

Effluent Quality Assessment

Napoli's Mobile Home Park Wastewater Treatment Facility

Duval County

NPDES #FL0043150

Sampled April 28, 2008

August 2008
(Resubmitted March 2011 with corrected tables)

Biology Section
Bureau of Laboratories
Division of Environmental Assessment and Restoration

Quality Manual No. 870346G
NELAC Certification No. E31780

Napoli's Mobile Home Park Wastewater Treatment Facility, 10200 Normandy Boulevard, Jacksonville, Duval County, Florida, 32221. NPDES #FL0043150. Effluent samples for this facility were collected on April 28, 2008.

Introduction

Napoli's Mobile Home Park Wastewater Treatment Facility utilizes the extended-aeration treatment process to treat domestic wastewater. The facility has a design flow of 0.015 million gallons per day (MGD) annual average daily flow (AADF). The mean flow from December 2006-December 2007 was 0.007 MGD. The wastewater treatment facility consists of:

- Three aeration tanks;
- One secondary clarifier;
- One chlorine contact chamber; and,
- One waste-sludge holding tank.

A liquid hypochlorite solution is used for chlorination. A sodium sulfite solution and re-aeration are both used for dechlorination. Treated effluent is continuously discharged to the Class III fresh waters of an unnamed ditch which is located in the abandoned Old Middleburg Road right-of-way. Wastewater flows east in the ditch to an unnamed swamp at Discharge Location D-001. The point of discharge is located approximately at latitude 30° 15' 50" N, longitude 81° 49' 39" W. The domestic wastewater residuals are transported to the Buckman residuals management facility (RMF) for further treatment and final disposal.

The facility has no Administrative Orders, Consent Orders or mixing zones. A review of discharge monitoring report (DMR) data for the past year revealed no violations of permit conditions. There is no toxicity testing requirement in the facility's NPDES permit. (Facility information provided by Edward Jamro of FDEP NE District.)

Methods

Samples were collected from the EFF-01 NPDES sampling point for Outfall D-001 by Drew Brown and Tom Kallemeyn (FDEP NE 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. The Department uses the 48-hour acute screening test to provide reasonable assurance that the facility does not adversely affect waters of the state.

Total residual chlorine (0.34 mg/L) was detected in the bioassay sample in the laboratory. An aliquot of this sample was dechlorinated by the addition of sodium thiosulfate (0.025 N) at a rate of 0.4 mL per liter of sample to neutralize the chlorine. Bioassays were performed on the dechlorinated aliquot in addition to the bioassays performed on the original sample. The same concentration of sodium thiosulfate was added to the dechlorinated test controls. The purpose of the dechlorinated test controls was to confirm that there was no adverse effect of adding sodium thiosulfate to the sample. There was no mortality in the dechlorinated controls of either test species.

Prior to test initiation, the bioassay sample was aerated for 20 minutes at approximately 100 bubbles per minute, to decrease the dissolved oxygen concentration from 10.0 mg/L to 8.2 mg/L.

Toxicity Test Results

Tests were performed April 29 - May 1, 2008.

Ceriodaphnia dubia 48-hour acute screening bioassay –	LC_{50} > 100%, 5% mortality* in 100% sample at 48 hours
Ceriodaphnia dubia 48-hour acute screening bioassay –	LC_{50} > 100%, 0% mortality* in Dechlorinated 100% sample at 48 hours
Cyprinella leedsi 48-hour acute screening bioassay –	LC_{50} > 100%, 0% mortality* in 100% sample at 48 hours
Cyprinella leedsi 48-hour acute screening bioassay –	LC_{50} > 100%, 0% mortality* in Dechlorinated 100% sample at 48 hours

The original bioassay sample and the dechlorinated sample aliquots were not acutely toxic to the test organisms.

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 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.).

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 345 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The analytical chemistry suggests that the effluent is nitrogen-limited. The predicted AGP based on inorganic nitrogen concentrations was 496.4 (±20%) mg dry wt/L (Table 1; Miller et al. 1978).

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine (TRC) (0.34 mg/L) was detected in the bioassay sample in the laboratory. Total ammonia was not detected in the bioassay sample in the laboratory. The total ammonia concentration in the sample collected and preserved for chemical analysis was 0.063 mg/L. Based on the pH, salinity, and temperature of the effluent as collected, the calculated unionized ammonia concentration was ≤0.02 mg/L.

Cadmium, copper, nickel, and zinc were detected in the effluent at levels that comply with Class III fresh water quality criteria (62-302.530, F.A.C.).

Effluent TRC exceeded both Class III Freshwater criterion and permit limits (≤0.01 µg/L; 62-302.530(18), F.A.C. and NPDES permit FL0043150). Total nitrogen (14.2 mg/L) in the effluent exceeded the facility's permitted limit for total nitrogen (≤3.2 mg/L; NPDES permit FL0043150).

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. See Appendix F for bioassay lab equipment.

Conclusion

The effluent sample collected from the EFF-01 NPDES sampling point for Outfall D-001 for this facility on April 28, 2008, and the dechlorinated aliquots of effluent were not acutely toxic to either test species during the 48-hour acute screening bioassays. The effluent AGP result greatly exceeded the "problem" threshold for fresh receiving waters, suggesting nutrient enrichment may be an issue. Total nitrogen (14.2 mg/L) and total residual chlorine (0.34 mg/L) exceeded Class III freshwater criteria and/or 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 inorganic nitrogen (TSIN) and total nitrogen (TN) limitation of the freshwater species *Pseudokirchneriella subcapitata* for samples collected from Napoli's Mobile Home Park WWTF on April 28, 2008.

Napoli's Mobile Home Park Wastewater Treatment Facility NPDES# FL0043150					
Location	**AGP (measured)**	**Predicted AGP (TSIN) ± 20%**	**Predicted AGP (TN) ± 20%**	**Inorganic N:P ratio**	**Total N:P ratio**
D-001	345.0	496.4 ± 99.3	539.6 ± 107.9	2.7	2.7

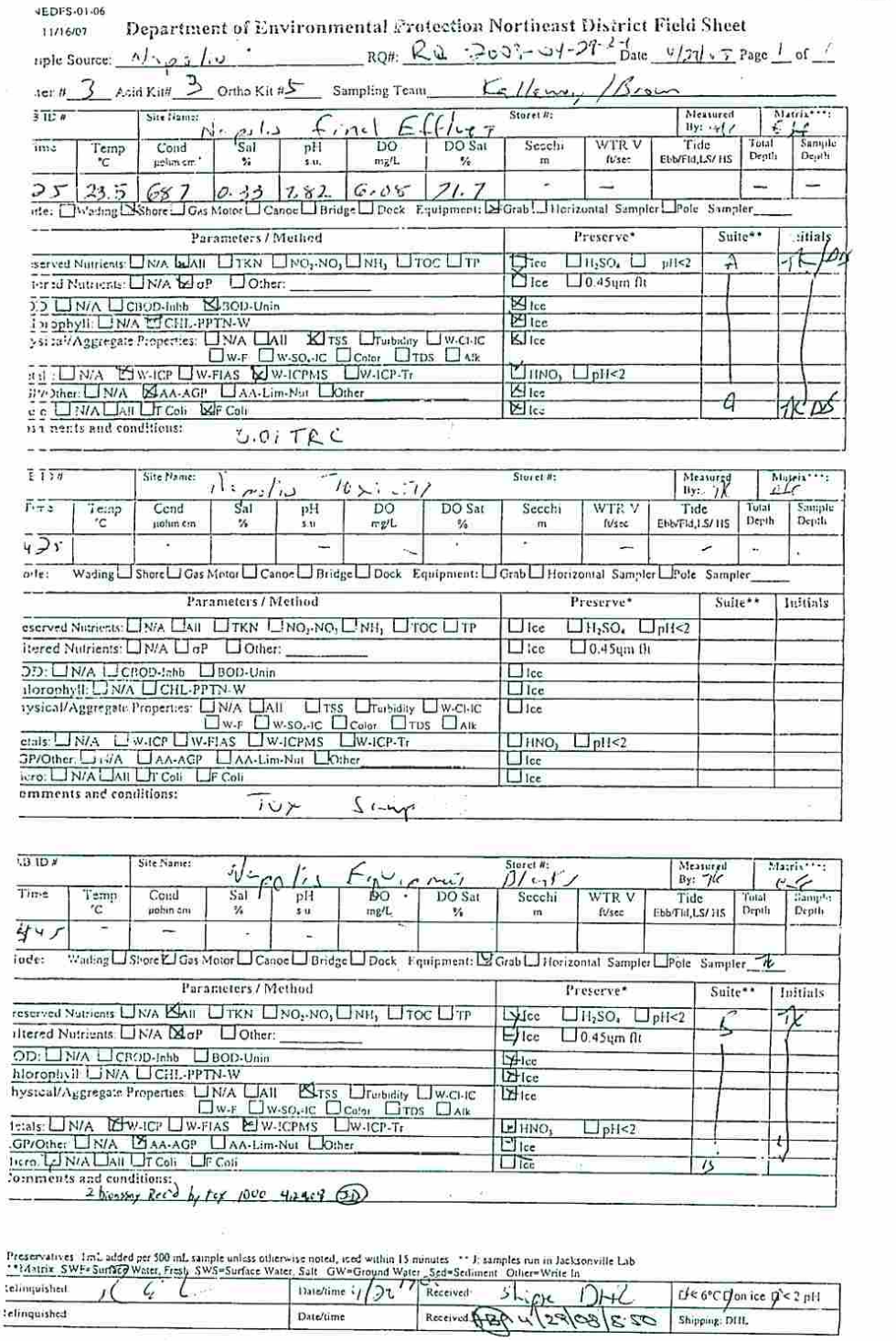
Table 2. Effluent limits, Class III Freshwater Criteria and chemical and microbiological data for samples collected from Napoli's Mobile Home Park Wastewater Treatment Facility on April 28, 2008.

Napoli's Mobile Home Park WWTF NPDES# FL0043150	Class III Criteria	Effluent Limits	Effluent	
Metals (µg/L unless otherwise noted)				
Aluminum	-	-	60	U
Arsenic	≤ 50	-	0.5	U
Cadmium	≤ 0.5 b	-	0.13	
Calcium (mg/L)	-	-	68.4	
Chromium-III	≤ 164.5 b	-	1	U
Copper	≤ 18.3 b	-	6.5	
Iron	≤ 1,000	-	30	U
Lead	≤ 8.7 b	-	0.2	U
Magnesium (mg/L)	-	-	12	
Nickel	≤ 101.7 b	-	1.47	
Selenium	≤ 5.0	-	0.5	U
Silver	≤ 0.07	-	0.025	U
Zinc	≤ 233.9 b	-	63	
Nutrients (mg/L)				
Ortho-phosphate	-	-	4.9	A
Total Phosphorus	-	-	5.3	
Total Ammonia	-	≤ 3.2 s	0.063	
Un-ionized Ammonia	≤ 0.02 s	≤ 0.02 s	≤ 0.02	c
Nitrate and Nitrite	-	-	13	
Total Kjeldahl Nitrogen	-	-	1.2	
Organic Nitrogen	-	-	1.137	c
Total Nitrogen	-	≤ 3.2 s	14.2	c
General Physical and Chemical Parameters				
Dissolved Oxygen (mg/L)	≥ 5.0	≥ 5.0 s	6.1	
pH (SU)	6.0 - 8.5	6.0 - 8.5 s	7.8	
Conductivity (µmhos/cm)	≤ 1,275	-	687	
Temperature (°C)	-	-	23.5	
Salinity	-	-	≤ 0.35	c
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01 s	0.34	£Q
Chlorophyll *a* (µg/L) - Corrected	-	-	0.55	U
Phaeophytin (µg/L)	-	-	0.34	I
Total Suspended Solids (mg/L)	-	≤ 60.0 s	4	U
CBOD, 5 day (mg/L), N - inhibited	-	≤ 60.0 s	3	
Flow (MGD)	-	≤ 0.015 a	0.007	a
Hardness (mg $CaCO_3$)	-	-	220.21	c
Microbiology (Number of colony forming units/100ml)				
Fecal Coliforms #	≤ 400 s #	≤ 800 s	20	¥

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
s - Single sample
A - Value reported is the mean of two or more determinations
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
Q - Sample held beyond normal holding time
U - Material analyzed for but not detected; value reported is the method detection limit
¥ - Fecal coliform analysis performed by Advanced Environmental Laboratories, Inc.
- If 10 or fewer samples are taken within a month, the single sample limit is 400 CFU (62-302.530(6), F.A.C.)
£ - Measurement taken in the FDEP laboratory

Appendix A. Chain of Custody Form



NEDFS-01-06
11/16/07

Department of Environmental Protection Northeast District Field Sheet

Sample Source: Nipolis Final Effluent RQ#: RQ 2007-04-29-24 Date 4/29/08 Page 1 of 1

Meter # 3 Acid Kit# 3 Ortho Kit # 5 Sampling Team Kelley / Brown

STORET ID #	Site Name: Nipolis Final Effluent	Storet #:	Measured By: MK	Matrix***: EF

Time	Temp °C	Cond µohm cm	Sal %	pH s.u.	DO mg/L	DO Sat %	Secchi m	WTR V ft/sec	Tide Ebb/Fld,LS/HS	Total Depth	Sample Depth
1025	23.5	687	0.33	7.82	6.08	71.7	-	—		—	—

Mode: ☐ Wading ☒ Shore ☐ Gas Motor ☐ Canoe ☐ Bridge ☐ Dock Equipment: ☒ Grab ☐ Horizontal Sampler ☐ Pole Sampler

Parameters / Method	Preserve*	Suite**	Initials
Preserved Nutrients: ☐ N/A ☒ All ☐ TKN ☐ NO_2-NO_3 ☐ NH_3 ☐ TOC ☐ TP	☐ Ice ☐ H_2SO_4 ☐ pH<2	4	MK/DS
Filtered Nutrients: ☐ N/A ☒ oP ☐ Other: _____	☐ Ice ☐ 0.45µm flt		
BOD: ☐ N/A ☐ CBOD-Inhb ☒ BOD-Unin	☒ Ice		
Chlorophyll: ☐ N/A ☒ CHL-PPTN-W	☒ Ice		
Physical/Aggregate Properties: ☐ N/A ☐ All ☒ TSS ☐ Turbidity ☐ W-Cl-IC ☐ W-F ☐ W-SO_4-IC ☐ Color ☐ TDS ☐ Alk	☒ Ice		
Metals: ☐ N/A ☒ W-ICP ☐ W-FIAS ☒ W-ICPMS ☐ W-ICP-Tr	☒ HNO_3 ☐ pH<2		
GP/Other: ☐ N/A ☒ AA-AGP ☐ AA-Lim-Nut ☐ Other	☒ Ice		
Micro: ☐ N/A ☐ All ☐ T Coli ☒ F Coli	☒ Ice	9	MK DS

Comments and conditions: 0.0 TRC

STORET ID #	Site Name: Nipolis Mixing Zone	Storet #:	Measured By: MK	Matrix***: EF

Time	Temp °C	Cond µohm cm	Sal %	pH s.u.	DO mg/L	DO Sat %	Secchi m	WTR V ft/sec	Tide Ebb/Fld,LS/HS	Total Depth	Sample Depth
1025		-		—			-	—	-	-	-

Mode: ☐ Wading ☐ Shore ☐ Gas Motor ☐ Canoe ☐ Bridge ☐ Dock Equipment: ☐ Grab ☐ Horizontal Sampler ☐ Pole Sampler

Parameters / Method	Preserve*	Suite**	Initials
Preserved Nutrients: ☐ N/A ☐ All ☐ TKN ☐ NO_2-NO_3 ☐ NH_3 ☐ TOC ☐ TP	☐ Ice ☐ H_2SO_4 ☐ pH<2		
Filtered Nutrients: ☐ N/A ☐ oP ☐ Other: _____	☐ Ice ☐ 0.45µm flt		
BOD: ☐ N/A ☐ CBOD-Inhb ☐ BOD-Unin	☐ Ice		
Chlorophyll: ☐ N/A ☐ CHL-PPTN-W	☐ Ice		
Physical/Aggregate Properties: ☐ N/A ☐ All ☐ TSS ☐ Turbidity ☐ W-Cl-IC ☐ W-F ☐ W-SO_4-IC ☐ Color ☐ TDS ☐ Alk	☐ Ice		
Metals: ☐ N/A ☐ W-ICP ☐ W-FIAS ☐ W-ICPMS ☐ W-ICP-Tr	☐ HNO_3 ☐ pH<2		
GP/Other: ☐ N/A ☐ AA-AGP ☐ AA-Lim-Nut ☐ Other	☐ Ice		
Micro: ☐ N/A ☐ All ☐ T Coli ☐ F Coli	☐ Ice		

Comments and conditions: TOX Samp

STORET ID #	Site Name: Nipolis Equipment Blank	Storet #:	Measured By: MK	Matrix***: EF

Time	Temp °C	Cond µohm cm	Sal %	pH s.u.	DO mg/L	DO Sat %	Secchi m	WTR V ft/sec	Tide Ebb/Fld,LS/HS	Total Depth	Sample Depth
1045	-	—	-	-							

Mode: ☐ Wading ☐ Shore ☒ Gas Motor ☐ Canoe ☐ Bridge ☐ Dock Equipment: ☒ Grab ☐ Horizontal Sampler ☐ Pole Sampler

Parameters / Method	Preserve*	Suite**	Initials
Preserved Nutrients ☐ N/A ☒ All ☐ TKN ☐ NO_2-NO_3 ☐ NH_3 ☐ TOC ☐ TP	☐ Ice ☐ H_2SO_4 ☐ pH<2	5	MK
Filtered Nutrients ☐ N/A ☒ oP ☐ Other: _____	☐ Ice ☐ 0.45µm flt		
BOD: ☐ N/A ☐ CBOD-Inhb ☐ BOD-Unin	☐ Ice		
Chlorophyll ☐ N/A ☐ CHL-PPTN-W	☐ Ice		
Physical/Aggregate Properties ☐ N/A ☐ All ☒ TSS ☐ Turbidity ☐ W-Cl-IC ☐ W-F ☐ W-SO_4-IC ☐ Color ☐ TDS ☐ Alk	☐ Ice		
Metals: ☐ N/A ☒ W-ICP ☐ W-FIAS ☒ W-ICPMS ☐ W-ICP-Tr	☐ HNO_3 ☐ pH<2		
GP/Other: ☐ N/A ☒ AA-AGP ☐ AA-Lim-Nut ☐ Other	☐ Ice		
Micro: ☐ N/A ☐ All ☐ T Coli ☐ F Coli	☐ Ice	15	

Comments and conditions: 2 biomass Recd by FCX 1000 4/29/08 (DS)

Preservatives: 1mL added per 500 mL sample unless otherwise noted, iced within 15 minutes ** J: samples run in Jacksonville Lab
***Matrix: SWF=Surface Water, Fresh; SWS=Surface Water, Salt GW=Ground Water Sed=Sediment Other=Write In

Relinquished	Date/time 4/29/08	Received Shipped DHL	On ice ☐ 6°C ☐ pH < 2 pH
Relinquished	Date/time	Received FedEx 4/29/08 8:30	Shipping: DHL

FDEP Biology Laboratory - Acute Screen Bioassay Bench Sheets

Facility: Napoli's ~~Trailer~~ mobile Home mf Park WWTF

Address: 10200 Normandy Boulevard

City: Jacksonville County: Duval

Contact/District: Tom Kallemeyn / Northeast

NPDES Permit #: FL 0043150

LIMS Job #: TLH-2008-04-29-28 LIMS Sample #: 1098133

Lims Data Entry: 5-2-08 MF Data Entry Verification: 5-2-08 BA

Sample Collection: Date: 4.28.08 Time: 14:25

Hold Time Start: Date: 4.28.08 Time: 14:25

Comments: Aliquot of Sample dechlorinated by the addition of 0.4 mL of 0.025N Sodium Thiosulfate ~~per~~ mf per Liter of sample. Controls prepared by adding 0.4 mL of 0.025 N Sodium Thiosulfate per liter of appropriate control water, mf 4-29-08

Test 1 LC50 = >100%; mortality = 5%
Dechlorinated LC50 = >100%; mortality = 0%

Test 2 LC50 = >100%; mortality = 0%
Dechlorinated LC50 = >100%; mortality: 0%

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: 10.0 mg/L Final DO: 8.2 mg/L Duration: 20 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 .4 mL of 0.025N Sodium Thiosulfate per liter of sample. Final TRC: 0.06

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)

Light Intensity : 50 - 100 ft. candles

Photoperiod : 16 light 8 dark

Temperature Range °C:

Incubator # 2 min. 26.2 max. 26.8 mean 26.5

Incubator # ____ min. ____ max. ____ mean ____

Room B246 min. 24.6 max. 25.3 mean 25.0

dechlor = dechlorinated

Water Quality Parameters	20% DMW	Moderately Hard Water/ (Well Water)	Salt Water ASW NSW Test 1	Salt Water ASW NSW Test 2	Other: dechlor Sample	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl_2 (mg/L):	N/A	N/A	N/A	N/A	NA	0.01	Hach	Tom Kallemeyn	MF
Lab Total Residual Cl_2 (mg/L):	<0.03	<0.03			0.06	0.34	HACH	JD	MF
Alkalinity (mg/L as $CaCO_3$):	88	154			—	200	HACH	BA	JD
Hardness (mg/L as $CaCO_3$):	88	135			—	204	HACH	BA	JD
Total Ammonia (mg/L as N):	<0.017	<0.017			—	<0.017	DENVER	MF	JD
Salinity (ppth):	<1	<1			—	0.29	YSI / Mettler	BA	JD

Investigators' Signatures

Jason Daniels

Brad Alexander

Marshall Faircloth

Loretta C. Wolfe
REVIEWER

V 1.4 9/12/05

Appendix B. (continued)

FDEP Biology Laboratory - Bioassay Survival Bench Sheet

LIMS Sample #: 1098133 **Test #:** 1/2 **SOP#:TA 07** 01 **Test Started:** Date 4.29.08 Time: 1305
Organism/Batch/Age: cdubia / 1/6-08 / <24 hours **Test Ended:** Date 5-1-08 Time: 11:30
Chamber/Test Volume: 30 / 2 0 ml mf 6.5 D **Diluent/ Batch:** DMW / 4.15.08
Food/Batch: YCT 7-26-07 **P.sub** 1-31-08 **Artemia 0hr** — **24hr** — **48hr** — **72hr** — **Artemia Lot#** NA
Feeding: (Prior to Test) Prior to Renewal Daily

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

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

Test Results:
Screening Tests: Report LC50 as >100%, =100%, or <100%.
% mortality in 100% sample: ~~0%~~ MF 5% LC50: >100%
If Calculated: 95% CI________ Method________

Comments: 0% mortality in the dechlorinated aliquot test. MF 5-2-08 LC50 = >100%

dechlor = dechlorinated
ctrl = control

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 #: 1098133 Test #: 2/2 SOP#:TA 07 02 Test Started: Date 4.29.08 Time: 1300

Organism/Batch/Age: C.leedsi/4.29.08/13days Test Ended: Date 5.1.08 Time: 1100

Chamber/Test Volume: 1000 / 500 ml Diluent/ Batch: Well / 4.28.08

Food/Batch: YCT NA P.sub NA Artemia 0hr 76-08 24hr NA 48hr NA 72hr NA Artemia Lot# 38438

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	D1	5	5	5			
	B	D2	5	5	5			
	C	D3	5	5	5			
	D	D4	5	5	5			
100%	A	D5	5	5	5			
	B	D6	5	5	5			
	C	D7	5	5	5			
	D	D8	5	5	5			
dechlor Ctrl	A	D9	5	5	5			
	B	D10	5	5	5			
	C	D11	5	5	5			
	D	D12	5	5	5			
dechlor 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 / BH		Checked by:	JD	JD	JD			

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

Test Results:

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

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

If Calculated: 95% CI______ Method______

Comments: Ø% mortality in the dechlorinated aliquot test. MF 5-2-08 LC50 = >100%

dechlor = dechlorinated
CTRL = control

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 # : 1098133 **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	M		M			
pH (S.U.)	7.9		7.9			
Temperature °C	24.0		24.4			
Dissolved Oxygen mg/L	7.2		7.1			
Conductivity (µmhos) mmhos	176		181			
(initials) Measured by:	BA		BA			
(initials) Recorded by:	BA		BA			

Comments: Ctrl = Control

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M			
pH (S.U.)	7.8		8.1			
Temperature °C	24.2		24.3			
Dissolved Oxygen mg/L	7.6		7.2			
Conductivity (µmhos) mmhos	693		731			
(initials) Measured by:	BA		BA			
(initials) Recorded by:	BA		BA			

Comments:

Concentration dechlor ctrl	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M			
pH (S.U.)	8.2		8.0			
Temperature °C	24.0		24.2			
Dissolved Oxygen mg/L	7.8		7.2			
Conductivity (µmhos) mmhos	180		210			
(initials) Measured by:	BA		BA			
(initials) Recorded by:	BA		BA			

Comments: dechlor = dechlorinated

Concentration dechlor 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	M		M			
pH (S.U.)	8.2		8.5			
Temperature °C	24.1		24.5			
Dissolved Oxygen mg/L	7.8		7.1			
Conductivity (µmhos) mmhos	698		732			
(initials) Measured by:	BA		BA			
(initials) Recorded by:	BA		BA			

Comments:

000049

V 2.0 2/24/04

FDEP Biology Laboratory - Bioassay Parameter Bench Sheet

LIMS Sample # : 1098133 **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	8.1			
Temperature °C	24.0	24.5	24.6			
Dissolved Oxygen mg/L	7.6	7.1	7.1			
Conductivity (µmhos) mmhos	273	283	296			
(initials) Measured by:	JD	JD	JD			
(initials) Recorded by:	JD	JD	JD			

Comments: Ctrl = Control

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.)	8.1	8.2	8.4			
Temperature °C	24.6	24.5	24.6			
Dissolved Oxygen mg/L	7.7	7.0	7.0			
Conductivity (µmhos) mmhos	712	709	716			
(initials) Measured by:	JD	JD	JD			
(initials) Recorded by:	JD	JD	JD			

Comments:

Concentration dechlor ctrl	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.0	8.2	8.4			
Temperature °C	24.1	24.6	24.6			
Dissolved Oxygen mg/L	7.7	6.9	6.9			
Conductivity (µmhos) mmhos	277	300	311			
(initials) Measured by:	JD	JD	JD			
(initials) Recorded by:	JD	JD	JD			

Comments: dechlor = dechlorinated

Concentration dechlor 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.1	8.3	8.4			
Temperature °C	24.8	24.6	24.5			
Dissolved Oxygen mg/L	7.8	~~7.6~~ 6.8 JD	~~7.24~~ 6.9 JD			
Conductivity (µmhos) mmhos	710	~~6.8~~ JD 716	724			
(initials) Measured by:	JD	JD	JD			
(initials) Recorded by:	JD	JD	JD			

Comments:

V 2.0 2/24/04

Appendix C. SRT Bench Sheets and Statistical Analysis

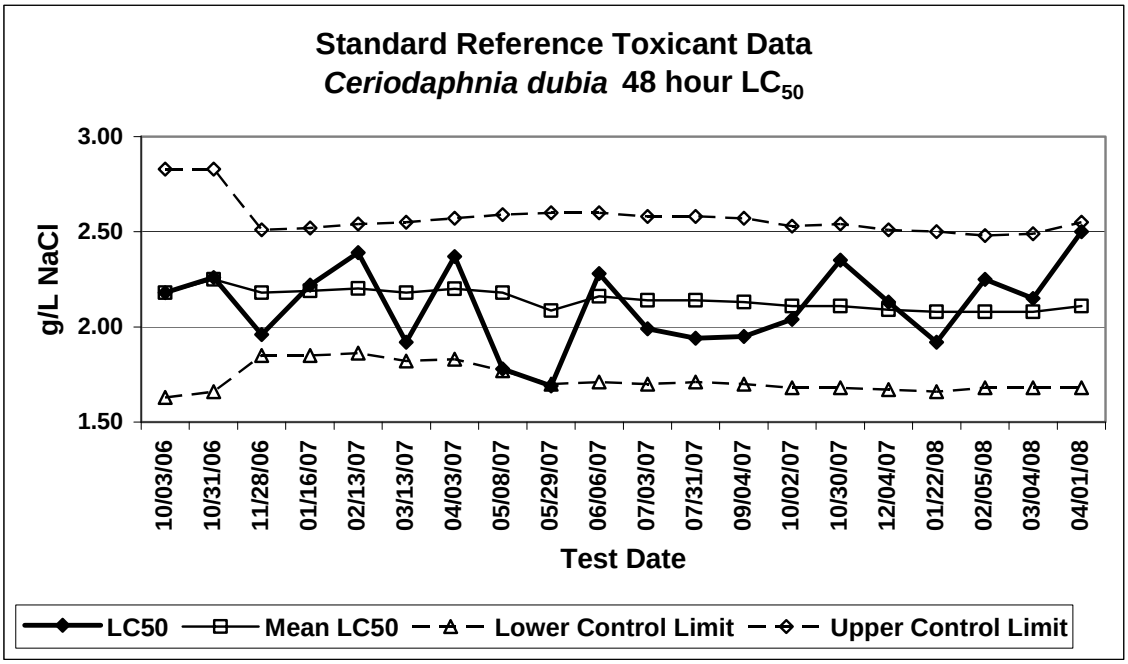
Florida Department of Environmental Protection
Bureau of Laboratories

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
10/03/06	2.18	2.18	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
05/08/07	1.78	2.18	0.21	1.77	2.59
05/29/07	1.69	2.09	0.23	1.70	2.60
06/06/07	2.28	2.16	0.22	1.71	2.60
07/03/07	1.99	2.14	0.22	1.70	2.58
07/31/07	1.94	2.14	0.22	1.71	2.58
09/04/07	1.95	2.13	0.22	1.70	2.57
10/02/07	2.04	2.11	0.21	1.68	2.53
10/30/07	2.35	2.11	0.21	1.68	2.54
12/04/07	2.13	2.09	0.20	1.67	2.51
01/22/08	1.92	2.08	0.20	1.66	2.50
02/05/08	2.25	2.08	0.20	1.68	2.48
03/04/08	2.15	2.08	0.20	1.68	2.49
04/01/08	2.50	2.11	0.22	1.68	2.55

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

CV = 10.29
EPA reference 75th quartile CV = 29%



Appendix C. (continued)

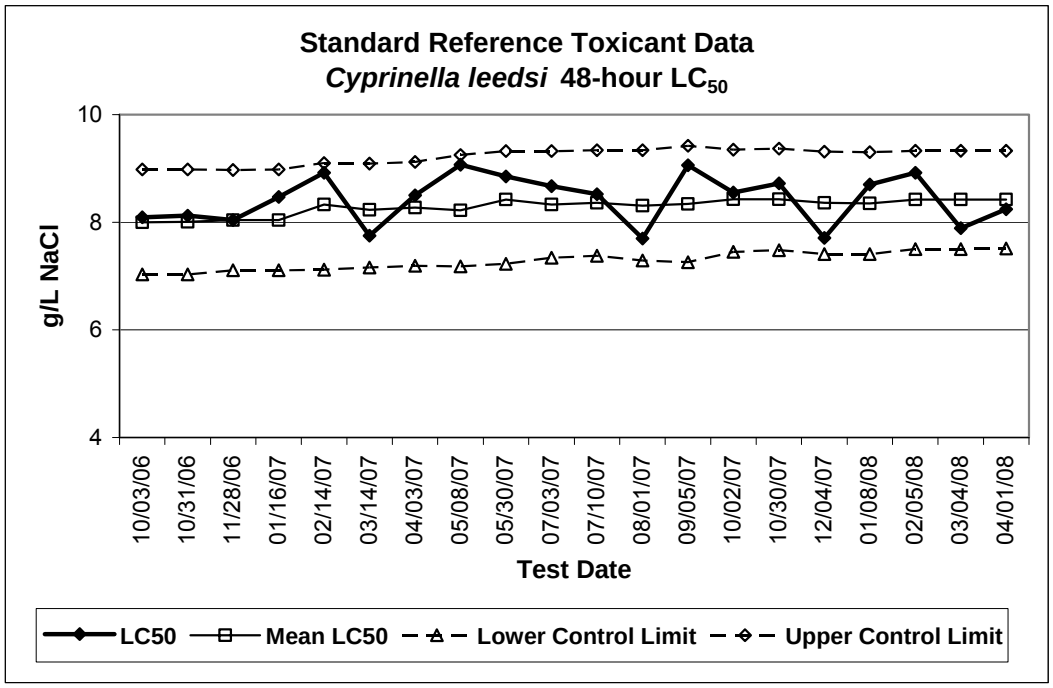
Florida Department of Environmental Protection
Bureau of Laboratories

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
10/03/06	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	0.20	7.11	8.98
02/14/07	8.92	8.33	0.37	7.12	9.10
03/14/07	7.75	8.23	0.41	7.16	9.09
04/03/07	8.50	8.27	0.39	7.19	9.12
05/08/07	9.07	8.22	0.52	7.18	9.25
05/30/07	8.85	8.42	0.46	7.23	9.32
07/03/07	8.67	8.33	0.50	7.34	9.32
07/10/07	8.52	8.36	0.49	7.38	9.34
08/01/07	7.7	8.31	0.51	7.29	9.34
09/05/07	9.06	8.34	0.54	7.26	9.42
10/02/07	8.55	8.43	0.47	7.45	9.35
10/30/07	8.72	8.43	0.47	7.48	9.37
12/04/07	7.71	8.36	0.47	7.41	9.31
01/08/08	8.7	8.35	0.47	7.41	9.30
02/05/08	8.92	8.42	0.46	7.50	9.33
03/04/08	7.89	8.42	0.46	7.50	9.33
04/01/08	8.24	8.42	0.45	7.51	9.33

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

CV = 5.4
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* 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 #: DMW / 4.1.08
Toxicant/ Batch#: NaCl / 3-3108 4.1.08 SD

Test Beginning: Date: 4.1.08 Time: 13:15
Test Ending: Date: 4.5.08 Time: 11:30

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	<0.05	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	90	Hach	BA
Hardness (mg.L as $CaCO_3$):	81	Hach	BA
Total Ammonia (mg/L as N):	<0.017	Denver	BE
Salinity (ppth):	<1	Mettler	BA

Organism Batch #/ Age: 12-07i <24hrs
Feeding: Prior to test / Prior to renewal / Daily
Food: YCT / *P.subcapitata* Artemia: Lot # —
Food Batch: 7-26-07 1-31-08 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 (48 hr / 72 hr / 96 hr)	pH (SU) 0 hr / 24 hr / 48 hr (48 hr / 72 hr / 96 hr)	Temperature (°C) 0 hr / 24 hr / 48 hr (48 hr / 72 hr / 96 hr)	D.O. (mg/L) 0 hr / 24 hr / 48 hr (48 hr / 72 hr / 96 hr)	Uncorrected Conductivity µmhos/cm mmhos/cm 0 hr / 24 hr / 48 hr (48 hr / 72 hr / 96 hr)
Control	A	A	5 / 5 / 5	7.9 / — / 8.0	24.0 / — / 24.0	7.8 / — / 7.0	0.172 / — / 0.183
	B	B	5 / 5 / 5				
	C	C	5 / 5 / 5				
	D	D	5 / 5 / 5				
1.5	A	A	5 / 5 / 5	8.0 / — / 7.9	24.0 / — / 24.0	7.8 / — / 7.1	2.11 / — / 3.07
	B	B	5 / 5 / 5				
	C	C	5 / 5 / 5				
	D	D	5 / 5 / 5				
2.0	A	A	5 / 5 / 5	8.1 / — / 7.9	24.0 / — / 24.0	7.5 / — / 7.0	3.86 / — / 4.02
	B	B	5 / 5 / 5				
	C	C	5 / 5 / 5				
	D	D	5 / 5 / 5				
2.5	A	A	5 / 5 / 2 3D	8.1 / — / 7.9	24.1 / — / 24.0	7.7 / — / 6.9	4.71 / — / 4.93
	B	B	5 / 5 / 3 2D				
	C	C	5 / 5 / 3 2D				
	D	D	5 / 4 1D / 3 1D				
3.0	A	A	5 / 3 2D / 0 3D	8.1 / — / 7.9	24.1 / — / 24.0	7.6 / — / 6.8	5.51 / — / 5.7
	B	B	5 / 4 1D / 0 4D				
	C	C	5 / 3 2D / 0 3D				
	D	D	5 / 4 1D / 0 4D				
4.0	A	A	5 / 0 5D / —	8.1 / 8.0 / —	24.2 / 24.0 / —	7.7 / 7.7 / —	7.25 / 7.19 / —
	B	B	5 / 0 5D / —				
	C	C	5 / 0 5D / —				
	D	D	5 / 0 5D / —				
	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
Bruce Nash
James Daniel
Marshall Faircloth

Loretta C. Wolfe
REVIEWER

Concentrations prepared by: BA
Loading verified by: JD
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min 24.1 max 24.6 mean 24.4
Incubator # ___ min. ___ max. ___ mean ___
Room B248 min. 24.6 max 25.5 mean 25.0

Comments:

Statistics: Method: Spearman-Karber
48 / 96 hour LC_{50}: 2.5
95% Confidence Interval: lower 2.39 upper 2.62

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PAGE

revised 08/24/06 SP

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 H_2O / 3,3108
Toxicant/ Batch#: NaCl / 3,3108

Test Beginning: Date: 4.1.08 Time: 1500
Test Ending: Date: 4.5.08 Time: 1200

Water Quality Parameters	Diluent	Method	Initials
Total Residual Cl_2 (mg/L):	2003	Hach	JD
Alkalinity (mg/L as $CaCO_3$):	149	Hach	BA
Hardness (mg.L as $CaCO_3$):	133	Hach	BA
Total Ammonia (mg/L as N):	<0.017	Denver	MF
Salinity (ppth):	<1	Mettler	JD

Organism Batch #/ Age: 4.1.08 / 1324
Feeding: (Prior to test / Prior to renewal) / Daily
Food: YCT *P.subcapitata* Artemia: Lot # 651-536-90 GSL
Food Batch: — / — 0hr 51-68 24hr — 48hr 59-68 72hr ____
Chamber size: 1000 mL
Test volume: 500 mL per replicate

Conc.			Number Live			pH (SU)			Temperature (° C)			D.O. (mg/L)			Uncorrected Conductivity µmhos/cm (mmhos/cm)		
µg/L mg/L	Rep.	Chamber #	0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr	0 hr / 48 hr	24 hr / 72 hr	48 hr / 96 hr
Control	A	B1	10	10	10	8.0		8.2	24.0		24.7	7.7		7.2	0.273		0.282
	B	B2	10	10	10		8.2			24.3			7.1			0.278	
	C																
	D																
6	A	B3	10	10	10	8.0		8.1	24.0		24.7	7.6		6.9	11.6		11.5
	B	B4	10	10	10		8.1			24.4			7.0			11.5	
	C																
	D																
7	A	B5	10	10	10	8.0		8.1	24.0		24.7	7.6		6.8	13.5		13.3
	B	B6	10	10	9[D]		8.0			24.6			6.5			13.2	
	C																
	D																
8	A	B7	10	7[3D]	7	8.0		8.1	24.0		24.9	7.6		6.6	15.5		15.2
	B	B8	10	6[4D]	6		8.0			24.4			6.4			15.0	
	C																
	D																
9	A	B9	10	3[7D]	3	8.0		8.1	24.0		24.6	7.6		6.6	16.8		16.7
	B	B10	10	1[9D]	1		8.0			24.1			6.5			16.4	
	C																
	D																
10	A	B11	10	0[10D]	—	7.9			24.0			7.6			18.7		
	B	B12	10	0[10D]	—		8.0			24.5			6.4			18.3	
	C																
	D																
	A																
	B																
	C																
	D																
Loaded / measured by:			BS	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	DE
Recorded by:			JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JD	JA	DE	DE

Investigators' Signatures
James Daniel
Brent Reeves
Marshall Faircloth
Loretta C. Wolfe
REVIEWER

Concentrations prepared by: JD
Loading verified by: MF
Light Intensity: 50-100 Ft. candles
Photoperiod: 16 hours Light / 8 hours dark
Temperature Range °C:
Incubator # 2 min. 24.1 max. 26.6 mean 26.4
Incubator # ___ min. ___ max. ___ mean ___
Room B246 min. 24.6 max. 25.5 mean 25.0

Comments:

Statistics: Method: Spearman-Karber
48 / 96 hour LC_{50}: 8.24
95% Confidence Interval: lower 7.15 upper 9.55

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Appendix C. (continued)

DATE: 4-1-08 DURATION: 48 hr TOXICANT: NaCl
SPECIES: *Ceriodaphnia dubia*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
.00	20	0
1.50	20	0
2.00	20	0
2.50	20	9
3.00	20	20
4.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 2.50
95% LOWER CONFIDENCE: 2.39
95% UPPER CONFIDENCE: 2.62

DATE: 4-1-08 DURATION: 48 hr TOXICANT: NaCl
SPECIES: *Cyprinella leedsi*

RAW DATA: Concentration (g/L)	Number Exposed	Mortalities
.00	20	0
6.00	20	0
7.00	20	1
8.00	20	7
9.00	20	16
10.00	20	20

SPEARMAN-KARBER TRIM: .00%

SPEARMAN-KARBER ESTIMATES: LC50: 8.24
95% LOWER CONFIDENCE: 7.95
95% UPPER CONFIDENCE: 8.55

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: 3/31/08

Shipped to: FDEP

P.O. No: N/A

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia	150	4 DAYS	MS080327	25°C	20‰
Menidia beryllina	150	12DAYS	SS080319	25°C	20‰
Cyprinella leedsi	200	12DAYS	CL080319	25°C	
Pimephales promelas	150	8 DAYS	FM080323	25°C	

Packed by: [signature]

Shipped Via: Fed Ex

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: 4/28/08

Shipped to: FDEP

P.O. No: N/A

Species	Quantity	Age	Brood Number	Temperature	Salinity
Mysidopsis bahia					
Menidia beryllina					
Cyprinella leedsi	100	12 days	CL080416	25°C	
Pimephales promelas					

Packed by: [signature]

Shipped Via: FedEx

Notes: _____

Thank you for your order.

Appendix E. Chemical Analyses performed on the effluent from Napoli's Mobile Home Park Wastewater Treatment Facility Outfall D-001, sampled on April 28, 2008.

Date Sampled	Field ID	Analysis Group	Components	Results	Remarks	Units	MDL	PQL
4/28/2008 14:45	EQUIPMENT BLK	Metals	Zinc	5	U	ug/L	5	20
4/28/2008 14:45	EQUIPMENT BLK	Metals	Selenium	0.5	U	ug/L	0.5	2
4/28/2008 14:45	EQUIPMENT BLK	Metals	Chromium	1	U	ug/L	1	4
4/28/2008 14:45	EQUIPMENT BLK	Metals	Aluminum	60	U	ug/L	60	240
4/28/2008 14:45	EQUIPMENT BLK	Metals	Calcium	0.075	U	mg/L	0.075	0.3
4/28/2008 14:45	EQUIPMENT BLK	Metals	Cadmium	0.02	U	ug/L	0.02	0.08
4/28/2008 14:45	EQUIPMENT BLK	Metals	Magnesium	0.04	U	mg/L	0.04	0.16
4/28/2008 14:45	EQUIPMENT BLK	Metals	Iron	30	U	ug/L	30	120
4/28/2008 14:45	EQUIPMENT BLK	Metals	Nickel	0.25	U	ug/L	0.25	1
4/28/2008 14:45	EQUIPMENT BLK	Metals	Lead	0.2	U	ug/L	0.2	0.8
4/28/2008 14:45	EQUIPMENT BLK	Metals	Copper	0.5	U	ug/L	0.5	2
4/28/2008 14:45	EQUIPMENT BLK	Metals	Silver	0.025	U	ug/L	0.025	0.1
4/28/2008 14:45	EQUIPMENT BLK	Metals	Arsenic	0.5	U	ug/L	0.5	2
4/28/2008 14:45	EQUIPMENT BLK	Nutrients	Total-P	0.02	U	mg P/L	0.02	0.06
4/28/2008 14:45	EQUIPMENT BLK	Nutrients	Kjeldahl Nitrogen	0.08	U	mg N/L	0.08	0.2
4/28/2008 14:45	EQUIPMENT BLK	Nutrients	O-Phosphate-P	0.004	U	mg P/L	0.004	0.01
4/28/2008 14:45	EQUIPMENT BLK	Nutrients	TSS	4	U	mg/L	4	16
4/28/2008 14:45	EQUIPMENT BLK	Nutrients	Ammonia-N	0.01	U	mg N/L	0.01	0.02
4/28/2008 14:45	EQUIPMENT BLK	Nutrients	NO2NO3-N	0.011		mg N/L	0.004	0.01
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Mevinphos	0.21	U	ug/L	0.21	0.84
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Simazine	0.052	U	ug/L	0.052	0.21
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Azinphos Methyl	0.21	U	ug/L	0.21	0.84
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Ethion	0.052	U	ug/L	0.052	0.21
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Naled	0.82	U	ug/L	0.82	3.3
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Metalaxyl	0.26	UJ	ug/L	0.26	1
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Fenamiphos	0.21	U	ug/L	0.21	0.84
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Butylate	0.21	U	ug/L	0.21	0.84
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Metolachlor	0.52	UJ	ug/L	0.52	2.1
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Bromacil	0.21	U	ug/L	0.21	0.84

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Results	Remarks	Units	MDL	PQL
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Atrazine	0.052	U	ug/L	0.052	0.21
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Ametryn	0.052	U	ug/L	0.052	0.21
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Diazinon	0.052	U	ug/L	0.052	0.21
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Chlorpyrifos Ethyl	0.052	U	ug/L	0.052	0.21
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Phorate	0.052	U	ug/L	0.052	0.21
4/28/2008 14:45	EQUIPMENT BLK	Pesticides	Alachlor	0.62	U	ug/L	0.62	2.5
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2,4-Dimethylphenol	10	U	ug/L	10	41
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2,4-Dinitrotoluene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	3,3'-Dichlorobenzidine	41	U	ug/L	41	160
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Acenaphthene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Aldrin	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Benzidine	100	U	ug/L	100	410
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Benzo(b)fluoranthene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Benzo(g,h,i)perylene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Endosulfan II	4.1	U	ug/L	4.1	16
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Naphthalene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	beta-BHC	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	gamma-BHC	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.1	U	ug/L	3.1	12
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	4-Nitrophenol	15	U	ug/L	15	61
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Butyl benzyl phthalate	5.1	U	ug/L	5.1	20
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Fluoranthene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2-Chlorophenol	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	4,4'-DDE	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	4,4'-DDT	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	4-Chloro-3-methylphenol	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Benzo(a)pyrene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1	U	ug/L	1	4.1

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Results	Remarks	Units	MDL	PQL
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Endrin	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Hexachlorobutadiene	3.1	U	ug/L	3.1	12
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Isophorone	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2,4,6-Trichlorophenol	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2,4-Dinitrophenol	15	UJ	ug/L	15	61
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2	U	ug/L	2	8.2
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Anthracene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Benzo(a)anthracene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.1	UJ	ug/L	3.1	12
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Heptachlor epoxide	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Hexachlorobenzene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Pentachlorophenol	3.1	U	ug/L	3.1	12
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2,4-Dichlorophenol	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2-Chloronaphthalene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.1	UJ	ug/L	3.1	12
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Hexachloroethane	3.1	U	ug/L	3.1	12
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2	U	ug/L	2	8.2
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	N-Nitrosodimethylamine	2	UJ	ug/L	2	8.2
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Phenanthrene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Phenol	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	4,4'-DDD	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Di-n-octyl phthalate	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Dieldrin	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Dimethyl phthalate	10	U	ug/L	10	41
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Endosulfan I	4.1	U	ug/L	4.1	16
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Endosulfan sulfate	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Endrin aldehyde	4.1	UJ	ug/L	4.1	16
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Fluorene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2,6-Dinitrotoluene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Acenaphthylene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	15	U	ug/L	15	61

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Results	Remarks	Units	MDL	PQL
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Chrysene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Diethyl phthalate	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Heptachlor	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Pyrene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	alpha-BHC	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	delta-BHC	1.5	U	ug/L	1.5	6.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	2-Nitrophenol	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Benzo(k)fluoranthene	1	U	ug/L	1	4.1
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Di-n-butyl phthalate	5.1	U	ug/L	5.1	20
4/28/2008 14:45	EQUIPMENT BLK	Priority Organic Pollutants	Nitrobenzene	2	U	ug/L	2	8.2
4/28/2008 15:00	FINAL EFFLUENT	AGP/LN	Algal Growth Potential	345		mg DryWt/L	0.3	0.9
4/28/2008 15:00	FINAL EFFLUENT	Chlorophyll/Grain Size/BOD	Chlorophyll-a, Corrected	0.55	U	ug/L	0.55	1.7
4/28/2008 15:00	FINAL EFFLUENT	Chlorophyll/Grain Size/BOD	Phaeophytin-a	0.34	I	ug/L	0.24	0.71
4/28/2008 15:00	FINAL EFFLUENT	Chlorophyll/Grain Size/BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	3		mg/L	0.2	2
4/28/2008 15:00	FINAL EFFLUENT	Overflow	Fecal Coliforms-Membrane Filter	20		Col/100mL	1	
4/28/2008 15:00	FINAL EFFLUENT	Toxicology	Bioassay-Acute-Scrn-FW-Fish,LC50-dechlr	100	L	LC50		
4/28/2008 15:00	FINAL EFFLUENT	Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	L	LC50		
4/28/2008 15:00	FINAL EFFLUENT	Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	L	LC50		
4/28/2008 15:00	FINAL EFFLUENT	Toxicology	Bioassy-Acute-Scrn-FW-Cdubia,LC50-dechlr	100	L	LC50		
4/28/2008 15:00	FINAL EFFLUENT	Metals	Zinc	63		ug/L	5	20
4/28/2008 15:00	FINAL EFFLUENT	Metals	Aluminum	60	U	ug/L	60	240
4/28/2008 15:00	FINAL EFFLUENT	Metals	Calcium	68.4		mg/L	0.075	0.3
4/28/2008 15:00	FINAL EFFLUENT	Metals	Nickel	1.47		ug/L	0.25	1
4/28/2008 15:00	FINAL EFFLUENT	Metals	Lead	0.2	U	ug/L	0.2	0.8
4/28/2008 15:00	FINAL EFFLUENT	Metals	Arsenic	0.5	U	ug/L	0.5	2
4/28/2008 15:00	FINAL EFFLUENT	Metals	Magnesium	12		mg/L	0.04	0.16
4/28/2008 15:00	FINAL EFFLUENT	Metals	Iron	30	U	ug/L	30	120
4/28/2008 15:00	FINAL EFFLUENT	Metals	Selenium	0.5	U	ug/L	0.5	2
4/28/2008 15:00	FINAL EFFLUENT	Metals	Silver	0.025	U	ug/L	0.025	0.1
4/28/2008 15:00	FINAL EFFLUENT	Metals	Chromium	1	U	ug/L	1	4
4/28/2008 15:00	FINAL EFFLUENT	Metals	Copper	6.5		ug/L	0.5	2
4/28/2008 15:00	FINAL EFFLUENT	Metals	Cadmium	0.13		ug/L	0.02	0.08
4/28/2008 15:00	FINAL EFFLUENT	Nutrients	NO2NO3-N	13		mg N/L	0.1	0.25
4/28/2008 15:00	FINAL EFFLUENT	Nutrients	O-Phosphate-P	4.9	A	mg P/L	0.2	0.5
4/28/2008 15:00	FINAL EFFLUENT	Nutrients	TSS	4	U	mg/L	4	16

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Results	Remarks	Units	MDL	PQL
4/28/2008 15:00	FINAL EFFLUENT	Nutrients	Ammonia-N	0.063		mg N/L	0.01	0.02
4/28/2008 15:00	FINAL EFFLUENT	Nutrients	Kjeldahl Nitrogen	1.2		mg N/L	0.16	0.4
4/28/2008 15:00	FINAL EFFLUENT	Nutrients	Total-P	5.3		mg P/L	0.2	0.6
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Metribuzin	0.1	U	ug/L	0.1	0.4
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Butylate	0.2	U	ug/L	0.2	0.8
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Ethion	0.05	U	ug/L	0.05	0.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Norflurazon	0.15	U	ug/L	0.15	0.6
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Parathion Ethyl	0.15	U	ug/L	0.15	0.6
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Atrazine	0.05	U	ug/L	0.05	0.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Simazine	0.05	U	ug/L	0.05	0.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Azinphos Methyl	0.2	U	ug/L	0.2	0.8
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Ethoprop	0.1	U	ug/L	0.1	0.4
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Metalaxyl	0.25	UJ	ug/L	0.25	1
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Mevinphos	0.2	U	ug/L	0.2	0.8
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Parathion Methyl	0.1	U	ug/L	0.1	0.4
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Fenamiphos	0.2	U	ug/L	0.2	0.8
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Diazinon	0.05	U	ug/L	0.05	0.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Bromacil	0.2	U	ug/L	0.2	0.8
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Alachlor	0.6	U	ug/L	0.6	2.4
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Hexazinone	0.1	U	ug/L	0.1	0.4
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Chlorpyrifos Methyl	0.1	U	ug/L	0.1	0.4
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Phorate	0.05	U	ug/L	0.05	0.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Naled	0.8	U	ug/L	0.8	3.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Malathion	0.15	U	ug/L	0.15	0.6
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Metolachlor	0.5	UJ	ug/L	0.5	2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Prometryn	0.15	U	ug/L	0.15	0.6
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Chlorpyrifos Ethyl	0.05	U	ug/L	0.05	0.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Ametryn	0.05	U	ug/L	0.05	0.2
4/28/2008 15:00	FINAL EFFLUENT	Pesticides	Fonofos	0.1	U	ug/L	0.1	0.4
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	1,2,4-Trichlorobenzene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2,6-Dinitrotoluene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2-Chloronaphthalene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2-Nitrophenol	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	4-Bromophenyl phenyl ether	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Aldrin	1.9	U	ug/L	1.9	7.5

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Results	Remarks	Units	MDL	PQL
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Benzidine	120	U	ug/L	120	500
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Bis(2-chloroethoxy)methane	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Butyl benzyl phthalate	6.2	U	ug/L	6.2	25
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Dieldrin	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Endosulfan I	5	U	ug/L	5	20
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Endosulfan sulfate	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Endrin aldehyde	5	UJ	ug/L	5	20
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Hexachlorobutadiene	3.8	U	ug/L	3.8	15
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Phenanthrene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2,4-Dichlorophenol	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	4,4'-DDD	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Acenaphthene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Bis(2-chloroethyl)ether	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Heptachlor epoxide	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Hexachlorocyclopentadiene	3.8	UJ	ug/L	3.8	15
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Hexachloroethane	3.8	U	ug/L	3.8	15
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2-Chlorophenol	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Benzo(b)fluoranthene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Benzo(g,h,i)perylene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Hexachlorobenzene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Nitrobenzene	2.5	U	ug/L	2.5	10
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Pyrene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	4,4'-DDT	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	4-Chlorophenyl phenyl ether	2.5	U	ug/L	2.5	10
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Benzo(a)anthracene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Endrin	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Fluoranthene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	N-Nitrosodi-n-propylamine	2.5	U	ug/L	2.5	10
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Naphthalene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	alpha-BHC	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	gamma-BHC	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2,4,6-Trichlorophenol	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2-Methyl-4,6-dinitrophenol	3.8	U	ug/L	3.8	15
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	4-Nitrophenol	19	U	ug/L	19	75
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Benzo(k)fluoranthene	1.2	U	ug/L	1.2	5

Appendix E. (continued)

Date Sampled	Field ID	Analysis Group	Components	Results	Remarks	Units	MDL	PQL
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Chrysene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Diethyl phthalate	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Pentachlorophenol	3.8	U	ug/L	3.8	15
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	beta-BHC	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2,4-Dinitrophenol	19	UJ	ug/L	19	75
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	4,4'-DDE	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Acenaphthylene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Benzo(a)pyrene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Di-n-butyl phthalate	6.2	U	ug/L	6.2	25
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Dimethyl phthalate	12	U	ug/L	12	50
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Fluorene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Heptachlor	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	delta-BHC	1.9	U	ug/L	1.9	7.5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2,4-Dimethylphenol	12	U	ug/L	12	50
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	3,3'-Dichlorobenzidine	50	U	ug/L	50	200
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	4-Chloro-3-methylphenol	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Anthracene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Bis(2-chloroisopropyl)ether	3.8	UJ	ug/L	3.8	15
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Bis(2-ethylhexyl)phthalate	19	U	ug/L	19	75
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Dibenzo(a,h)anthracene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Endosulfan II	5	U	ug/L	5	20
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Indeno(1,2,3-cd)pyrene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	N-Nitrosodimethylamine	2.5	UJ	ug/L	2.5	10
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Phenol	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	2,4-Dinitrotoluene	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Di-n-octyl phthalate	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Priority Organic Pollutants	Isophorone	1.2	U	ug/L	1.2	5
4/28/2008 15:00	FINAL EFFLUENT	Field Parameter	Dissolved Oxygen	6.08		mg/L		
4/28/2008 15:00	FINAL EFFLUENT	Field Parameter	Temperature	23.5		C		
4/28/2008 15:00	FINAL EFFLUENT	Field Parameter	pH	7.82				
4/28/2008 15:00	FINAL EFFLUENT	Field Parameter	Specific Conductance	687		umhos/cm		

Appendix F. Toxicity Instrument ID

Facility ID: Napoli's MHP WWTF Test Dates: April 29 -May 1, 2008

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	-	

SM-2530B modified to allow use electronic and non-mercury filled thermometers.
Insert other device information in blank spaces(if used). Test ID = Facility or SRTs (acute SRT--Chronic SRT)

V 1.1 6/12/08 MF

The Bioassay of Napoli's MHP WWTF effluent sampled on April 28, 2008. NPDES #FL0043150.

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 4 3 1 5 0 11	12 0 8 0 4 2 8	18 B	19 S	20 1

Remarks

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The Priority Pollutants Analysis of Napoli's MHP WWTF effluent sampled on April 28, 2008. NPDES #FL0043150.

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 4 3 1 5 0 11	12 0 8 0 4 2 8	18 X	19 S	20 1

Remarks

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Biological Analyses of Napoli's MHP WWTF effluent sampled on April 28, 2008. NPDES #FL0043150.

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 4 3 1 5 0 11	12 0 8 0 4 2 8	18 S	19 S	20 1

Remarks

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