

Bioassays of

Fort Myers South Advanced Wastewater Treatment Plant

Lee County

NPDES #FL0021270

Sampled May 17, 2004

September 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Fort Myers South Advanced Wastewater Treatment Plant, 1618 South Drive, Fort Myers, Lee County, Florida, NPDES #FL0021270. Effluent samples for this facility were collected on May 17 and 18, 2004.

Introduction

The Fort Myers South Advanced Wastewater Treatment Plant has a design flow of 12.0 million gallons per day (MGD), and an average monthly flow of 8.18 MGD (January - March 2004). Daily flows recorded on May 17th and 18th, 2004, were 7.14 MGD and 7.03 MGD, respectively. The facility utilizes the Bardenpho® process for wastewater treatment. Treatment consists of influent screening, grit removal, fermentation, first anoxic, aeration, second anoxic, reaeration, secondary clarification, chemical feed, chlorination, and dechlorination for the surface water discharge. Treated effluent discharges into the Class III Marine waters of the Caloosahatchee River Estuary (facility information provided by Kevin Clark, FDEP, South District, Fort Myers).

Methods

One sample was collected every 6 hours for 24 hours from the EFD-01 NPDES sampling point by Kevin Clark, Heath Laufenberg, Jerry Rollins and Chris Baran (City of Fort Myers) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm

The toxicity and algal growth potential tests discussed in this report were performed following internal DEP SOP's TA07_01,TA07_02, and TA08_01 through TA08_07. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp. 96-hr acute screening toxicity tests were conducted per the permit conditions.

Toxicity Test Results

Tests were performed May 19 - 23, 2004.

Sample 1:
Ceriodaphnia dubia 96-hr acute screening bioassay – LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Cyprinella leedsi 96-hr acute screening bioassay – LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Sample 2:
Ceriodaphnia dubia 96-hr acute screening bioassay – LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Cyprinella leedsi 96-hr acute screening bioassay – LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Sample 3:
Ceriodaphnia dubia 96-hr acute screening bioassay – LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Cyprinella leedsi 96-hr acute screening bioassay – LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Sample 4:
Ceriodaphnia dubia 96-hr acute screening bioassay – LC_{50} > 100%, 5% mortality in 100% sample at 96 hours

Cyprinella leedsi 96-hr acute screening bioassay – LC_{50} > 100%, 0% mortality in 100% sample at 96 hours

Bioassay samples did not show toxicity to the test organisms, according to the permit conditions.

See Appendix 1 for bioassay bench sheets.

Algal Growth Potential

The effluent AGP was 13.4 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that Algal Growth Potential (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 the nitrogen concentrations was 11.78 (±20%) mg dry wt/L (Table 1).

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay samples in the laboratory (DW-051704-1BA, DW-051704-3, DW-051704-4, DW-051704-5). Two additional samples were collected for chemical analyses from the EFD-01 NPDES sample point (DW-051704-1, DW-051704-6). Total residual chlorine and total ammonia were detected in sample DW–051704-6 at 1.8 mg/L and 0.05 mg/L, respectively. The concentration of total residual chlorine (1.8 mg/L) exceeded the Marine Water Quality Criteria of < 0.01 mg/L (62-302.530[19], F.A.C.).

Aluminum and silver were detected in sample DW-051704-6 at a level that complied with Class III Marine Water Quality Criteria (62-302 F.A.C.). Copper, lead, and nickel were detected in sample DW-051704-6 at levels between the laboratory method detection limit and the laboratory practical quantitation limit. Atrazine was detected in sample DW-051704-1.

See Table 2 for results of analytes detected in the effluent.

See Appendix 2 for a complete list of chemical analyses performed.

Conclusion

The effluent samples collected from this facility on May 17 and 18, 2004, did not show acute toxicity to either test species during the 96-hour bioassay tests. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters.

The concentration of total residual chlorine (1.8 mg/L) in the effluent exceeded the Marine Water Quality Criterion of < 0.01 mg/L.

Literature Cited

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) for total soluble inorganic nitrogen (TSIN) limitation for the sample of effluent collected from the Fort Myers South Advanced Wastewater Treatment Plant on May 17, 2004.*

Location	AGP (measured)	Predicted AGP (TSIN) ± 20%	Inorganic N:P ratio
Effluent Samples	13.4	11.78 ± 2.356	6.46

Table 2. *Effluent limits, Class III Criteria and chemical data from samples collected from the Fort Myers South Advanced Wastewater Treatment Plant sampled on May 17 and 18, 2004.*

Fort Myers South Advanced Wastewater Treatment Plant	Class III Marine Water Stds	Effluent Limits	Effluent Samples 5/17/04 DW-051704-1BA	Effluent Samples 5/17/04 DW - 051704-3	Effluent Samples 5/18/04 DW - 051704-4	Effluent Samples 5/18/04 DW - 051704-5	DW - 051704-6	DW - 051704-1
Organic Constituents (µg/L)								
Atrazine	-	-	-	-	-	-	-	0.13 I
Metals (µg/L unless otherwise noted)								
Aluminum	≤ 1500	Report	-	-	-	-	197	-
Antimony	≤ 4300	Report	-	-	-	-	4 U	-
Arsenic	≤ 50	Report	-	-	-	-	5 U	-
Cadmium	≤ 9.3	-	-	-	-	-	0.025 U	-
Calcium (mg/L)	-	-	-	-	-	-	46.1	-
Chromium-III	-	-	-	-	-	-	2 U	-
Copper	≤ 3.7	Report	-	-	-	-	1.8 I	-
Iron	≤ 300	Report	-	-	-	-	51 J	-
Lead	≤ 8.5	Report	-	-	-	-	0.13 I	-
Magnesium (mg/L)	-	-	-	-	-	-	10.2	-
Mercury	≤ 0.025	Report	-	-	-	-	0.1 U	-
Nickel	≤ 8.3	Report	-	-	-	-	2.8 I	-
Selenium	≤ 71	-	-	-	-	-	2.8 U	-
Silver	-	Report	-	-	-	-	0.095	-
Zinc	≤ 86	Report	-	-	-	-	35.1	-
Nutrients (mg/L)								
Chloride	-	-	-	-	-	-	150	-
TSS	-	-	-	-	-	-	4 U	-
Ortho-phosphate	-	-	-	-	-	-	0.048	-
Total Phosphorus	-	≤ 1.0	-	-	-	-	0.18	-
Ammonia	-	-	-	-	-	-	0.05	-
Unionized Ammonia	-	Report	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02
Nitrate+Nitrite	-	-	-	-	-	-	0.26	-
Total Kjeldahl Nitrogen	-	-	-	-	-	-	1.1	-
Organic Nitrogen	-	-	-	-	-	-	1.05 c	-
Total Nitrogen	-	≤ 6.0	-	-	-	-	1.36 c	-
Fluoride	≤ 10	-	-	-	-	-	0.49	-
General Physical and Chemical Parameters								
Dissolved Oxygen (mg/L)	≥ 4	≥ 5	8	6.7	5.4	6.3	7	6.8
pH (S.U.)	6.5 - 8.5	6.5 - 8.5	6.8	7	6.8	6.9	7	6.7
Conductivity (umhos/cm)	-	-	-	-	-	-	918	912
Temperature (C)	-	-	28	28	27	27	28.8	29
Hardness (mg/L)	-	-	-	-	-	-	157.1 c	-
Oil & Grease	≤ 5	Report	-	-	-	-	-	1.1I
AGP	-	-	-	-	-	-	-	13.4
MBAS (mg/L)	≤ 0.5	-	-	-	-	-	0.039 U	-
Total Residual Chlorine (mg/L) field	≤ 0.01	-	0.001	0.001	-	-	1.8	-
Total Residual Chlorine (mg/L) lab	≤ 0.01	-	≤ 0.03 U	≤ 0.03 U	≤ 0.03 U	≤ 0.03 U	-	-

Value exceeds the Class III Water Quality Criteria

b - Value is calculated based on hardness

c - calculated value

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J - Estimated value

U - Material analyzed for but not detected; value reported is the minimum detection limit

FDEP Biology Section - Acute 4/24 Screen Bioassay Bench Sheets

Facility: Fort Myers South Altitp

Address: 1618 South Drive

City: Ft. Myers County: Lee

Contact/District: Kevin Clark / South District

NPDES Permit #: FL 0021270

LIMS Job #: 7549 TLH-20040519-09 LIMS Sample #: 754944

Lims Data Entry: 5/27/04 MF Data Entry Verification: 5/28/04 CAP

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.

Light Intensity : 50 - 100 ft. candles.

Photoperiod : 16 hours light 8 hours dark.

Initial sample handling:

SOP#07_01/02

Test 1 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

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

Aeration : yes (no) Initial DO: mg/L Final DO: mg/L Duration: minutes Rate: ~ bubbles/min

Salinity adjusted (Test 1): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

Salinity adjusted (Test 2): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

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

Sample Validation:
Temperature: Shipped ≤6°C (Yes) No Hand Delivered: Cooling (received °C < collected °C) Yes No
Holding Time: ≤36 Hours (Yes) No (Composite-end of collection; grab-when collected; 4 in 24 - time last sample collected)

Sample Collection: (Date: 5-17-04 Time: 1250 pm) Date: 5-18-04 Time: 7:00

Hold Time Start: Date: 5-18-04 Time: 700 pm

Sample: 1 of 4

Comments:
Sample#1 - DW-051704-1 - LIMS # 754944
Sample #2 - DW-051704-3 - LIMS # 754945
Sample #3 - DW-051704-4 - LIMS # 754946
Sample#4 - DW-051704-5 - LIMS # 754947

Temperature Range °C
Incubator # 3 Range 23.0-24.0°C
Room B246: 22.5-24.0°C
Waterbath: N/A

Investigators' Signatures

Christa Pierce
Denise Nickelson
James Daniels
Marshall Faircloth
Julie Eggy
REVIEWER

V.2 2/26/04

Water Quality Parameters	20% DMW	Well Water	Salt Water ASW NSW Test 1	Salt Water ASW NSW Test 2	Moderately Hard Water	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	N/A	N/A	N/A	N/A	N/A	not measured	—		CAP
Lab Total Residual Cl2 (mg/L):	<0.03	<0.03				<0.05	HACH	CAP/DN	MF
Alkalinity (mg/L as $CaCO_3$):	78	134				94.5	HACH	CAP DN	MF
Hardness (mg/L as $CaCO_3$):	87	159				151	HACH	CAP DN	MF
Total Ammonia (mg/L as N):	<0.017	<0.017				<0.097	DENVER	MF	CAP
Salinity (ppt):	<1	<1				<1	YSI	MF	CAP

Page 000073

FDEP Biology Section - - Bioassay Bench Sheet
Survival

19 date corrections MF 7/23/04

LIMS Sample #: 754944 Test #: 1 Test Started: Date 5-18-04 Time: 1400
Organism: C. dubia Test Ended: Date 5-23-04 Time: 1200
Organism Batch: 18 Diluent/ Batch: OMU, 17
Organism Age: 24hr Food: (YCT) P. subcapitata Artemia
Chamber Size 30 mL Batch: 2 24
Test Volume 20 mL Feeding: Prior to test - Prior to renewal - Daily

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A		5	5	5	5	5	5
	B		5	5	5	5	5	5
	C		5	5	5	5	5	5
	D		5	5	5	5	5	5
100%	A		5	5	5	5	5	5
	B		5	5	5	5	5	5
	C		5	5	5	5	5	5
	D		5	5	5	5	5	5
Organisms loaded by: CAP		Checked by:	CAP	DN	CAP	CAP	MF	MF
Loading Verified by: LD		(initials)						

Comments:

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

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

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

000074

Page

V.1 2/23/04

000074

FDEP Biology Section - - Bioassay Bench Sheet

Survival

19 date correction mf 5/23/04

[redacted]

LIMS Sample #: 754944 **Test #:** 2 **Test Started: Date** 5-18-04 **Time:** 1300

Organism: C. dubia **Test Ended: Date** 5-23-04 **Time:** 1200

Organism Batch: 10 **Diluent/ Batch:** Well , N/A

Organism Age: 9 days **Food:** YCT *P. subcapitata* *Artemia*

Chamber Size 1000 **mL** **Batch:** ___ ______ 0194025G

Test Volume 500 **mL** **Feeding:** Prior to test - Prior to renewal - Daily

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	A1	5	5	5	5	5	5
	B	A2	5	5	5	5	5	5
	C	A3	5	5	5	5	5	5
	D	A4	5	5	5	5	5	5
100%	A	A5	5	5	5	5	5	5
	B	A6	5	5	5	5	5	5
	C	A7	5	5	5	5	5	5
	D	A8	5	5	5	5	5	4 1D
Organisms loaded by: SD		Checked by: (initials)	JD	JD	CAP	CAP	MF	MF

Loading Verified by: CAP

Comments:

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

Test Results:

% mortality in 100% sample 5

LC_{50}: >100% If Calculated: 95% CI__________ Method:__________

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

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

Page 000075 V.1 2/23/04

Bioassay Parameters

LIMS Sample # : 754944 **Test # :** 1 **of** 2

TEST SOP: TA07_ 01 **Test Species:** (Ceriodaphnia dubia) *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:_____

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		C	C		A
pH (S.U.)	7.9		7.8	8.0		8.0
Temperature °C	24.0		24.2	24.4		24.4
Dissolved Oxygen mg/L	7.7		7.8	7.4		7.2
Conductivity (µmhos) mmhos	190		185	185		230
(initials) Measured by:	CAP		CAP	CAP		MF
(initials) Recorded by:	CAP		CAP	CAP		MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		C	C		A
pH (S.U.)	6.4		7.5	7.9		8.2
Temperature °C	24.8		24.2	24.4		24.6
Dissolved Oxygen mg/L	CAP 7.3 8.0		7.9	7.9		7.2
Conductivity (µmhos) mmhos	820		950	950		980
(initials) Measured by:	CAP		CAP	CAP		MF
(initials) Recorded by:	CAP		CAP	CAP		MF

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:

Bioassay Parameters

LIMS Sample # : 754944 Test # : 2 of 2

TEST SOP: TA07_02 Test Species: *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.2	8.3	8.3	8.0	8.1	8.0
Temperature °C	24.7	24.7	25.2	24.0	24.7	24.1
Dissolved Oxygen mg/L	7.1	8.2	8.5	8.0	6.9	5.7
Conductivity µmhos / mmhos	260	275	270	260	280	300
(initials) Measured by:	JD	DN	CAP	CAP	DN	MF
(initials) Recorded by:	JD	DN	CAP	CAP	DN	MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	6.8	7.8	8.1	7.5	7.8	7.9
Temperature °C	24.8	24.1	25.0	24.2	24.8	24.2
Dissolved Oxygen mg/L	7.3	8.2	8.6	7.9	6.3	6.5
Conductivity µmhos / mmhos	830	895	820	1005	940	950
(initials) Measured by:	JD	DN	CAP	CAP	DN	MF
(initials) Recorded by:	JD	DN	CAP	CAP	DN	MF

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.1 2/24/04

000077

Page

FDEP Biology Section - Acute 4/24 Definitive Bioassay Bench Sheets

Facility: Ft. Myers South AWWTP

Sample Collection: Date: 5-17-04 Time: 7:00 p.m.

Hold Time Start: Date: 5-18-04 Time: 7:00 pm

LIMS Job #: TLH-2004-05-19-09 **LIMS Sample #:** 754945

Sample: 2 of 4

Lims Data Entry: 5/28/04 MF

Data Entry Verification: 5/28/04 CAP

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

Comments: sample #2:
DW-051704-3 - LIMS# 754945

Test 1 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

SOP # 07_01/02

Initial sample handling:

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

Aeration : yes (no) Initial DO: mg/L Final DO: mg/L Duration: minutes Rate: ~ bubbles/min

Salinity adjusted (Test 1): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

Salinity adjusted (Test 2): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

Dechlorination: yes (no) Sodium Thiosulfate added: ml/L

Water Quality Parameters	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	not measured		—	CAP
Lab Total Residual Cl2 (mg/L):	<0.03	HACH	CAP	MF
Alkalinity (mg/L as $CaCO_3$):	97.5	HACH	DW	MF
Hardness (mg/L as $CaCO_3$):	151	HACH	DW	MF
Total Ammonia (mg/L as N):	<0.017	DENVER	MF	CAP
Salinity (ppt):	<1	YSI	MF	CAP

FDEP Biology Section - - Bioassay Bench Sheet
Survival

5-19-04 CAP

LIMS Sample #: 754945 Test #: 1 Test Started: Date ~~5-18-04~~ Time: 1340
Organism: C. dubia Test Ended: Date 5-23-04 Time: 1200
Organism Batch: 18 Diluent/ Batch: DMW L 17
Organism Age: <24 hrs. Food: (YCT) R. subcapitata Artemia
Chamber Size 30 mL Batch: 2 24
Test Volume 20 mL Feeding: (Prior to test) - (Prior to renewal) - Daily

Concentration	Replicate	Chamber #	0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	A9	5	5	5	5	5	5
	B	A10	5	5	5	5	5	5
	C	A11	5	5	5	5	5	5
	D	A12	5	5	5	5	5	5
100%	A	A13	5	5	5	5	5	5
	B	A14	5	5	5	5	5	5
	C	A15	5	5	5	5	5	5
	D	A16	5	5	5	5	5	4 1m
Organisms loaded by: CAP		Checked by: (initials)	CAP	DN	CAP	CAP	MF	MF

Loading Verified by: JJ

Comments:

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

Test Results:
% mortality in 100% sample 5
LC_{50}: >100% If Calculated: 95% CI______ Method:______

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

Page 000080 V.1 2/23/04

FDEP Biology Section - - Bioassay Bench Sheet
Survival

5-19-04 (CAP)

LIMS Sample #: 754945 Test #: 2 Test Started: Date 5-18-04 Time: 1315
Organism: C. leedsi Test Ended: Date 5-23-04 Time: 1200
Organism Batch: 10 Diluent/ Batch: Well, N/A
Organism Age: 9 days Food: YCT *P. subcapitata* (Artemia) 019402 5 a
Chamber Size 1000 mL Batch:
Test Volume 500 mL Feeding: (Prior to test) - (Prior to renewal) - Daily

Concentration	~~Replicate~~ chamber #	~~Chamber #~~ replicate # (CAP)	0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A9	A	5	5	5	5	5	5
	A10	B	5	5	5	5	5	5
	A11	C	5	5	5	5	5	5
	A12	D	5	5	5	5	5	5
100%	A13	A	5	5	5	5	5	5
	A14	B	5	5	5	5	5	5
	A15	C	5	5	5	5	5	5
	A16	D	5	5	5	5	5	5

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

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

Test Results:

% mortality in 100% sample 0

LC_{50}: >100% If Calculated: 95% CI________ Method:________

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

000081

Page V.1 2/23/04

000085

Bioassay Parameters

LIMS Sample # : 754945 Test # : 1 of 2

TEST SOP: TA07_01_ Test Species: (Ceriodaphnia dubia) Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina Other:_____

V.1 2/24/04

Concentration CRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	/	C	C	/	A
pH (S.U.)	8.0	/	7.8	8.0	/	8.2
Temperature °C	24.5	/	24.2	24.4	/	24.8
Dissolved Oxygen mg/L	6.7	/	7.4	7.6	/	7.1
Conductivity µmhos mmhos	190	/	195	190	/	195
(initials) Measured by:	CAP	/	CAP	CAP	/	MF
(initials) Recorded by:	CAP	/	CAP	CAP	/	MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	/	C	C	/	A
pH (S.U.)	6.9	/	7.9	7.9	/	8.1
Temperature °C	24.7	/	24.2	24.4	/	24.5
Dissolved Oxygen mg/L	7.3	/	7.3	7.4	/	7.1
Conductivity µmhos mmhos	820	/	840	930	/	940
(initials) Measured by:	CAP	/	CAP	CAP	/	MF
(initials) Recorded by:	CAP	/	CAP	CAP	/	MF

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.1 2/24/04

Bioassay Parameters 000081

LIMS Sample # : 754945 **Test # :** 2 of 2

TEST SOP: TA07_ 02 **Test Species:** *Ceriodaphnia dubia* (*Cyprinella leedsi*) *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:

V.1 2/24/04

Concentration: CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D DN	A
pH (S.U.)	8.1	8.2	8.4	8.0	7.80	8.1
Temperature °C	24.4	24.5	25.3	24.2	24.4	24.3
Dissolved Oxygen mg/L	7.1	8.5	8.6	7.9	6.3	6.4
Conductivity (µmhos mmhos) JD	260	270	280	270	270	290
(initials) Measured by: JD		DN	CAP	CAP	DN	MF
(initials) Recorded by: JD		DN	CAP	CAP	DN	MF

Comments:

Concentration: 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	6.9	7.9	8.1	7.5	7.7	7.9
Temperature °C	24.8	24.0	25.1	24.1	24.5	24.4
Dissolved Oxygen mg/L	6.8	8.4	8.5	7.9	6.2	6.7
Conductivity (µmhos mmhos) JD	850	865	880	890	920	940
(initials) Measured by: JD		DN	CAP	CAP	DN	MF
(initials) Recorded by: JD		DN	CAP	CAP	DN	MF

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.1 2/24/04

FDEP Biology Section - Acute 4/24 Definitive Bioassay Bench Sheets

Facility: Ft. Myers South AWWTP

Sample Collection: Date: 5-18-04 Time: 1:00 a.m.

Hold Time Start: Date: 5-18-04 Time: 7:00 a.m.

LIMS Job #: TLH-2004-05-19-09 LIMS Sample #: 754946

Sample: 3 of 4

Lims Data Entry: 5/28/04 MF

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

Data Entry Verification: 5/28/04 CAP

Comments:
Sample #3:
DW-51704-4, LIMS #754946

SOP# 07-01/02

Test 1 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Test 2 validation:
Control survival ≥90%: (Yes) No
Temperature Range ≤3°C: (Yes) No

Initial sample handling:

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

Aeration: yes (no) Initial DO: mg/L Final DO: mg/L Duration: minutes Rate: ~ bubbles/min

Salinity adjusted (Test 1): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

Salinity adjusted (Test 2): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

Dechlorination: yes (no) Sodium Thiosulfate added: ml/L

Water Quality Parameters	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	Not measured		—	CAP
Lab Total Residual Cl2 (mg/L):	<0.03	HACH	CAP	MF
Alkalinity (mg/L as $CaCO_3$):	104	HACH	DN	MF
Hardness (mg/L as $CaCO_3$):	153	HACH	DN	MF
Total Ammonia (mg/L as N):	0.017	DENVER	MF	CAP
Salinity (ppt):	<1	YSI	MF	CAP

FDEP Biology Section - - Bioassay Bench Sheet

Survival

5-19-04 (AP)

LIMS Sample #: 754946 **Test #:** 1

Test Started: Date 5-18-04 **Time:** 1345

Test Ended: Date 5-23-04 **Time:** 1200

Organism: C. dubia

Organism Batch: 18 **Diluent/ Batch:** DMW / 17

Organism Age: <24 hrs **Food:** (YCT) *P. subcapitata* *Artemia*

Batch: 2 / 24

Chamber Size 30 **mL**

Test Volume 20 **mL**

Feeding: Prior to test - Prior to renewal - Daily

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A	/	5	5	5	5	5	5
	B	/	5	5	5	5	5	5
	C	/	5	5	5	5	5	5
	D	/	5	5	5	5	5	5
100%	A	/	5	5	5	5	5	5
	B	/	5	5	5	5	5	5
	C	/	5	5	5	5	5	5
	D	/	5	5	5	5	5	5
Organisms loaded by: CAP		Checked by: (initials)	CAP	CAP	CAP	CAP	MF	MF

Loading Verified by: JO

Comments:

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

Test Results:

% mortality in 100% sample 0

LC_{50}: >100% If Calculated: 95% CI______ Method:______

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

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

Page 000086

V.1 2/23/04

FDEP Biology Section - - Bioassay Bench Sheet

Survival

5-19-04 (CAP)

LIMS Sample #: 754946 **Test #:** 2 **Test Started: Date** ~~5-18-04~~ **Time:** 1320

Organism: C. dubia **Test Ended: Date** 5-23-04 **Time:** 1200

Organism Batch: 10 **Diluent/ Batch:** Well / N/A

Organism Age: 9 days **Food:** YCT *P. subcapitata* (*Artemia*)

Chamber Size 1000 **mL** **Batch:** ___ ___ 0194025G

Test Volume 500 **mL** **Feeding:** (Prior to test) - (Prior to renewal) - Daily

Concentration	Chamber # (~~Replicate~~)	Replicate # (~~Chamber #~~) (CAP)	Test Hour: 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A17	A	5	5	5	5	5	5
	A18	B	5	5	5	5	5	5
	A19	C	5	5	5	5	5	5
	A20	D	5	5	5	5	5	4 1 D
100%	A21	A	5	5	5	5	5	5
	A22	B	5	5	5	5	5	5
	A23	C	5	5	5	5	5	5
	A24	D	5	5	5	5	5	5
Organisms loaded by: JD		Checked by: (initials)	JD	DN	CAP	CAP	MF	MF

Loading Verified by: CAP

Comments:

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

Test Results:

% mortality in 100% sample 0

LC_{50}: >100% If Calculated: 95% CI__________ Method:__________

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

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

Bioassay Parameters

LIMS Sample # : 754946 **Test # :** 1 **of** 2

TEST SOP: TA07_ 01 **Test Species:** *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		C	C		A
pH (S.U.)	7.9		7.8	8.0		8.2
Temperature °C	24.2		24.2	24.3		24.0
Dissolved Oxygen mg/L	6.7		7.0	7.4		7.1
Conductivity µmhos mmhos	190		195	190		205
(initials) Measured by:	CAP		CAP	CAP		MF
(initials) Recorded by:	CAP		CAP	CAP		MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		C	C		A
pH (S.U.)	6.8		7.0	7.9		8.2
Temperature °C	24.0		24.0	24.3		24.3
Dissolved Oxygen mg/L	7.3		7.1	7.5		7.2
Conductivity µmhos mmhos	800		865	940		935
(initials) Measured by:	CAP		CAP	CAP		MF
(initials) Recorded by:	CAP		CAP	CAP		MF

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.1 2/24/04

Bioassay Parameters 000080

LIMS Sample #: 254946 Test #: 2 of 2

TEST SOP: TA07_02 Test Species: *Ceriodaphnia dubia* *Cyprinella leedsi* *Pimephales promelas* *Americamysis bahia* *Menidia beryllina* Other:

Concentration CRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.7	7.7	8.4	8.1	8.2	8.3
Temperature °C	24.2	24.2	24.6	24.2	24.5	24.3
Dissolved Oxygen mg/L	6.9	8.7	8.8	8.2	6.7	7.4
Conductivity µmhos mmhos	260	290	300	265	275	295
(initials) Measured by:	JD	DN	CAP	CAP	DN	MF
(initials) Recorded by:	JD	DN	CAP	CAP	DN	MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	6.9	8.1	8.1	7.5	7.8	8.0
Temperature °C	24.3	24.1	24.4	24.3	24.5	24.0
Dissolved Oxygen mg/L	7.1	8.4	8.8	7.9	5.7	7.0
Conductivity µmhos mmhos	830	865	860	880	915	955
(initials) Measured by:	JD	DN	CAP	CAP	DN	MF
(initials) Recorded by:	JD	DN	CAP	CAP	DN	MF

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.1 2/24/04

FDEP Biology Section - Acute 4/24 Definitive Bioassay Bench Sheets

Facility: Ft Myers South AWWTP

Sample Collection: Date: 5-18-04 Time: 7:00 A.M.

LIMS Job #: TLH-20405-19-09 LIMS Sample #: 754947

Hold Time Start: Date: 5-18-04 Time: 7:00 A.M.

Sample: 4 of 4

Lims Data Entry: 5/28/04 MF

Data Entry Verification: 5/28/04 CAP

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

Comments:

Sample #4:
DW-051704-5, LIMS#754947

Test 1 validation:

Control survival ≥90%: (Yes) No

Temperature Range ≤3°C: (Yes) No

Test 2 validation:

Control survival ≥90%: (Yes) No

Temperature Range ≤3°C: (Yes) No

SOP #07-01/02

Initial sample handling:

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

Aeration: yes (no) Initial DO: mg/L Final DO: mg/L Duration: minutes Rate: ~ bubbles/min

Salinity adjusted (Test 1): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

Salinity adjusted (Test 2): yes (no) Initial Salinity: Final Salinity: Salts Hypersaline brine

Dechlorination: yes (no) Sodium Thiosulfate added: ml/L

Water Quality Parameters	Original Sample	Method	Measured by	Verified by
Field Total Residual Cl2 (mg/L):	not measured		—	CAP
Lab Total Residual Cl2 (mg/L):	<0.03	HACH	CAP	MF
Alkalinity (mg/L as $CaCO_3$):	100	HACH	DN	MF
Hardness (mg/L as $CaCO_3$):	154	HACH	DN	MF
Total Ammonia (mg/L as N):	<0.07	DENVER	MF	CAP
Salinity (ppt):	<1	YSI	MF	CAP

FDEP Biology Section - - Bioassay Bench Sheet
Survival

5-19-04 CP

LIMS Sample #: 754947 Test #: 1 Test Started: Date 5-19-04 Time: 1405
Organism: C. dubia Test Ended: Date 5-23-04 Time: 1200
Organism Batch: 18 Diluent/ Batch: DMW 1 17
Organism Age: <24hr. Food: YCT *P. subcapitata* *Artemia*
Chamber Size 30 mL Batch: 2 26
Test Volume 20 mL Feeding: Prior to test - Prior to renewal - Daily

Concentration	Replicate	Chamber #	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	A		5	5	5	5	5	5
	B		5	5	5	5	5	5
	C		5	5	5	5	5	5
	D		5	5	5	5	5	5
100%	A		5	5	5	5	5	5
	B		5	5	5	5	5	5
	C		5	5	5	5	5	5
	D		5	5	5	5	4 ID	4
Organisms loaded by: CP		Checked by:	CP	CP	CP	CP	MF	MF
Loading Verified by: JD		(initials)						

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

Test Results:
% mortality in 100% sample 5
LC_{50}: > 100% If Calculated: 95% CI Method:

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

Page 000092 V.1 2/23/04

FDEP Biology Section - - Bioassay Bench Sheet

Survival

5-19-04 CAP

LIMS Sample #: 754947 Test #: 2 Test Started: Date ~~5-18-04~~ Time: 1330

Organism: C. dubia Test Ended: Date 5-23-04 Time: 1200

Organism Batch: 10 Diluent/ Batch: Well, N/A

Organism Age: 9 days Food: YCT *P. subcapitata* (*Artemia*)

Chamber Size 1000 mL Batch: ___ ___ 0194025 4

Test Volume ______ mL Feeding: (Prior to test) - (Prior to renewal) - Daily

Concentration	Chamber # (~~Replicate~~)	Replicate # (~~Chamber #~~) CAP	Test Hour 0 hr	24 hr	48 hr BR	48 hr AR	72 hr	96 hr
CTRL	B17	A	5	5	5	5	5	5
	B18	B	5	5	5	5	5	5
	B19	C	5	5	5	5	5	5
	B20	D	5	5	5	5	5	5
100%	B21	A	5	5	5	5	5	5
	B22	B	5	5	5	5	5	5
	B23	C	5	5	5	5	5	5
	B24	D	5	5	5	5	5	5
Organisms loaded by: SD		Checked by: (initials)	SD	DN	CAP	CAP	MF	MF

Loading Verified by: CAP

Comments:

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

Test Results:

% mortality in 100% sample 0

LC_{50}: >100% If Calculated: 95% CI ________ Method: ________

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

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

Page 000093 V.1 2/23/04

Bioassay Parameters

LIMS Sample # : 754947 Test # : 1 of 2

TEST SOP: TA07_ 01 Test Species: (Ceriodaphnia dubia) Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina Other:_____

V.1 2/24/04

Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		C	C		A
pH (S.U.)	7.8		7.7	7.9		8.2
Temperature °C	24.2		24.0	24.2		24.0
Dissolved Oxygen mg/L	7.5		7.0	7.3		7.3
Conductivity (µmhos) mmhos	190		195	190		220
(initials) Measured by:	CAP		CAP	CAP		MF
(initials) Recorded by:	CAP		CAP	CAP		MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		C	C		A
pH (S.U.)	6.8		7.0	7.2		8.2
Temperature °C	24.0		24.1	24.0		24.0
Dissolved Oxygen mg/L	7.5		7.0	7.4		7.4
Conductivity (µmhos) mmhos	865		870	955		1025
(initials) Measured by:	CAP		CAP	CAP		MF
(initials) Recorded by:	CAP		CAP	CAP		MF

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.1 2/24/04

Page 000094

Bioassay Parameters 000094

LIMS Sample #: 754947 Test #: 2 of 2

TEST SOP: TA07_02_ Test Species: *Ceriodaphnia dubia* (*Cyprinella leedsi*) *Pimephales promelas*
Americamysis bahia *Menidia beryllina* Other:

V.1 2/24/04

Concentration CRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.6	7.8	8.4	8.1	8.2	8.1
Temperature °C	24.1	24.0	25.0	24.2	25.0	25.0
Dissolved Oxygen mg/L	6.6	8.4	8.7	7.6	6.1	6.7
Conductivity ~~µmhos~~ ~~mmhos~~	280	270	308	265	280	300
(initials) Measured by:	SD	DN	CAP	CAP	DN	MF
(initials) Recorded by:	SD	DN	CAP	CAP	DN	MF

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C	C	D	A
pH (S.U.)	7.0	7.9	8.1	7.6	7.9	8.0
Temperature °C	24.4	24.1	24.9	24.5	25.4	24.6
Dissolved Oxygen mg/L	6.9	8.5	8.7	8.1	6.9	7.0
Conductivity ~~µmhos~~ ~~mmhos~~	840	860	870	885	945	985
(initials) Measured by:	SD	DN	CAP	CAP	DN	MF
(initials) Recorded by:	SD	DN	CAP	CAP	DN	MF

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.1 2/24/04

Appendix 2. Chemical Analyses performed on the effluent from the Fort Myers South Advanced Wastewater Treatment Plant sampled on May 17 and 18, 2004.

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
5/17/2004 12:34	DW-051704-1	Bio-AGP/LimNut	Algal Growth Potential	13.4	mg DryWt/L		0.1	0.3
5/17/2004 12:34	DW-051704-1	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
5/17/2004 12:34	DW-051704-1	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
5/17/2004 12:34	DW-051704-1	BNA-Water	1,2,4-Trichlorobenzene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	1,2-Dichlorobenzene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	1,3-Dichlorobenzene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	1,4-Dichlorobenzene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	2,4,6-Trichlorophenol	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	2,4-Dichlorophenol	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	2,4-Dimethylphenol	50	ug/L	U	50	200
5/17/2004 12:34	DW-051704-1	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
5/17/2004 12:34	DW-051704-1	BNA-Water	2,4-Dinitrotoluene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	2,6-Dinitrotoluene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	2-Chloronaphthalene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	2-Chlorophenol	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	2-Methyl-4,6-dinitrophenol	3	ug/L	U	3	12
5/17/2004 12:34	DW-051704-1	BNA-Water	2-Nitrophenol	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	3,3'-Dichlorobenzidine	40	ug/L	U	40	160
5/17/2004 12:34	DW-051704-1	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	4-Bromophenyl phenyl ether	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	4-Chloro-3-methylphenol	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.9
5/17/2004 12:34	DW-051704-1	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
5/17/2004 12:34	DW-051704-1	BNA-Water	Acenaphthene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Acenaphthylene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	Anthracene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Benzidine	99	ug/L	U	99	400
5/17/2004 12:34	DW-051704-1	BNA-Water	Benzo(a)anthracene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Benzo(a)pyrene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Benzo(b)fluoranthene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Benzo(g,h,i)perylene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Benzo(k)fluoranthene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Bis(2-chloroethoxy)methane	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Bis(2-chloroethyl)ether	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Bis(2-chloroisopropyl)ether	3	ug/L	U	3	12
5/17/2004 12:34	DW-051704-1	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59
5/17/2004 12:34	DW-051704-1	BNA-Water	Butyl benzyl phthalate	5	ug/L	U	5	20
5/17/2004 12:34	DW-051704-1	BNA-Water	Chrysene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Di-n-butyl phthalate	5	ug/L	U	5	20
5/17/2004 12:34	DW-051704-1	BNA-Water	Di-n-octyl phthalate	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Dibenzo(a,h)anthracene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	Diethyl phthalate	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Dimethyl phthalate	50	ug/L	U	50	200
5/17/2004 12:34	DW-051704-1	BNA-Water	Endosulfan I	4	ug/L	U	4	16
5/17/2004 12:34	DW-051704-1	BNA-Water	Endosulfan II	4	ug/L	U	4	16
5/17/2004 12:34	DW-051704-1	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	Endrin aldehyde	4	ug/L	UJ	4	16
5/17/2004 12:34	DW-051704-1	BNA-Water	Fluoranthene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Fluorene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	Hexachlorobenzene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Hexachlorobutadiene	3	ug/L	U	3	12
5/17/2004 12:34	DW-051704-1	BNA-Water	Hexachlorocyclopentadiene	3	ug/L	UJ	3	12
5/17/2004 12:34	DW-051704-1	BNA-Water	Hexachloroethane	3	ug/L	U	3	12
5/17/2004 12:34	DW-051704-1	BNA-Water	Indeno(1,2,3-cd)pyrene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Isophorone	0.99	ug/L	U	0.99	4

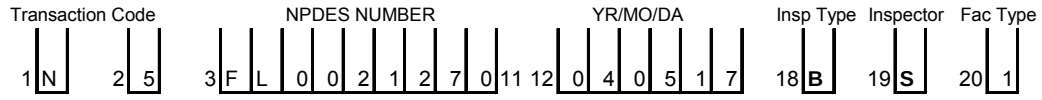
5/17/2004 12:34	DW-051704-1	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.9
5/17/2004 12:34	DW-051704-1	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.9
5/17/2004 12:34	DW-051704-1	BNA-Water	N-Nitrosodiphenylamine	3	ug/L	U	3	12
5/17/2004 12:34	DW-051704-1	BNA-Water	Naphthalene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.9
5/17/2004 12:34	DW-051704-1	BNA-Water	Pentachlorophenol	3	ug/L	U	3	12
5/17/2004 12:34	DW-051704-1	BNA-Water	Phenanthrene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Phenol	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	Pyrene	0.99	ug/L	U	0.99	4
5/17/2004 12:34	DW-051704-1	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
5/17/2004 12:34	DW-051704-1	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
5/17/2004 12:34	DW-051704-1	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
5/17/2004 12:34	DW-051704-1	GC-Water	Atrazine	0.13	ug/L	I	0.05	0.2
5/17/2004 12:34	DW-051704-1	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.05	0.2
5/17/2004 12:34	DW-051704-1	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
5/17/2004 12:34	DW-051704-1	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
5/17/2004 12:34	DW-051704-1	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
5/17/2004 12:34	DW-051704-1	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
5/17/2004 12:34	DW-051704-1	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
5/17/2004 12:34	DW-051704-1	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
5/17/2004 12:34	DW-051704-1	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
5/17/2004 12:34	DW-051704-1	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
5/17/2004 12:34	DW-051704-1	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
5/17/2004 12:34	DW-051704-1	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
5/17/2004 12:34	DW-051704-1	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
5/17/2004 12:34	DW-051704-1	GC-Water	Metalaxyl	0.25	ug/L	UJ	0.25	1
5/17/2004 12:34	DW-051704-1	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
5/17/2004 12:34	DW-051704-1	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
5/17/2004 12:34	DW-051704-1	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
5/17/2004 12:34	DW-051704-1	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
5/17/2004 12:34	DW-051704-1	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
5/17/2004 12:34	DW-051704-1	GC-Water	Parathion Ethyl	0.15	ug/L	UJ	0.15	0.6
5/17/2004 12:34	DW-051704-1	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
5/17/2004 12:34	DW-051704-1	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
5/17/2004 12:34	DW-051704-1	GC-Water	Prometryn	0.15	ug/L	UJ	0.15	0.6
5/17/2004 12:34	DW-051704-1	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
5/17/2004 12:34	DW-051704-1	Overflow	Oil and Grease	1.1	mg/l	I		
5/17/2004 12:34	DW-051704-1	VOC-Water	Bromodichloromethane	0.2	ug/L	U	0.2	1
5/17/2004 12:34	DW-051704-1	VOC-Water	Bromoform	0.5	ug/L	U	0.5	2
5/17/2004 12:34	DW-051704-1	VOC-Water	Chloroform	0.2	ug/L	U	0.2	1
5/17/2004 12:34	DW-051704-1	VOC-Water	Dibromochloromethane	0.2	ug/L	U	0.2	1
5/17/2004 14:16	DW-051704-2	BNA-Water	1,2,4-Trichlorobenzene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	1,2-Dichlorobenzene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	1,3-Dichlorobenzene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	1,4-Dichlorobenzene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	2,4,6-Trichlorophenol	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	2,4-Dichlorophenol	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	2,4-Dimethylphenol	51	ug/L	U	51	200
5/17/2004 14:16	DW-051704-2	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	61
5/17/2004 14:16	DW-051704-2	BNA-Water	2,4-Dinitrotoluene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	2,6-Dinitrotoluene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	2-Chloronaphthalene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	2-Chlorophenol	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	2-Methyl-4,6-dinitrophenol	3	ug/L	U	3	12
5/17/2004 14:16	DW-051704-2	BNA-Water	2-Nitrophenol	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	3,3'-Dichlorobenzidine	40	ug/L	U	40	160
5/17/2004 14:16	DW-051704-2	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	4-Bromophenyl phenyl ether	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	4-Chloro-3-methylphenol	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	8.1
5/17/2004 14:16	DW-051704-2	BNA-Water	4-Nitrophenol	15	ug/L	U	15	61

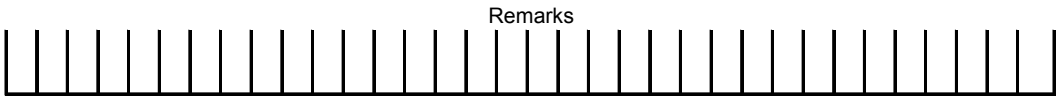
5/17/2004 14:16	DW-051704-2	BNA-Water	Acenaphthene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Acenaphthylene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Aldrin	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	Anthracene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Benzidine	100	ug/L	U	100	400
5/17/2004 14:16	DW-051704-2	BNA-Water	Benzo(a)anthracene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Benzo(a)pyrene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Benzo(b)fluoranthene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Benzo(g,h,i)perylene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Benzo(k)fluoranthene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Bis(2-chloroethoxy)methane	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Bis(2-chloroethyl)ether	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Bis(2-chloroisopropyl)ether	3	ug/L	U	3	12
5/17/2004 14:16	DW-051704-2	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	61
5/17/2004 14:16	DW-051704-2	BNA-Water	Butyl benzyl phthalate	5.1	ug/L	U	5.1	20
5/17/2004 14:16	DW-051704-2	BNA-Water	Chrysene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Di-n-butyl phthalate	5.1	ug/L	U	5.1	20
5/17/2004 14:16	DW-051704-2	BNA-Water	Di-n-octyl phthalate	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Dibenzo(a,h)anthracene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	Diethyl phthalate	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Dimethyl phthalate	51	ug/L	U	51	200
5/17/2004 14:16	DW-051704-2	BNA-Water	Endosulfan I	4	ug/L	U	4	16
5/17/2004 14:16	DW-051704-2	BNA-Water	Endosulfan II	4	ug/L	U	4	16
5/17/2004 14:16	DW-051704-2	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	Endrin aldehyde	4	ug/L	UJ	4	16
5/17/2004 14:16	DW-051704-2	BNA-Water	Fluoranthene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Fluorene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	Hexachlorobenzene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Hexachlorobutadiene	3	ug/L	U	3	12
5/17/2004 14:16	DW-051704-2	BNA-Water	Hexachlorocyclopentadiene	3	ug/L	UJ	3	12
5/17/2004 14:16	DW-051704-2	BNA-Water	Hexachloroethane	3	ug/L	U	3	12
5/17/2004 14:16	DW-051704-2	BNA-Water	Indeno(1,2,3-cd)pyrene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Isophorone	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	8.1
5/17/2004 14:16	DW-051704-2	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	8.1
5/17/2004 14:16	DW-051704-2	BNA-Water	N-Nitrosodiphenylamine	3	ug/L	U	3	12
5/17/2004 14:16	DW-051704-2	BNA-Water	Naphthalene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Nitrobenzene	2	ug/L	U	2	8.1
5/17/2004 14:16	DW-051704-2	BNA-Water	Pentachlorophenol	3	ug/L	U	3	12
5/17/2004 14:16	DW-051704-2	BNA-Water	Phenanthrene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Phenol	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	Pyrene	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	6.1
5/17/2004 14:16	DW-051704-2	GC-Water	Alachlor	0.59	ug/L	U	0.59406	2.38
5/17/2004 14:16	DW-051704-2	GC-Water	Ametryn	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	GC-Water	Atrazine	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	GC-Water	Bromacil	0.2	ug/L	U	0.19802	0.792
5/17/2004 14:16	DW-051704-2	GC-Water	Butylate	0.2	ug/L	U	0.19802	0.792
5/17/2004 14:16	DW-051704-2	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	GC-Water	Chlorpyrifos Methyl	0.099	ug/L	U	0.09901	0.396
5/17/2004 14:16	DW-051704-2	GC-Water	Diazinon	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	GC-Water	Ethion	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	GC-Water	Ethoprop	0.099	ug/L	U	0.09901	0.396
5/17/2004 14:16	DW-051704-2	GC-Water	Fenamiphos	0.2	ug/L	U	0.19802	0.792
5/17/2004 14:16	DW-051704-2	GC-Water	Fonofos	0.099	ug/L	U	0.09901	0.396
5/17/2004 14:16	DW-051704-2	GC-Water	Hexazinone	0.099	ug/L	U	0.09901	0.396
5/17/2004 14:16	DW-051704-2	GC-Water	Malathion	0.15	ug/L	U	0.14851	0.594
5/17/2004 14:16	DW-051704-2	GC-Water	Metalaxyl	0.25	ug/L	UJ	0.24752	0.99

5/17/2004 14:16	DW-051704-2	GC-Water	Metolachlor	0.5	ug/L	U	0.49505	1.98
5/17/2004 14:16	DW-051704-2	GC-Water	Metribuzin	0.099	ug/L	U	0.09901	0.396
5/17/2004 14:16	DW-051704-2	GC-Water	Mevinphos	0.2	ug/L	U	0.19802	0.792
5/17/2004 14:16	DW-051704-2	GC-Water	Naled	0.79	ug/L	UJ	0.79208	3.17
5/17/2004 14:16	DW-051704-2	GC-Water	Norflurazon	0.099	ug/L	U	0.09901	0.396
5/17/2004 14:16	DW-051704-2	GC-Water	Parathion Ethyl	0.15	ug/L	UJ	0.14851	0.594
5/17/2004 14:16	DW-051704-2	GC-Water	Parathion Methyl	0.099	ug/L	U	0.09901	0.396
5/17/2004 14:16	DW-051704-2	GC-Water	Phorate	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	GC-Water	Prometryn	0.15	ug/L	UJ	0.14851	0.594
5/17/2004 14:16	DW-051704-2	GC-Water	Simazine	0.05	ug/L	U	0.049505	0.198
5/17/2004 14:16	DW-051704-2	Mercury-Water	Mercury	0.1	ug/L	U	0.1	0.4
5/17/2004 14:16	DW-051704-2	Metals-Water	Aluminum	5	ug/L	U	5	20
5/17/2004 14:16	DW-051704-2	Metals-Water	Antimony	4	ug/L	U	4	16
5/17/2004 14:16	DW-051704-2	Metals-Water	Arsenic	5	ug/L	U	5	20
5/17/2004 14:16	DW-051704-2	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
5/17/2004 14:16	DW-051704-2	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
5/17/2004 14:16	DW-051704-2	Metals-Water	Chromium	2	ug/L	U	2	8
5/17/2004 14:16	DW-051704-2	Metals-Water	Copper	0.75	ug/L	U	0.75	3
5/17/2004 14:16	DW-051704-2	Metals-Water	Iron	5	ug/L	U	5	20
5/17/2004 14:16	DW-051704-2	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
5/17/2004 14:16	DW-051704-2	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
5/17/2004 14:16	DW-051704-2	Metals-Water	Nickel	2	ug/L	U	2	8
5/17/2004 14:16	DW-051704-2	Metals-Water	Selenium	1	ug/L	U	1	4
5/17/2004 14:16	DW-051704-2	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
5/17/2004 14:16	DW-051704-2	Metals-Water	Zinc	2	ug/L	U	2	8
5/17/2004 14:16	DW-051704-2	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
5/17/2004 14:16	DW-051704-2	Nutrients-Liquid	Fluoride	0.05	mg F/L	U	0.05	0.1
5/17/2004 14:16	DW-051704-2	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
5/17/2004 14:16	DW-051704-2	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
5/17/2004 14:16	DW-051704-2	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
5/17/2004 14:16	DW-051704-2	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
5/17/2004 14:16	DW-051704-2	Overflow	MBAS	0.039	mg/L	U		
5/17/2004 14:16	DW-051704-2	Overflow	Oil and Grease	1.1	mg/l	I		
5/17/2004 14:16	DW-051704-2	VOC-Water	Bromodichloromethane	25	ug/L		0.2	1
5/17/2004 14:16	DW-051704-2	VOC-Water	Bromoform	4.3	ug/L		0.5	2
5/17/2004 14:16	DW-051704-2	VOC-Water	Chloroform	25	ug/L		0.2	1
5/17/2004 14:16	DW-051704-2	VOC-Water	Dibromochloromethane	23	ug/L		0.2	1
5/17/2004 11:50	DW-051704-6	Mercury-Water	Mercury	0.1	ug/L	U	0.1	0.4
5/17/2004 11:50	DW-051704-6	Metals-Water	Aluminum	197	ug/L		5	20
5/17/2004 11:50	DW-051704-6	Metals-Water	Antimony	4	ug/L	U	4	16
5/17/2004 11:50	DW-051704-6	Metals-Water	Arsenic	5	ug/L	U	5	20
5/17/2004 11:50	DW-051704-6	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
5/17/2004 11:50	DW-051704-6	Metals-Water	Calcium	46.1	mg/L		0.05	0.2
5/17/2004 11:50	DW-051704-6	Metals-Water	Chromium	2	ug/L	U	2	8
5/17/2004 11:50	DW-051704-6	Metals-Water	Copper	1.8	ug/L	I	0.75	3
5/17/2004 11:50	DW-051704-6	Metals-Water	Iron	51	ug/L	J	5	20
5/17/2004 11:50	DW-051704-6	Metals-Water	Lead	0.13	ug/L	I	0.05	0.2
5/17/2004 11:50	DW-051704-6	Metals-Water	Magnesium	10.2	mg/L		0.02	0.08
5/17/2004 11:50	DW-051704-6	Metals-Water	Nickel	2.8	ug/L	I	2	8
5/17/2004 11:50	DW-051704-6	Metals-Water	Selenium	2.8	ug/L	U	2.8	11
5/17/2004 11:50	DW-051704-6	Metals-Water	Silver	0.095	ug/L		0.02	0.08
5/17/2004 11:50	DW-051704-6	Metals-Water	Zinc	35.1	ug/L		2	8
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	Ammonia-N	0.05	mg N/L		0.01	0.02
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	Chloride	150	mg Cl/L		1	2.5
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	Fluoride	0.49	mg F/L		0.05	0.1
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	NO2NO3-N	0.26	mg N/L		0.02	0.05
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	N_KJEL_TOT	1.1	mg N/L		0.06	0.2
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	O-Phosphate-P	0.048	mg P/L		0.004	0.01
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	TSS	4	mg/L	U	4	16
5/17/2004 11:50	DW-051704-6	Nutrients-Liquid	Total-P	0.18	mg P/L		0.02	0.06
5/17/2004 11:50	DW-051704-6	Overflow	MBAS	0.039	mg/L	U		
5/17/2004 12:34	TRIP BLANK	VOC-Water	Bromodichloromethane	0.2	ug/L	U	0.2	1
5/17/2004 12:34	TRIP BLANK	VOC-Water	Bromoform	0.5	ug/L	U	0.5	2
5/17/2004 12:34	TRIP BLANK	VOC-Water	Chloroform	0.2	ug/L	U	0.2	1
5/17/2004 12:34	TRIP BLANK	VOC-Water	Dibromochloromethane	0.2	ug/L	U	0.2	1

The Bioassay of the Fort Myers South Advanced Wastewater Treatment Plant effluent sampled on May 17 and 18, 2004, NPDES #FL0021270.

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





The Priority Pollutants Analysis for Bioassay of the Fort Myers South Advanced Wastewater Treatment Plant effluent sampled on May 17, 2004, NPDES #FL0021270.

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