

Effluent Quality Assessment

Anclote Power Plant

Pasco County

NPDES #FL0002992

Sampled May 4 and 12, 2009

September 2009

Biology Section
Bureau of Laboratories
Division of Environmental Assessment and Restoration

Quality Manual No. 870346G
NELAC Certification No. E31780

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Anclote Power Plant, 1729 Baileys Bluff Road, Holiday, Pasco County, Florida, 34691. NPDES #FL0002992. Effluent grab samples for bioassay and chemical analyses for this facility were collected on May 4, 2009. Bioassay samples collected on May 4 were cancelled due to sample temperature exceeding limits during shipping. Additional grab samples for bioassay and chemical analyses were collected on May 12, 2009.

Introduction

Anclote Power Plant owned by Progress Energy Florida is an electric power generating plant consisting of two oil-fired steam electric units with a total nameplate rating of 1,112 Mega-Watts. (See Appendix F for detailed facility information provided by Jason Cohen of FDEP Southwest District.)

Methods

Samples were collected from the EFF-1 NPDES sampling point for Outfall D-004 by Pete Wenner, Chris Anastasiou and Jason Cohen (FDEP Southwest District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOPs are available on the web at: http://www.floridadep.org/labs/qa/sops.htm**.**

See Appendix A for the completed chain of custody form.

The 48-hour acute screening toxicity tests and algal growth potential test were performed following internal DEP SOPs TA07_03, TA07_04, and TA08_01 through TA08_09. All internal DEP SOPs are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Results and Discussion

Toxicity Test Results

Tests were performed May 13 - 15, 2009.

Americamysis bahia 48-hour acute screening bioassay –	LC_{50} > 100%, 20% mortality* in 100% sample at 48 hours
Menidia beryllina 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. Although there was 20% mortality in the *A. bahia* test, the mortality occurred in a single replicate (replicate 1, 4 of 5 organisms dead at 24 hours). The cause of the mortality was not determined; however, it was not thought to be effluent related.

*NOTE: In a 48-hour acute screening test of 100% effluent, mortality of ≤20% provides confidence 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% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% indicates 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.).

See Appendix B for bioassay bench sheets. See Appendix C for results of the last 20 standard reference toxicant (SRT) tests and the bench sheets and statistical analyses of the SRT tests that correspond to these facility tests. See Appendix D for test organism receipts.

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 3.0 U (U - Material was analyzed for but not detected; the value reported is the minimum detection limit) mg dry wt/L of the saltwater species *Dunaliella tertiolecta.* Raschke and Schultz found that AGP values above 10.0 mg dry weight/L represent a “problem” threshold for marine receiving waters, implying nutrient enrichment (personal communication, Marshall Faircloth, et. al. FDEP, with Ron Raschke USEPA Region 4 1987). Ortho-phosphate was not detected in the effluent; therefore, the ratio of inorganic nitrogen to ortho-phosphate could not be calculated. The ratio (33.3:1) of total nitrogen to total phosphorus suggests that the effluent is phosphorus limited (Maloney et al. 1978).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample (collected May 12, 2009) in the laboratory. The total ammonia concentration in the sample collected and preserved for chemical analysis (May 4, 2009) was 0.052 I mg N/L (I – The reported value is between the laboratory method detection limit (MDL) and the laboratory practical quantification limit (PQL)). Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg N/L.

Samples collected May 4, 2009:

Total phosphorus, total Kjeldahl nitrogen, chlorophyll *a*, total alpha and combined Radium 226 + Radium 228 were detected in the effluent. Arsenic, iron, total ammonia, phaeophytin, total suspended solids and chemical-biological oxygen demand were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL). Bis(2-ethylhexyl)phthalate and ortho-phosphate were detected in the field blank. The effluent and blank samples collected and analyzed for priority organic pollutants and pesticides were improperly preserved; therefore, the data for these analytes may not be accurate.

Samples collected May 12, 2009:

Grab samples collected from the facility on May 12, 2009, were analyzed for pesticides and priority organic pollutants. These components were not detected in the effluent.

See Table 2 for results of analytes detected in the effluent, and corresponding limits. See Appendix E for a complete list of chemical analyses performed.

Conclusion

The effluent sample collected from the EFF-1 NPDES sampling point for Outfall D-004 for this facility on May 12, 2009, was not acutely toxic to either test species during the 48-hour acute screening bioassays. The effluent AGP result was less than the "problem” threshold for marine receiving waters. Effluent water quality samples did not exceed any applicable water quality criteria or violate any permit conditions.

Literature Cited

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

Table 1. Measured algal growth potential (AGP; mg dry weight/L) of the saltwater species *Dunaliella tertiolecta* and ratios of nitrogen to phosphorus for samples collected from the Anclote Power Plant facility on May 4, 2009.

Anclote Power Plant			
Location	AGP (measured)	Inorganic N:P ratio	Total N:P ratio
Effluent	3.0 U	*	33.5

* Ortho-phosphate was not detected in the effluent therefore a ratio could not be calculated.

Table 2. Effluent limits, Class III Criteria for predominantly marine waters and chemical data for samples collected from the EFF-1 NPDES sampling point for Outfall D-004 of the Anclote Power Plant facility on May 4 and 12, 2009.

Anclote Power Plant NPDES# FL0002992	Class III Criteria	Effluent Limits Outfall D-004	Effluent Sampled May 4, 2009	Effluent Sampled May 12, 2009
Organic Constituents (µg/L)				
Bis(2-ethylhexyl)phthalate	-	-	14 UYF	-
Metals (µg/L unless otherwise noted)				
Aluminum	≤ 1500	-	180 U	-
Arsenic	≤ 50	-	1.5 I	-
Cadmium	≤ 8.8	-	0.09 U	-
Calcium (mg/L)	-	-	424 A	-
Chromium-III	-	-	0.9 U	-
Copper	≤ 3.7	-	1.5 UJ	-
Iron	≤ 300	-	120 I	-
Lead	≤ 8.5	-	0.6 U	-
Magnesium (mg/L)	-	-	1420 A	-
Nickel	≤ 8.3	-	0.75 U	-
Selenium	≤ 71	-	0.6 UJ	-
Silver	≤ 2.3	-	0.075 U	-
Zinc	≤ 86	-	15 U	-
Nutrients (mg/L)				
Ortho-phosphate	-	-	0.008 UF	-
Total Phosphorus	-	-	0.024	-
Total Ammonia	-	-	0.052 I	-
Un-ionized Ammonia	-	-	≤ 0.02 c	-
Nitrate and Nitrite	-	-	0.005 I	-
Total Kjeldahl Nitrogen	-	-	0.8 A	-
Organic Nitrogen	-	-	0.748 c	-
Total Nitrogen	-	-	0.805 c	-
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 4.0	-	5.2	4.4
pH (SU)	6.5 - 8.5	-	8.5	8.0
Conductivity (µmhos/cm)	-	-	55,128	54,560
Temperature (°C)	-	≤ 33.3 s	28.2	30.0
Salinity	-	-	34.1 c	32.4 c
Sample Depth (m)	-	-	0.2	0.2
Total Residual Chlorine (mg/L)	≤ 0.01	-	-	0.03 £UQ
Chlorophyll *a* (µg/L) - Corrected	-	-	2.4	-
Phaeophytin (µg/L)	-	-	0.89 I	-
Total Suspended Solids (mg/L)	-	-	10 I	-
CBOD, 5 day (mg/L), N - inhibited	-	-	1.6 I	-
Alpha, Total (pCi/L)	≤ 15	-	2.6	-
Alpha-Counting Error (pCi/L)	-	-	1.5	-
Radium 226 (pCi/L)	-	-	0.8 F	-
Radium 226-Counting Error (pCi/L)	-	-	0.2	-
Radium 228 (pCi/L)	-	-	0.8 U	-
Radium 228-Counting Error (pCi/L)	-	-	0.5	-
Radium 226 + 228 (pCi/L)	≤ 5	-	0.8 c	-
Flow (MGD)	-	-	1,758 a	-
Hardness (mg $CaCO_3$)	-	-	6906.29 c	-

Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average
c - Value is calculated
s - Single sample
A - Value reported is the mean of two or more determinations
F - Analyte was detected in both sample and field blank
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J - Estimated value
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
£ - Analysis performed in Bioassay Laboratory

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Request Number: RQ-2009-05-04-47
Progress Energy-Anclote Plant

Event ID *

Requester: Jennifer Paris
Field Report Prepared By:

Customer: SW-DIST
Collected By: PETE WENNER, CHRIS ANASTASIOU, JASON COHEN
Send Final Report To Ilia Balcom

Project ID: FYI3
Sampling Agency: FDEP SW DISTRICT

PMAS: 1143

Lab ID *	Location D-004			☐ Comp ☑ Grab	Collection (begin) Date 5/4/09 Time 1020 Eastern Central		Collection (end) Date Time Eastern Central		Bottle Group(s)** A
37511	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L) 5.19		Storet Station Number		
	Matrix (Include type e.g. Salt, Fresh, etc) SALT	Temp (C) 28.23	pH 8.48	Sample Depth 0.2 ☑ m ☐ ft	36.45 / 55128	☑ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number		
	Latitude 28 11.341'	Longitude 82 47.214		Comments					
Lab ID *	Location FIELD BLANK			☐ Comp ☑ Grab	Collection (begin) Date 5/4/09 Time 1040 Eastern Central		Collection (end) Date Time Eastern Central		Bottle Group(s)** B
37512	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)		Storet Station Number		
	Matrix (Include type e.g. Salt, Fresh, etc) DI WATER	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)		NPDES Number		
	Latitude o ' "	Longitude o ' "		Comments					
Lab ID *	Location			☐ Comp ☐ Grab	Collection (begin) Date Time Eastern Central		Collection (end) Date Time Eastern Central		Bottle Group(s)**
	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)		Storet Station Number		
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)		NPDES Number		
	Latitude o ' "	Longitude o ' "		Comments					
Lab ID *	Location			☐ Comp ☐ Grab	Collection (begin) Date Time Eastern Central		Collection (end) Date Time Eastern Central		Bottle Group(s)**
	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)		Storet Station Number		
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)		NPDES Number		
	Latitude o ' "	Longitude o ' "		Comments					

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	5/4/09	FED EX 1400						5-5-09/9:30a

2 biocassay @ 10:17 B. A

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2009-05-04-47
Progress Energy-Anclote Plant

Requester: Jennifer Paris
Field Report Prepared By:

Customer: SW-DIST
Collected By: PETE WENNER, JASON COHEN
Send Final Report To Ilia Balcom

Project ID: FYI3
Sampling Agency: FDEP SLD

PMAS: 1143

Lab ID *	Location: D004			☐ Comp ☑ Grab	Collection (begin) Date 5/12/09 Time 1020 (Eastern) Central		Collection (end) Date Time Eastern Central			Bottle Group(s)**
	Field ID: 37552			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L): 4.40		Storet Station Number			A
	Matrix (Include type e.g. Salt, Fresh, etc): SALT	Temp (C): 30.01	pH: 7.97	Sample Depth ☑ m ☐ ft: 0.2	35.9‰ / 54,560	☑ Salinity (PPTh) ☑ Sp Conductance (umho/cm)	NPDES Number			
	Latitude o ' "	Longitude o ' "		Comments: THERE ARE NO BAR CODE LABELS DUE TO A PRINTER MALFUNCTION						
Lab ID *	Location: FIELD BLANK			☐ Comp ☑ Grab	Collection (begin) Date 5/12/09 Time 1035 (Eastern) Central		Collection (end) Date Time Eastern Central			Bottle Group(s)**
	Field ID: 37553			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)		Storet Station Number			B
	Matrix (Include type e.g. Salt, Fresh, etc): DI WATER	Temp (C)	pH	Sample Depth ☐ m ☐ ft		☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number			
	Latitude o ' "	Longitude o ' "		Comments: THERE ARE NO BAR CODE LABELS DUE TO A PRINTER MALFUNCTION						
Lab ID *	Location			☐ Comp ☐ Grab	Collection (begin) Date Time Eastern Central		Collection (end) Date Time Eastern Central			Bottle Group(s)**
	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)		Storet Station Number			
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft		☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number			
	Latitude o ' "	Longitude o ' "		Comments						
Lab ID *	Location			☐ Comp ☐ Grab	Collection (begin) Date Time Eastern Central		Collection (end) Date Time Eastern Central			Bottle Group(s)**
	Field ID			Tot Res Chlorine (mg/L)	Diss Oxygen (mg/L)		Storet Station Number			
	Matrix (Include type e.g. Salt, Fresh, etc)	Temp (C)	pH	Sample Depth ☐ m ☐ ft		☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number			
	Latitude o ' "	Longitude o ' "		Comments: Biossay Rec'd in for by S.D. 09:57 5/13/09						

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	5/12/09 1345	FED EX						5-13-09 9AM

* Shaded Areas for Lab use only.

** Please see reverse side for Bottle Group information.

last revised October 1, 2003

FDEP Biology Laboratory - Acute Screen Bioassay Bench Sheets

Facility: Anclote Plant – Progress Energy Florida

Address: 1729 Bridleys Bluff Road

City: Holiday County: PASCO 34691

Contact/District: Jason Cohen / Southwest

NPDES Permit #: FL 0002992

LIMS Job #: TIH-2009-05-13-60 LIMS Sample #: 1186876

Lims Data Entry: 6-4-09 MF Data Entry Verification: 6-5-09 BA

Sample Collection: Date: ~~5-13-09~~ 5-12-09 Time: ~~0915~~ 10:20

Hold Time Start: Date: ~~5-13-09~~ 5-12-09 Time: ~~0915~~ 10:20 BA Transcription error 6-5-09

Comments:

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

Test Type: (Screen)
(Static) Static Renewal / Flow-through
Test Duration: (96) 96 Hours.

Test 1 validation: Test 1: SOP TA 07_ 03
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation: Test 2: SOP TA 07_ 04
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

(√one)
Test 1 incubated in: [✓] Incubator #: 2 [ ] Waterbath #:_____
Test 2 incubated in: [✓] Incubator #: 2 [ ] Waterbath #:_____

Initial sample handling:
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: _____

Light Intensity : 50 - 100 ft. candles
Photoperiod : 16 light 8 dark
Temperature Range °C: (If used)
Incubator # 2 min 25.8 max 26.6 mean 26.2
Incubator # ____ min._____ max._____ mean_____
Waterbath # ____ min._____ max._____ mean_____
Room B246 min 25.0 max 25.6 mean 25.3

Sample Validation:
Temperature: Shipped ≤6°C (Yes) No — IF 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)

Water Quality Parameters	20% DMW	Well Water	Moderately Hard Water	Batch #	5-12-09 Salt Water (ASW) NSW Test 1	5-12-09 Salt Water (ASW) NSW Test 2	Other:	Original Sample	Measured by	Verified by
Field Total Residual Cl_2 (mg/L):	N/A	N/A	N/A		N/A	N/A		NOT measured		MF
Lab Total Residual Cl_2 (mg/L):					<0.03	<0.03		<0.03	JD	BA
Alkalinity (mg/L as $CaCO_3$):					226	226		154	BA	JD
Hardness (mg/L as $CaCO_3$):					—	—		—	BA	JD
Total Ammonia (mg/L as N):					<0.068	<0.068		<0.068	MF	JD
Conductivity: µmhos (mmhos)					54.1	54.4		57.6	JD	BA
Salinity (ppth):					35.8	35.8		38.2	JD	DB

Investigators' Signatures
James Daniels
Marshall Faircloth
Brad Alexander
Brent Woods

Loretta C. Wolfe
REVIEWER

V 1.6 7/8/08

Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1186876 Test #: 1/2 SOP#:TA 07 03 Test Started: Date 5/13/09 Time: 1350

Organism/Batch/Age: A. bahia / 5.12.09 / 4 days Test Ended: Date 5/15/09 Time: 1200

Chamber/Test Volume: 1000 / 500 ml Diluent/ Batch: ASW 35ppt 5/12/09 Test Duration: (48) hr 96 hr

Food/Batch: [ ] YCT______ [ ] P.sub______

[✓] Artemia Lot# 38433 Batch #: 0hr 66-09 24hr 67-09 48hr______ 72hr______

Feeding: [X] Prior to Test [ ] Prior to Renewal [✓] 0 hr [✓] 24 hr [✓] 48 hr [ ] 72 hr

→ Not fed at 5-15-09

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
Ctrl	A	D1	5	5	5			
	B	D2	5	5	5			
	C	D3	5	5	5			
	D	D4	5	5	5			
100%	A	D5	5	1 4D	1			
	B	D6	5	5	5			
	C	D7	5	5	5			
	D	D8	5	5	5			
Loaded/Verified by: FW / MF		Checked by:	MF	JD/JW	JD			

m = missing d = dead BR/AR = Before/After Renewal

Comments:

Test Results:

Screening Tests: Report LC50 as >100%, =100%, or <100%.

% mortality in 100% sample: 20% LC50: >100%

If Calculated: 95% CI__________ Method__________

V 2.3 7/15/2008

Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1186876 Test #: 2/2 SOP#:TA 07_04 Test Started: Date 5/13/09 Time: 1400

Organism/Batch/Age: M. beryllina / 5.12.09 / 13 days Test Ended: Date 5/15/09 Time: 1200

Chamber/Test Volume: 1000 / 500 ml Diluent/ Batch: 35 ppt ASW / 5.12.09 Test Duration: (48 hr) 96 hr

Food/Batch: [ ] YCT____ [ ] P.sub____

[✓] Artemia Lot# 38438 Batch #: 0hr 66-09 24hr ~~67-09~~ (not applicable mr 5/15/09) 48hr____ 72hr____

Feeding: [X] Prior to Test [ ] Prior to Renewal [✓] 0 hr [✓] 24 hr [ ] 48 hr [ ] 72 hr

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
ctrl	A	D9	5	5	5			
	B	D10	5	5	5			
	C	D11	5	5	5			
	D	D12	5	5	5			
100%	A	D13	5	5	5			
	B	D14	5	5	5			
	C	D15	5	5	5			
	D	D16	5	5	5			
Loaded/Verified by: JD / BA		Checked by:	JW	JW	B			

m = missing d = dead BR/AR = Before/After Renewal

Comments:

Test Results:

Screening Tests: Report LC50 as >100%, =100%, or <100%.

% mortality in 100% sample: 0% LC50: >100%

If Calculated: 95% CI________ Method________

V 2.3 7/15/2008

Substitue highest test concentration used if other than 100% (example: Ocean outfall tested at 30% concentration).

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Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 118676 Test #: 1 of 2

TEST SOP #: TA07 03 Test Species: ☐ *Ceriodaphnia dubia* ☐ *Cyprinella leedsi* ☐ *Pimephales promelas*

Test aerated: (yes) no if yes, started 1000 hrs (circle one) mf std Check 1: ☒ *Americamysis bahia* ☐ *Menidia beryllina* ☐ Other:

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.)	8.4	8.1	8.3			
Temperature °C	25.4	24.3	24.0			
Dissolved Oxygen mg/L aerate if < 4	5.4	3.5 (A)	6.4			
Conductivity µmhos mmhos	54.1	54.5	53.9			
Salinity ppth	35.4	36.2	35.7			
(initials) Measured by:	SS	BJ	SS			
(initials) Recorded by:	SW	SW	SS			

Comments: (A) all test replicates, aeration started at 24 hours. mf 1-28 to 5/15/19 mf

Salinity only needs measuring if saltwater.

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.)	8.3	7.9	8.1			
Temperature °C	25.9	24.7	24.1			
Dissolved Oxygen mg/L aerate if < 4	5.9	3.8 (A)	6.2			
Conductivity µmhos mmhos	57.6	57.4	57.1			
Salinity ppth	35.2	38.2	38.0			
(initials) Measured by:	SS	SS	SS			
(initials) Recorded by:	SW	SW	SS			

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 aerate if < 4						
Conductivity µmhos mmhos						
Salinity ppth						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

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FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 186876 Test #: 2 of 2

TEST SOP #: TA07_04 Test Species: ☐ *Ceriodaphnia dubia* ☐ *Cyprinella leedsi* ☐ *Pimephales promelas*

Test aerated: yes (no) (circle one) Check 1: ☐ *Americamysis bahia* ☒ *Menidia beryllina* ☐ Other:_____

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.)	8.4	8.3	8.3			
Temperature °C	25.1	24.0	24.1			
Dissolved Oxygen mg/L aerate if < 4	5.5	5.7	6.2			
Conductivity µmhos (mmhos)	54.4	54.7	54.4			
Salinity ppth	35.7	35.9	36.5			
(initials) Measured by:	[illegible]	[illegible]	[illegible]			
(initials) Recorded by:	JW	JW	[illegible]			

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.)	8.3	8.2	8.2			
Temperature °C	25.9	24.1	24.2			
Dissolved Oxygen mg/L aerate if < 4	5.9	5.6	6.1			
Conductivity µmhos (mmhos)	57.8	57.7	57.8			
Salinity ppth	38.1	38.3	38.4			
(initials) Measured by:	[illegible]	[illegible]	[illegible]			
(initials) Recorded by:	JW	JW	[illegible]			

Comments:

Salinity only needs measuring if saltwater.

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 aerate if < 4						
Conductivity µmhos mmhos						
Salinity ppth						
(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 aerate if < 4						
Conductivity µmhos mmhos						
Salinity ppth						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

Appendix B. (continued)

Bioassay Instrument ID

Test ID: Anclote plant - Progress Energy Florida Dates: 5-13-09 5-18-09 15 min tap water 6/3/09

METER / DEVICE	ID	SOP	Parameter	Method	√used
YSI Model 58 Dissolved Oxygen Meter	90H018262	TA06_04	Dissolved Oxygen	SM 4500 O G	✓
Accumet AR-10 pH Meter	93312105	TA06_23	pH	SM 4500 H+	✓
Mettler-Toledo SevenMulti Conductivity Meter	SN 1225117049 Probe H04257	TA06_25	Conductivity Salinity	SM 2510 B SM 2520 B	✓ ✓
Denver Model 225 ISE with ammonia probe	SN K01377	TA06_17	Ammonia	SM 4500 NH3 F	✓
Thermometer (DO probe)	YSI 5750 SN 05J1720	TA06_05	Temperature	SM-2530B modified DEP SOP-001/01 FT1400	✓
Hach Pocket Colorimeter II	05050C026378	TA06_22	Total Residual Chlorine	EPA 330.5 SM 4500 CL G	✓
Alkalinity (Hach Kit)	No SN	TA06_08	Alkalinity	SM 2320 B	✓
Hardness (Hach Kit)	No SN	TA06_09	Hardness	SM 2340 C	✓
OHAUS Balance 250D	1125481084	TA06_21 TA06_27	Weight	-	
S-Weights	BIO-S-WEIGHTS-01	NA	Balance check	-	

Incorrectly marked Hardness. Not measured MF 6-12-09

SM-2530B modified to allow use of electronic and non-mercury filled thermometers.

Insert other device information in blank spaces(if used). Test ID = Facility or SRTs (acute SRT--Chronic SRT)

entered by MFairchild

V 1.1 6/12/08 MF

000 36

PAGE

Appendix C. SRT Bench Sheets and Statistical Analysis

Florida Department of Environmental Protection
Bureau of Laboratories

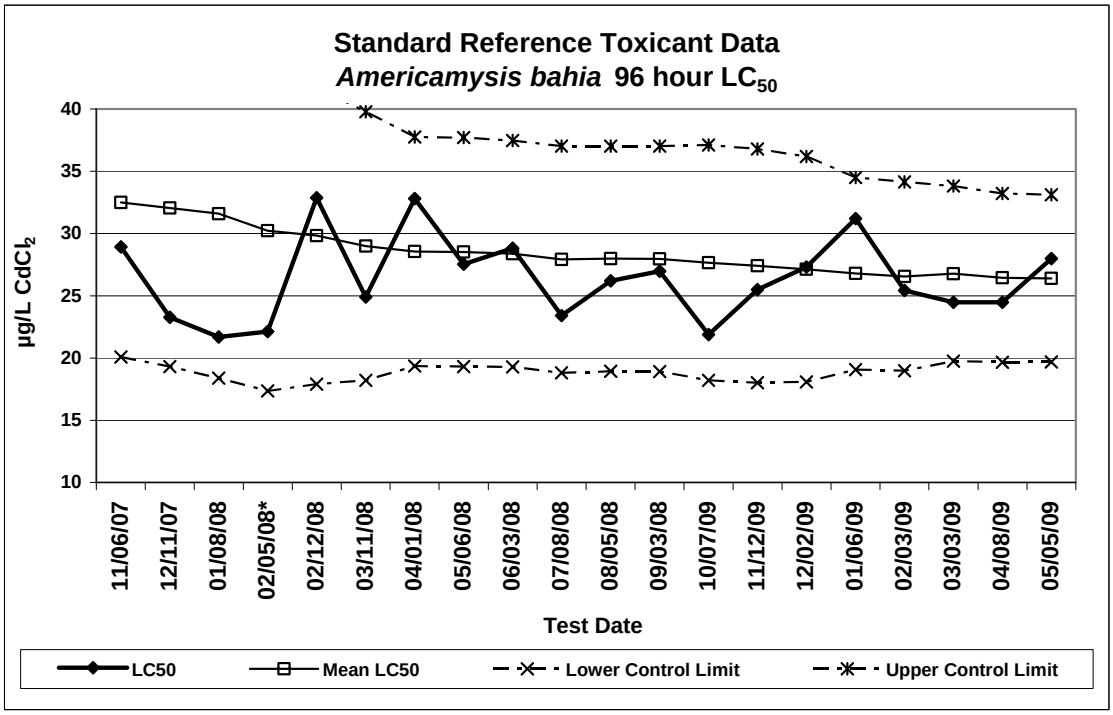
Standard Reference Toxicant (SRT) Test Data - 96-hour Acute Toxicity
Americamysis bahia (mysid shrimp) - Cadmium Chloride ($CdCl_2$)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
11/06/07	28.93	32.50	6.21	20.08	44.91
12/11/07	23.28	32.06	6.38	19.30	44.81
01/08/08	21.69	31.59	6.60	18.38	44.79
02/05/08*	22.13	30.23	6.44	17.35	43.12
02/12/08	32.87	29.83	5.96	17.90	41.76
03/11/08	24.89	29.00	5.39	18.22	39.78
04/01/08	32.81	28.56	4.60	19.36	37.75
05/06/08	27.55	28.52	4.60	19.31	37.72
06/03/08	28.81	28.37	4.54	19.29	37.46
07/08/08	23.40	27.91	4.56	18.80	37.03
08/05/08	26.21	27.98	4.52	18.93	37.03
09/03/08	26.98	27.96	4.53	18.91	37.02
10/07/09	21.89	27.66	4.73	18.21	37.11
11/12/09	25.50	27.40	4.69	18.01	36.78
12/02/09	27.31	27.13	4.53	18.07	36.20
01/06/09	31.20	26.79	3.86	19.07	34.50
02/03/09	25.44	26.56	3.79	18.97	34.15
03/03/09	24.49	26.78	3.52	19.75	33.81
04/08/09	24.49	26.45	3.39	19.66	33.23
05/05/09	27.98	26.39	3.36	19.68	33.10

CV = 12.73

Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev

EPA reference 75th quartile CV = 26%



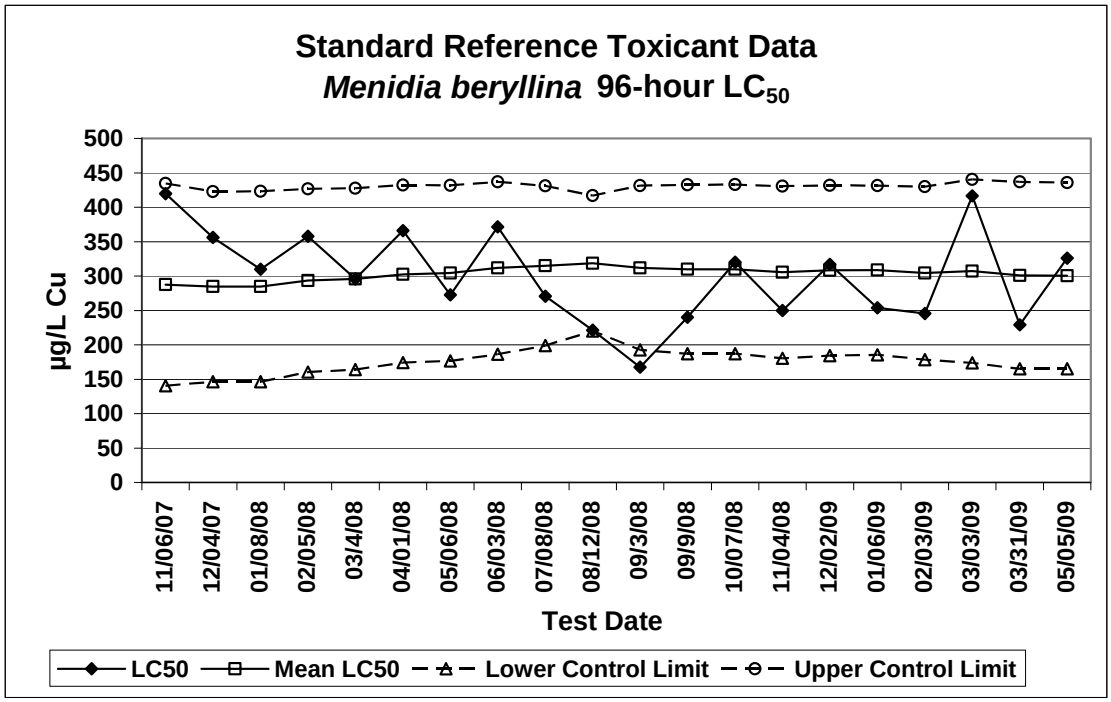
Appendix C. (continued)

Florida Department of Environmental Protection
Bureau of Laboratories

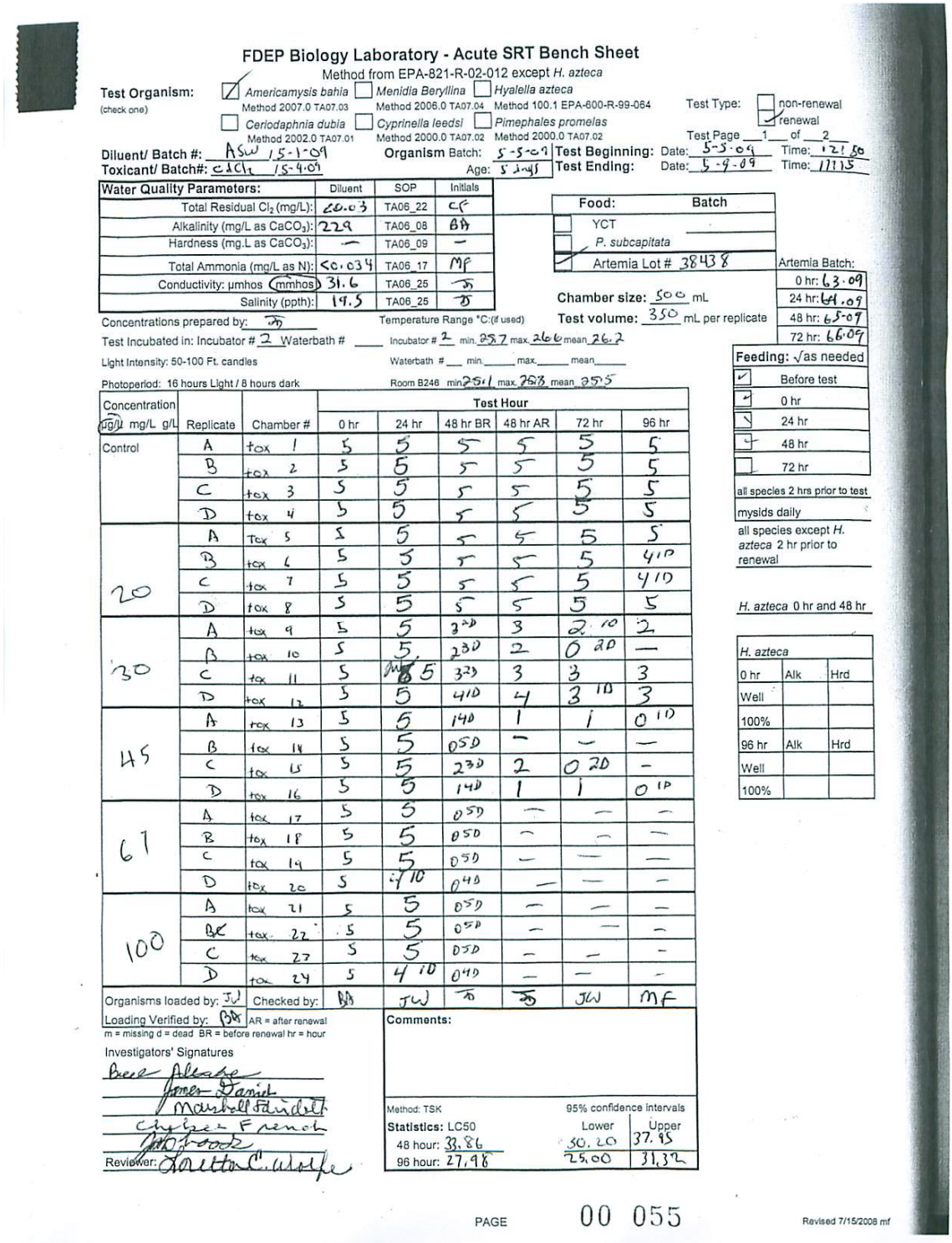
Standard Reference Toxicant (SRT) Test Data - 96-hour Acute Toxicity
Menidia beryllina (inland silverside) - Copper Chloride ($CuCl_2$) as Cu

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
11/06/07	419.55	287.50	73.50	140.50	434.51
12/04/07	356.02	284.51	69.07	146.36	422.65
01/08/08	309.80	284.71	69.14	146.43	423.00
02/05/08	357.47	293.49	66.51	160.48	426.50
03/4/08	295.52	295.53	65.88	163.77	427.28
04/01/08	365.9	302.28	64.49	174.29	432.27
05/06/08	272.5	304.29	63.81	176.66	431.91
06/03/08	371.38	311.63	62.59	186.45	436.80
07/08/08	270.47	315.01	58.07	198.87	431.14
08/12/08	221.17	318.46	49.27	219.93	416.99
09/3/08	167.46	311.77	59.70	192.36	431.18
09/9/08	240.07	309.81	61.44	186.93	432.70
10/07/08	319.95	310.00	61.47	187.06	432.94
11/04/08	249.81	305.57	62.50	180.57	430.57
12/02/09	316.79	308.13	61.82	184.48	431.78
01/06/09	253.83	308.45	61.51	185.44	431.46
02/03/09	245.51	304.15	62.80	178.55	429.74
03/03/09	416.64	307.01	66.63	173.74	440.27
03/31/09	228.94	300.89	67.96	164.97	436.80
05/05/09	326.07	300.24	67.64	164.97	435.52

CV = 22.53
EPA reference 75th quartile CV = 21%



Appendix C. (continued)



FDEP Biology Laboratory - Acute SRT Bench Sheet

Method from EPA-821-R-02-012 except *H. azteca*

Test Organism: (check one) ☑ *Americamysis bahia* Method 2007.0 TA07.03 ☐ *Menidia Beryllina* Method 2006.0 TA07.04 ☐ *Hyalella azteca* Method 100.1 EPA-600-R-99-064 ☐ *Ceriodaphnia dubia* Method 2002.0 TA07.01 ☐ *Cyprinella leedsi* Method 2000.0 TA07.02 ☐ *Pimephales promelas* Method 2000.0 TA07.02

Test Type: ☐ non-renewal ☑ renewal

Test Page 1 of 2

Diluent/ Batch #: ASW 15-1-09 Toxicant/ Batch#: $CdCl_2$ 15-4-09

Organism Batch: 5-5-09 Age: 5 1/2 d

Test Beginning: Date: 5-5-09 Time: 1215 Test Ending: Date: 5-9-09 Time: 1115

Water Quality Parameters:	Diluent	SOP	Initials
Total Residual Cl_2 (mg/L):	<0.03	TA06_22	CF
Alkalinity (mg/L as $CaCO_3$):	229	TA06_08	BH
Hardness (mg.L as $CaCO_3$):	—	TA06_09	—
Total Ammonia (mg/L as N):	<0.034	TA06_17	MF
Conductivity: µmhos (mmhos)	31.6	TA06_25	JD
Salinity (ppth):	19.5	TA06_25	JD

Food: Batch

☐ YCT

☐ *P. subcapitata*

☑ Artemia Lot # 38438

Artemia Batch:

0 hr: 63.09

24 hr: 64.09

48 hr: 65.09

72 hr: 66.09

Chamber size: 500 mL

Test volume: 350 mL per replicate

Concentrations prepared by: JD

Temperature Range °C:(if used)

Test Incubated in: Incubator # 2 Waterbath # ____ Incubator # 2 min. 25.7 max. 26.6 mean 26.2

Light Intensity: 50-100 Ft. candles Waterbath # ___ min. ____ max. ____ mean ____

Photoperiod: 16 hours Light / 8 hours dark Room B246 min 25.1 max. 25.3 mean 25.5

Feeding: √as needed

- ☑ Before test
- ☑ 0 hr
- ☑ 24 hr
- ☑ 48 hr
- ☐ 72 hr

all species 2 hrs prior to test

mysids daily

all species except *H. azteca* 2 hr prior to renewal

H. azteca 0 hr and 48 hr

H. azteca		
0 hr	Alk	Hrd
Well		
100%		
96 hr	Alk	Hrd
Well		
100%		

Concentration µg/L mg/L g/L	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
Control	A	tox 1	5	5	5	5	5	5
	B	tox 2	5	5	5	5	5	5
	C	tox 3	5	5	5	5	5	5
	D	tox 4	5	5	5	5	5	5
20	A	Tox 5	5	5	5	5	5	5
	B	tox 6	5	5	5	5	5	4 1D
	C	tox 7	5	5	5	5	5	4 1D
	D	tox 8	5	5	5	5	5	5
30	A	tox 9	5	5	3 2D	3	2 1D	2
	B	tox 10	5	5	2 3D	2	0 2D	—
	C	tox 11	5	MF 5	3 3D	3	3	3
	D	tox 12	5	5	4 1D	4	3 1D	3
45	A	tox 13	5	5	1 4D	1	1	0 1D
	B	tox 14	5	5	0 5D	—	—	—
	C	tox 15	5	5	2 3D	2	0 2D	—
	D	tox 16	5	5	1 4D	1	1	0 1D
67	A	tox 17	5	5	0 5D	—	—	—
	B	tox 18	5	5	0 5D	—	—	—
	C	tox 19	5	5	0 5D	—	—	—
	D	tox 20	5	4 1D	0 4D	—	—	—
100	A	tox 21	5	5	0 5D	—	—	—
	B	tox 22	5	5	0 5D	—	—	—
	C	tox 23	5	5	0 5D	—	—	—
	D	tox 24	5	4 1D	0 4D	—	—	—
Organisms loaded by: JW	Checked by:		BH	JW	JD	JD	JW	MF

Loading Verified by: BH AR = after renewal m = missing d = dead BR = before renewal hr = hour

Investigators' Signatures

Brian Allgood

James Daniel

Marshall Faircloth

Chylar French

Jeff Frooks

Reviewer: Loretta C. Wolfe

Comments:

Method: TSK

Statistics: LC50	95% confidence intervals Lower	Upper
48 hour: 33.86	30.20	37.95
96 hour: 27.98	25.00	31.32

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Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet
0-96 hour parameters

Methods from EPA-821-R-02-012 except *H. azteca*

Test Page 2 of 2

Test Organism: (check one)
- ☑ *Americamysis bahia* Method 2007.0 TA07.03
- ☐ *Menidia Beryllina* Method 2006.0 TA07.04
- ☐ *Hyalella azteca* Method 100.1 EPA-600-R-99-064
- ☐ *Ceriodaphnia dubia* Method 2002.0 TA07.01
- ☐ *Cyprinella leedsi* Method 2000.0 TA07.02
- ☐ *Pimephales promelas* Method 2000.0 TA07.02

Test Beginning: Date: 5-5-09 Time: 12:50
Test Ending: Date: 5-9-09 Time: 11:15

Test Type: ☐ non-renewal ☑ renewal

hr = hour AR = after renewal BR = before renewal

Concentration (µg/l) mg/L g/L	Replicate	Test Hour	pH (SU)	Temperature (° C)	Dissolved Oxygen (mg/L)	Conductivity ☐ µmhos ☑ mmhos	Salinity (ppth)
Control	A	0 hr	8.4	24.0	6.9	31.6	19.5
	B	24 hr	8.3	24.5	5.1	33.3	20.6
	C	48 hr BR	8.1	25.5	4.8	33.5	20.7
	C	48 hr AR	8.4	24.2	6.6	32.0	20.3
	D	72 hr	8.2	25.5	6.4	32.6	20.2
	A	96 hr	8.1	25.1	5.0	33.4	20.2
20	A	0 hr	8.4	24.0	6.8	32.0	19.9
	B	24 hr	8.3	24.5	5.1	33.6	20.9
	C	48 hr BR	8.1	25.3	5.0	33.8	21.2
	C	48 hr AR	8.3	24.3	6.5	32.6	20.7
	D	72 hr	8.2	25.3	6.1	32.6	20.3
	A	96 hr	8.1	24.6	5.2	33.8	20.8
30	A	0 hr	8.4	24.2	6.9	32.1	19.9
	B	24 hr	8.3	24.7	5.0	33.4	20.9
	C	48 hr BR	8.1	25.0	5.0	33.6	21.1
	C	48 hr AR	8.3	24.7	6.4	32.8	20.6
	D	72 hr	8.2	25.4	4.9	32.7	20.4
	A	96 hr	8.1	24.7	5.1	32.9	20.4
45	A	0 hr	8.4	24.2	7.0	32.0	19.9
	B	24 hr	8.3	24.8	5.2	33.3	20.9
	C	48 hr BR	8.1	25.4	5.0	33.9	21.2
	C	48 hr AR	8.4	24.7	6.4	32.5	20.4
	D	72 hr	8.2	25.3	5.3	32.7	20.5
	A	96 hr	8.1	24.7	5.3	333	20.7
67	A	0 hr	8.4	24.3	7.0	31.9	19.9
	B	24 hr	8.3	24.6	5.3	33.2	20.8
	C	48 hr BR	8.1	25.2	5.1	33.1	20.6
—	—	48 hr AR	—	—	—	—	—
—	—	72 hr	—	—	—	—	—
—	—	96 hr	—	—	—	—	—
100	A	0 hr	8.4	24.4	7.0	31.9	19.8
	B	24 hr	8.3	24.3	5.5	32.9	20.6
	C	48 hr BR	8.1	25.2	5.3	33.2	20.8
—	—	48 hr AR	—	—	—	—	—
—	—	72 hr	—	—	—	—	—
—	—	96 hr	—	—	—	—	—

Investigators Signatures
Brett Abood
Chelsea French
James Daniels
Marshall Fairbett
Reviewed By: Loretta C. Wolfe

Measured by:
0 hr: JD/SW
24 hr: JW/JD
48 hr BR: JW/JD
48 hr AR: JD/SW
72 hr: JW/SD
96 hr: MF

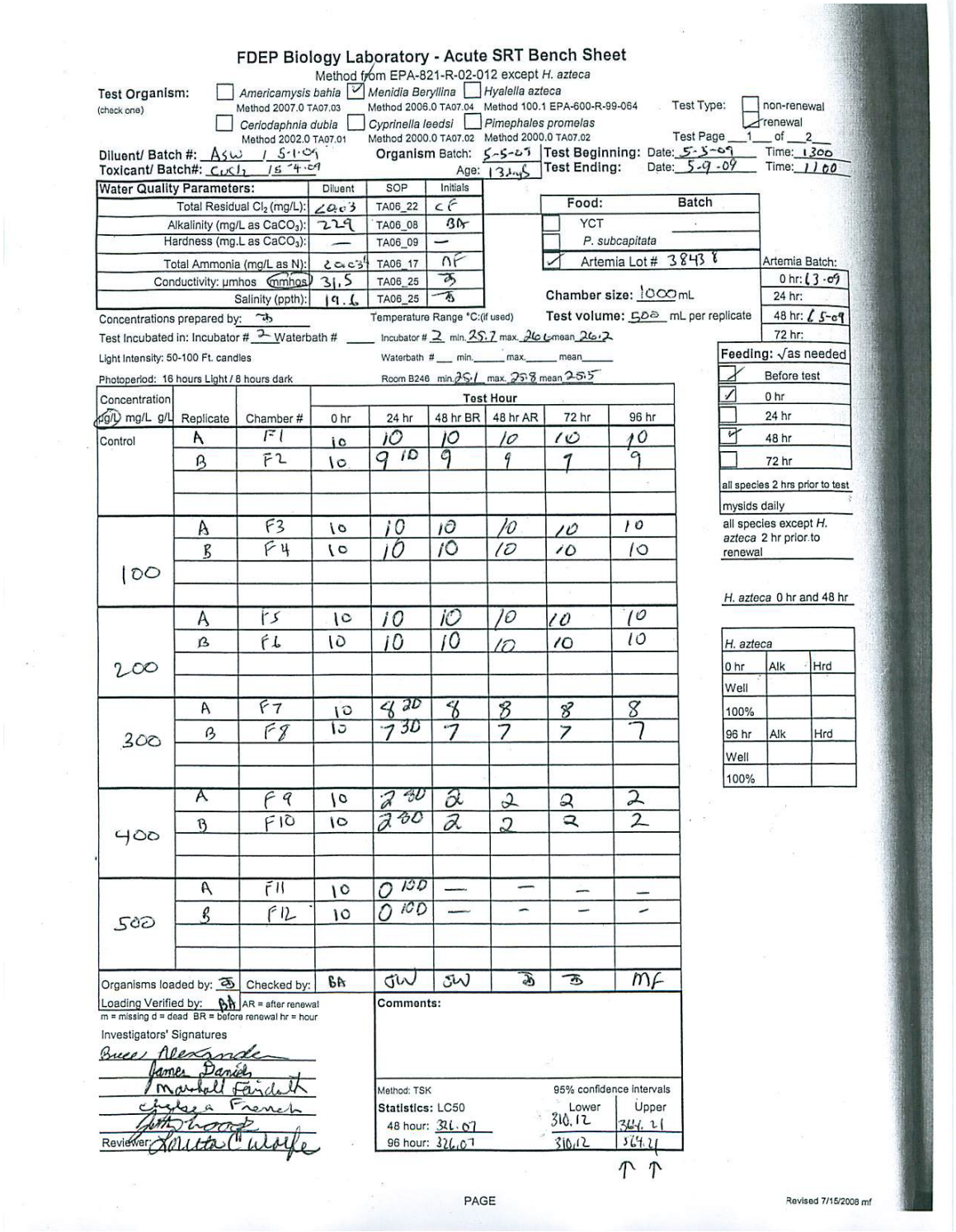
Measure/record salinity for marine tests

Comments:

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Appendix C. (continued)



FDEP Biology Laboratory - Acute SRT Bench Sheet

Method from EPA-821-R-02-012 except *H. azteca*

Test Organism: (check one)
- ☐ *Americamysis bahia* Method 2007.0 TA07.03
- ☑ *Menidia Beryllina* Method 2006.0 TA07.04
- ☐ *Hyalella azteca* Method 100.1 EPA-600-R-99-064
- ☐ *Ceriodaphnia dubia* Method 2002.0 TA07.01
- ☐ *Cyprinella leedsi* Method 2000.0 TA07.02
- ☐ *Pimephales promelas* Method 2000.0 TA07.02

Test Type: ☐ non-renewal ☑ renewal

Test Page 1 of 2

Diluent/ Batch #: ASW / 5-1-09
Toxicant/ Batch#: CuCl2 / 15 74-09
Organism Batch: 5-5-09 Age: 13 days
Test Beginning: Date: 5-5-09 Time: 1300
Test Ending: Date: 5-9-09 Time: 1100

Water Quality Parameters:	Diluent	SOP	Initials
Total Residual Cl_2 (mg/L):	<0.03	TA06_22	CF
Alkalinity (mg/L as $CaCO_3$):	229	TA06_08	BA
Hardness (mg.L as $CaCO_3$):	—	TA06_09	—
Total Ammonia (mg/L as N):	<0.03	TA06_17	NF
Conductivity: µmhos (mmhos)	31.5	TA06_25	JS
Salinity (ppth):	19.6	TA06_25	JS

Food:	Batch
☐ YCT	
☐ *P. subcapitata*	
☑ Artemia Lot # 3843	

Artemia Batch:
0 hr: 5-3-09
24 hr:
48 hr: 5-5-09
72 hr:

Chamber size: 1000 mL
Test volume: 500 mL per replicate

Concentrations prepared by: JS
Temperature Range °C:(if used)
Test Incubated in: Incubator # 2 Waterbath # ____ Incubator # 2 min. 25.7 max. 26.6 mean 26.2
Light Intensity: 50-100 Ft. candles Waterbath # ___ min.____ max.____ mean____
Photoperiod: 16 hours Light / 8 hours dark Room B246 min. 25.1 max. 25.8 mean 25.5

Feeding: √as needed

☑	Before test
☑	0 hr
☐	24 hr
☑	48 hr
☐	72 hr

all species 2 hrs prior to test
mysids daily
all species except *H. azteca* 2 hr prior to renewal
H. azteca 0 hr and 48 hr

Concentration µg/L mg/L g/L	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
Control	A	F1	10	10	10	10	10	10
	B	F2	10	9 10	9	9	9	9
100	A	F3	10	10	10	10	10	10
	B	F4	10	10	10	10	10	10
200	A	F5	10	10	10	10	10	10
	B	F6	10	10	10	10	10	10
300	A	F7	10	4 10	8	8	8	8
	B	F8	10	7 10	7	7	7	7
400	A	F9	10	2 10	2	2	2	2
	B	F10	10	2 10	2	2	2	2
500	A	F11	10	0 10	—	—	—	—
	B	F12	10	0 10	—	—	—	—
Organisms loaded by: JS		Checked by:	BA	JW	JW	JS	JS	MF

Loading Verified by: BA AR = after renewal
m = missing d = dead BR = before renewal hr = hour

H. azteca		
0 hr	Alk	Hrd
Well		
100%		
96 hr	Alk	Hrd
Well		
100%		

Investigators' Signatures
Bruce Alexander
James Davis
Marbell Faircloth
Chelsea French
Beth Hoop
Reviewer: Loretta C. Wolfe

Comments:

Method: TSK

Statistics: LC50	95% confidence intervals Lower	Upper
48 hour: 326.07	310.12	344.21
96 hour: 326.07	310.12	344.21

PAGE

Revised 7/15/2008 mf

Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet
0-96 hour parameters

Methods from EPA-821-R-02-012 except *H. azteca* — Test Page 2 of 2

Test Organism: (check one)
- ☐ *Americamysis bahia* Method 2007.0 TA07.03
- ☑ *Menidia Beryllina* Method 2006.0 TA07.04
- ☐ *Hyalella azteca* Method 100.1 EPA-600-R-99-064
- ☐ *Ceriodaphnia dubia* Method 2002.0 TA07.01
- ☐ *Cyprinella leedsi* Method 2000.0 TA07.02
- ☐ *Pimephales promelas* Method 2000.0 TA07.02

Test Beginning: Date: 5-5-09 Time: 1300
Test Ending: Date: 5-9-09 Time: 1100

Test Type: ☐ non-renewal ☑ renewal

hr = hour; AR = after renewal; BR = before renewal

Concentration (g/L mg/L g/L)	Replicate	Test Hour	pH (SU)	Temperature (°C)	Dissolved Oxygen (mg/L)	Conductivity ☐ µmhos ☑ mmhos	Salinity (ppth)
Control	A	0 hr	8.4	24.0	6.8	31.5	19.6
	B	24 hr	8.3	24.7	5.6	33.0	20.6
	A	48 hr BR	8.3	25.5	6.0	32.8	20.4
	A	48 hr AR	8.4	24.5	6.6	32.4	20.4
	B	72 hr	8.3	24.7	5.7	32.5	20.0
	A	96 hr	8.3	24.8	6.3	32.3	20.4
100	A	0 hr	8.4	24.0	7.0	31.9	19.9
	B	24 hr	8.3	24.6	5.4	33.0	20.8
	A	48 hr BR	8.2	25.1	5.5	33.3	21.0
	A	48 hr AR	8.4	24.5	6.6	33.0	20.6
	B	72 hr	8.3	25.5	5.8	32.8	20.5
	A	96 hr	8.2	25.4	6.1	32.8	20.7
200	A	0 hr	8.4	24.2	7.0	32.2	24.1 19.7 cF
	B	24 hr	8.3	24.6	5.9	33.3	20.8
	A	48 hr BR	8.2	25.3	~~6.7~~ 6.1	33.4	20.9
	A	48 hr AR	8.4	24.4	6.6	33.0	20.6
	B	72 hr	8.3	25.1	5.9	32.1	20.2
	A	96 hr	8.3	25.1	6.0	32.7	20.4
300	A	0 hr	8.4	~~8.2~~ 24.5	7.0	32.2	19.9 SD-19.9
	B	24 hr	8.3	24.7	6.0	33.3	20.8
	A	48 hr BR	8.2	25.2	6.0	33.3	20.9
	A	48 hr AR	8.4	24.4	6.6	33.0	20.5
	B	72 hr	8.3	25.0	5.9	32.3	20.2
	A	96 hr	8.3	25.2	6.1	33.0	20.6
400	A	0 hr	8.4	24.7	7.0	32.3	20.0
	B	24 hr	8.3	25.0	4.9	33.3	20.8
	A	48 hr BR	8.2	25.8	6.0	33.6	21.0
	A	48 hr AR	8.4	24.5	6.6	32.6	20.3
	B	72 hr	8.3	25.2	5.8	32.2	20.2
	A	96 hr	8.3	25.1	6.1	32.4	20.3
500	A	0 hr	8.5	24.5	7.0	~~32.7~~ 32.2	20.1
	B	24 hr	8.3	25.1	5.3	33.3	20.8
—		48 hr BR	—	—	—	—	—
—		48 hr AR	—	—	—	—	—
—		72 hr	—	—	—	—	—
—		96 hr	—	/	-	-	-

Investigators Signatures
Alexander
James Daniels
Marshall Faircloth
Chelsea French
John Frank
Reviewed By: Loretta Colvin

Measured by:
0 hr: JD/SW
24 hr: CW/JD
48 hr BR: SW/JD
48 hr AR: JD/SW
72 hr: SW/JD
96 hr: MF

Measure/record salinity for marine tests

Comments:

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Revised 07/15/2008 MF

Appendix C. (continued)

Americamysis bahia **Acute Standard Reference Toxicant Test**

DATE: 5-5-09 DURATION: 96 hr TOXICANT: $CdCl_2$
SPECIES: *Americamysis bahia*

RAW DATA: Concentration (ug/L)	Number Exposed	Mortalities
.00	20	0
20.00	20	2
30.00	20	12
45.00	20	20
67.00	20	20
100.00	20	20

SPEARMAN-KARBER TRIM: 10.00%

SPEARMAN-KARBER ESTIMATES: LC50: 27.98
95% LOWER CONFIDENCE: 25.00
95% UPPER CONFIDENCE: 31.32

Menidia beryllina **Acute Standard Reference Toxicant Test**

DATE: 5-5-09 DURATION: 96 hr TOXICANT: $CuCl_2$
SPECIES: *Menidia beryllina*

RAW DATA: Concentration (µg/L)	Number Exposed	Mortalities
.00	20	1
100.00	20	0
200.00	20	0
300.00	20	5
400.00	20	16
500.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 336.07
95% LOWER CONFIDENCE: 310.12
95% UPPER CONFIDENCE: 364.21

NOTE: MORTALITY PROPORTIONS WERE NOT MONOTONICALLY INCREASING. ADJUSTMENTS WERE MADE PRIOR TO SPEARMAN-KARBER ESTIMATION.

Appendix D. Test Organism Receipt(s)

MARINCO BIOASSAY LABORATORY
The Aquatic Toxicology Specialists

NELAP Certification # E84191

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 5/4/09

Shipped to: FDEP

P.O. No:

Species	Quantity	Age	Brood Number	Temp.	pH	Salinity
Mysidopsis bahia	200	4 DAYS	MS090430	25°C	7.9	20‰
Menidia beryllina	200	12 DAYS	SS090422	25°C	7.9	20‰
						Hardness
Cyprinella leedsi	150	12 DAYS	CL090422	25°C	7.8	80mg/L
Pimephales promelas	150	8 DAYS	FM090426	25°C	7.8	80mg/L

Packed by: JW

Shipped Via: FedEx

Notes:

Thank you for your order.

4569 Samuel Street · Sarasota, FL 34233 · Tel: 941-925-3594 · Fax: 941-922-3874 · Web: www.biologylab.com

Appendix D. (continued)

MARINCO BIOASSAY LABORATORY
The Aquatic Toxicology Specialists

NELAP Certification # E84191

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 5/11/09

Shipped to: FDEP

P.O. No:

Species	Quantity	Age	Brood Number	Temp.	pH	Salinity
Mysidopsis bahia	100	3 DAYS	MS090508	25°C	7.9 s.u.	20‰
Menidia beryllina	100	12 DAY	SS090429	25°C	7.9 s.u.	20‰
						Hardness
Cyprinella leedsi	150	11 DAY	CL090430	25°C	7.8 s.u	80 mg/L
Pimephales promelas						

Packed by: AV

Shipped Via: FedEx

Notes:

Thank you for your order.

4569 Samuel Street · Sarasota, FL 34233 · Tel: 941-925-3594 · Fax: 941-922-3874 · Web: www.biologylab.com

Appendix E. Chemical Analyses performed on the effluent from the Anclote Power Plant Facility Outfall D-004, sampled on May 4 and 12, 2009.

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:20	Effluent	AGP/LN	Algal Growth Potential	3	U	mg DryWt/L	3	3
5/4/2009 10:20	Effluent	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	2.4		ug/L	0.55	1.7
5/4/2009 10:20	Effluent	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1.6	I	mg/L	0.2	2
5/4/2009 10:20	Effluent	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.89	I	ug/L	0.4	1.2
5/4/2009 10:20	Effluent	Metals	Beryllium	0.12	U	ug/L	0.12	0.5
5/4/2009 10:20	Effluent	Metals	Copper	1.5	UJ	ug/L	1.5	1.5
5/4/2009 10:20	Effluent	Metals	Selenium	0.6	UJ	ug/L	0.6	2.4
5/4/2009 10:20	Effluent	Metals	Calcium	424	A	mg/L	0.22	0.9
5/4/2009 10:20	Effluent	Metals	Magnesium	1420	A	mg/L	0.8	3.2
5/4/2009 10:20	Effluent	Metals	Antimony	0.75	U	ug/L	0.75	3
5/4/2009 10:20	Effluent	Metals	Arsenic	1.5	I	ug/L	0.75	3
5/4/2009 10:20	Effluent	Metals	Aluminum	180	U	ug/L	180	720
5/4/2009 10:20	Effluent	Metals	Zinc	15	U	ug/L	15	60
5/4/2009 10:20	Effluent	Metals	Silver	0.075	U	ug/L	0.075	0.3
5/4/2009 10:20	Effluent	Metals	Chromium	0.9	U	ug/L	0.9	3.6
5/4/2009 10:20	Effluent	Metals	Iron	120	I	ug/L	90	360
5/4/2009 10:20	Effluent	Metals	Cadmium	0.09	U	ug/L	0.09	0.36
5/4/2009 10:20	Effluent	Metals	Lead	0.6	U	ug/L	0.6	2.4
5/4/2009 10:20	Effluent	Metals	Nickel	0.75	U	ug/L	0.75	3
5/4/2009 10:20	Effluent	Nutrients	Ammonia-N	0.052	I	mg N/L	0.05	0.1
5/4/2009 10:20	Effluent	Nutrients	O-Phosphate-P	0.008	U	mg P/L	0.008	0.02
5/4/2009 10:20	Effluent	Nutrients	TSS	10	I	mg/L	4	16
5/4/2009 10:20	Effluent	Nutrients	NO2NO3-N	0.005	I	mg N/L	0.004	0.01
5/4/2009 10:20	Effluent	Nutrients	Total-P	0.024		mg P/L	0.008	0.02
5/4/2009 10:20	Effluent	Nutrients	Kjeldahl Nitrogen	0.8	A	mg N/L	0.16	0.4
5/4/2009 10:20	Effluent	Overflow	Alpha-Counting Error	1.5		pCi/L		
5/4/2009 10:20	Effluent	Overflow	Radium 226-Counting Error	0.2		pCi/L		
5/4/2009 10:20	Effluent	Overflow	Radium 228	0.8	U	pCi/L		
5/4/2009 10:20	Effluent	Overflow	Radium 228-Counting Error	0.5		pCi/L		
5/4/2009 10:20	Effluent	Overflow	Radium 226	0.8		pCi/L		
5/4/2009 10:20	Effluent	Overflow	Alpha, Total	2.6		pCi/L		
5/4/2009 10:20	Effluent	Pesticides	Ametryn	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Ethoprop	0.092	UY	ug/L	0.092	0.37

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:20	Effluent	Pesticides	Hexazinone	0.092	UYJ	ug/L	0.092	0.37
5/4/2009 10:20	Effluent	Pesticides	Alpha-BHC	0.0092	UY	ug/L	0.0092	0.037
5/4/2009 10:20	Effluent	Pesticides	Beta-BHC	0.0092	UY	ug/L	0.0092	0.037
5/4/2009 10:20	Effluent	Pesticides	Chlordane	0.18	UY	ug/L	0.18	0.72
5/4/2009 10:20	Effluent	Pesticides	Gamma-BHC	0.0092	UY	ug/L	0.0092	0.037
5/4/2009 10:20	Effluent	Pesticides	Alachlor	0.55	UYJ	ug/L	0.55	2.2
5/4/2009 10:20	Effluent	Pesticides	Bromacil	0.18	UYJ	ug/L	0.18	0.72
5/4/2009 10:20	Effluent	Pesticides	Butylate	0.18	UYJ	ug/L	0.18	0.72
5/4/2009 10:20	Effluent	Pesticides	Fenamiphos	0.18	UY	ug/L	0.18	0.72
5/4/2009 10:20	Effluent	Pesticides	Malathion	0.14	UY	ug/L	0.14	0.56
5/4/2009 10:20	Effluent	Pesticides	Metalaxyl	0.23	UYJ	ug/L	0.23	0.92
5/4/2009 10:20	Effluent	Pesticides	Parathion Methyl	0.092	UY	ug/L	0.092	0.37
5/4/2009 10:20	Effluent	Pesticides	Aldrin	0.0092	UY	ug/L	0.0092	0.037
5/4/2009 10:20	Effluent	Pesticides	Dieldrin	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	Toxaphene	0.69	UY	ug/L	0.69	2.8
5/4/2009 10:20	Effluent	Pesticides	Diazinon	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Parathion Ethyl	0.14	UY	ug/L	0.14	0.56
5/4/2009 10:20	Effluent	Pesticides	DDD-p,p'	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	Heptachlor	0.0092	UY	ug/L	0.0092	0.037
5/4/2009 10:20	Effluent	Pesticides	Endosulfan I	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	Heptachlor Epoxide	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	Fonofos	0.092	UY	ug/L	0.092	0.37
5/4/2009 10:20	Effluent	Pesticides	Delta-BHC	0.0092	UY	ug/L	0.0092	0.037
5/4/2009 10:20	Effluent	Pesticides	Endrin Aldehyde	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	Azinphos Methyl	0.18	UY	ug/L	0.18	0.72
5/4/2009 10:20	Effluent	Pesticides	Ethion	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Metolachlor	0.46	UYJ	ug/L	0.46	1.8
5/4/2009 10:20	Effluent	Pesticides	Mevinphos	0.18	UY	ug/L	0.18	0.72
5/4/2009 10:20	Effluent	Pesticides	Naled	0.74	UY	ug/L	0.74	3
5/4/2009 10:20	Effluent	Pesticides	Prometryn	0.14	UY	ug/L	0.14	0.56
5/4/2009 10:20	Effluent	Pesticides	Endosulfan Sulfate	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	Methoxychlor	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Chlorpyrifos Ethyl	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Norflurazon	0.14	UYJ	ug/L	0.14	0.56

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:20	Effluent	Pesticides	Phorate	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Simazine	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Endosulfan II	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	DDT-p,p'	0.028	UY	ug/L	0.028	0.11
5/4/2009 10:20	Effluent	Pesticides	DDE-p,p'	0.018	UY	ug/L	0.018	0.072
5/4/2009 10:20	Effluent	Pesticides	Metribuzin	0.092	UY	ug/L	0.092	0.37
5/4/2009 10:20	Effluent	Pesticides	Endrin	0.046	UY	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Atrazine	0.046	UYJ	ug/L	0.046	0.18
5/4/2009 10:20	Effluent	Pesticides	Chlorpyrifos Methyl	0.092	UY	ug/L	0.092	0.37
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(a)anthracene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(a)pyrene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	14	UY	ug/L	14	56
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.8	UJY	ug/L	2.8	11
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Naphthalene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8	UY	ug/L	2.8	11
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Anthracene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Benzidine	93	UY	ug/L	93	370
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.93	UYJ	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	37	UYJ	ug/L	37	150
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	0.93	UYJ	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Diethyl phthalate	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Dimethyl phthalate	9.3	UY	ug/L	9.3	37
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Fluorene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Hexachlorobenzene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Hexachloroethane	2.8	UY	ug/L	2.8	11
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	9.3	UY	ug/L	9.3	37
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2-Nitrophenol	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Hexachlorobutadiene	2.8	UY	ug/L	2.8	11
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Isophorone	0.93	UY	ug/L	0.93	3.7

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.8	UYJ	ug/L	2.8	11
5/4/2009 10:20	Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	4-Nitrophenol	14	UY	ug/L	14	56
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Phenol	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Acenaphthene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Chrysene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	4.6	UY	ug/L	4.6	19
5/4/2009 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	UY	ug/L	1.9	7.4
5/4/2009 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	UY	ug/L	1.9	7.4
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2-Chlorophenol	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Acenaphthylene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.8	UY	ug/L	2.8	11
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	4.6	UY	ug/L	4.6	19
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Pentachlorophenol	2.8	UY	ug/L	2.8	11
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Phenanthrene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	14	UY	ug/L	14	56
5/4/2009 10:20	Effluent	Priority Organic Pollutants	2-Chloronaphthalene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	UY	ug/L	1.9	7.4
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Fluoranthene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Nitrobenzene	1.9	UY	ug/L	1.9	7.4
5/4/2009 10:20	Effluent	Priority Organic Pollutants	Pyrene	0.93	UY	ug/L	0.93	3.7
5/4/2009 10:20	Effluent	Field Parameter	Sample Depth	0.2		m		
5/4/2009 10:20	Effluent	Field Parameter	Dissolved Oxygen	5.19		mg/L		
5/4/2009 10:20	Effluent	Field Parameter	Specific Conductance	55128		umhos/cm		
5/4/2009 10:20	Effluent	Field Parameter	Temperature	28.23		C		
5/4/2009 10:20	Effluent	Field Parameter	pH	8.48				
5/4/2009 10:40	Field Blank	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.2	U	mg/L	0.2	2

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:40	Field Blank	Metals	Calcium	0.075	U	mg/L	0.075	0.3
5/4/2009 10:40	Field Blank	Metals	Lead	0.2	U	ug/L	0.2	0.8
5/4/2009 10:40	Field Blank	Metals	Cadmium	0.03	U	ug/L	0.03	0.12
5/4/2009 10:40	Field Blank	Metals	Selenium	0.2	U	ug/L	0.2	0.8
5/4/2009 10:40	Field Blank	Metals	Chromium	0.3	U	ug/L	0.3	1.2
5/4/2009 10:40	Field Blank	Metals	Beryllium	0.025	U	ug/L	0.025	0.1
5/4/2009 10:40	Field Blank	Metals	Antimony	0.25	U	ug/L	0.25	1
5/4/2009 10:40	Field Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1
5/4/2009 10:40	Field Blank	Metals	Copper	0.5	U	ug/L	0.5	0.5
5/4/2009 10:40	Field Blank	Metals	Zinc	5	U	ug/L	5	20
5/4/2009 10:40	Field Blank	Metals	Magnesium	0.04	U	mg/L	0.04	0.16
5/4/2009 10:40	Field Blank	Metals	Arsenic	0.25	U	ug/L	0.25	1
5/4/2009 10:40	Field Blank	Metals	Aluminum	60	U	ug/L	60	240
5/4/2009 10:40	Field Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
5/4/2009 10:40	Field Blank	Metals	Iron	30	U	ug/L	30	120
5/4/2009 10:40	Field Blank	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
5/4/2009 10:40	Field Blank	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
5/4/2009 10:40	Field Blank	Nutrients	Total-P	0.004	U	mg P/L	0.004	0.01
5/4/2009 10:40	Field Blank	Nutrients	O-Phosphate-P	0.007	I	mg P/L	0.004	0.01
5/4/2009 10:40	Field Blank	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
5/4/2009 10:40	Field Blank	Overflow	Radium 226	0.1		pCi/L		
5/4/2009 10:40	Field Blank	Overflow	Radium 228	0.8	U	pCi/L		
5/4/2009 10:40	Field Blank	Overflow	Alpha-Counting Error	0.5		pCi/L		
5/4/2009 10:40	Field Blank	Overflow	Radium 226-Counting Error	0.1		pCi/L		
5/4/2009 10:40	Field Blank	Overflow	Alpha, Total	0.9	U	pCi/L		
5/4/2009 10:40	Field Blank	Overflow	Radium 228-Counting Error	0.5		pCi/L		
5/4/2009 10:40	Field Blank	Pesticides	Parathion Methyl	0.097	UY	ug/L	0.097	0.39
5/4/2009 10:40	Field Blank	Pesticides	Metribuzin	0.097	UY	ug/L	0.097	0.39
5/4/2009 10:40	Field Blank	Pesticides	Mevinphos	0.19	UY	ug/L	0.19	0.76
5/4/2009 10:40	Field Blank	Pesticides	Naled	0.78	UY	ug/L	0.78	3.1
5/4/2009 10:40	Field Blank	Pesticides	Alpha-BHC	0.0097	UY	ug/L	0.0097	0.039
5/4/2009 10:40	Field Blank	Pesticides	Chlordane	0.19	UY	ug/L	0.19	0.76
5/4/2009 10:40	Field Blank	Pesticides	Heptachlor	0.0097	UY	ug/L	0.0097	0.039
5/4/2009 10:40	Field Blank	Pesticides	Azinphos Methyl	0.19	UY	ug/L	0.19	0.76

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:40	Field Blank	Pesticides	Butylate	0.19	UYJ	ug/L	0.19	0.76
5/4/2009 10:40	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Diazinon	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Norflurazon	0.15	UYJ	ug/L	0.15	0.6
5/4/2009 10:40	Field Blank	Pesticides	Endrin Aldehyde	0.019	UY	ug/L	0.019	0.076
5/4/2009 10:40	Field Blank	Pesticides	Toxaphene	0.73	UY	ug/L	0.73	2.9
5/4/2009 10:40	Field Blank	Pesticides	Atrazine	0.048	UYJ	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Metolachlor	0.48	UYJ	ug/L	0.48	1.9
5/4/2009 10:40	Field Blank	Pesticides	Simazine	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Delta-BHC	0.0097	UY	ug/L	0.0097	0.039
5/4/2009 10:40	Field Blank	Pesticides	Endosulfan I	0.019	UY	ug/L	0.019	0.076
5/4/2009 10:40	Field Blank	Pesticides	Ametryn	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Bromacil	0.19	UYJ	ug/L	0.19	0.76
5/4/2009 10:40	Field Blank	Pesticides	Ethion	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Hexazinone	0.097	UYJ	ug/L	0.097	0.39
5/4/2009 10:40	Field Blank	Pesticides	Prometryn	0.15	UY	ug/L	0.15	0.6
5/4/2009 10:40	Field Blank	Pesticides	Beta-BHC	0.0097	UY	ug/L	0.0097	0.039
5/4/2009 10:40	Field Blank	Pesticides	Phorate	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Aldrin	0.0097	UY	ug/L	0.0097	0.039
5/4/2009 10:40	Field Blank	Pesticides	DDE-p,p'	0.019	UY	ug/L	0.019	0.076
5/4/2009 10:40	Field Blank	Pesticides	DDT-p,p'	0.029	UY	ug/L	0.029	0.12
5/4/2009 10:40	Field Blank	Pesticides	Dieldrin	0.019	UY	ug/L	0.019	0.076
5/4/2009 10:40	Field Blank	Pesticides	Methoxychlor	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Alachlor	0.58	UYJ	ug/L	0.58	2.3
5/4/2009 10:40	Field Blank	Pesticides	Ethoprop	0.097	UY	ug/L	0.097	0.39
5/4/2009 10:40	Field Blank	Pesticides	DDD-p,p'	0.019	UY	ug/L	0.019	0.076
5/4/2009 10:40	Field Blank	Pesticides	Chlorpyrifos Methyl	0.097	UY	ug/L	0.097	0.39
5/4/2009 10:40	Field Blank	Pesticides	Fenamiphos	0.19	UY	ug/L	0.19	0.76
5/4/2009 10:40	Field Blank	Pesticides	Fonofos	0.097	UY	ug/L	0.097	0.39
5/4/2009 10:40	Field Blank	Pesticides	Malathion	0.15	UY	ug/L	0.15	0.6
5/4/2009 10:40	Field Blank	Pesticides	Metalaxyl	0.24	UYJ	ug/L	0.24	0.96
5/4/2009 10:40	Field Blank	Pesticides	Parathion Ethyl	0.15	UY	ug/L	0.15	0.6
5/4/2009 10:40	Field Blank	Pesticides	Endosulfan II	0.019	UY	ug/L	0.019	0.076
5/4/2009 10:40	Field Blank	Pesticides	Endosulfan Sulfate	0.019	UY	ug/L	0.019	0.076

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:40	Field Blank	Pesticides	Endrin	0.048	UY	ug/L	0.048	0.19
5/4/2009 10:40	Field Blank	Pesticides	Gamma-BHC	0.0097	UY	ug/L	0.0097	0.039
5/4/2009 10:40	Field Blank	Pesticides	Heptachlor Epoxide	0.019	UY	ug/L	0.019	0.076
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15	UY	ug/L	15	58
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.97	UYJ	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Naphthalene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.7	UY	ug/L	9.7	39
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	39	UYJ	ug/L	39	160
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	16	IY	ug/L	16	62
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Diethyl phthalate	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	9.7	UY	ug/L	9.7	39
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Hexachloroethane	2.9	UY	ug/L	2.9	12
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	UY	ug/L	1.9	7.8
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Nitrobenzene	1.9	UY	ug/L	1.9	7.8
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Pyrene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Acenaphthene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.97	UYJ	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	UY	ug/L	1.9	7.8
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	UY	ug/L	2.9	12
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Benzidine	97	UY	ug/L	97	390
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.97	UY	ug/L	0.97	3.9

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Chrysene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Fluorene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.9	UY	ug/L	2.9	12
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9	UYJ	ug/L	2.9	12
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Pentachlorophenol	2.9	UY	ug/L	2.9	12
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	UY	ug/L	1.9	7.8
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	4.9	UY	ug/L	4.9	19
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	UJY	ug/L	2.9	12
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Isophorone	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Phenol	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	4.9	UY	ug/L	4.9	19
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Fluoranthene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	4-Nitrophenol	15	UY	ug/L	15	58
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Anthracene	0.97	UY	ug/L	0.97	3.9
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	UY	ug/L	2.9	12
5/4/2009 10:40	Field Blank	Priority Organic Pollutants	Phenanthrene	0.97	UY	ug/L	0.97	3.9
5/12/2009 10:20	Effluent	Toxicology	Bioassay-Acute-Screen-SW-Fish, LC50	100	L	LC50		
5/12/2009 10:20	Effluent	Toxicology	Bioassay-Acute-Screen-SW-Mysid, LC50	100	L	LC50		
5/12/2009 10:20	Effluent	Pesticides	Metalaxyl	0.25	UJ	ug/L	0.25	1
5/12/2009 10:20	Effluent	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
5/12/2009 10:20	Effluent	Pesticides	Beta-BHC	0.01	U	ug/L	0.01	0.04
5/12/2009 10:20	Effluent	Pesticides	DDD-p,p'	0.02	U	ug/L	0.02	0.08
5/12/2009 10:20	Effluent	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
5/12/2009 10:20	Effluent	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
5/12/2009 10:20	Effluent	Pesticides	Mevinphos	0.2	U	ug/L	0.2	0.8
5/12/2009 10:20	Effluent	Pesticides	Methoxychlor	0.05	UJ	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Toxaphene	0.75	U	ug/L	0.75	3

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/12/2009 10:20	Effluent	Pesticides	Alachlor	0.6	U	ug/L	0.6	2.4
5/12/2009 10:20	Effluent	Pesticides	Butylate	0.2	U	ug/L	0.2	0.8
5/12/2009 10:20	Effluent	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
5/12/2009 10:20	Effluent	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
5/12/2009 10:20	Effluent	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
5/12/2009 10:20	Effluent	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Aldrin	0.01	U	ug/L	0.01	0.04
5/12/2009 10:20	Effluent	Pesticides	Endosulfan I	0.02	U	ug/L	0.02	0.08
5/12/2009 10:20	Effluent	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
5/12/2009 10:20	Effluent	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
5/12/2009 10:20	Effluent	Pesticides	Alpha-BHC	0.01	U	ug/L	0.01	0.04
5/12/2009 10:20	Effluent	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
5/12/2009 10:20	Effluent	Pesticides	Endosulfan Sulfate	0.02	U	ug/L	0.02	0.08
5/12/2009 10:20	Effluent	Pesticides	Gamma-BHC	0.01	U	ug/L	0.01	0.04
5/12/2009 10:20	Effluent	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
5/12/2009 10:20	Effluent	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
5/12/2009 10:20	Effluent	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
5/12/2009 10:20	Effluent	Pesticides	Chlordane	0.2	U	ug/L	0.2	0.8
5/12/2009 10:20	Effluent	Pesticides	Delta-BHC	0.01	U	ug/L	0.01	0.04
5/12/2009 10:20	Effluent	Pesticides	Dieldrin	0.02	U	ug/L	0.02	0.08
5/12/2009 10:20	Effluent	Pesticides	Endosulfan II	0.02	U	ug/L	0.02	0.08
5/12/2009 10:20	Effluent	Pesticides	Heptachlor	0.01	U	ug/L	0.01	0.04
5/12/2009 10:20	Effluent	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Azinphos Methyl	0.2	UJ	ug/L	0.2	0.8
5/12/2009 10:20	Effluent	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
5/12/2009 10:20	Effluent	Pesticides	Metolachlor	0.5	U	ug/L	0.5	2
5/12/2009 10:20	Effluent	Pesticides	DDE-p,p'	0.02	U	ug/L	0.02	0.08
5/12/2009 10:20	Effluent	Pesticides	DDT-p,p'	0.03	U	ug/L	0.03	0.12
5/12/2009 10:20	Effluent	Pesticides	Endrin	0.05	U	ug/L	0.05	0.2
5/12/2009 10:20	Effluent	Pesticides	Endrin Aldehyde	0.02	U	ug/L	0.02	0.08

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/12/2009 10:20	Effluent	Pesticides	Heptachlor Epoxide	0.02	U	ug/L	0.02	0.08
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dinitrophenol	14	U	ug/L	14	55
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Phenol	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Butyl benzyl phthalate	4.6	U	ug/L	4.6	18
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Chrysene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Di-n-octyl phthalate	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.8	U	ug/L	1.8	7.4
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dichlorophenol	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	4-Nitrophenol	14	U	ug/L	14	55
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Acenaphthene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Naphthalene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Pyrene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	14	U	ug/L	14	55
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Phenanthrene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Hexachloroethane	2.8	U	ug/L	2.8	11
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Di-n-butyl phthalate	4.6	U	ug/L	4.6	18
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Diethyl phthalate	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.8	U	ug/L	2.8	11
5/12/2009 10:20	Effluent	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dimethylphenol	9.2	U	ug/L	9.2	37
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2-Chlorophenol	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8	U	ug/L	2.8	11
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Benzidine	92	U	ug/L	92	370
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Hexachlorobenzene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodimethylamine	1.8	U	ug/L	1.8	7.4
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Nitrobenzene	1.8	U	ug/L	1.8	7.4
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Pentachlorophenol	2.8	UJ	ug/L	2.8	11
5/12/2009 10:20	Effluent	Priority Organic Pollutants	3,3'-Dichlorobenzidine	37	UJ	ug/L	37	150
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Acenaphthylene	0.92	U	ug/L	0.92	3.7

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Dimethyl phthalate	9.2	U	ug/L	9.2	37
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Fluorene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2,6-Dinitrotoluene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2-Chloronaphthalene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.8	U	ug/L	1.8	7.4
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(b)fluoranthene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Fluoranthene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.8	UJ	ug/L	2.8	11
5/12/2009 10:20	Effluent	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.8	U	ug/L	2.8	11
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2,4-Dinitrotoluene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	2-Nitrophenol	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(a)anthracene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(k)fluoranthene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Hexachlorobutadiene	2.8	U	ug/L	2.8	11
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Isophorone	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Anthracene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Priority Organic Pollutants	Benzo(a)pyrene	0.92	U	ug/L	0.92	3.7
5/12/2009 10:20	Effluent	Field Parameter	pH	7.97				
5/12/2009 10:20	Effluent	Field Parameter	Dissolved Oxygen	4.4		mg/L		
5/12/2009 10:20	Effluent	Field Parameter	Temperature	30.01		C		
5/12/2009 10:20	Effluent	Field Parameter	Specific Conductance	54560		umhos/cm		
5/12/2009 10:20	Effluent	Field Parameter	Sample Depth	0.2		m		
5/12/2009 10:35	Field Blank	Pesticides	Fenamiphos	0.19	U	ug/L	0.19	0.76
5/12/2009 10:35	Field Blank	Pesticides	Toxaphene	0.72	U	ug/L	0.72	2.9
5/12/2009 10:35	Field Blank	Pesticides	Simazine	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Aldrin	0.0096	U	ug/L	0.0096	0.038
5/12/2009 10:35	Field Blank	Pesticides	Endosulfan II	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	Heptachlor	0.0096	U	ug/L	0.0096	0.038
5/12/2009 10:35	Field Blank	Pesticides	Heptachlor Epoxide	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	Methoxychlor	0.048	UJ	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Bromacil	0.19	U	ug/L	0.19	0.76

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/12/2009 10:35	Field Blank	Pesticides	Ethoprop	0.096	U	ug/L	0.096	0.38
5/12/2009 10:35	Field Blank	Pesticides	Metalaxyl	0.24	UJ	ug/L	0.24	0.96
5/12/2009 10:35	Field Blank	Pesticides	Delta-BHC	0.0096	U	ug/L	0.0096	0.038
5/12/2009 10:35	Field Blank	Pesticides	Endosulfan Sulfate	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	Endrin	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Atrazine	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Chlorpyrifos Ethyl	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Mevinphos	0.19	U	ug/L	0.19	0.76
5/12/2009 10:35	Field Blank	Pesticides	Beta-BHC	0.0096	U	ug/L	0.0096	0.038
5/12/2009 10:35	Field Blank	Pesticides	Alachlor	0.58	U	ug/L	0.58	2.3
5/12/2009 10:35	Field Blank	Pesticides	Diazinon	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Naled	0.77	U	ug/L	0.77	3.1
5/12/2009 10:35	Field Blank	Pesticides	DDT-p,p'	0.029	U	ug/L	0.029	0.12
5/12/2009 10:35	Field Blank	Pesticides	Endosulfan I	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	Endrin Aldehyde	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	Ametryn	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Ethion	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Norflurazon	0.14	U	ug/L	0.14	0.56
5/12/2009 10:35	Field Blank	Pesticides	Phorate	0.048	U	ug/L	0.048	0.19
5/12/2009 10:35	Field Blank	Pesticides	Butylate	0.19	U	ug/L	0.19	0.76
5/12/2009 10:35	Field Blank	Pesticides	Chlorpyrifos Methyl	0.096	U	ug/L	0.096	0.38
5/12/2009 10:35	Field Blank	Pesticides	Malathion	0.14	U	ug/L	0.14	0.56
5/12/2009 10:35	Field Blank	Pesticides	Parathion Ethyl	0.14	U	ug/L	0.14	0.56
5/12/2009 10:35	Field Blank	Pesticides	Parathion Methyl	0.096	U	ug/L	0.096	0.38
5/12/2009 10:35	Field Blank	Pesticides	DDD-p,p'	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	DDE-p,p'	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	Dieldrin	0.019	U	ug/L	0.019	0.076
5/12/2009 10:35	Field Blank	Pesticides	Fonofos	0.096	U	ug/L	0.096	0.38
5/12/2009 10:35	Field Blank	Pesticides	Hexazinone	0.096	U	ug/L	0.096	0.38
5/12/2009 10:35	Field Blank	Pesticides	Metribuzin	0.096	U	ug/L	0.096	0.38
5/12/2009 10:35	Field Blank	Pesticides	Alpha-BHC	0.0096	U	ug/L	0.0096	0.038
5/12/2009 10:35	Field Blank	Pesticides	Chlordane	0.19	U	ug/L	0.19	0.76
5/12/2009 10:35	Field Blank	Pesticides	Azinphos Methyl	0.19	UJ	ug/L	0.19	0.76
5/12/2009 10:35	Field Blank	Pesticides	Metolachlor	0.48	U	ug/L	0.48	1.9

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/12/2009 10:35	Field Blank	Pesticides	Gamma-BHC	0.0096	U	ug/L	0.0096	0.038
5/12/2009 10:35	Field Blank	Pesticides	Prometryn	0.14	U	ug/L	0.14	0.56
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Benzidine	97	U	ug/L	97	390
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	58
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Hexachlorobenzene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Nitrobenzene	1.9	U	ug/L	1.9	7.7
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Phenanthrene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Phenol	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	U	ug/L	1.9	7.7
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Butyl benzyl phthalate	4.8	U	ug/L	4.8	19
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Chrysene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Pentachlorophenol	2.9	UJ	ug/L	2.9	12
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2-Nitrophenol	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Di-n-butyl phthalate	4.8	U	ug/L	4.8	19
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Isophorone	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.9	U	ug/L	2.9	12
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Acenaphthene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.9	UJ	ug/L	2.9	12
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Anthracene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Pyrene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.97	U	ug/L	0.97	3.9

Appendix E. (continued)

Date Sampled	Field ID	Analysis	Component	Results	Remark	Units	MDL	PQL
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.9	U	ug/L	2.9	12
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Hexachloroethane	2.9	U	ug/L	2.9	12
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	U	ug/L	1.9	7.7
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.9	U	ug/L	2.9	12
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.7	U	ug/L	9.7	39
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2,4-Dinitrophenol	15	U	ug/L	15	58
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	39	UJ	ug/L	39	150
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	58
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Dimethyl phthalate	9.7	U	ug/L	9.7	39
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Fluoranthene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Fluorene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	U	ug/L	1.9	7.7
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	2-Chlorophenol	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Acenaphthylene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Diethyl phthalate	0.97	U	ug/L	0.97	3.9
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.9	U	ug/L	2.9	12
5/12/2009 10:35	Field Blank	Priority Organic Pollutants	Naphthalene	0.97	U	ug/L	0.97	3.9

Appendix F. Facility Summary with Limits for Outfall D-004

State of Florida
Department of Environmental Protection
Facility Introduction & Summary

PART I: Information gathered prior to sampling event	
Prepared By: Jason Cohen Jason.Cohen@dep.state.fl.us	**Contact Number:** 813-632-7600 x429
Facility Name (as it appears on permit): Anclote Power Plant	**Former Names:**
NPDES Permit Number: FL0002992	**Permit Expiration Date:** February 3, 2010
Physical Address: 1729 Baileys Bluff Road, Holiday, Fl 34691	
District: Southwest	**County:** Pasco
Function of Facility: 2 oil fired steam electric units	
Facility Type: Major	**Permitted Capacity (MGD):** N/A
Mean Flow for previous 12 months for all EXTERNAL outfalls listed in permit (list date range including months):	
If applicable, Mean Flow for previous 12 months for REUSE outfall(s) (list date range including months):	
Description of type of Discharge: **Continuous** ☒ **Intermittent** ☐ **Seasonal** ☐ **Rainfall Dependent** ☐ **Other, please specify**	

Appendix F. (continued)

Description of Sampling Location(s) - actual permit designation of permitted sampling point(s):

Sample Point	Description of Monitoring Location
INT-1	Condenser intake waterboxes for Units 1 & 2.
EFF-1	At the combined plant Point of Discharge (POD) at the end of the discharge canal.

Sample Point	Description of Monitoring Location
FLW-1	Units 1 and 2 OTCW flow measurement location.

Sample Point	Description of Monitoring Location
FLW-2	Dilution pump flow measurement location.

Sample Point	Description of Monitoring Location
EFF-1	At the combined plant Point of Discharge (POD) at the end of the discharge canal.
EFF-2	At the point where the cooling tower discharge enters the discharge canal and prior to mixing with the receiving water.
INT-2	At the point of addition.

Appendix F. (continued)

Description of Permitted Outfall(s):

Surface Water Discharge:

An existing discharge to Anclote Sound (Gulf of Mexico) (Class III Marine waters), D-004. The Combined Plant Discharge outfall is located approximately at latitude 28° 11' 21.8" N, longitude 82° 47' 13.3" W.

Internal Outfalls:

An existing internal discharge of non-contact once-through condenser cooling water via Outfalls I-001 and I-002 from Units 1 and 2, respectively, to the discharge canal.

An existing internal discharge of non-contact once through dilution pump flow via Outfall I-003 to the discharge canal.

An existing internal discharge of cooling tower discharge via Outfall I-005 to the discharge canal.

Stormwater Outfalls:

An existing internal discharge of stormwater via Outfall I-006 to the intake canal.

Description of Treatment Process (if multiple discharge points, include a detailed map or diagram of facility):

The plant consists of two oil-fired steam electric units with a total nameplate rating of 1,112 MW.

Once-through condenser cooling water from Units 1 and 2 is passed through bar racks and intake screens, pumped through the condensers to remove excessive heat, and discharged to the plant's discharge canal. Normal debris, such as seagrass, is collected by the rotating grass racks and by the travelling screens and sluiced to the discharge canal. Larger debris collected from the intake, such as logs and limbs, is disposed of by landfill and wash water is returned to the plant discharge canal. During certain times of the year, two non-recirculating cooling towers are operated to reduce the plant discharge temperature. The cooling towers receive a portion of the heated water from the condensers where water is cooled and then discharged to the discharge canal. A biocide is added to the cooling tower intake water for biofouling control and then dehalogenated, if necessary, prior to discharge. In addition, there are four dilution pumps which help provide temperature control by pumping additional water from the intake canal to the discharge canal.

All other wastewater generated at this plant is discharged into two on-site percolation/evaporation ponds, without surface water discharge. The discharge to the percolation/evaporation ponds is authorized by separate permit issued by the Department's Southwest District.

Appendix F. (continued)

PART I: Continued

List current Effluent Limits of Outfall(s) to be Sampled: This should include any AO or CO limits the facility may be under

A. Surface Water Discharges

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge combined plant discharge from Outfall D-004. Such discharge shall be limited and monitored by the permittee as specified below:

	Discharge Limitations				Monitoring Requirements		
Parameters (units)	Maximum 24-hr Average	Maximum 3-hr Average	Maximum 1-hr Average	Maximum Instantaneous	Monitoring Frequency	Sample Type	Sample Point
Intake Temperature (°F)	Report	Report	Report	--	Continuous	Recorder	INT-1
MODE I:							
Discharge Temperature (°F), (Primary)	Report	--	90.0	92.0	Continuous	Recorder	EFF-1
Temperature Rise (°F), (Primary)	Report	--	Report	--	Continuous	Recorder	EFF-1
Discharge Temperature (°F), (Alternate)[2]	92.0	Report	95.0	95.5	Continuous	Recorder	EFF-1
Temperature Rise (°F), (Alternate)[2]	Report	5.0	Report	--	Continuous	Recorder	EFF-1
MODE II:							
Discharge Temperature (°F), (Primary)	Report	--	92.0	95.0	Continuous	Recorder	EFF-1
Temperature Rise (°F), (Primary)	Report	--	Report	--	Continuous	Recorder	EFF-1
Discharge Temperature (°F), (Alternate)[2]	92.0	Report	95.0	95.5	Continuous	Recorder	EFF-1
Temperature Rise (°F), (Alternate)[2]	Report	5.0	Report	--	Continuous	Recorder	EFF-1

Appendix F. (continued)

[1] Mode I is applicable each year beginning on January 1 and lasting until the daily average intake temperature first exceeds 82.0 °F in the spring. Additionally, Mode I is applicable beginning the day after the daily average intake temperature falls below 82.0 °F in the fall and lasting through December 31.

[2] Alternate monitoring and limitations are applicable only when the facility is unable to meet primary limitations with three cooling tower pumps and 22 cooling tower fans in operation. If alternate mode thresholds are met and there occurs a non-availability of the minimum number of cooling tower fans and pumps due to equipment malfunction, the permittee may remain in alternate mode. In such case, the permittee shall endeavor to repair or take others necessary measures to return the inoperable fan(s) or pump(s) back into service as soon as possible.

[3] Mode II is applicable each year beginning the day after the daily average intake temperature first equals or exceeds 82.0 °F and lasting through the day on which the daily average intake temperature first falls below 82.0 °F in the fall.

Appendix F. (continued)

PART I: Continued			
Receiving Waters: Anclote Sound (Gulf of Mexico)		**Classification (indicate whether fresh or marine):** Class III Marine	
Toxicity Test Requirements (routine and/or additional test language, test species, salinity adjustment, etc.):			
Administrative or Consent Orders (date executed, specific requirements, interim limit dates-if applicable, etc.):			
Facility Mixing Zone Details (if applicable):			
List Permit Violations (DMR data) and plant upsets that occurred at the plant within the last year:			
Date	Parameter and Units	Limit	Result
Describe previous FYI and WQBEL study:			
Describe previous or current Enforcement Actions (including WLs):			
Describe any violations or problems noted in previous inspection:			
Discuss whether DMR trends within previous five years are improving or declining:			
Additional Comments (this should include a trend of the Effluent, i.e. if the facility is now Reuse): A minor permit revision on February 21, 2008 which allows an increase in biocide from 330lb/tower/day to 500 lb/tower/day.			

Appendix G. EPA End Sheet

The Bioassay of the Anclote Power Plant effluent sampled on May 12, 2009. NPDES #FL0002992.

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 0 2 9 9 2 11	12 0 9 0 5 1 2	18 B	19 S	20 2

Remarks

66

The Priority Pollutants Analysis of the Anclote Power Plant effluent sampled on May 4 and 12, 2009. NPDES #FL0002992.

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 0 2 9 9 2 11	12 0 9 0 5 1 2	18 X	19 S	20 2

Remarks

66

Biological Analyses of the Anclote Power Plant effluent sampled on May 4, 2009. NPDES #FL0002992.

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 0 2 9 9 2 11	12 0 9 0 5 1 2	18 S	19 S	20 2

Remarks

66