

Bioassays of

South Central Regional Wastewater Treatment Plant

Palm Beach County

NPDES #FL0035980

Sampled February 14, 2005

June 2005

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

South Central Regional Wastewater Treatment Facility, 1801 N. Congress Avenue, Delray Beach, Palm Beach County, Florida, NPDES #FL0035980. Effluent samples for this facility were collected on February 14, 2005.

Introduction

The South Central Regional Wastewater Treatment Facility (WWTF) is a complete-mix activated-sludge process WWTF with a design flow of 24 million gallons per day (MGD) and an average annual flow of 13.72 MGD (January –December 2004). Effluent is treated with chlorine gas for disinfection. Effluent is dechlorinated with sulfur bisulfite prior to discharge into the Class III Marine Waters of the Atlantic Ocean. Effluent is discharged approximately 1,585 m (5,200 ft) offshore via a 30'' diameter pipeline at a depth of approximately 27.4 m (90 ft) (latitude 26º 28' 09', longitude 80º 01' 49"). The facility maintains an emergency by-pass system to the C-30 canal. The facility has a reuse project which provides reclaimed water for five (5) golf courses, urban residential irrigation, and in-plant use. The reuse system discharged a monthly average flow of 4.41 MGD (February 1, 2004-January 31, 2005). The facility has a mixing zone for pH and has a reduced standard (no effluent limit - report only) for dissolved oxygen (non-mixing zone). The mixing zone for pH is 400 square meters, centered at 11.23 meters from the outfall terminus for D-001 (facility information provided by Hubert Philoctete of FDEP Southeast District and Dennis Coates of South Central Regional Disposal Board).

Methods

Samples were collected from the D-001 NPDES sampling point by Terry Davis (FDEP Southeast District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm

The 48-hr 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 (acute definitive-96 hour duration), the Department uses it to provide reasonable assurance that the facility does not adversely affect waters of the state.

Bioassay tests were conducted with a 30% effluent concentration, per permit conditions. Sample salinity was adjusted by mixing 30% effluent with 70% natural seawater (~33 parts per thousand [ppth]), to yield an adjusted sample salinity of 23.8 ppth.

Toxicity Test Results

Tests were performed February 15-17, 2005.

Americamysis bahia 48-hr acute screening bioassay –	LC_{50} > 30%, 10% mortality in 30% sample at 48 hours
Menidia beryllina 48-hr acute screening bioassay –	LC_{50} > 30%, 0% mortality in 30% sample at 48 hours

Bioassay samples were not acutely toxic to the test organisms when diluted to 30% effluent with artifical salt water.

See Appendix 1 for bioassay bench sheets.

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 247 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. In the salinity-adjusted aliquot of the AGP sample, the AGP was 356 mg dry wt/L of the green unicellular alga, *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 limited by nitrogen. The predicted AGP (for *P. subcapitata*) based on the inorganic nitrogen and phosphorus concentrations were 435.48 (±20%) and 318.2 (±20%) mg dry wt/L, respectively (Table 1; Miller et al. 1978).

See Table 1 for AGP results

Chemistry Results

Total residual chlorine was detected at concentrations of 0.8 mg/L and ≤ 0.03 mg/L, respectively, in the field and in the laboratory. Total ammonia was detected in the bioassay sample (30% effluent) in the laboratory at a concentration of 2.7 mg/L. The total ammonia concentration in the sample collected and preserved for chemical analysis (100% effluent) was 11 mg/L. Based on the pH, salinity and temperature of the effluent as collected, the calculated unionized ammonia concentration was 0.05 mg/L.

Aluminum, iron, lead, and zinc were detected in the effluent at levels that comply with Class III Marine water quality criteria. Nickel, selenium, and silver were detected between the laboratory minimum detection limits (MDL) and practical quantitation limits (PQL). The effluent copper (5.2 µg/L) level exceeded the Class III Marine water quality criteria of ≤ 3.7 µg/L (62-302.530(24), F.A.C.), and also exceeded the permitted limit of 2.9 µg/L. Atrazine was detected above the PQL, but below levels known to cause toxicity (ECOTOX 2005, http://www.epa.gov/ecotox/).

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 February 14, 2005, was not acutely toxic to either test species at the 30% effluent concentration during the 48-hour bioassays. The effluent AGP result was extremely high, indicating high potential for nuisance algal growth. The effluent copper level exceeded the Class III Marine water quality criterion and the permit limit.

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) for total soluble nitrogen (TSIN), ortho phosphate (OP), total nitrogen (TN), and total phosphorus (TP) limitation of Pseudokirchneriella subcapitata, *the AGP (salt adjusted) for* Duneliella tertiolecta, *and N:P ratios for the sample collected from South Central Regional WWTP on February 14, 2005.*

Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (OP) ± 20%	Predicted AGP (TN) ± 20%	Predicted AGP (TP) ± 20%	AGP (salt adjusted)	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	247	435.48 ± 87.096	318.2 ± 63.64	625.48 ± 125.096	817 ± 163.4	356	15.49	8.66

Table 2. Effluent limits, Class III Marine Criteria and chemical data from samples collected from South Central Regional Wastewater Treatment Plant sampled on February 14, 2005.

South Central Regional WWTP NPDES # FL0035980	Class III Marine Stds	Effluent Limits	Effluent Samples
Organic Constituents (µg/L)			
Atrazine	-	-	0.21
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1500	-	71
Arsenic	≤ 50	-	6 U
Cadmium	≤ 9.3	-	0.075 U
Calcium (mg/L)	-	-	47
Chromium-III	-	-	2 U
Copper	≤ 3.7	≤ 2.9 s	5.2
Iron	≤ 300	≤ 300 s	103
Lead	≤ 8.5	-	0.42
Magnesium (mg/L)	-	-	5.9
Nickel	≤ 8.3	≤ 8.3 s	3.2 I
Selenium	≤ 71	-	0.53 I
Silver	≤ 2.3	≤ 2.3 s	0.19 I
Zinc	≤ 86	≤ 86 s	35
Nutrients (mg/L)			
Ortho-phosphate	-	-	0.74
Total Phosphorus	-	Report	1.9
Ammonia	-	Report	11
Unionized Ammonia	-	-	0.05 c
Nitrate+Nitrite	-	Report	0.46
Total Kjeldahl Nitrogen	-	-	16
Organic Nitrogen	-	Report	5 c
Total Nitrogen	-	Report	16.46 c
General Physical and Chemical Parameters			
D.O. (mg/L)	≥ 4.0	Report	-
pH (S.U.)	6.5-8.5	6.0-8.5	6.8
Conductivity (umhos/cm)	-	-	852
Temperature (C)	-	-	24.9
Hardness (mg/L)	-	-	141.7 c

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: South Central Regional WWTF

Address: 1801 N. Congress Avenue

City: Delray Beach County: Palm Beach

Contact/District: Terry Davis / SED

NPDES Permit #: FL 0035980

LIMS Job #: TLH-2005-02-15-27 LIMS Sample #: 815539

Sample Collection: Date: 2-14-05 Time: 1030

Hold time Start: Date: 2-14-05 Time: 1030

Comments: TOST RUN at 30% Effluent concentration
Salinity adjusted by mixing 30% Effluent with 70% (33ppth) NSW yielding a salinity of ~ 23.8ppth, MF 2/16/05
(A) correct value <0.008 for NSW Tests 1&2
2.75 mg/L ammonia found in 30% effluent
entry error SP 2/16/05
→ per permit Condition

Lims Data Entry: 2-18-05 MF Data Entry Verification: 2-18-05 JH

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: <1 Final Salinity: 23.8 Salts Hypersaline brine (NSW ore Comment)

Salinity adjusted (Test 2) (yes) no Initial Salinity: <1 Final Salinity: 23.8 Salts Hypersaline brine (NSW ore Comment)

Dechlorination: yes (no) mL of 0.025N Sodium Thiosulfate per liter of sample. Final TRC

Temperature Range °C 24.1-24.8
Incubator # 3 Range ~~23.6-23.8~~ JO
Room B246: 23.6-23.8 Wrote Temp in wrong spot
Waterbath: NA

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 Prichard
James Dench
Marshall Faircloth
Devin Nichols

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	0.8	—	Terry Davis	MF
Lab Total Residual Cl2 (mg/L):			<0.03	<0.03		<0.03	HACH	SR	DN
Alkalinity (mg/L as $CaCO_3$):			146	146		158	HACH	DN	SP
Hardness (mg/L as $CaCO_3$):			—	—		141	HACH	DN	SP
Total Ammonia (mg/L as N):			~~2.75~~ (A)	~~2.75~~ (A)		9.27	DENVER	DN	SP
Salinity (ppth):			23.8	23.8		<1	YSI (Mettler)	MF	SP

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Appendix 1. Bench Sheets (continued)

FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 815539 Test #: 1 Test Started: Date 2.15.05 Time: 1230
Organism: A. bahia Test Ended: Date 2.17.05 Time: 1200
Organism Batch: Si-05 Diluent/ Batch: NSW / NA
Organism Age: 2 days Food: YCT P. subcapitata (Artemia circled)
Chamber Size 1000 mL Batch: NA NA 37113425G
Test Volume 500 mL Feeding: (Prior to test circled) - Prior to renewal (Daily circled)

Concentration	Replicate	Chamber #	Test Hour: 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL NSW	A	C1	5	5	5			
	B	C2	5	5	5			
	C	C3	5	4 10	4			
	D	C4	5	5	4 10			
30%	A	C5	5	4 10	4			
	B	C6	5	5	5			
	C	C7	5	5	5			
	D	C8	5	5	4 10			
Organisms loaded by: JD / Loading Verified by: BF		Checked by: (initials)	BF	JD	JD			

Comments: NSW control = NSW @ 33ppth diluted with well water to 23.5ppth (30% pilution) mF 2-15-05
30% sample Per Prmit = 30% Effluent + 70% (33ppt) NSW Sc. Salinity = 23.5ppth

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

Test Results:
% mortality in ~~100~~ 30% sample 10

LC_{50}: >30 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 #: 815539 Test #: 2 Test Started: Date 2.15.05 Time: 1230
Organism: M. beryllina Test Ended: Date 2.17.05 Time: 1200
Organism Batch: 4-05 Diluent/ Batch: NSW / NA
Organism Age: 10 days Food: YCT *P. subcapitata* (Artemia)
Chamber Size 1000 mL Batch: NA NA 37113425G
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 NSW	A	B9	5	5	5			
	B	B10	5	5	5			
	C	B11	5	5	5			
	D	B12	5	5	5			
30%	A	B13	5	5	5			
	B	B14	5	5	5			
	C	B15	5	5	5			
	D	B16	5	5	5			

Organisms loaded by: JD Checked by: MF JD JD
Loading Verified by: MF (initials)

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

Comments: NSW control = 30% wells to 70% (33 ppth) NSW = Salinity = 23.8 ppth
30% Effluent = 30% Eff + 70% (33 ppth) NSW = Salinity ~ 23.8 ppth Per Permit

Test Results: 30
% mortality in 100% sample 0
LC_{50}: >30 If Calculated: 95% CI _____ Method: _____

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

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Appendix 1. Bench Sheets (continued)

Biomass Parameters

LIMS Sample #: 815539 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.)	7.8	8.0	8.0			
Temperature °C	24.5	24.5	24.0			
Dissolved Oxygen mg/L	6.7	6.2	6.5			
Conductivity µmhos mmhos	37.4	38.5	38.7			
(initials) Measured by:	JD	DW	JD			
(initials) Recorded by:	JD	DW	JD			

Comments:

Concentration 100% effluent	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	7.6	7.9	8.0			
Temperature °C	24.6	25.2	24.0			
Dissolved Oxygen mg/L	6.6	5.9	6.1			
Conductivity µmhos mmhos	37.6	39.1	39.1			
(initials) Measured by:	JD	DW	JD			
(initials) Recorded by:	JD	DW	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 # : 815539 Test # : 2 of 2

TEST SOP: TA07_04 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.)	7.8	7.9	8.0			
Temperature °C	24.4	24.0	24.0			
Dissolved Oxygen mg/L	6.7	5.8	5.9			
Conductivity µmhos (mmhos)	37.6	37.9	40.7			
(initials) Measured by:	JD	DN	JD			
(initials) Recorded by:	JD	DN	JD			

Comments:

Concentration 100% 30% effluent	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	7.6	7.8	7.9			
Temperature °C	24.6	24.1	24.1			
Dissolved Oxygen mg/L	6.5	5.6	5.6			
Conductivity µmhos (mmhos)	37.6	38.2	38.7			
(initials) Measured by:	JD	DN	JD			
(initials) Recorded by:	JD	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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Appendix 2. Chemical Analyses performed on the effluent from the South Central Regional Wastewater Treatment Plant Outfall D-001, sampled on February 14, 2005.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/14/2005 10:30	51-SC-1	Bio-AGP/LimNut	Algal Growth Potential	247	mg DryWt/L		0.3	0.9
2/14/2005 10:30	51-SC-1	Bio-AGP/LimNut	Algal Growth Potential-Salinity Adjusted	356	mg DryWt/L		0.3	0.9
2/14/2005 10:30	51-SC-1	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	3.9	ug/L		1.3	3.9
2/14/2005 10:30	51-SC-1	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	2.3	ug/L		1.3	3.9
2/14/2005 10:30	51-SC-1	Bio-Toxicology	Bioassay-Acute-Screen-SW-Fish	30	LC50	L		
2/14/2005 10:30	51-SC-1	Bio-Toxicology	Bioassay-Acute-Screen-SW-Mysid	30	LC50	L		
2/14/2005 10:30	51-SC-1	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	190
2/14/2005 10:30	51-SC-1	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
2/14/2005 10:30	51-SC-1	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/14/2005 10:30	51-SC-1	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
2/14/2005 10:30	51-SC-1	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
2/14/2005 10:30	51-SC-1	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
2/14/2005 10:30	51-SC-1	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Benzidine	97	ug/L	U	97	390
2/14/2005 10:30	51-SC-1	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/14/2005 10:30	51-SC-1	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/14/2005 10:30	51-SC-1	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
2/14/2005 10:30	51-SC-1	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
2/14/2005 10:30	51-SC-1	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
2/14/2005 10:30	51-SC-1	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
2/14/2005 10:30	51-SC-1	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
2/14/2005 10:30	51-SC-1	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
2/14/2005 10:30	51-SC-1	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
2/14/2005 10:30	51-SC-1	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/14/2005 10:30	51-SC-1	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/14/2005 10:30	51-SC-1	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
2/14/2005 10:30	51-SC-1	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
2/14/2005 10:30	51-SC-1	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
2/14/2005 10:30	51-SC-1	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
2/14/2005 10:30	51-SC-1	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
2/14/2005 10:30	51-SC-1	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/14/2005 10:30	51-SC-1	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/14/2005 10:30	51-SC-1	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
2/14/2005 10:30	51-SC-1	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8
2/14/2005 10:30	51-SC-1	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
2/14/2005 10:45	51-SC-2	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
2/14/2005 10:45	51-SC-2	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
2/14/2005 10:45	51-SC-2	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
2/14/2005 10:45	51-SC-2	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
2/14/2005 10:45	51-SC-2	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
2/14/2005 10:45	51-SC-2	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
2/14/2005 10:45	51-SC-2	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Benzidine	95	ug/L	U	95	380
2/14/2005 10:45	51-SC-2	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/14/2005 10:45	51-SC-2	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
2/14/2005 10:45	51-SC-2	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
2/14/2005 10:45	51-SC-2	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
2/14/2005 10:45	51-SC-2	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
2/14/2005 10:45	51-SC-2	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
2/14/2005 10:45	51-SC-2	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
2/14/2005 10:45	51-SC-2	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
2/14/2005 10:45	51-SC-2	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
2/14/2005 10:45	51-SC-2	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
2/14/2005 10:45	51-SC-2	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
2/14/2005 10:45	51-SC-2	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
2/14/2005 10:45	51-SC-2	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
2/14/2005 10:45	51-SC-2	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
2/14/2005 10:45	51-SC-2	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
2/14/2005 10:45	51-SC-2	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
2/14/2005 10:45	51-SC-2	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
2/14/2005 10:45	51-SC-2	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
2/14/2005 10:45	51-SC-2	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/14/2005 10:45	51-SC-2	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
2/14/2005 10:45	51-SC-2	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
2/14/2005 10:30	51-SC-1	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.3
2/14/2005 10:30	51-SC-1	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.2
2/14/2005 10:30	51-SC-1	GC-Water	Atrazine	0.21	ug/L		0.049	0.2
2/14/2005 10:30	51-SC-1	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.2
2/14/2005 10:30	51-SC-1	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/14/2005 10:30	51-SC-1	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/14/2005 10:30	51-SC-1	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.2
2/14/2005 10:30	51-SC-1	GC-Water	Chlorpyrifos Methyl	0.097	ug/L	U	0.097	0.39
2/14/2005 10:30	51-SC-1	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.2
2/14/2005 10:30	51-SC-1	GC-Water	Ethion	0.049	ug/L	U	0.049	0.2
2/14/2005 10:30	51-SC-1	GC-Water	Ethoprop	0.097	ug/L	U	0.097	0.39
2/14/2005 10:30	51-SC-1	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/14/2005 10:30	51-SC-1	GC-Water	Fonofos	0.097	ug/L	U	0.097	0.39
2/14/2005 10:30	51-SC-1	GC-Water	Hexazinone	0.097	ug/L	U	0.097	0.39
2/14/2005 10:30	51-SC-1	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
2/14/2005 10:30	51-SC-1	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
2/14/2005 10:30	51-SC-1	GC-Water	Metolachlor	0.49	ug/L	U	0.49	2
2/14/2005 10:30	51-SC-1	GC-Water	Metribuzin	0.097	ug/L	U	0.097	0.39
2/14/2005 10:30	51-SC-1	GC-Water	Mevinphos	0.25	ug/L	U	0.25	1
2/14/2005 10:30	51-SC-1	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.1
2/14/2005 10:30	51-SC-1	GC-Water	Norflurazon	0.097	ug/L	U	0.097	0.39
2/14/2005 10:30	51-SC-1	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
2/14/2005 10:30	51-SC-1	GC-Water	Parathion Methyl	0.097	ug/L	U	0.097	0.39
2/14/2005 10:30	51-SC-1	GC-Water	Phorate	0.049	ug/L	U	0.049	0.2
2/14/2005 10:30	51-SC-1	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
2/14/2005 10:30	51-SC-1	GC-Water	Simazine	0.049	ug/L	U	0.049	0.2
2/14/2005 10:45	51-SC-2	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.3
2/14/2005 10:45	51-SC-2	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.19
2/14/2005 10:45	51-SC-2	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.19
2/14/2005 10:45	51-SC-2	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.19
2/14/2005 10:45	51-SC-2	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/14/2005 10:45	51-SC-2	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/14/2005 10:45	51-SC-2	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.19

Appendix 2. (continued)

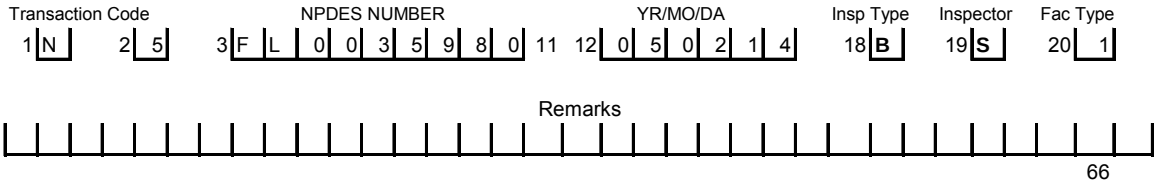
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/14/2005 10:45	51-SC-2	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.38
2/14/2005 10:45	51-SC-2	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.19
2/14/2005 10:45	51-SC-2	GC-Water	Ethion	0.048	ug/L	U	0.048	0.19
2/14/2005 10:45	51-SC-2	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.38
2/14/2005 10:45	51-SC-2	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/14/2005 10:45	51-SC-2	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.38
2/14/2005 10:45	51-SC-2	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.38
2/14/2005 10:45	51-SC-2	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
2/14/2005 10:45	51-SC-2	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
2/14/2005 10:45	51-SC-2	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.9
2/14/2005 10:45	51-SC-2	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.38
2/14/2005 10:45	51-SC-2	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
2/14/2005 10:45	51-SC-2	GC-Water	Naled	0.77	ug/L	UJ	0.77	3.1
2/14/2005 10:45	51-SC-2	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.38
2/14/2005 10:45	51-SC-2	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
2/14/2005 10:45	51-SC-2	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.38
2/14/2005 10:45	51-SC-2	GC-Water	Phorate	0.048	ug/L	U	0.048	0.19
2/14/2005 10:45	51-SC-2	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
2/14/2005 10:45	51-SC-2	GC-Water	Simazine	0.048	ug/L	U	0.048	0.19
2/14/2005 10:30	51-SC-1	Metals-Water	Aluminum	71	ug/L		5	20
2/14/2005 10:30	51-SC-1	Metals-Water	Arsenic	6	ug/L	U	6	24
2/14/2005 10:30	51-SC-1	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
2/14/2005 10:30	51-SC-1	Metals-Water	Calcium	47	mg/L		0.075	0.3
2/14/2005 10:30	51-SC-1	Metals-Water	Chromium	2	ug/L	U	2	8
2/14/2005 10:30	51-SC-1	Metals-Water	Copper	5.2	ug/L		0.5	2
2/14/2005 10:30	51-SC-1	Metals-Water	Iron	103	ug/L		10	40
2/14/2005 10:30	51-SC-1	Metals-Water	Lead	0.42	ug/L		0.075	0.3
2/14/2005 10:30	51-SC-1	Metals-Water	Magnesium	5.9	mg/L		0.02	0.08
2/14/2005 10:30	51-SC-1	Metals-Water	Nickel	3.2	ug/L	I	2	8
2/14/2005 10:30	51-SC-1	Metals-Water	Selenium	0.53	ug/L	I	0.5	2
2/14/2005 10:30	51-SC-1	Metals-Water	Silver	0.19	ug/L	I	0.078	0.31
2/14/2005 10:30	51-SC-1	Metals-Water	Zinc	35	ug/L		3	12
2/14/2005 10:45	51-SC-2	Metals-Water	Aluminum	5	ug/L	U	5	20
2/14/2005 10:45	51-SC-2	Metals-Water	Arsenic	6	ug/L	U	6	24
2/14/2005 10:45	51-SC-2	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
2/14/2005 10:45	51-SC-2	Metals-Water	Calcium	0.075	mg/L	U	0.075	0.3
2/14/2005 10:45	51-SC-2	Metals-Water	Chromium	2	ug/L	U	2	8

Appendix 2. (continued)

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/14/2005 10:45	51-SC-2	Metals-Water	Copper	0.5	ug/L	U	0.5	2
2/14/2005 10:45	51-SC-2	Metals-Water	Iron	10	ug/L	U	10	40
2/14/2005 10:45	51-SC-2	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
2/14/2005 10:45	51-SC-2	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
2/14/2005 10:45	51-SC-2	Metals-Water	Nickel	2	ug/L	U	2	8
2/14/2005 10:45	51-SC-2	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
2/14/2005 10:45	51-SC-2	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
2/14/2005 10:45	51-SC-2	Metals-Water	Zinc	3	ug/L	U	3	12
2/14/2005 10:30	51-SC-1	Nutrients-Liquid	Ammonia-N	11	mg N/L		0.4	0.8
2/14/2005 10:30	51-SC-1	Nutrients-Liquid	Kjeldahl Nitrogen	16	mg N/L		0.6	2
2/14/2005 10:30	51-SC-1	Nutrients-Liquid	NO2NO3-N	0.46	mg N/L		0.004	0.01
2/14/2005 10:30	51-SC-1	Nutrients-Liquid	O-Phosphate-P	0.74	mg P/L		0.04	0.1
2/14/2005 10:30	51-SC-1	Nutrients-Liquid	Total-P	1.9	mg P/L		0.2	0.6
2/14/2005 10:45	51-SC-2	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
2/14/2005 10:45	51-SC-2	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
2/14/2005 10:45	51-SC-2	Nutrients-Liquid	NO2NO3-N	0.007	mg N/L	I	0.004	0.01
2/14/2005 10:45	51-SC-2	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
2/14/2005 10:45	51-SC-2	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06

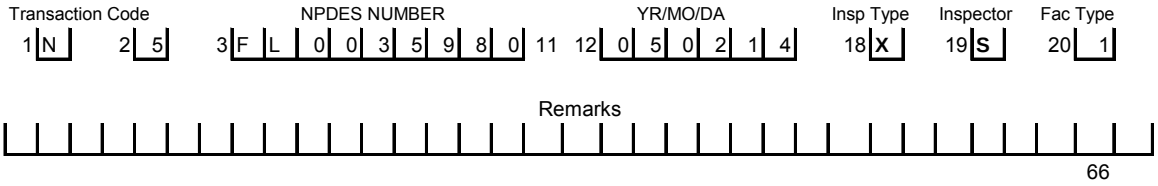
The Bioassay of South Central Regional WWTP effluent sampled on February 14, 2005, NPDES #FL0035980.

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



The Priority Pollutants Analysis of South Central Regional WWTP effluent sampled on February 14, 2005, NPDES #FL0035980.

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



Biological Analyses of South Central Regional WWTP effluent sampled on February 14, 2005, NPDES #FL0035980.

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

