

Effluent Quality Assessment of

AOC, L.L.C

Polk County

NPDES #FL0029653

Sampled April 30, 2007

August 2007

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

AOC, L.L.C., 4620 North Galloway Road, Lakeland, Polk County, Florida, 33810, NPDES #FL0029653. Effluent samples for this facility were collected on April 30, 2007.

Introduction

AOC, L.L.C. is a polyester resin manufacturing company. The facility has a design flow of 0.8 million gallons per day (MGD) average monthly flow (AMF). The AMF from May 1, 2006, through April 30, 2007, was 0.304 MGD. Wastewater from the facility consists of once-through non-contact cooling water, cooling tower blow-down, and contact-stormwater runoff generated from the parking lot and the shipping/receiving areas. Once-through non-contact cooling water is treated by flowing through a separator for removal of light or heavy suspended materials, then passing through a mixing basin and subsequently discharging into a holding pond where it is combined with cooling tower blow-down. Effluent from the holding pond is discharged continuously through Outfall D-001 into an unnamed ditch which flows under Galloway Road via a wetland and then to the Class III freshwaters of Hidden Lake. Outfall D-001 is located approximately at latitude 28º 06' 4.04" N, longitude 82º 00' 24.29" W.

Additional waste-streams include boiler blowdown, storm-water runoff from the tank farm, waste-water generated as a result of activation of the fire protection system, and wastewaters generated from the truck wash area, water softening unit, inert gas compressor, laboratory, maintenance building sinks, railroad car unloading/loading area, diesel storage and process areas. All of these waste-streams are collected in a 1.2 million gallon holding/evaporation tank. Wastewater from this tank is eventually pumped and circulated through an evaporation/heating system with no discharge to either ground or surface waters of the State.

There are no Administrative Orders (AO) or Consent Orders (CO) for this facility. The facility has no mixing zones. A review of Discharge Monitoring Report (DMR) data for the past year did not reveal any violations. (Facility information provided by Lori Pillsbury and Cari Butler of FDEP Southwest District.)

Methods

Samples were collected from the EFF-1 NPDES sampling point (point nearest the discharge prior to mixing with the receiving body of water) for Outfall D-001 by Chris Anastasiou and Peter Wenner (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_01, TA07_02, 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. While the 48-hour acute screening toxicity test does not reflect the permit required conditions, the Department uses it to provide reasonable assurance that the facility does not adversely affect waters of the state.

Prior to test initiation, bioassay samples were aerated for 15 minutes at approximately 100 bubbles per minute, to decrease the dissolved oxygen concentration from 10.1 mg/L to 8.8 mg/L.

Toxicity Test Results

Tests were performed May 1 - 3, 2007.

Ceriodaphnia dubia 48-hour acute screening bioassay – LC_{50} > 100%, 5% mortality* in 100% sample at 48 hours

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

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.

*NOTE: In a 48-hour acute screening test of 100% effluent, mortality of <20% provides reasonable assurance that the effluent meets the acute toxicity criterion of Florida's Surface Water Quality Standards (Rule 62-302.500 (1)(a)4, F.A.C.). Mortality between 20-50% indicates low to moderate levels of toxicity, and further action may be required. Mortality of >50% provides reasonable assurance that the effluent fails to meet the minimum requirement to discharge to waters of the state (Rule 62-4.244(3)(a), F.A.C.).

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 17.0 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The analytical chemistry suggests that the effluent is phosphorus-limited. The predicted AGP based on inorganic phosphorus concentrations was 4.7 (±20%) mg dry wt/L (Table 1; Miller et al. 1978).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory. Total ammonia was not detected in the sample collected and preserved for chemical analysis.

Iron was detected in the effluent at levels that comply with Class III fresh water quality criteria (62-302.530, F.A.C.). Arsenic, copper, and selenium were detected between the laboratory method detection limits (MDL) and practical quantitation limits (PQL).

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 sampling point for Outfall D-001 for this facility on April 30, 2007, was not acutely toxic to either test species during the 48-hour acute screening bioassays. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters. Effluent water quality samples did not exceed any applicable water quality standards or violate any permit conditions.

Literature Cited

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

Raschke, R. L. and D. A. Schultz. 1987. The use of the algal growth potential test for data assessment. J. Wat. Poll. Cont. Fed. 59(4): 222-227.

Table 1. Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble phosphorus (OP) and total phosphorus (TP) limitation of the freshwater species *Pseudokirchneriella subcapitata* and ratios of the nitrogen to phosphorus for samples collected from AOC, L.L.C. on April 30, 2007.

Location	AGP (measured)	Predicted AGP (OP) ± 20%	Predicted AGP (TP) ± 20%	Inorganic N:P ratio	Total N:P ratio
D-001	17.0	4.7 ± 0.9	8.6 ± 1.7	21.8	15.5

Table 2. Effluent limits, Class III fresh water Criteria, and chemical data for samples collected from AOC, L.L.C. on April 30, 2007.

AOC, L.L.C NPDES #FL0029653	Class III Fresh Stds	Effluent Limits	Effluent	
Organic Constituents (µg/L)				
None Detected	-	-	-	
Metals (µg/L unless otherwise noted)				
Aluminum	-	-	20	U
Arsenic	≤ 50	-	1.7	I
Cadmium	≤ 0.29 b	-	0.05	U
Calcium (mg/L)	-	-	34.2	
Chromium-III	≤ 93.5 b	-	1	U
Copper	≤ 10.2 b	-	0.47	I
Iron	≤ 1,000	-	23	
Lead	≤ 3.6 b	-	0.2	U
Magnesium (mg/L)	-	-	6.1	
Nickel	≤ 56.8 b	-	0.25	U
Selenium	≤ 5.0	-	1.8	I
Silver	≤ 0.07	-	0.025	U
Zinc	≤ 130.4 b	-	5	U
Nutrients (mg/L)				
Ortho-phosphate	-	-	0.011	
Total Phosphorus	-	-	0.02	U
Total Ammonia	-	Report	0.01	U
Un-ionized Ammonia	≤ 0.02	≤ 0.02	< 0.02	c
Nitrate and Nitrite	-	-	0.23	
Total Kjeldahl Nitrogen	-	-	0.08	U
Organic Nitrogen	-	-	0.08	Uc
Total Nitrogen	-	-	0.23	c
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 5.0	≥ 5.0 s	6.5	
pH (SU)	6.0 - 8.5	6.0 - 8.5 s	8.0	
Conductivity (µmhos/cm)	≤ 1,275	-	251	
Temperature °C	-	Report	24.6	
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01	0.03	U£
Total Suspended Solids (mg/L)	-	≤ 10.0	4	U
Turbidity (NTU)	≤ 29 t	-	0.25	
CBOD, 5 day (mg/L), N - inhibited	-	≤ 10	1	I
Sulfate (mg/L)	-	Report	8.1	
Hydrogen Sulfide (mg/L)	-	≤ 0.04	-	
Flow (MGD)	-	Report	0.304	a
Hardness (mg $CaCO_3$)	-	-	110.52	c

Value exceeds the Class III Water Quality Criteria or permit limits

a - Annual average

b - Value is calculated based on hardness

c - Value is calculated

t - Shall not exceed 29 NTUs above background

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 method detection limit

£ - Measured in FDEP bioassay laboratory

Florida Department of Environmental Protection

Central Laboratory Sample Submittal Form

Event ID *

Request Number: RQ-2007-04-30-24
AOC, LLC

Requester: Shannan Bogdanov
Field Report Prepared By: C. ANASTASIOU
Collected By: C. ANASTASIOU P. Wenner
Send Final Report To Ilia Balcom
Sampling Agency: FDEP SW DIST

Customer: SW-DIST
Project ID: FYI3
PMAS: 1163

Lab ID *	Location: OUTFALL D001			☐ Comp ☒ Grab	Collection (begin) Date 4/30/07 Time 1015 Eastern Central		Collection (end) Date Time Eastern Central		Bottle Group(s)**
	Field ID: 35058			Tot Res Chlorine (mg/L): N/A		Diss Oxygen (mg/L): 6.50	Storet Station Number		A, B
	Matrix (Include type e.g. Salt, Fresh, etc): FRESH	Temp (C): 24.63	pH: 7.95	Sample Depth ☐ m ☐ ft: N/A	0.12/251	☒ Salinity (PPTh) ☒ Sp Conductance (umho/cm)	NPDES Number: FL0029653		
	Latitude: 28° 6' 5.36"	Longitude: 82° 00' 24.68"		Comments:					
Lab ID *,	Location: BLANK			☐ Comp ☒ Grab	Collection (begin) Date 4/30/07 Time 1030 Eastern Central		Collection (end) Date Time Eastern Central		Bottle Group(s)**
	Field ID: 35059			Tot Res Chlorine (mg/L): N/A		Diss Oxygen (mg/L): N/A	Storet Station Number: N/A		A, B
	Matrix (Include type e.g. Salt, Fresh, etc): FRESH	Temp (C): N/A	pH: N/A	Sample Depth ☐ m ☐ ft: N/A	.N/A	☐ Salinity (PPTh) ☐ Sp Conductance (umho/cm)	NPDES Number: N/A		
	Latitude: N/A	Longitude: N/A		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	Longitude		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	Longitude		Comments: 2 bloss 9:31 5.1.07 Jana Daniel					

Relinquished By:	Date/Time	Shipping Method:	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	4/30/07 1250	DHL	NBJ	5-1-07 0855				

* 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: AOC, L.L.C.

Address: 4620 NORTH GALLOWAY ROAD

City: LAKELAND County: POLK

Contact/District: Peter Wimmer / SOUTHWEST

NPDES Permit #: FL 0029653

LIMS Job #: TLH-2007-05-01-07-01 LIMS Sample #: 100545

Lims Data Entry: 5-8-07 MC Data Entry Verification: 5.8.07 JD

Sample Collection: Date: 4/30/07 Time: 1015

Hold Time Start: Date: 4/30/07 Time: 1015

Comments:

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

Test Type: Screen

(Static) / Static Renewal / Flow-through

Test Duration: (48) 96 Hours.

Test 1 validation: **Test 1:** SOP TA 07_01

Control survival ≥90% (Yes) No

Temperature Range ≤3°C: (Yes) No

Test 2 validation: **Test 2:** SOP TA 07_02

Control survival ≥90% (Yes) No

Temperature Range ≤3°C: (Yes) No

Initial sample handling:

PH adjustment : yes (no) Initial pH: ____ NaOH N HCl N ____ Drops mL Final pH: ____

Aeration : (yes) no Initial DO: 10.1 mg/L Final DO: 8.8 mg/L Duration: 15 minutes Rate: ~ 100 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:

Incubator # 3 min 26.0 max 26.4 mean 26.2

Incubator # ____ min ____ max ____ mean ____

Room B246 min 25.1 max 26.7 mean 25.6

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

James Daniels

Peter P. Vichaikul

Brian Affeldt

Marbell Faircloth

Nicki Wellendorf

REVIEWER

Water Quality Parameters	20% DMW	Moderately Hard Water/ (Well Water)	Salt Water ASW NSW Test 1	Salt Water ASW NSW Test 2	Other:	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl_2 (mg/L):	N/A	N/A	N/A	N/A		Not Measured		C. Andreasen P. Vichaikul	BA
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03				<0.03	HACH	BA	PPV
Alkalinity (mg/L as $CaCO_3$):	89	145				~~<0.03~~	HACH	PPV	BA
Hardness (mg/L as $CaCO_3$):	95	169			BA 5/15 120	~~<0.03~~	HACH	PPV	BA
Total Ammonia (mg/L as N):	<0.017	<0.017				<0.017	DENVER	PPV	BA
Salinity (ppth):	<1	<1				<1	YSI / Mettler	JD	BA

V 1.4 9/12/05

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1005545 Test #: 1/2 SOP#:TA 07 01 Test Started: Date 5/1/07 Time: 13:00
Organism/Batch/Age: Cdubia/1-7-07/<24 HR. Test Ended: Date 5-3-07 Time: 11:00
Chamber/Test Volume: 30 / 20 ml Diluent/ Batch: DMW / 4-30-07
Food/Batch: YCT 1-7-07 P.sub 2-7-07 Artemia 0hr — 24hr — 48hr — 72hr — Artemia Lot# —
Feeding: (Prior to Test) Prior to Renewal Daily

Concentration	Replicate	Chamber #	Test Hour: 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
Ctrl	A	A	5	5	5			
	B	B	5	5	4 1D			
	C	C	5	5	5			
	D	D	5	5	5			
100%	A	A	5	5	5			
	B	B	5	5	5			
	C	C	5	5	5			
	D	D	5	5	4 1D			
Loaded/Verified by: BA / DD		Checked by:	BA	DD	BA			

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: 5% LC50: >100%
If Calculated: 95% CI_________ Method__________

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 #: 1005545 **Test #:** 2/2 **SOP#:TA 07** 02 **Test Started:** Date 5/1/07 Time: 12:10

Organism/Batch/Age: C.leedsi / 5-1-07 / 13 DAYS **Test Ended:** Date 5.3.07 Time: 10:45

Chamber/Test Volume: 1000 / 500 ml **Diluent/ Batch:** WELL / 5-1-07

Food/Batch: YCT — **P.sub** — **Artemia 0hr** 5-1-07 **24hr** — **48hr** — **72hr** — **Artemia Lot#** GSL-S36-90

Feeding: Prior to Test (circled) Prior to Renewal Daily

Concentration	Replicate	Chamber #	Test Hour: 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
Ctrl	A	A1	5	5	5			
	B	A2	5	5	5			
	C	A3	5	5	5			
	D	A4	5	5	5			
100%	A	A5	5	5	5			
	B	A6	5	5	5			
	C	A7	5	5	5			
	D	A8	5	5	5			
Loaded/Verified by: JD / PRV		Checked by:	JD	JD	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: Ø LC50: >100%

If Calculated: 95% CI_________ Method__________

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

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FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 1005545 Test #: 1 of 2

TEST SOP #: TA07_01 Test Species: (Ceriodaphnia dubia) Cyprinella leedsi Pimephales promelas 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		M			
pH (S.U.)	8.1		8.2			
Temperature °C	24.2		24.0			
Dissolved Oxygen mg/L	7.9		7.0			
Conductivity (µmhos) mmhos	175		232			
(initials) Measured by:	BA		BA			
(initials) Recorded by:	BA		BA			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		M			
pH (S.U.)	8.2		8.4			
Temperature °C	24.9		24.0			
Dissolved Oxygen mg/L	7.9		7.0			
Conductivity (µmhos) mmhos	246		308			
(initials) Measured by:	BA		BA			
(initials) Recorded by:	BA		BA			

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:

V 2.0 2/24/04

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 1005545 **Test #:** 2 of 2

TEST SOP #: TA07_ 02 **Test Species:** *Ceriodaphnia dubia* (*Cyprinella leedsi*) *Pimephales promelas* *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.)	7.8	8.2	8.3			
Temperature °C	24.0	24.4	24.8			
Dissolved Oxygen mg/L	8.5	7.2	6.7			
Conductivity (µmhos) mmhos	280	273	272			
(initials) Measured by:	JD	~~PP~~	JD			
(initials) Recorded by:	JD	~~PP~~	JD			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.2	8.2	8.2			
Temperature °C	25.2	24.3	24.8			
Dissolved Oxygen mg/L	8.6	7.2	7.0			
Conductivity (µmhos) mmhos	256	251	253			
(initials) Measured by:	JD	~~PP~~	JD			
(initials) Recorded by:	JD	~~PP~~	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 C. SRT Bench Sheets and Statistical Analysis

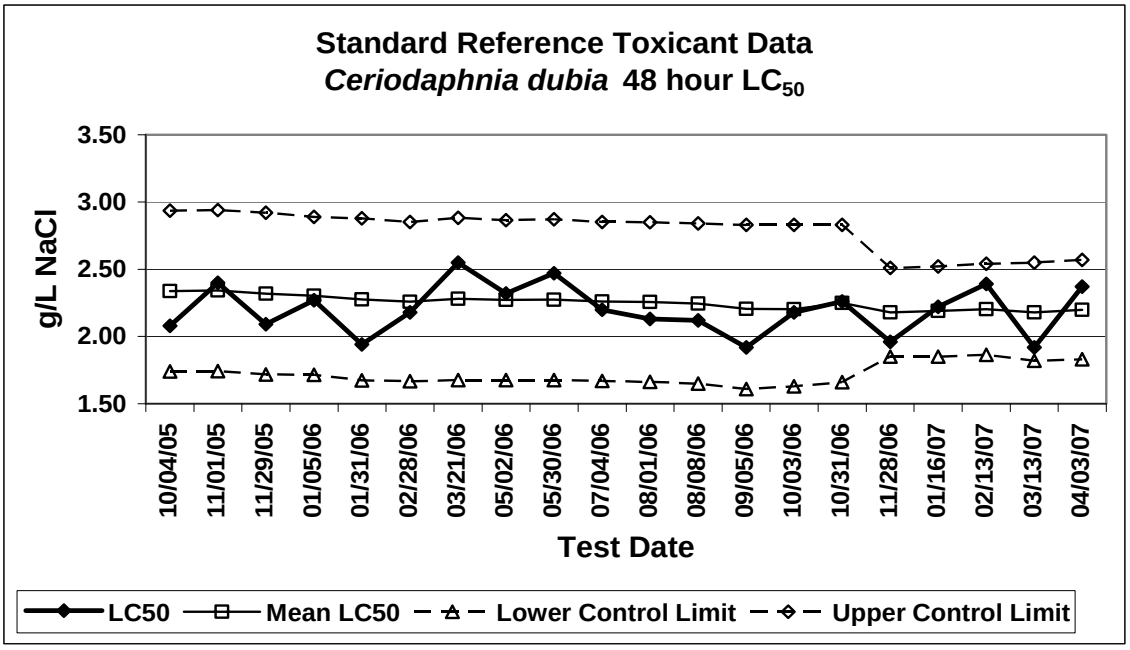
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - 48-hour Acute Toxicity
Ceriodaphnia dubia (water flea) - Sodium Chloride (NaCl)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
10/04/05	2.08	2.34	0.30	1.74	2.94
11/01/05	2.40	2.34	0.30	1.74	2.94
11/29/05	2.09	2.32	0.30	1.72	2.92
01/05/06	2.27	2.30	0.29	1.72	2.89
01/31/06	1.94	2.28	0.30	1.67	2.88
02/28/06	2.18	2.26	0.30	1.67	2.85
03/21/06	2.55	2.28	0.30	1.68	2.88
05/02/06	2.32	2.27	0.30	1.68	2.87
05/30/06	2.47	2.27	0.30	1.68	2.87
07/04/06	2.20	2.26	0.30	1.67	2.85
08/01/06	2.13	2.26	0.30	1.66	2.85
08/08/06	2.12	2.24	0.30	1.65	2.84
09/05/06	1.92	2.21	0.30	1.61	2.83
10/03/06	2.18	2.20	0.30	1.63	2.83
10/31/06	2.26	2.25	0.29	1.66	2.83
11/28/06	1.96	2.18	0.17	1.85	2.51
01/16/07	2.22	2.19	0.17	1.85	2.52
02/13/07	2.39	2.20	0.17	1.86	2.54
03/13/07	1.92	2.18	0.18	1.82	2.55
04/03/07	2.37	2.20	0.18	1.83	2.57

Means are of the last 20 SRT tests.
Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev

CV = 8.18
EPA reference 75th quartile CV = 29%



Appendix C. (continued)

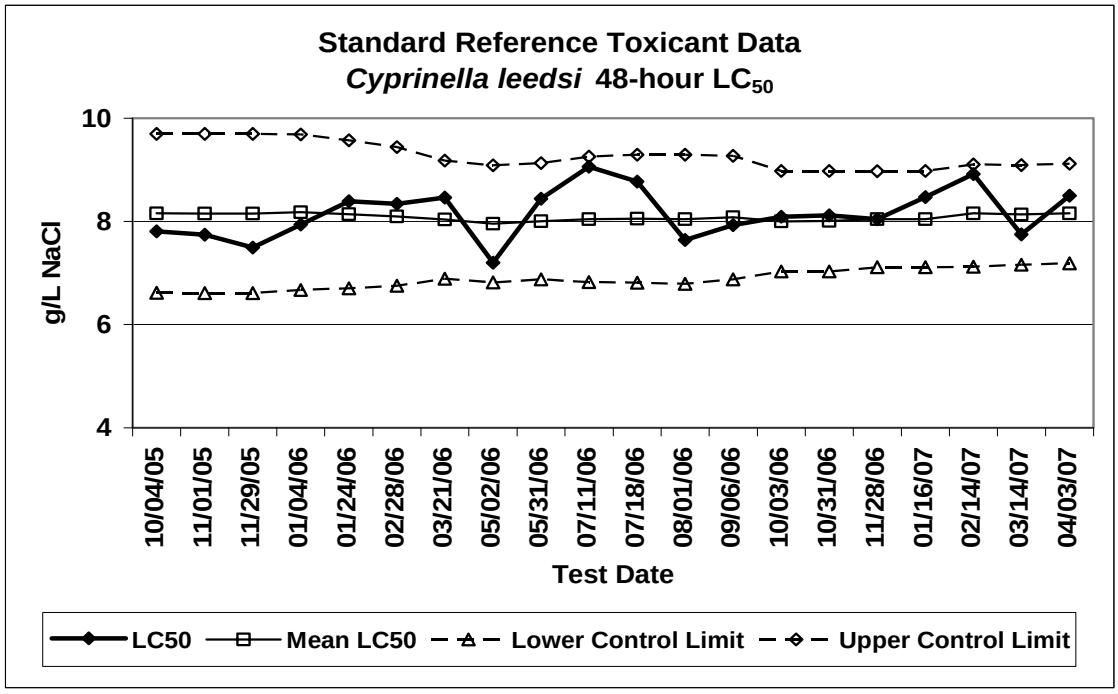
Florida Department of Environmental Protection
Bureau of Laboratories

Standard Reference Toxicant (SRT) Test Data - 48-hour Acute Toxicity
Cyprinella leedsi (bannerfin shiner) - Sodium Chloride (NaCl)

Date	LC50	Mean LC50	Std Dev	Lower Control Limit	Upper Control Limit
10/04/05	7.81	8.16	0.77	6.62	9.69
11/01/05	7.74	8.15	0.77	6.61	9.69
11/29/05	7.49	8.15	0.77	6.61	9.69
01/04/06	7.94	8.18	0.75	6.67	9.68
01/24/06	8.39	8.14	0.72	6.71	9.57
02/28/06	8.34	8.09	0.67	6.75	9.44
03/21/06	8.46	8.04	0.57	6.89	9.18
05/02/06	7.2	7.95	0.57	6.82	9.09
05/31/06	8.44	8.00	0.56	6.88	9.13
07/11/06	9.06	8.04	0.61	6.82	9.26
07/18/06	8.77	8.05	0.62	6.81	9.29
08/01/06	7.64	8.04	0.63	6.79	9.29
09/06/06	7.93	8.08	0.60	6.88	9.27
10/03/06	8.09	8.00	0.49	7.03	8.98
10/31/06	8.12	8.01	0.49	7.03	8.98
11/28/06	8.04	8.04	0.46	7.11	8.97
01/16/07	8.47	8.04	0.47	7.11	8.98
02/14/07	8.92	8.16	0.50	7.12	9.10
03/14/07	7.75	8.14	0.49	7.16	9.09
04/03/07	8.50	8.16	0.48	7.19	9.12

Means are of the last 20 SRT tests.
Lower Confidence Limit = mean - 2 * Std Dev
Upper Confidence Limit = mean + 2 * Std Dev

CV = 5.88
EPA reference 75th quartile CV = 19%



Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0 — *Menidia beryllina* Method 2006.0 — *Hyalella azteca* Method 100.1 EPA-600-R-99-064
Ceriodaphnia dubia Method 2002.0 — *Cyprinella leedsi* Method 2000.0 — *Pimephales promelas* Other: _____

Method from EPA-821-R-02-012
Test Type: 48 hour non-renewal / 96 hour renewal
Test Page 1 of 2

Diluent/ Batch #: DMW / 4-2-07
Toxicant/ Batch#: NaCl 4-3-07

Test Beginning: Date: 4-3-07 Time: 11:00
Test Ending: Date: 4-7-07 Time: 9:00

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	BA
Alkalinity (mg/L as $CaCO_3$):	78	Hach	PW
Hardness (mg.L as $CaCO_3$):	88	Hach	PW
Total Ammonia (mg/L as N):	<0.017	Denver	MF
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 13-07 / <24hrs
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT *P.subcapitata* Artemia: Lot #_____
Food Batch: 1-1-07 02-07-07 0hr — 24hr — 48hr — 72hr —
Chamber size: 30 mL
Test volume: 20 mL per replicate

Conc. g/L µg/L mg/L	Rep.	Chamber #	Number Live 0 hr	24 hr	48 hr	pH (SU) 0 hr	24 hr	48 hr	Temperature (°C) 0 hr	24 hr	48 hr	D.O. (mg/L) 0 hr	24 hr	48 hr	Uncorrected Conductivity µmhom/cm mmhos/cm 0 hr	24 hr	48 hr
			~~48 hr~~	~~72 hr~~	~~96 hr~~	~~48 hr~~	~~72 hr~~	~~96 hr~~	~~48 hr~~	~~72 hr~~	~~96 hr~~	~~48 hr~~	~~72 hr~~	~~96 hr~~	~~48 hr~~	~~72 hr~~	~~96 hr~~
Control	A	A	5	5	5	7.9		7.8	25.2		24.0	7.9		7.6	174		0.210
	B	B	5	5	5										0.174 BA		
	C	C	5	5	5												
	D	D	5	5	5												
1.5	A	A	5	5	5	8.0		7.8	25.3		24.0	7.6		7.6	2.96		3.13
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
2.0	A	A	5	5	5	8.1		7.8	25.3		24.0	7.5		7.5	3.84		4.14
	B	B	5	5	5												
	C	C	5	5	4D												
	D	D	5	5	5												
2.5	A	A	5	5	1D	8.1		7.8	25.2		24.0	7.6		7.4	4.72		5.1
	B	B	5	5	3D												
	C	C	5	5	2D												
	D	D	5	5	1D												
3.0	A	A	5	4D	0D	8.1		7.8	25.1		24.0	7.6		7.4	5.61		6.08
	B	B	5	5	0SD												
	C	C	5	5	0SD												
	D	D	5	4D	0D												
4.0	A	A	5	0SD	-	8.1	7.9	-	25.0	24.5	-	7.7	6.4	-	7.3	7.9	-
	B	B	5	0SD	-												
	C	C	5	0SD	-												
	D	D	5	0SD	-												
	A																
	B																
	C																
	D																
Loaded / measured by:			BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA
Recorded by:			BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA	BA

Investigators' Signatures
Nigel Wellenkamp
REVIEWER

Concentrations prepared by: BA
Loading verified by: PW
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min. 25.7 max. 26.3 mean 26.0
Incubator # ___ min. ___ max. ___ mean ___
Room B246 min. 24.9 max. 26.3 mean 25.6

Comments:

Statistics: Method: Spearman-Karber
48y 96 hour LC_{50}: 2.37
95% Confidence Interval: lower 2.25 upper 2.49

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Appendix C. (continued)

FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0; *Menidia beryllina* Method 2006.0; *Hyalella azteca* Method 100.1 EPA-600-R-99-064; *Ceriodaphnia dubia* Method 2002.0; *Cyprinella leedsi* Method 2000.0; *Pimephales promelas* Method 2000.0; Other: _____

Method from EPA-821-R-[illegible]

Test Type: 48 hour non-renewal / 96 hour renewal

Test Page 1 of 2

Diluent/ Batch #: DMW / 4-2-07

Toxicant/ Batch#: NaCl / 4-3-07

Test Beginning: Date: 4-3-07 Time: 1400

Test Ending: Date: 4-7-07 Time: 09:00

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	BA
Alkalinity (mg/L as $CaCO_3$):	78	Hach	PPV
Hardness (mg.L as $CaCO_3$):	88	Hach	PPV
Total Ammonia (mg/L as N):	<0.017	Denver	MF
Salinity (ppth):	21	Mettler	BA

Organism Batch #/ Age: 13-07 / <24hrs

Feeding: (Prior to test) Prior to renewal / Daily

Food: YCT *P.subcapitata* Artemia: Lot #_____

Food Batch: 1-1-07 02-07-07 0hr 24hr 48hr 72hr

Chamber size: 30 mL

Test volume: 20 mL per replicate

Conc µg/L 0	Rep.	Chamber #	Number Live 0 hr / 48 hr	Number Live 24 hr / 72 hr	Number Live 48 hr / 96 hr	pH (SU) 0 hr / 48 hr	pH (SU) 24 hr / 72 hr	pH (SU) 48 hr / 96 hr	Temperature (°C) 0 hr / 48 hr	Temperature (°C) 24 hr / 72 hr	Temperature (°C) 48 hr / 96 hr	D.O. (mg/L) 0 hr / 48 hr	D.O. (mg/L) 24 hr / 72 hr	D.O. (mg/L) 48 hr / 96 hr	Uncorrected Conductivity µmhom/cm (mmhos/cm) 0 hr / 48 hr	Uncorrected Conductivity 24 hr / 72 hr	Uncorrected Conductivity 48 hr / 96 hr
Control	A	A	5	5	5	8.0		8.2	24.0		24.0	7.3		7.9	0.173		0.195
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
1.5	A	A	5	5	5	8.1		8.1	24.0		24.0	7.5		7.8	2.96		3.21
	B	B	5	5	5												
	C	C	5	5	5												
	D	D	5	5	5												
2.0	A	A	5	5	5	8.1		8.1	24.0		24.0	7.4		7.8	3.83		4.24
	B	B	5	4 1D	4												
	C	C	4	2 2D	2												
	D	D	5	5	4 1D												
2.5	A	A	1	0 1D	-	8.1		8.1	24.0		24.0	7.4		7.7	4.61		5.29
	B	B	3	1 2D	0 1D												
	C	C	2	1 1D	0 1D												
	D	D	1	1	0 1D												
3.0	A	A	-	-	-	-		-	-		-	-		-	-		-
	B	B	-	-	-												
	C	C	-	-	-												
	D	D	-	-	-												
4.0	A	A	-	-	-	-		-	-		-	-		-	-		-
	B	B	-	-	-												
	C	C	-	-	-												
	D	D	-	-	-												
	A																
	B																
	C																
	D																
Loaded / measured by:			BA	BA	BA	BA		BA	BA		BA	BA		BA	BA		BA
Recorded by:			BA	BA	BA	BA		BA	BA		BA	BA		BA	BA		BA

Investigators' Signatures

Concentrations prepared by: BA

Loading verified by: PPV

Light Intensity: 50-100 ft. candles

Photoperiod: 16 hours Light / 8 hours dark

Temperature Range °C:

Incubator # 2 min. 23.7 max. 26.3 mean 26.0

Incubator # ___ min. ___ max. ___ mean ___

Room B246 min. 24.9 max. 26.3 mean 25.6

REVIEWER

Comments:

Statistics: Method: Spearman-Karber

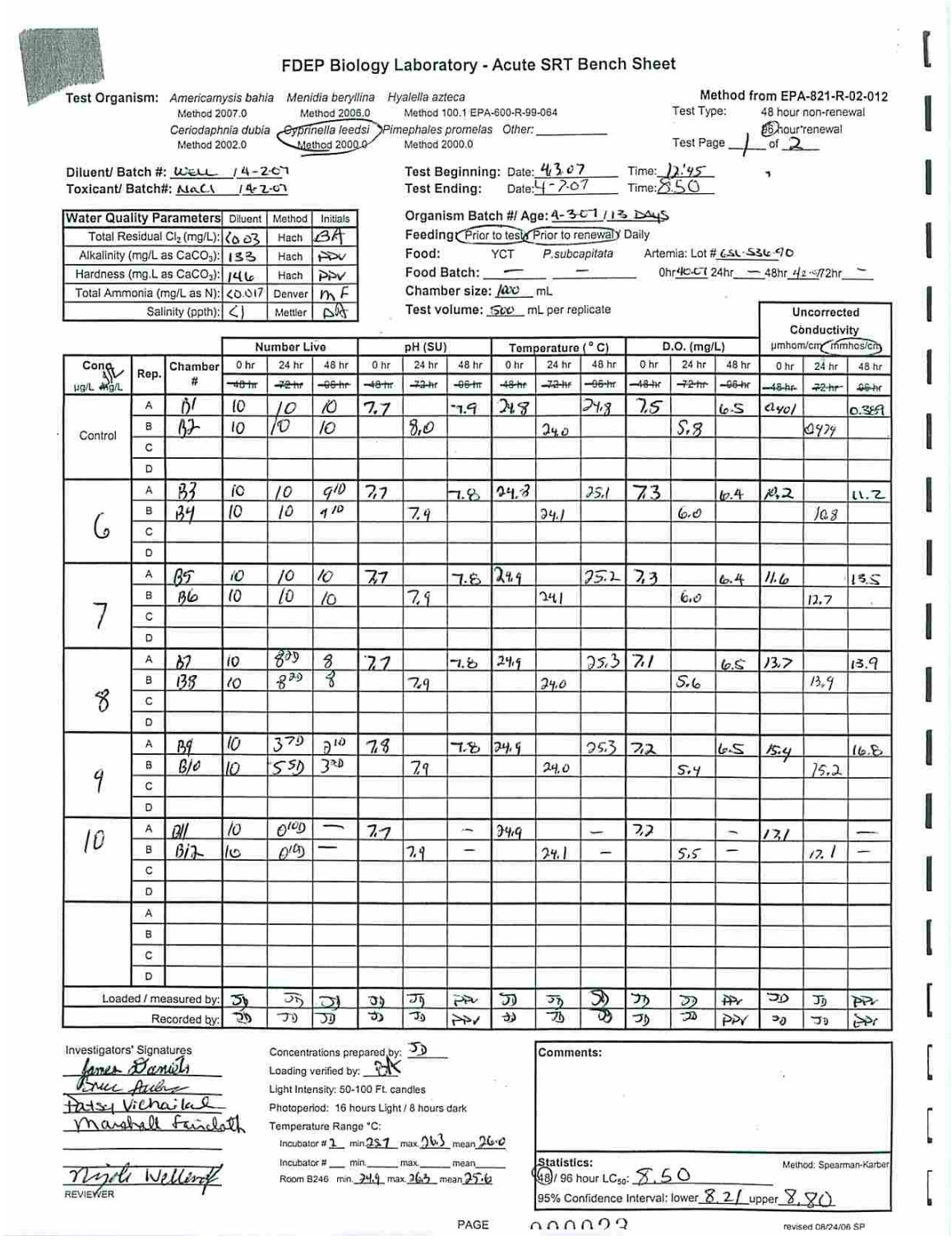
48 / (96) hour LC_{50}: 2.10

95% Confidence Interval: lower 2.00 upper 2.20

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Appendix C. (continued)



FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0; *Menidia beryllina* Method 2006.0; *Hyalella azteca* Method 100.1 EPA-600-R-99-064; *Ceriodaphnia dubia* Method 2002.0; *Cyprinella leedsi* Method 2000.0; *Pimephales promelas* Method 2000.0; Other: _____

Method from EPA-821-R-02-012

Test Type: 48 hour non-renewal; (96 hour renewal)

Test Page 1 of 2

Diluent/ Batch #: well / 4-2-07

Toxicant/ Batch#: NaCl / 4-2-07

Test Beginning: Date: 4.3.07 Time: 12:45

Test Ending: Date: 4-7-07 Time: 8:50

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.03	Hach	BA
Alkalinity (mg/L as $CaCO_3$):	133	Hach	PPV
Hardness (mg.L as $CaCO_3$):	146	Hach	PPV
Total Ammonia (mg/L as N):	<0.017	Denver	MF
Salinity (ppth):	<1	Mettler	DM

Organism Batch #/ Age: 4-3-07 / 13 DAYS

Feeding (Prior to test) (Prior to renewal) Daily

Food: YCT *P.subcapitata* Artemia: Lot # GSL-S36-90

Food Batch: — — 0hr 40-07 24hr — 48hr 4/2 - 4/2 72hr —

Chamber size: 100 mL

Test volume: 500 mL per replicate

Conc µg/L (mg/L)	Rep.	Chamber #	Number Live 0 hr (48 hr)	Number Live 24 hr (72 hr)	Number Live 48 hr (96 hr)	pH (SU) 0 hr (48 hr)	pH (SU) 24 hr (72 hr)	pH (SU) 48 hr (96 hr)	Temperature (°C) 0 hr (48 hr)	Temperature (°C) 24 hr (72 hr)	Temperature (°C) 48 hr (96 hr)	D.O. (mg/L) 0 hr (48 hr)	D.O. (mg/L) 24 hr (72 hr)	D.O. (mg/L) 48 hr (96 hr)	Uncorrected Conductivity µmhom/cm (mmhos/cm) 0 hr (48 hr)	Uncorrected Conductivity 24 hr (72 hr)	Uncorrected Conductivity 48 hr (96 hr)
Control	A	B1	10	10	10	7.7		7.9	24.8		24.8	7.5		6.5	0.401		0.389
	B	B7	10	10	10		8.0			24.0			5.8			0.474	
	C																
	D																
6	A	B3	10	10	9 10	7.7		7.8	24.8		25.1	7.3		6.4	11.2		11.2
	B	B4	10	10	9 10		7.9			24.1			6.0			10.8	
	C																
	D																
7	A	B5	10	10	10	7.7		7.8	24.9		25.2	7.3		6.4	11.6		13.5
	B	B6	10	10	10		7.9			24.1			6.0			12.7	
	C																
	D																
8	A	B7	10	8 3D	8	7.7		7.8	24.9		25.3	7.1		6.5	13.7		13.9
	B	B8	10	8 3D	8		7.9			24.0			5.6			13.9	
	C																
	D																
9	A	B9	10	3 7D	3 10	7.8		7.8	24.9		25.3	7.2		6.5	15.4		16.8
	B	B10	10	5 5D	3 2D		7.9			24.0			5.4			15.2	
	C																
	D																
10	A	B11	10	0 10D	—	7.7		—	24.9		—	7.2		—	13.1		—
	B	B12	10	0 10D	—		7.9	—		24.1	—		5.5	—		12.1	—
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			JD	JD	JD	JD	JD	PPV	JD	JD	JD	JD	JD	PPV	JD	JD	PPV
Recorded by:			JD	JD	JD	JD	JD	PPV	JD	JD	JD	JD	JD	PPV	JD	JD	PPV

Investigators' Signatures

James Daniels

Eric Ahlers

Patsy Vichaikul

Marshall Faircloth

Nicole Wellendorf

REVIEWER

Concentrations prepared by: JD

Loading verified by: PK

Light Intensity: 50-100 Ft. candles

Photoperiod: 16 hours Light / 8 hours dark

Temperature Range °C:

Incubator # 1 min. 25.1 max. 26.3 mean 26.0

Incubator # ___ min. ___ max. ___ mean ___

Room B246 min. 24.9 max. 26.3 mean 25.6

Comments:

Statistics: Method: Spearman-Karber

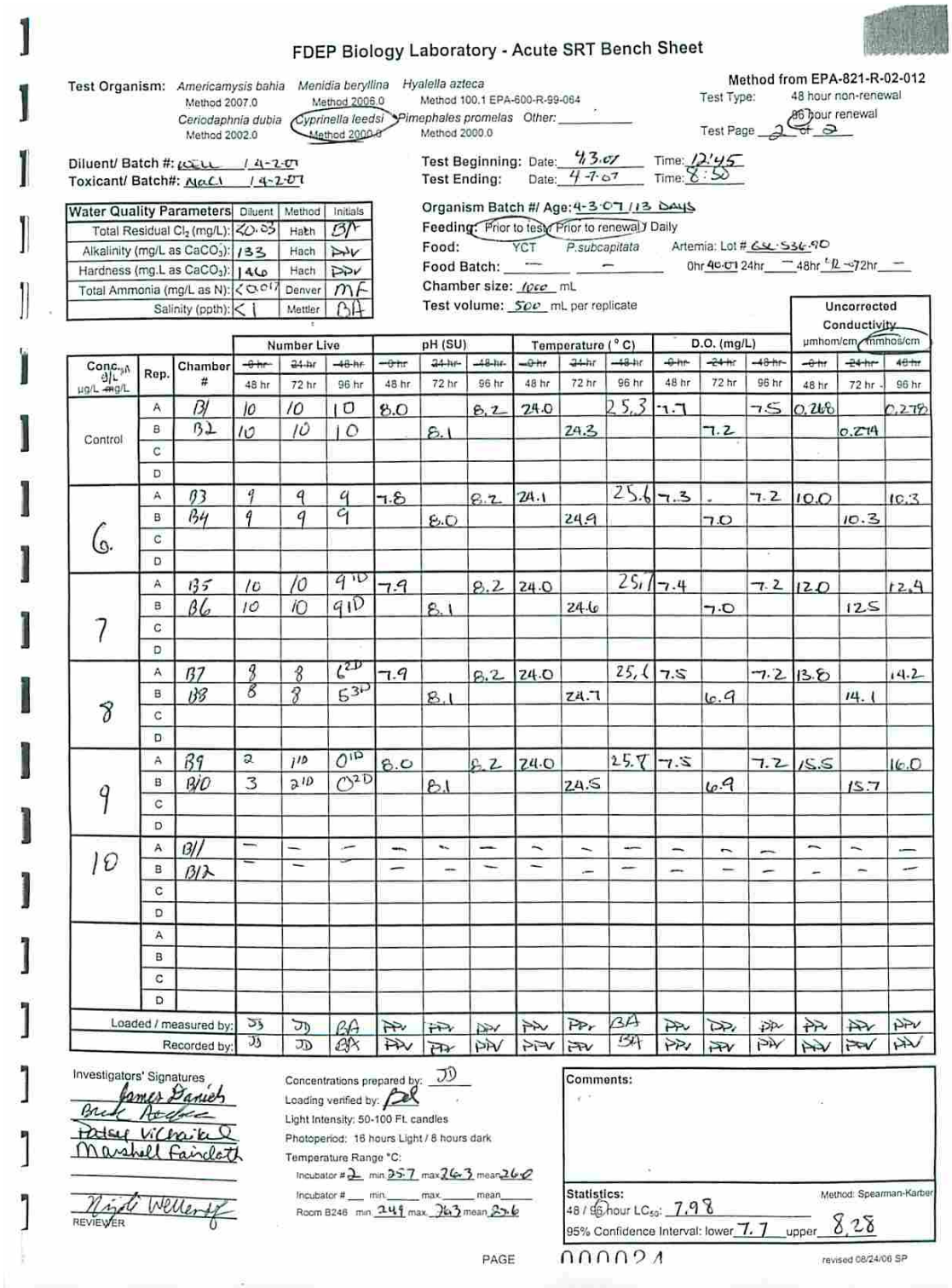
(48) / 96 hour LC_{50}: 8.50

95% Confidence Interval: lower 8.21 upper 8.80

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Appendix C. (continued)



FDEP Biology Laboratory - Acute SRT Bench Sheet

Test Organism: *Americamysis bahia* Method 2007.0; *Menidia beryllina* Method 2006.0; *Hyalella azteca* Method 100.1 EPA-600-R-99-064; *Ceriodaphnia dubia* Method 2002.0; *Cyprinella leedsi* Method 2000.0; *Pimephales promelas* Method 2000.0; Other: _____

Method from EPA-821-R-02-012
Test Type: 48 hour non-renewal / 96 hour renewal
Test Page 2 of 2

Diluent/ Batch #: ASW / 4-2-07
Toxicant/ Batch#: NaCl / 4-2-07

Test Beginning: Date: 4.3.07 Time: 12:45
Test Ending: Date: 4-7-07 Time: 8:50

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.05	Hatn	BA
Alkalinity (mg/L as $CaCO_3$):	133	Hach	DAV
Hardness (mg.L as $CaCO_3$):	1460	Hach	DAV
Total Ammonia (mg/L as N):	<0.07	Denver	MF
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 4-3-07 / 13 DAYS
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT *P.subcapitata* Artemia: Lot # GSL-536-90
Food Batch: — —
0hr 40.07 24hr — 48hr 42 72hr —
Chamber size: 1000 mL
Test volume: 500 mL per replicate

Conc. g/L µg/L mg/L	Rep.	Chamber #	Number Live 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	pH (SU) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	Temperature (° C) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	D.O. (mg/L) 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	Uncorrected Conductivity µmhom/cm mmhos/cm 0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr
Control	A	B1	10	10	10	8.0		8.2	24.0		25.3	7.7		7.5	0.268		0.278
	B	B2	10	10	10		8.1			24.3			7.2			0.274	
	C																
	D																
6	A	B3	9	9	9	7.8		8.2	24.1		25.6	7.3		7.2	10.0		10.3
	B	B4	9	9	9		8.0			24.9			7.0			10.3	
	C																
	D																
7	A	B5	10	10	9 1D	7.9		8.2	24.0		25.1	7.4		7.2	12.0		12.4
	B	B6	10	10	9 1D		8.1			24.6			7.0			12.5	
	C																
	D																
8	A	B7	8	8	6 2D	7.9		8.2	24.0		25.1	7.5		7.2	13.8		14.2
	B	B8	8	8	5 3D		8.1			24.7			6.9			14.1	
	C																
	D																
9	A	B9	2	1 1D	0 1D	8.0		8.2	24.0		25.7	7.5		7.2	15.5		16.0
	B	B10	3	2 1D	0 2D		8.1			24.5			6.9			15.7	
	C																
	D																
10	A	B11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	B	B12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			JJ	JD	BA	AP	AP	AP	AP	AP	BA	AP	AP	AP	AP	AP	AP
Recorded by:			JJ	JD	BA	AP	AP	AP	AP	AP	BA	AP	AP	AP	AP	AP	AP

Investigators' Signatures
James Daniels
Brad Rochon
Patsy Vickers
Marshall Faircloth
Nigel Wellendorf
REVIEWER

Concentrations prepared by: JD
Loading verified by: BA
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 25.7 max 26.3 mean 26.0
Incubator # ___ min ___ max ___ mean ___
Room B246 min 24.9 max 26.3 mean 25.6

Comments:

Statistics: Method: Spearman-Karber
48 / 96 hour LC_{50}: 7.98
95% Confidence Interval: lower 7.7 upper 8.28

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Appendix C. (continued)

***Ceriodaphnia dubia* Acute Standard Reference Toxicant Test**

DATE: 04-03-07 DURATION: 48 h TOXICANT: NaCl
SPECIES: *Ceridaphnia dubia*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
0.00	20	0
1.50	20	0
2.00	20	1
2.50	20	13
3.00	20	20
4.00	20	20

SPEARMAN-KARBER TRIM: 0.00%

SPEARMAN-KARBER ESTIMATES: LC50: 2.37
95% LOWER CONFIDENCE: 2.25
95% UPPER CONFIDENCE: 2.49

***Cyprinella leedsi* Acute Standard Reference Toxicant Test**

DATE: 04-03-07 DURATION: 48 h TOXICANT: NaCl
SPECIES: *Cyprinella leedsi*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
0.00	20	0
6.00	20	2
7.00	20	0
8.00	20	4
9.00	20	15
10.00	20	20

SPEARMAN-KARBER TRIM: 5.00%

SPEARMAN-KARBER ESTIMATES: LC50: 8.50
95% LOWER CONFIDENCE: 8.21
95% UPPER CONFIDENCE: 8.80

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

Appendix D. Test Organism Receipts

MBL Aquaculture
4569 Samuel Street
Sarasota, Florida 34233
TEL: (800) 889-0384
FAX: (941) 922-3874
EMAIL: sales@mblaquaculture.com
WEB: www.MBLAquaculture.com

NELAC Accredited

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 4/2/07

Shipped to: FDEP

P.O. No: _____

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia	400+	4 Days	MS070329	25°C	~15‰
Menidia beryllina	400+	11 Days	SS070311	25°C	~15‰
Cyprinella leedsi	150+	11 Days	CL070321	25°C	
Pimephales promelas	150+	8 Days	FM070315-1530	25°C	

Packed by: Frank Gauj

Shipped Via: FedEx

Notes: _____

Thank you for your order

Appendix D. (continued)

MBL Aquaculture
4569 Samuel Street
Sarasota, Florida 34233
TEL: (800) 889-0384
FAX: (941) 922-3874
EMAIL: sales@mblaquaculture.com
WEB: www.MBLAquaculture.com

NELAC Accredited

Organism Shipment Record

State of Florida Aquaculture Certificate Number AQ0668007

Date: 4/30/07

Shipped to: FDEP

P.O. No: _____

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia					
Menidia beryllina					
Cyprinella leedsi	150+	12 mths	CL070418	25°C	
Pimephales promelas					

Packed by: _____

Shipped Via: FedEx

Notes: _____

Thank you for your order.

Appendix E. Chemical Analyses performed on the effluent from AOC, L.L.C. Outfall D-001, sampled on April 30, 2007.

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
4/30/2007 10:15	Outfall D001	AGP/LN	Algal Growth Potential	17		mg DryWt/L	0.3	0.9
4/30/2007 10:15	Outfall D001	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	1	I	mg/L	0.2	2
4/30/2007 10:15	Outfall D001	Metals	Aluminum	20	U	ug/L	20	80
4/30/2007 10:15	Outfall D001	Metals	Calcium	34.2		mg/L	0.02	0.08
4/30/2007 10:15	Outfall D001	Metals	Iron	23		ug/L	5	20
4/30/2007 10:15	Outfall D001	Metals	Magnesium	6.1		mg/L	0.005	0.02
4/30/2007 10:15	Outfall D001	Metals	Zinc	5	U	ug/L	5	20
4/30/2007 10:15	Outfall D001	Metals	Arsenic	1.7	I	ug/L	0.5	2
4/30/2007 10:15	Outfall D001	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Metals	Chromium	1	U	ug/L	1	4
4/30/2007 10:15	Outfall D001	Metals	Copper	0.47	I	ug/L	0.2	0.8
4/30/2007 10:15	Outfall D001	Metals	Lead	0.2	U	ug/L	0.2	0.8
4/30/2007 10:15	Outfall D001	Metals	Nickel	0.25	U	ug/L	0.25	1
4/30/2007 10:15	Outfall D001	Metals	Selenium	1.8	I	ug/L	0.5	2
4/30/2007 10:15	Outfall D001	Metals	Silver	0.025	U	ug/L	0.025	0.1
4/30/2007 10:15	Outfall D001	Nutrients	Turbidity	0.25		NTU	0.05	0.05
4/30/2007 10:15	Outfall D001	Nutrients	Organic Carbon	1	UY	mg C/L	1	5
4/30/2007 10:15	Outfall D001	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
4/30/2007 10:15	Outfall D001	Nutrients	NO2NO3-N	0.23		mg N/L	0.004	0.01
4/30/2007 10:15	Outfall D001	Nutrients	O-Phosphate-P	0.011		mg P/L	0.004	0.01
4/30/2007 10:15	Outfall D001	Nutrients	Sulfate	8.1		mg SO4/L	0.2	0.5
4/30/2007 10:15	Outfall D001	Nutrients	Sulfide	0.05	U	mg S/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
4/30/2007 10:15	Outfall D001	Nutrients	Organic Carbon	1	U	mg C/L	1	5
4/30/2007 10:15	Outfall D001	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06
4/30/2007 10:15	Outfall D001	Nutrients	TSS	4	U	mg/L	4	16
4/30/2007 10:15	Outfall D001	Pesticides	Alachlor	0.6	U	ug/L	0.6	2.4
4/30/2007 10:15	Outfall D001	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2	0.8
4/30/2007 10:15	Outfall D001	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
4/30/2007 10:15	Outfall D001	Pesticides	Butylate	0.2	U	ug/L	0.2	0.8
4/30/2007 10:15	Outfall D001	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
4/30/2007 10:15	Outfall D001	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
4/30/2007 10:15	Outfall D001	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
4/30/2007 10:15	Outfall D001	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
4/30/2007 10:15	Outfall D001	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
4/30/2007 10:15	Outfall D001	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
4/30/2007 10:15	Outfall D001	Pesticides	Metalaxyl	0.25	U	ug/L	0.25	1
4/30/2007 10:15	Outfall D001	Pesticides	Metolachlor	0.5	U	ug/L	0.5	2
4/30/2007 10:15	Outfall D001	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
4/30/2007 10:15	Outfall D001	Pesticides	Mevinphos	0.2	U	ug/L	0.2	0.8

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
4/30/2007 10:15	Outfall D001	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
4/30/2007 10:15	Outfall D001	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
4/30/2007 10:15	Outfall D001	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
4/30/2007 10:15	Outfall D001	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
4/30/2007 10:15	Outfall D001	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
4/30/2007 10:15	Outfall D001	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	1,2-Dichlorobenzene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	1,3-Dichlorobenzene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	1,4-Dichlorobenzene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2,4,6-Trichlorophenol	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2,4-Dichlorophenol	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	41
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2,4-Dinitrophenol	15	U	ug/L	15	62
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2,4-Dinitrotoluene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2,6-Dinitrotoluene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2-Chloronaphthalene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2-Chlorophenol	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1	U	ug/L	3.1	12
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	2-Nitrophenol	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	3,3'-Dichlorobenzidine	41	UJ	ug/L	41	160
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	4,4'-DDD	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	4,4'-DDE	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	4,4'-DDT	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	4-Chloro-3-methylphenol	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.1	U	ug/L	2.1	8.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	62
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Acenaphthene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Acenaphthylene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Aldrin	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Anthracene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Benzidine	100	UJ	ug/L	100	410
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Benzo(a)anthracene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Benzo(a)pyrene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Benzo(b)fluoranthene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Benzo(g,h,i)perylene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Benzo(k)fluoranthene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.1	U	ug/L	3.1	12
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	62
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Butyl benzyl phthalate	5.2	U	ug/L	5.2	21
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Chrysene	1	U	ug/L	1	4.1

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Di-n-butyl phthalate	5.2	U	ug/L	5.2	21
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Di-n-octyl phthalate	1	UJ	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Dieldrin	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Diethyl phthalate	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Dimethyl phthalate	52	UJ	ug/L	52	210
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Endosulfan I	4.1	U	ug/L	4.1	16
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Endosulfan II	4.1	U	ug/L	4.1	16
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Endosulfan sulfate	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Endrin	1.5	UJ	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Endrin aldehyde	4.1	U	ug/L	4.1	16
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Fluoranthene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Fluorene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Heptachlor	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Heptachlor epoxide	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Hexachlorobenzene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Hexachlorobutadiene	3.1	U	ug/L	3.1	12
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.1	U	ug/L	3.1	12
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Hexachloroethane	3.1	U	ug/L	3.1	12
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Isophorone	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.1	U	ug/L	2.1	8.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	N-Nitrosodimethylamine	2.1	U	ug/L	2.1	8.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	3.1	UJ	ug/L	3.1	12
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Naphthalene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Nitrobenzene	2.1	U	ug/L	2.1	8.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Pentachlorophenol	3.1	U	ug/L	3.1	12
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Phenanthrene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Phenol	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	Pyrene	1	U	ug/L	1	4.1
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	alpha-BHC	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	beta-BHC	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	delta-BHC	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Priority Organic Pollutants	gamma-BHC	1.5	U	ug/L	1.5	6.2
4/30/2007 10:15	Outfall D001	Field parameters	Dissolved Oxygen	6.5		mg/L		
4/30/2007 10:15	Outfall D001	Field parameters	Salinity	0.12		PPTh		
4/30/2007 10:15	Outfall D001	Field parameters	Specific Conductance	251		umhos/cm		
4/30/2007 10:15	Outfall D001	Field parameters	Temperature	24.63		C		
4/30/2007 10:15	Outfall D001	Field parameters	pH	7.95				
4/30/2007 10:30	Blank	Metals	Aluminum	20	U	ug/L	20	80
4/30/2007 10:30	Blank	Metals	Calcium	0.02	U	mg/L	0.02	0.08
4/30/2007 10:30	Blank	Metals	Iron	5	U	ug/L	5	20
4/30/2007 10:30	Blank	Metals	Magnesium	0.005	U	mg/L	0.005	0.02
4/30/2007 10:30	Blank	Metals	Zinc	5	U	ug/L	5	20
4/30/2007 10:30	Blank	Metals	Arsenic	0.5	U	ug/L	0.5	2

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
4/30/2007 10:30	Blank	Metals	Cadmium	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Metals	Chromium	1	U	ug/L	1	4
4/30/2007 10:30	Blank	Metals	Copper	0.2	U	ug/L	0.2	0.8
4/30/2007 10:30	Blank	Metals	Lead	0.2	U	ug/L	0.2	0.8
4/30/2007 10:30	Blank	Metals	Nickel	0.25	U	ug/L	0.25	1
4/30/2007 10:30	Blank	Metals	Selenium	0.5	U	ug/L	0.5	2
4/30/2007 10:30	Blank	Metals	Silver	0.025	U	ug/L	0.025	0.1
4/30/2007 10:30	Blank	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
4/30/2007 10:30	Blank	Nutrients	NO2NO3-N	0.004	U	mg N/L	0.004	0.01
4/30/2007 10:30	Blank	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
4/30/2007 10:30	Blank	Nutrients	Sulfate	0.2	U	mg SO4/L	0.2	0.5
4/30/2007 10:30	Blank	Nutrients	Sulfide	0.05	U	mg S/L	0.05	0.2
4/30/2007 10:30	Blank	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
4/30/2007 10:30	Blank	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06
4/30/2007 10:30	Blank	Pesticides	Alachlor	0.6	U	ug/L	0.6	2.4
4/30/2007 10:30	Blank	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2	0.8
4/30/2007 10:30	Blank	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
4/30/2007 10:30	Blank	Pesticides	Butylate	0.2	U	ug/L	0.2	0.8
4/30/2007 10:30	Blank	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
4/30/2007 10:30	Blank	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
4/30/2007 10:30	Blank	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
4/30/2007 10:30	Blank	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
4/30/2007 10:30	Blank	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
4/30/2007 10:30	Blank	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
4/30/2007 10:30	Blank	Pesticides	Metalaxyl	0.25	U	ug/L	0.25	1
4/30/2007 10:30	Blank	Pesticides	Metolachlor	0.5	U	ug/L	0.5	2
4/30/2007 10:30	Blank	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
4/30/2007 10:30	Blank	Pesticides	Mevinphos	0.2	U	ug/L	0.2	0.8
4/30/2007 10:30	Blank	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
4/30/2007 10:30	Blank	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
4/30/2007 10:30	Blank	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
4/30/2007 10:30	Blank	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
4/30/2007 10:30	Blank	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
4/30/2007 10:30	Blank	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
4/30/2007 10:30	Blank	Priority Organic Pollutants	1,2,4-Trichlorobenzene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	1,2-Dichlorobenzene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	1,3-Dichlorobenzene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	1,4-Dichlorobenzene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	2,4,6-Trichlorophenol	0.93	U	ug/L	0.93	3.7

Appendix E. (continued)

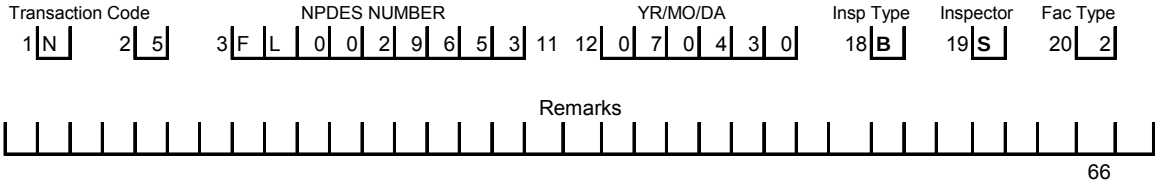
Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
4/30/2007 10:30	Blank	Priority Organic Pollutants	2,4-Dichlorophenol	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	2,4-Dimethylphenol	9.3	U	ug/L	9.3	37
4/30/2007 10:30	Blank	Priority Organic Pollutants	2,4-Dinitrophenol	14	U	ug/L	14	56
4/30/2007 10:30	Blank	Priority Organic Pollutants	2,4-Dinitrotoluene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	2,6-Dinitrotoluene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	2-Chloronaphthalene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	2-Chlorophenol	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	2.8	U	ug/L	2.8	11
4/30/2007 10:30	Blank	Priority Organic Pollutants	2-Nitrophenol	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	3,3'-Dichlorobenzidine	37	UJ	ug/L	37	150
4/30/2007 10:30	Blank	Priority Organic Pollutants	4,4'-DDD	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	4,4'-DDE	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	4,4'-DDT	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	4-Bromophenyl phenyl ether	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	4-Chloro-3-methylphenol	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	1.9	U	ug/L	1.9	7.4
4/30/2007 10:30	Blank	Priority Organic Pollutants	4-Nitrophenol	14	U	ug/L	14	56
4/30/2007 10:30	Blank	Priority Organic Pollutants	Acenaphthene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Acenaphthylene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Aldrin	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	Anthracene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Benzidine	93	UJ	ug/L	93	370
4/30/2007 10:30	Blank	Priority Organic Pollutants	Benzo(a)anthracene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Benzo(a)pyrene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Benzo(b)fluoranthene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Benzo(g,h,i)perylene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Benzo(k)fluoranthene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Bis(2-chloroethyl)ether	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	2.8	U	ug/L	2.8	11
4/30/2007 10:30	Blank	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	14	U	ug/L	14	56
4/30/2007 10:30	Blank	Priority Organic Pollutants	Butyl benzyl phthalate	4.6	U	ug/L	4.6	19
4/30/2007 10:30	Blank	Priority Organic Pollutants	Chrysene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Di-n-butyl phthalate	4.6	U	ug/L	4.6	19
4/30/2007 10:30	Blank	Priority Organic Pollutants	Di-n-octyl phthalate	0.93	UJ	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Dibenzo(a,h)anthracene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Dieldrin	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	Diethyl phthalate	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Dimethyl phthalate	46	UJ	ug/L	46	190
4/30/2007 10:30	Blank	Priority Organic Pollutants	Endosulfan I	3.7	U	ug/L	3.7	15
4/30/2007 10:30	Blank	Priority Organic Pollutants	Endosulfan II	3.7	U	ug/L	3.7	15
4/30/2007 10:30	Blank	Priority Organic Pollutants	Endosulfan sulfate	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	Endrin	1.4	UJ	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	Endrin aldehyde	3.7	U	ug/L	3.7	15
4/30/2007 10:30	Blank	Priority Organic Pollutants	Fluoranthene	0.93	U	ug/L	0.93	3.7

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Result	Remarks	Units	MDL	PQL
4/30/2007 10:30	Blank	Priority Organic Pollutants	Fluorene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Heptachlor	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	Heptachlor epoxide	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	Hexachlorobenzene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Hexachlorobutadiene	2.8	U	ug/L	2.8	11
4/30/2007 10:30	Blank	Priority Organic Pollutants	Hexachlorocyclopentadiene	2.8	U	ug/L	2.8	11
4/30/2007 10:30	Blank	Priority Organic Pollutants	Hexachloroethane	2.8	U	ug/L	2.8	11
4/30/2007 10:30	Blank	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Isophorone	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	1.9	U	ug/L	1.9	7.4
4/30/2007 10:30	Blank	Priority Organic Pollutants	N-Nitrosodimethylamine	1.9	U	ug/L	1.9	7.4
4/30/2007 10:30	Blank	Priority Organic Pollutants	N-Nitrosodiphenylamine/ Diphenylamine	2.8	UJ	ug/L	2.8	11
4/30/2007 10:30	Blank	Priority Organic Pollutants	Naphthalene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Nitrobenzene	1.9	U	ug/L	1.9	7.4
4/30/2007 10:30	Blank	Priority Organic Pollutants	Pentachlorophenol	2.8	U	ug/L	2.8	11
4/30/2007 10:30	Blank	Priority Organic Pollutants	Phenanthrene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Phenol	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	Pyrene	0.93	U	ug/L	0.93	3.7
4/30/2007 10:30	Blank	Priority Organic Pollutants	alpha-BHC	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	beta-BHC	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	delta-BHC	1.4	U	ug/L	1.4	5.6
4/30/2007 10:30	Blank	Priority Organic Pollutants	gamma-BHC	1.4	U	ug/L	1.4	5.6

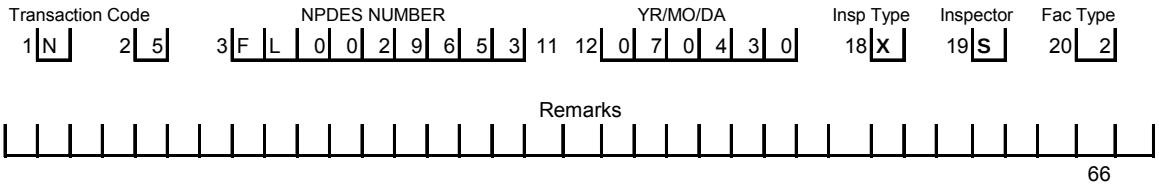
The Bioassay of AOC, L.L.C. effluent sampled on April 30, 2007. NPDES #FL0029653.

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



The Priority Pollutants Analysis of AOC, L.L.C. effluent sampled on April 30, 2007. NPDES #FL0029653.

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



Biological Analyses of AOC, L.L.C. effluent sampled on April 30, 2007. NPDES #FL0029653.

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

