:** 818938

Sample Collection: Date: 02-28-2005 Time: 14:00
Hold time Start: Date: 02-28-2005 Time: 14:00

Comments:
(A) NM = not measured verified from field sheet MF 3.8.05
(B) Control water is 20 ppth salinity ASW diluted with well water to ~ 15.2 ppth salinity - MF 3.8.05

Lims Data Entry: MF 3.8.05 Data Entry Verification: 3-8-05 PW

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:
Control survival ≥90% (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation:
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

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)

Temperature Range °C
Incubator # 3 Range 24.2-25.4
Room B246: 23.1-23.5
Waterbath: Na

Investigators' Signatures
Sarah Rudnick
Marshall Faircloth
Nicole Wolansky
Deanna Nicholson
Jason Daniels
Nicole Wolansky
REVIEWER

Water Quality Parameters	20% DMW	15‰ ASW (A) 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	NM (A)	Not Measured		MF
Lab Total Residual Cl2 (mg/L):		<0.03				<0.03	HACH	SR MF	SF
Alkalinity (mg/L as $CaCO_3$):		~~350~~ 345				118	HACH	SR	MF
Hardness (mg/L as $CaCO_3$):		NM (A)				NM (A)	HACH	—	—
Total Ammonia (mg/L as N):		<0.034				<0.034	DENVER	MF	SF
Salinity (ppth):		~15.2				~15.5	YSI (Mettler)	MF	PW

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FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 818938 Test #: 1

Test Started: Date 3-1-05 Time: 1400

Organism: A. bahia ASW 2-05

Test Ended: Date 3/5/05 Time: 1210

Organism Batch: 5-05 Diluent/ Batch: [illegible]

Organism Age: 4 days Food: YCT P. subcapitata Artemia

Chamber Size 100 mL Batch: — — 371134256

Test Volume 50 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	F1	5	5	5	5	5	5
	B	F2	5	5	5	5	5	5
	C	F3	5	5	5	5	5	5
	D	F4	5	5	5	5	5	5
100%	A	A21	5	4/D	4	4	4	4
	B	A22	5	5	5	5	5	5
	C	A23	5	5	5	5	5	5
	D	A24	5	5	-	5	5	5
Organisms loaded by: MF		Checked by:	NKW	DN	MF	DN	DN	DN

Loading Verified by: NKW (initials)

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

Comments: Test acheduled for FW. Salient Sample arrived. organisms changed, MF 3-8-05

Test Results:

% mortality in 100% sample 5

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 #: 818938 Test #: 2 Test Started: Date 3-1-05 Time: 1400

Organism: ~~Cteodar~~ M bahia ASW 2.05 Test Ended: Date 3/5/05 Time: 1215

Organism Batch: 5-05 Diluent/ Batch: ~~HW 2.7~~ / ~~NA~~

Organism Age: 10 days Food: YCT *P. subcapitata* (Artemia)

Chamber Size 1000 mL Batch: ___ ___ 37113435G

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	A13	5	5	5	5	5	5
	B	A14	5	5	5	5	5	5
	C	A15	5	5	5	5	5	5
	D	A16	5	4 D	4	4	4	4
100%	A	A 7	5	4 D	4	4	4	4
	B	A 3	5	5	5	5	5	5
	C	A 2	5	5	5	5	5	5
	D	A 10	5	5	5	5	5	5

Organisms loaded by: MF Checked by: MRV JD DN DN DN DN

Loading Verified by: MRV (initials)

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

Comments: test scheduled for FW Solinx Sample received organisms changed MF-3-05

Test Results:

% mortality in 100% sample 5

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 #: 816183 Test #: 1 of 2

TEST SOP: TA07_ ct02 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	C	D	A
pH (S.U.)	8.13	8.32	8.2	8.3	8.3	8.3
Temperature °C	24.9	24.0	25.4	24.1	24.0	24.7
Dissolved Oxygen mg/L	7.0	6.1	5.3	6.2	5.5	6.8
Conductivity µmhos mmhos	24.4	24.7	25.1	24.8	25.4	24.3
(Initials) Measured by:	NLW	DN	DN	SP	DN	DN
(Initials) Recorded by:	NLW	DN	SP/DN	SP	DN	DN

Comments:

Concentration 100%/0	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.97	7.94	7.7	8.0	7.9	8.0
Temperature °C	24.6	24.0	24.4	24.2	25.5	24.9
Dissolved Oxygen mg/L	7.9	6.2	5.5	7.1	6.2	6.5
Conductivity µmhos mmhos	25.2	25.4	25.7	25.0	25.9	25.6
(Initials) Measured by:	NLW	DN	DN	SP	DN	DN
(Initials) Recorded by:	NLW	DN	DN/NLW	SP	DN	DN

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 1. Bench Sheets (continued)

Bioassay Parameters

LIMS Sample #: 818983 Test #: 2 of 2

TEST SOP: TA07_~~a2304~~ 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	C	D	A
pH (S.U.)	8.41	8.31	8.2	8.3	8.3	8.4
Temperature °C	24.6	24.0	24.7	24.1	25.5	24.4
Dissolved Oxygen mg/L	7.0	5.9	5.7	6.7	5.8	6.3
Conductivity µmhos mmhos	21.5	25.0	25.1	25.3	25.3	25.6
(initials) Measured by:	N/A	DN	DN	SF	DN	DN
(initials) Recorded by:	N/A	DN	DN	SF	DN	DN

Comments: @ Entry error, Temperature recorded in wrong box for 96hrs

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.43	8.00	7.9	7.9	7.9	7.9
Temperature °C	24.1	24.1	25.1	24.2	25.0	25.8
Dissolved Oxygen mg/L	7.0	6.1	6.4	7.1	5.9	6.4
Conductivity µmhos mmhos	25.2	25.6	26.1	25.2	25.8	25.6
(initials) Measured by:	N/A	DN	DN	SF	DN	DN
(initials) Recorded by:	N/A	DN	DN	SF	DN	DN

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 Riverside Plaza Outfall D001, sampled on February 28, 2005.

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/28/2005 14:00	FINAL EFFLUENT	Bio-AGP/LimNut	Algal Growth Potential	15.1	mg DryWt/L	A	0.3	0.9
2/28/2005 14:00	FINAL EFFLUENT	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	1.7	ug/L	U	1.7	5.1
2/28/2005 14:00	FINAL EFFLUENT	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	1.7	ug/L	U	1.7	5.1
2/28/2005 14:00	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	LC50	L		
2/28/2005 14:00	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	LC50	L		
2/28/2005 14:00	FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
2/28/2005 14:00	FIELD BLANK	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
2/28/2005 14:00	FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
2/28/2005 14:00	FIELD BLANK	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	UJ	38	150
2/28/2005 14:00	FIELD BLANK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
2/28/2005 14:00	FIELD BLANK	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
2/28/2005 14:00	FIELD BLANK	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Benzidine	95	ug/L	U	95	380
2/28/2005 14:00	FIELD BLANK	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	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
2/28/2005 14:00	FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
2/28/2005 14:00	FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
2/28/2005 14:00	FIELD BLANK	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
2/28/2005 14:00	FIELD BLANK	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
2/28/2005 14:00	FIELD BLANK	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
2/28/2005 14:00	FIELD BLANK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
2/28/2005 14:00	FIELD BLANK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
2/28/2005 14:00	FIELD BLANK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
2/28/2005 14:00	FIELD BLANK	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
2/28/2005 14:00	FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
2/28/2005 14:00	FIELD BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
2/28/2005 14:00	FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
2/28/2005 14:00	FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
2/28/2005 14:00	FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
2/28/2005 14:00	FIELD BLANK	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
2/28/2005 14:00	FIELD BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
2/28/2005 14:00	FIELD BLANK	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
2/28/2005 14:00	FIELD BLANK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FIELD BLANK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7

Appendix 2. Chemical Analyses (continued)

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/28/2005 14:00	FIELD BLANK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	1,2-Dichlorobenzene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	1,3-Dichlorobenzene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	1,4-Dichlorobenzene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dichlorophenol	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dimethylphenol	50	ug/L	U	50	200
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	60
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dinitrotoluene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2,6-Dinitrotoluene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2-Chloronaphthalene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2-Chlorophenol	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	2-Nitrophenol	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	40	ug/L	UJ	40	160
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	8
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	4-Nitrophenol	15	ug/L	U	15	60
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Acenaphthene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Acenaphthylene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Aldrin	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Anthracene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Benzidine	100	ug/L	U	100	400
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Benzo(a)anthracene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Benzo(a)pyrene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Benzo(b)fluoranthene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Benzo(k)fluoranthene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	60
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Butyl benzyl phthalate	5	ug/L	U	5	20

Appendix 2. Chemical Analyses (continued)

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Chrysene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Di-n-butyl phthalate	5	ug/L	U	5	20
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Di-n-octyl phthalate	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Diethyl phthalate	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Dimethyl phthalate	50	ug/L	U	50	200
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Endosulfan I	4	ug/L	U	4	16
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Endosulfan II	4	ug/L	U	4	16
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Endrin	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Endrin aldehyde	4	ug/L	U	4	16
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Fluoranthene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Fluorene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Hexachlorobenzene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Hexachlorobutadiene	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Hexachloroethane	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Isophorone	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	8
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	8
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Naphthalene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Nitrobenzene	2	ug/L	U	2	8
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Pentachlorophenol	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Phenanthrene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Phenol	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	Pyrene	1	ug/L	U	1	4
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FINAL EFFLUENT	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	6
2/28/2005 14:00	FIELD BLANK	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.3
2/28/2005 14:00	FIELD BLANK	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.2
2/28/2005 14:00	FIELD BLANK	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.2
2/28/2005 14:00	FIELD BLANK	GC-Water	Azinphos Methyl	0.049	ug/L	UJ	0.049	0.2

Appendix 2. Chemical Analyses (continued)

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/28/2005 14:00	FIELD BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/28/2005 14:00	FIELD BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/28/2005 14:00	FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.2
2/28/2005 14:00	FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.097	ug/L	U	0.097	0.39
2/28/2005 14:00	FIELD BLANK	GC-Water	Diazinon	0.049	ug/L	UJ	0.049	0.2
2/28/2005 14:00	FIELD BLANK	GC-Water	Ethion	0.049	ug/L	U	0.049	0.2
2/28/2005 14:00	FIELD BLANK	GC-Water	Ethoprop	0.097	ug/L	U	0.097	0.39
2/28/2005 14:00	FIELD BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/28/2005 14:00	FIELD BLANK	GC-Water	Fonofos	0.097	ug/L	U	0.097	0.39
2/28/2005 14:00	FIELD BLANK	GC-Water	Hexazinone	0.097	ug/L	U	0.097	0.39
2/28/2005 14:00	FIELD BLANK	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
2/28/2005 14:00	FIELD BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
2/28/2005 14:00	FIELD BLANK	GC-Water	Metolachlor	0.49	ug/L	U	0.49	2
2/28/2005 14:00	FIELD BLANK	GC-Water	Metribuzin	0.097	ug/L	U	0.097	0.39
2/28/2005 14:00	FIELD BLANK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
2/28/2005 14:00	FIELD BLANK	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.1
2/28/2005 14:00	FIELD BLANK	GC-Water	Norflurazon	0.097	ug/L	U	0.097	0.39
2/28/2005 14:00	FIELD BLANK	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
2/28/2005 14:00	FIELD BLANK	GC-Water	Parathion Methyl	0.097	ug/L	U	0.097	0.39
2/28/2005 14:00	FIELD BLANK	GC-Water	Phorate	0.049	ug/L	U	0.049	0.2
2/28/2005 14:00	FIELD BLANK	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
2/28/2005 14:00	FIELD BLANK	GC-Water	Simazine	0.049	ug/L	U	0.049	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Atrazine	0.05	ug/L	U	0.05	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Azinphos Methyl	0.05	ug/L	UJ	0.05	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Diazinon	0.05	ug/L	UJ	0.05	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2

Appendix 2. Chemical Analyses (continued)

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
2/28/2005 14:00	FINAL EFFLUENT	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
2/28/2005 14:00	FIELD BLANK	Metals-Water	Aluminum	5	ug/L	U	5	20
2/28/2005 14:00	FIELD BLANK	Metals-Water	Arsenic	6	ug/L	U	6	24
2/28/2005 14:00	FIELD BLANK	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
2/28/2005 14:00	FIELD BLANK	Metals-Water	Calcium	0.075	mg/L	U	0.075	0.3
2/28/2005 14:00	FIELD BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
2/28/2005 14:00	FIELD BLANK	Metals-Water	Copper	0.5	ug/L	U	0.5	2
2/28/2005 14:00	FIELD BLANK	Metals-Water	Iron	10	ug/L	U	10	40
2/28/2005 14:00	FIELD BLANK	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
2/28/2005 14:00	FIELD BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
2/28/2005 14:00	FIELD BLANK	Metals-Water	Nickel	0.25	ug/L	U	0.25	1
2/28/2005 14:00	FIELD BLANK	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
2/28/2005 14:00	FIELD BLANK	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
2/28/2005 14:00	FIELD BLANK	Metals-Water	Zinc	3	ug/L	U	3	12
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Aluminum	453	ug/L		5	20
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Arsenic	6	ug/L	U	6	24
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Cadmium	0.37	ug/L	U	0.37	1.5
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Calcium	169	mg/L		0.075	0.3
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Chromium	2	ug/L	U	2	8
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Copper	2.5	ug/L	U	2.5	10
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Iron	565	ug/L		10	40
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Lead	1.05	ug/L	I	0.37	1.5
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Magnesium	555	mg/L		0.4	1.6
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Nickel	2.8	ug/L	I	1.2	5
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Selenium	2.5	ug/L	U	2.5	10
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Silver	0.13	ug/L	U	0.13	0.5
2/28/2005 14:00	FINAL EFFLUENT	Metals-Water	Zinc	5.7	ug/L	I	3	12
2/28/2005 14:00	FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
2/28/2005 14:00	FIELD BLANK	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
2/28/2005 14:00	FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
2/28/2005 14:00	FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01

Appendix 2. Chemical Analyses (continued)

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
2/28/2005 14:00	FIELD BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
2/28/2005 14:00	FINAL EFFLUENT	Nutrients-Liquid	Ammonia-N	0.032	mg N/L		0.01	0.02
2/28/2005 14:00	FINAL EFFLUENT	Nutrients-Liquid	Kjeldahl Nitrogen	1.2	mg N/L		0.12	0.4
2/28/2005 14:00	FINAL EFFLUENT	Nutrients-Liquid	NO2NO3-N	0.23	mg N/L		0.004	0.01
2/28/2005 14:00	FINAL EFFLUENT	Nutrients-Liquid	O-Phosphate-P	0.075	mg P/L		0.004	0.01
2/28/2005 14:00	FINAL EFFLUENT	Nutrients-Liquid	Total-P	0.1	mg P/L		0.02	0.06

The Bioassay of Riverside Plaza D-001 effluent sampled on February 28, 2005, NPDES #FL0039691.

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 0 0 3 9 6 9 1 11	12 0 5 0 2 2 8	18 **B**	19 **S**	20 2

Remarks

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The Priority Pollutants Analysis of Riverside Plaza D-001 effluent sampled on February 28, 2005, NPDES #FL0039691.

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 0 0 3 9 6 9 1 11	12 0 5 0 2 2 8	18 **X**	19 **S**	20 2

Remarks

66

Biological Analyses of Riverside Plaza D-001 effluent sampled on February 28, 2005, NPDES #FL0039691.

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 0 0 3 9 6 9 1 11	12 0 5 0 2 2 8	18 **S**	19 **S**	20 2

Remarks

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