

Bioassays of

Jacksonville Heights Wastewater Treatment Facility

Duval County

NPDES #FL0023671

Sampled May 10, 12, and 14, 2004

September 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Jacksonville Heights Wastewater Treatment Facility, 5957 Tampico Road, Jacksonville, Duval County, Florida, NPDES #FL0023671. Effluent samples for this facility were collected on May 10, 12, and 14, 2004.

Introduction

The Jacksonville Heights Wastewater Treatment Facility (WWTF) has a design flow of 2.5 million gallons per day (MGD) and an average flow of 1.198 MGD (based on data from January - November 2003). The treatment plant consists of influent screens, a 10-foot diameter grit removal unit, two aeration tanks with a total volume of 806,100 gallons, two secondary clarifiers with a total surface area of 4,240 square feet, one traveling-bridge sand filter with a surface area of 80 square feet, and an ultraviolet disinfection system consisting of five modules with 40 lamps each. Residuals are aerobically digested to meet Class B stabilization requirements in two digesters that are operated in parallel with a combined volume of 383,200 gallons. After digestion, residuals are transported to the JEA Buckman WWTF for treatment and disposal. Treated effluent is discharged at location D-001 into a stormwater canal which flows into Fishing Creek, a Class III Fresh Water, then via the Ortega River to the St. John's River. The point of discharge is located approximately at latitude 30° 14' 15" North, longitude 81° 45' 05" West (facility information provided by Kathleen Gerard, FDEP, Northeast District, Jacksonville).

Methods

Samples were collected from the D-001 NPDES sampling point by Patrick O'Connor, Blake Auge, and Tom Kallemeyn (FDEP, Jacksonville, Northeast District) following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm.

Bioassay and analytical chemistry samples were collected on May 10, 12, and 14, 2004. The sample for the AGP test was collected on May 10, 2004.

The toxicity and algal growth potential tests discussed in this report were performed following internal DEP SOP's TA07_05, TA07_09, and TA08_01 through TA08_06. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Chronic screen toxicity tests were performed May 11 - 18, 2004, on 33% effluent per the NPDES permit requirements for this facility.

Toxicity Test Results

Ceriodaphnia dubia chronic screening bioassay – No Observed Effect Concentration = 33%

Pimephales promelas chronic screening bioassay – No Observed Effect Concentration = 33%

See Appendix 1 for bioassay bench sheets.

Algal Growth Potential

The effluent AGP was 119 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 data suggests that the effluent is co-limited. The predicted AGP values based on inorganic nitrogen and total phosphorus concentrations were 133.8 (±20%) and 116.1 (±20%) mg dry wt/L, respectively (Table 2).

See Table 2 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in any of the three bioassay-samples in the laboratory. Total ammonia was detected in the effluent samples collected and preserved for chemical analyses on May 10 and May 14 at concentrations of 0.021 mg/L and 0.015 mg/L, respectively. Based on the temperature and the pH of the effluent when the samples were collected, the calculated unionized ammonia concentrations were < 0.02 mg/L.

Atrazine was detected in the effluent samples collected on May 10 and May 14, 2004, at concentrations that complied with Class III Freshwater Quality Criteria (62-302 F.A.C.). Aluminum, iron, lead, and zinc were detected in each of the three effluent samples at concentrations that complied with Class III Freshwater Quality Criteria (62-302 F.A.C.).

Cadmium and copper were detected in each of the three effluent samples at concentrations between the laboratory method detection limit and the laboratory practical quantitation limit.

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 10, 12, and 14, 2004 did not show chronic toxicity to either test species at the 33% effluent concentration. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters. Several metals and an herbicide were detected at concentrations that complied with Class III Freshwater Quality Criteria.

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 ortho phosphate (OP)and total phosphorus (TP) limitation for the sample of effluent collected from the Jacksonville Heights Wastewater Treatment Plant on May 10, 2004.*

Location	AGP (measured)	Predicted AGP (OP) ± 20%	Predicted AGP (TP) ± 20%	Total N:P ratio
Effluent Samples	119	94.6 ± 18.92	116.1 ± 23.22	16.59

Table 2. *Effluent limits, Class III Criteria and chemical data from samples collected from the Jacksonville Heights Wastewater Treatment Plant sampled on May 10, 12, and 14, 2004.*

Jacksonville Heights Wastewater Treatment Plant	Class III Fresh Water Stds	Effluent Limits	Effluent Samples 5/10/04	Effluent Samples 5/12/04	Effluent Samples 5/14/04
Organic Constituents (µg/L)					
Atrazine	-	-	0.63 J	0.19	-
Metals (µg/L unless otherwise noted)					
Aluminum	-	-	44	41 A	33
Arsenic	≤ 50	-	5 U	5 U	5 U
Cadmium	≤ 1.4 b	-	0.048 I	0.05 I	0.063 I
Calcium (mg/L)	-	-	32.2	33.4 A	32.9
Chromium-III	≤ 108.4 b	-	2 U	2 U	2 U
Copper	≤ 11.8 b	-	1.8 I	1.7 I	1.9 I
Iron	≤ 1000	-	35	39 A	36
Lead	≤ 4.5 b	-	1.2	1.1 A	1.2
Magnesium (mg/L)	-	-	12.6	12.9 A	12.9
Nickel	≤ 66.1 b	-	2 U	2 U	2 U
Selenium	≤ 5	-	1 U	1 U	1 U
Silver	≤ 0.07	-	0.02 U	0.02 U	0.02 U
Zinc	≤ 151.9 b	-	57.6	56.8 A	57
Nutrients (mg/L)					
TSS	-	60	4 U	-	-
Ortho-phosphate	-	Report	0.22	-	-
Total Phosphorus	-	Report	0.27 A	-	-
Ammonia	-	3.2	0.021 A	-	0.015 I
Unionized Ammonia	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02	≤ 0.02
Nitrate+Nitrite	-	Report	3.5	-	-
Total Kjeldahl Nitrogen	-	Report	0.98 A	-	-
Organic Nitrogen	-	Report	0.96 c	-0.02 c	-0.02 c
Total Nitrogen	-	Report	4.48 c	0 c	0 c
General Physical and Chemical Parameters					
Dissolved Oxygen (mg/L)	≥ 5	≥ 6.0	7.3	7.5	8.1
pH (S.U.)	-	6.0 - 8.5	7.5	7.5	7.5
Conductivity (umhos/cm)	≤ 1275	-	554	538	545
Temperature (C)	-	-	28.5	26.9	27.2
BOD (mg/L)	-	-	0.6 I	-	-
Hardness (mg/L)	-	-	132.3 c	136.5 c	135.3 c
AGP (mg DryWt/L)	-	-	119	-	-
Total Residual Chlorine (100% mg/:) lab	≤ 0.01	-	≤ 0.03 U	≤ 0.03 U	≤ 0.03 U

Value exceeds the Class III Fresh Water Quality Criteria

b - Value is calculated based on hardness

c - calculated value

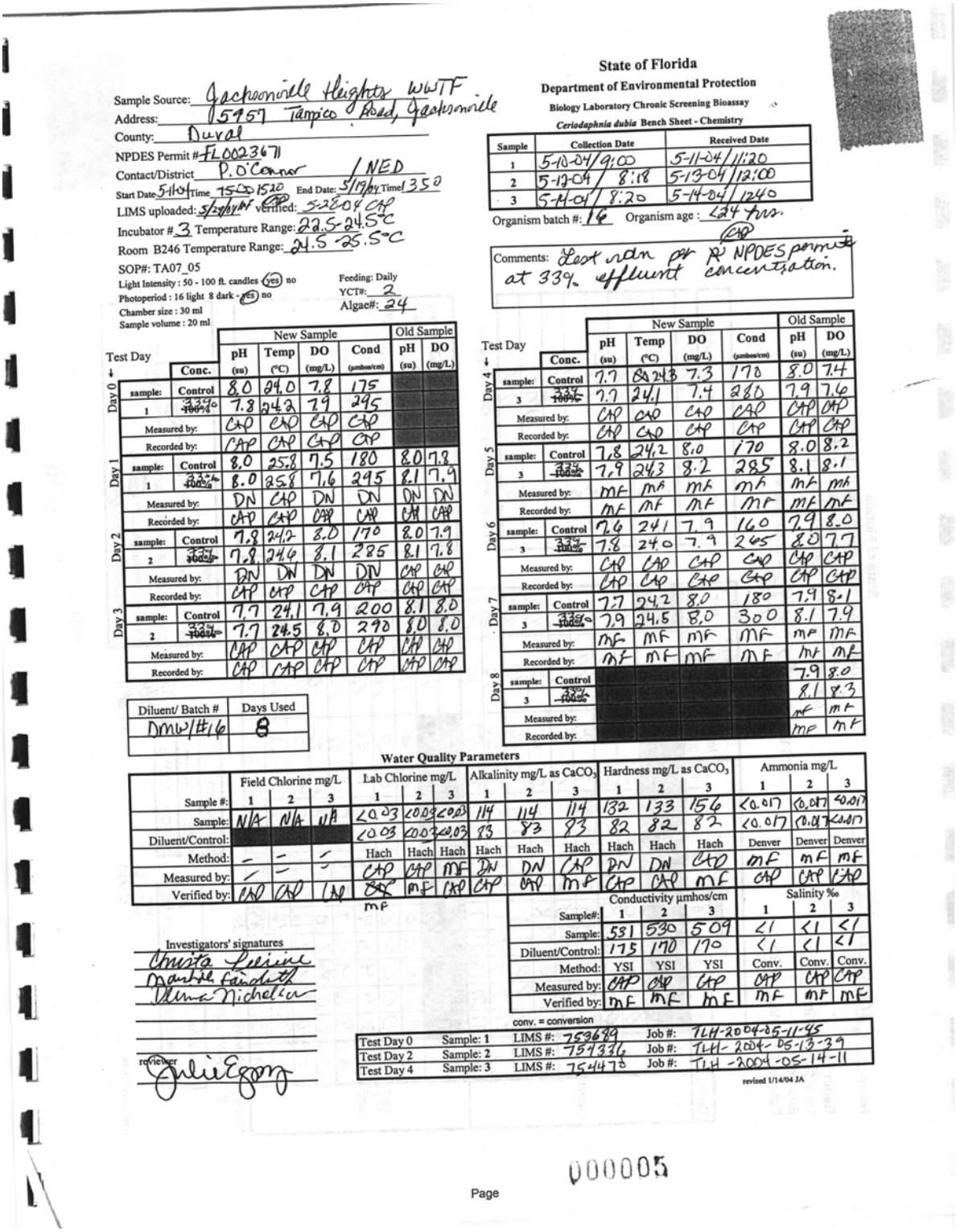
A - Value reported is the mean of two or more determinations

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

J - Estimated value

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

Appendix 1. Bench Sheets



State of Florida
Department of Environmental Protection
Biology Laboratory Chronic Screening Bioassay
Ceriodaphnia dubia Bench Sheet - Chemistry

Sample Source: Jacksonville Heights WWTF
Address: 15957 Tampico Road, Jacksonville
County: Duval
NPDES Permit #: FL0023671
Contact/District: P. O'Connor / NED
Start Date: 5-10-04 Time: 1500 1520 End Date: 5-19-04 Time: 1350
LIMS uploaded: 5-20-04 verified: 5-20-04 CAP
Incubator #: 3 Temperature Range: 22.5-24.5°C
Room B246 Temperature Range: 24.5-25.5°C
SOP#: TA07_05
Light Intensity : 50 - 100 ft. candles (yes) no
Photoperiod : 16 light 8 dark - (yes) no
Chamber size : 30 ml
Sample volume : 20 ml
Feeding: Daily
YCT#: 2
Algae#: 24

Sample	Collection Date	Received Date
1	5-10-04 / 9:00	5-11-04 / 11:20
2	5-17-04 / 8:18	5-13-04 / 12:00
3	5-14-04 / 8:20	5-14-04 / 1240

Organism batch #: 16 Organism age : <24 hrs.

Comments: Last run at NPDES permit at 33% effluent concentration.

Test Day			New Sample pH (su)	Temp (°C)	DO (mg/L)	Cond (µmhos/cm)	Old Sample pH (su)	DO (mg/L)
Day 0	sample:	Control	8.0	24.0	7.8	175		
	1	33% 100%	7.8	24.2	7.9	295		
	Measured by:		CAP	CAP	CAP	CAP		
	Recorded by:		CAP	CAP	CAP	CAP		
Day 1	sample:	Control	8.0	25.8	7.5	180	8.0	7.8
	1	33% 100%	8.0	25.8	7.6	295	8.1	7.9
	Measured by:		DN	CAP	DN	DN	DN	DN
	Recorded by:		CAP	CAP	CAP	CAP	CAP	CAP
Day 2	sample:	Control	7.8	24.2	8.0	170	8.0	7.9
	2	33% 100%	7.8	24.6	8.1	285	8.1	7.8
	Measured by:		DN	DN	DN	DN	CAP	CAP
	Recorded by:		CAP	CAP	CAP	CAP	CAP	CAP
Day 3	sample:	Control	7.7	24.1	7.9	200	8.1	8.0
	2	33% 100%	7.7	24.5	8.0	290	8.0	8.0
	Measured by:		CAP	CAP	CAP	CAP	CAP	CAP
	Recorded by:		CAP	CAP	CAP	CAP	CAP	CAP

Test Day			New Sample pH (su)	Temp (°C)	DO (mg/L)	Cond (µmhos/cm)	Old Sample pH (su)	DO (mg/L)
Day 4	sample:	Control	7.7	24.3	7.3	170	8.0	7.4
	3	33% 100%	7.7	24.1	7.4	280	7.9	7.6
	Measured by:		CAP	CAP	CAP	CAP	CAP	CAP
	Recorded by:		CAP	CAP	CAP	CAP	CAP	CAP
Day 5	sample:	Control	7.8	24.2	8.0	170	8.0	8.2
	3	33% 100%	7.9	24.3	8.2	285	8.1	8.1
	Measured by:		MF	MF	MF	MF	MF	MF
	Recorded by:		MF	MF	MF	MF	MF	MF
Day 6	sample:	Control	7.6	24.1	7.9	160	7.9	8.0
	3	33% 100%	7.8	24.0	7.9	265	8.0	7.7
	Measured by:		CAP	CAP	CAP	CAP	CAP	CAP
	Recorded by:		CAP	CAP	CAP	CAP	CAP	CAP
Day 7	sample:	Control	7.7	24.2	8.0	180	7.9	8.1
	3	33% 100%	7.9	24.5	8.0	300	8.1	7.9
	Measured by:		MF	MF	MF	MF	MF	MF
	Recorded by:		MF	MF	MF	MF	MF	MF
Day 8	sample:	Control					7.9	8.0
	3	33% 100%					8.1	8.3
	Measured by:						MF	MF
	Recorded by:						MF	MF

Diluent/ Batch #	Days Used
DMW/#16	8

Water Quality Parameters

	Field Chlorine mg/L			Lab Chlorine mg/L			Alkalinity mg/L as $CaCO_3$			Hardness mg/L as $CaCO_3$			Ammonia mg/L		
Sample #:	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Sample:	N/A	N/A	N/A	<0.03	<0.03	<0.03	114	114	114	132	133	156	<0.017	<0.017	<0.017
Diluent/Control:				<0.03	<0.03	<0.03	83	83	83	82	82	82	<0.017	<0.017	<0.017
Method:	–	–	–	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Denver	Denver	Denver
Measured by:	–	–	–	CAP	CAP	MF	DN	DN	CAP	DN	DN	CAP	MF	MF	MF
Verified by:	CAP	CAP	CAP	MF	MF	CAP	CAP	CAP	MF	CAP	CAP	MF	CAP	CAP	CAP

	Conductivity µmhos/cm			Salinity ‰		
Sample#:	1	2	3	1	2	3
Sample:	581	530	509	<1	<1	<1
Diluent/Control:	175	170	170	<1	<1	<1
Method:	YSI	YSI	YSI	Conv.	Conv.	Conv.
Measured by:	CAP	CAP	CAP	CAP	CAP	CAP
Verified by:	MF	MF	MF	MF	MF	MF

conv. = conversion

Investigators' signatures
Christa Levine
Maribel Faircloth
Elena Nicholson

reviewer Julie Egon

Test Day 0	Sample: 1	LIMS #: 753689	Job #: TLH-2004-05-11-45
Test Day 2	Sample: 2	LIMS #: 754336	Job #: TLH-2004-05-13-39
Test Day 4	Sample: 3	LIMS #: 754478	Job #: TLH-2004-05-14-11

revised 1/14/04 JA

000005

Page

Facility: Jacksonville Heights

Begin Test:
Date: 5-11-04 Time: 1520
End Test:
Date: 5/19 Time: 1350

State of Florida
Department of Environmental Protection
Biology Laboratory Chronic Screening Bioassay
Ceriodaphnia dubia Bench Sheets - Reproduction

LIMS Sample # ~~753744~~ 753689 (CAP) for sample #1.

Conc.	Day	Replicate Number 1	2	3	4	5	6	7	8	9	10	total # young	~~Live Adult #original~~ organisms	young per adult
Control	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	0	0	0	0	0	0	0	0	0	0	0	10	0
	4	3	5	3	3	3	3	4	2	2	3	29	10	2.9
	5	2	10	4	0	4	6	0	1	4	0	31	10	3.1
	6	5	0	0	8	X	7	4	7	5	5	43	10	4.3
	7	10	0	0	3	1	4	8	7	7	7	46	10	4.6
	8	11	7	9	7	1	0	9	0	0	7	50	10	5.0
	Total	31	22	16	21	7	20	27	17	16	22	199	10	19.9
33% ~~100%~~	0*												10	
	1												10	
	2	0	0	0	0	0	0	0	0	0	0	0	10	0
	3	0	0	0	0	0	0	0	0	0	0	0	10	0
	4	3	4	4	5	4	4	5	4	4	1	38	10	3.8
	5	8	10	9	0	7	7	5	0	0	0	46	10	4.6
	6	1	0	X0	8	0	0	0	5	4	4	22	10	2.2
	7	10	9	8	2	11	9	11	6	7	7	80	10	8.0
	8	13	14	8	0	12	11	8	8	1	7	82	10	8.2
	Total	35	37	29	15	23	31	29	23	16	19	268	10	26.8

*Day 0 = equals test initiation day. 34
X = adult dead

Day	**Counted by:
0	CAP
1	CAP
2	CAP
3	CAP
4	MF
5	MF
6	CAP
7	MF
8	MF

**Initials-signatures on Chemistry page.

Comments:
Day 4 Rep 9 control wrote wrong number should be 0 MF 5-15-04
Day 6 Rep. 3, 33% should be 0. CAP 5-17-04.
Day 8 100% Rep 5 total is 34

T-test Value = 2.10123
T-Table Value 1.94300 df = 18 (19)
MF positive 5/25/04

reproduction
LOEC = —
NOEC = 100% = 33% effluent
MF 5/14/04

Test acceptability
Mean control reproduction 15/female: (yes) no
Third Brood ≥8 in 60% of surviving females: (yes) no
Temperature range ≤3°: (yes) no
Control survival ≥80%: (yes) no

revised 1/14/04 JA

Sample Source: Jacksonville Heights WWTF
Address: 5957 Tampico Road, Jacksonville
County: Duval
NPDES Permit # FL0023671
Contact/District P. O'Connor / NED
Start Date 5-11-04 Time 1330 End Date 5-16-04 Time 10:20
LIMS uploaded: 6-14-04 MF Verified: 6/14/04 CAP
Incubator # 3 Temperature Range: 22.5 - 24.5°C
Room B246 Temperature Range: 24.5 - 25.5°C
SOP#: TA07_09
Light Intensity : 50 - 100 ft. candles (yes) no Feeding: 2 X Daily
Photoperiod : 16 light 8 dark (yes) no Artemia Lot#: 0194025C
Chamber size : 1 L Organism batch #: 14
Sample volume : 500 ml Organism age : <24 hrs.

State of Florida
Department of Environmental Protection
Biology Laboratory Chronic Screening Bioassay
***P. promelas* and *M. beryllina* Bench Sheet**
Chemistry - Survival - Weight

Sample	Collection Date/Time	Received Date/Time
1	5-10-04 / 9:00	5-11-04 / 1120
2	5-12-04 / 8:18	5-13-04 / 1200
3	5-14-04 / 8:20	5-14-04 / 1240

Comments: Last ran per NPDES permit at 33% effluent concentration.
Based on PMSD - This test was valid and did Pass.

Water Quality Parameters

Sample #:	Field Chlorine mg/L 1	2	3	Lab Chlorine mg/L 1	2	3	Alkalinity mg/L as CaCO3 1	2	3	Hardness mg/L as CaCO3 1	2	3	Ammonia mg/L 1	2	3
Sample:	N/A	N/A	N/A	<0.03	<0.03	<0.03	114	114	114	132	133	156	<0.017	<0.017	<0.017
Diluent/Control:				<0.03	<0.03	<0.03	68	68	68	91	91	91	<0.017	<0.017	<0.017
Method:	—	—	—	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Hach	Denver	Denver	Denver
Measured by:	—	—	—	CAP	CAP	MF	DN	DN	MF	DN	DN	m	MF	MF	MF
Verified by:	CAP	CAP	CAP	SP	MF	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP	CAP

Sample#:	Conductivity µmhos-cm 1	2	3	Salinity ‰ 1	2	3
Sample:	531	530	509	<1	<1	<1
Diluent/Control:	315	315	300	<1	<1	<1
Method:	YSI	YSI	YSI	Conv.	Conv.	Conv.
Measured by:	CAP	CAP	MF	CAP	CAP	MF
Verified by:	MF	MF	CAP	MF	MF	CAP

conv. = conversion

	NOEC	LOEC
Survival	~~100%~~	—
Growth	—	~~100%~~

33% MF error 5/12/04

33% MF error 5/12/04

	%CV	PMSD
Control	3.2%	5.59

Diluent Batch #:	Days Used
MHW#11	7

mean wt = fish wt divided by 10
convert g to mg: move decimal 3 places to right

Concentration	Replicate	Test Day 0	1	2	3	4	5	6	7	Pan #	Pan wt. g	Pan + fish g	Growth Fish wt. g	Growth Mean wt. mg
Control	A	10	10	10	10	10	10	10	10	41	0.02535	0.03529	0.00994	0.994
	B	10	10	10	10	10	10	10	10	42	0.02477	0.03474	0.00997	0.997
	C	10	10	10	10	10	10	10	10	43	0.02491	0.03424	0.00933	0.933
	D	10	10	10	10	10	10	10	10	44	0.02535	0.03466	0.00931	0.931
33%	A	10	10	10	10	10	10	10	10	45	0.02446	0.03358	0.00912	0.920
	B	10	10	10	10	10	10	10	10	46	0.02536	0.03372	0.00836	0.846
	C	10	10	10	10	10	10	10	10	47	0.02785	0.03600	0.00815	0.815
	D	10	10	10	10	10	10	10	10	48	0.02505	0.03332	0.00827	0.827
	A													
	B													
	C													
	D													
Loaded by: CAP	Checked by:	CAP	DN	CAP	CAP	SD	CAP	DN		weighed by:	DN	DN		
Verified by: MF														

Investigators' signatures
Christa Lizzini
Sarah Pickard
Dawn McKee
Marshall Faircloth

reviewer Julie Eggy

Drying	
Temperature:	103
Hours:	6

Final Weighing Date: 5/21/04 (A) DN

S-weights at tare	0.00997 @ 0.01000	0.03000 @ 0.03000	
S-weights at final	0.01005 @ 0.01000	0.03003 @ 0.03000	

Tare Pan 1 after Pan 5 ~~0.02554 @ 0.02556~~ Final Pan 1 after Pan 5 0.03532 @ 0.03529
Tare Pan 1 after Pan 8 ~~0.02559 @ 0.02556~~ Final Pan 1 after Pan 8 0.03534 @ 0.03529

Test Day 0	Sample: 1	LIMS #:	752689	Job #:	TLH-2004-05-11-45
Test Day 2	Sample: 2	LIMS #:	754996	Job #:	TLH-2004-05-13-39
Test Day 4	Sample: 3	LIMS #:	754470	Job #:	TLH-2004-05-14-11

(A) Tare Pan 1 after 5 ~~0.02538 @ 0.02556~~ ~~0.02535~~ revised 1/14/04 JA
Tare Pan 1 after 8 0.02536 @ 0.02535
Tare Pan 1 after 5 0.02538 @ 0.02535
(Correction needed because initial weights written were for Navarre Beach) D.N.

State of Florida
Department of Environmental Protection
Biology Laboratory Chronic Screening Bioassay
P. promelas **and** ***M. beryllina*** **Bench Sheet - Chemistry**

Sample Source: Jacksonville Heights

Start Date: 5-11-04 End Date: 5-18-04
Time: ~~1345~~ 1330 CAP Time: 10:00

Test Day ↓		Conc.	New Sample Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Cond (µmhos/cm)	Old Sample Test Rep.	pH (su)	Temp (°C)	DO (mg/L)	Cond (µmhos/cm)
Day 0	sample:	Control	A	7.7	24.6	7.8	315					
	1	~~100%~~ 33%	A	7.7	25.5	7.9	385					
	Measured by:			CAP	CAP	CAP	CAP					
	Recorded by:			CAP	CAP	CAP	CAP					
Day 1	sample:	Control	B	7.3	24.5	6.4	320	B	7.5	24.0	7.4	300
	1	~~100%~~ 33%	B	7.5	24.2	6.4	395	B	7.5	24.5	7.2	375
	Measured by:			CAP	CAP	CAP	CAP		CAP	CAP	CAP	CAP
	Recorded by:			CAP	CAP	CAP	CAP		CAP	CAP	CAP	CAP
Day 2	sample:	Control	C	7.7	24.3	7.9	315	C	7.2	24.4	6.3	320
	2	~~100%~~ 33%	C	7.8	24.3	7.7	390	C	7.2	24.0	6.3	380
	Measured by:			DN	CAP	DN	DN		CAP	CAP	CAP	CAP
	Recorded by:			CAP	CAP	CAP	CAP		DN	DN	DN	DN
Day 3	sample:	Control	D	7.7	24.5	7.5	302	D	7.1	25.2	6.0	346
	2	~~100%~~ 33%	D	7.7	24.9	7.6	375	D	7.4	25.4	6.1	415
	Measured by:			JD	JD	JD	JD		JD	JD	JD	JD
	Recorded by:			JD	JD	JD	JD		JD	JD	JD	JD
Day 4	sample:	Control	A	7.7	24.3	7.6	300	A	7.1	24.7	5.8	315
	3	~~100%~~ 33%	A	7.7	24.1	7.6	375	A	7.3	25.8	5.9	395
	Measured by:			CAP	CAP	CAP	CAP		CAP	CAP	CAP	CAP
	Recorded by:			CAP	CAP	CAP	CAP		CAP	CAP	CAP	CAP
Day 5	sample:	Control	B	7.6	24.4	7.6	300	B	7.5	25.2	7.1	370
	3	~~100%~~ 33%	B	7.6	24.5	7.8	380	B	7.6	25.0	6.6	430
	Measured by:			JD	JD	JD	JD		MF	MF	MF	MF
	Recorded by:			JD	JD	JD	JD		MF	MF	MF	MF
Day 6	sample:	Control	C	7.4	24.3	7.7	280	C	7.0	24.8	6.7	300
	3	~~100%~~ 33%	C	7.4	24.5	7.7	360	C	7.2	24.8	6.6	360
	Measured by:			JD	JD	JD	JD		CAP	CAP	CAP	CAP
	Recorded by:			JD	JD	JD	JD		CAP	CAP	CAP	CAP
Day 7	sample:	Control						D	7.1	24.8	5.4	335
	3	~~100%~~ 33%						D	7.2	24.3	5.1	395
	Measured by:								CAP	CAP	CAP	CAP
	Recorded by:								CAP	CAP	CAP	CAP

Test Rep. = Replicate

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Appendix 2. Chemical Analyses performed on the effluent from the Jacksonville Heights Wastewater Treatment Plant sampled on May 10, 12, and 14, 2004.

DATE SAMPLED	FIELD ID	ANALYSIS GROUP	COMPONENT	RESULT	UNITS	REMARK	MDL	PQL
5/10/2004 9:20	EQ BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	2,4-Dimethylphenol	48	ug/L	UJ	48	190
5/10/2004 9:20	EQ BLANK	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
5/10/2004 9:20	EQ BLANK	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
5/10/2004 9:20	EQ BLANK	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
5/10/2004 9:20	EQ BLANK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
5/10/2004 9:20	EQ BLANK	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
5/10/2004 9:20	EQ BLANK	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Benzidine	95	ug/L	U	95	380
5/10/2004 9:20	EQ BLANK	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
5/10/2004 9:20	EQ BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
5/10/2004 9:20	EQ BLANK	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
5/10/2004 9:20	EQ BLANK	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
5/10/2004 9:20	EQ BLANK	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
5/10/2004 9:20	EQ BLANK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
5/10/2004 9:20	EQ BLANK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
5/10/2004 9:20	EQ BLANK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	Endrin	1.4	ug/L	UJ	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	Endrin aldehyde	3.8	ug/L	UJ	3.8	15
5/10/2004 9:20	EQ BLANK	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
5/10/2004 9:20	EQ BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	11
5/10/2004 9:20	EQ BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
5/10/2004 9:20	EQ BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
5/10/2004 9:20	EQ BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
5/10/2004 9:20	EQ BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11

5/10/2004 9:20	EQ BLANK	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
5/10/2004 9:20	EQ BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
5/10/2004 9:20	EQ BLANK	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
5/10/2004 9:20	EQ BLANK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
5/10/2004 9:20	EQ BLANK	GC-Water	Alachlor	0.58	ug/L	U	0.57692	2.31
5/10/2004 9:20	EQ BLANK	GC-Water	Ametryn	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	GC-Water	Atrazine	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19231	0.769
5/10/2004 9:20	EQ BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19231	0.769
5/10/2004 9:20	EQ BLANK	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096154	0.385
5/10/2004 9:20	EQ BLANK	GC-Water	Diazinon	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	GC-Water	Ethion	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	GC-Water	Ethoprop	0.096	ug/L	U	0.096154	0.385
5/10/2004 9:20	EQ BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19231	0.769
5/10/2004 9:20	EQ BLANK	GC-Water	Fonofos	0.096	ug/L	U	0.096154	0.385
5/10/2004 9:20	EQ BLANK	GC-Water	Hexazinone	0.096	ug/L	U	0.096154	0.385
5/10/2004 9:20	EQ BLANK	GC-Water	Malathion	0.14	ug/L	U	0.14423	0.577
5/10/2004 9:20	EQ BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24038	0.962
5/10/2004 9:20	EQ BLANK	GC-Water	Metolachlor	0.48	ug/L	U	0.48077	1.92
5/10/2004 9:20	EQ BLANK	GC-Water	Metribuzin	0.096	ug/L	U	0.096154	0.385
5/10/2004 9:20	EQ BLANK	GC-Water	Mevinphos	0.19	ug/L	U	0.19231	0.769
5/10/2004 9:20	EQ BLANK	GC-Water	Naled	0.77	ug/L	UJ	0.76923	3.08
5/10/2004 9:20	EQ BLANK	GC-Water	Norflurazon	0.096	ug/L	U	0.096154	0.385
5/10/2004 9:20	EQ BLANK	GC-Water	Parathion Ethyl	0.14	ug/L	UJ	0.14423	0.577
5/10/2004 9:20	EQ BLANK	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096154	0.385
5/10/2004 9:20	EQ BLANK	GC-Water	Phorate	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	GC-Water	Prometryn	0.14	ug/L	U	0.14423	0.577
5/10/2004 9:20	EQ BLANK	GC-Water	Simazine	0.048	ug/L	U	0.048077	0.192
5/10/2004 9:20	EQ BLANK	Metals-Water	Aluminum	5	ug/L	U	5	20
5/10/2004 9:20	EQ BLANK	Metals-Water	Arsenic	5	ug/L	U	5	20
5/10/2004 9:20	EQ BLANK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
5/10/2004 9:20	EQ BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
5/10/2004 9:20	EQ BLANK	Metals-Water	Chromium	2	ug/L	U	2	8
5/10/2004 9:20	EQ BLANK	Metals-Water	Copper	0.75	ug/L	U	0.75	3
5/10/2004 9:20	EQ BLANK	Metals-Water	Iron	5	ug/L	U	5	20
5/10/2004 9:20	EQ BLANK	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
5/10/2004 9:20	EQ BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
5/10/2004 9:20	EQ BLANK	Metals-Water	Nickel	2	ug/L	U	2	8
5/10/2004 9:20	EQ BLANK	Metals-Water	Selenium	1	ug/L	U	1	4
5/10/2004 9:20	EQ BLANK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
5/10/2004 9:20	EQ BLANK	Metals-Water	Zinc	2	ug/L	U	2	8
5/10/2004 9:20	EQ BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
5/10/2004 9:20	EQ BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
5/10/2004 9:20	EQ BLANK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
5/10/2004 9:20	EQ BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
5/10/2004 9:20	EQ BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Bio-AGP/LimNut	Algal Growth Potential	119	mg DryWt/L		0.1	0.3
5/10/2004 9:00	JAX HT WWTP FINAL EFFLUENT	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.6	mg/L	I		
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
5/10/2004 9:00	JAX HT WWTP FINAL EFFLUENT	Bio-Toxicology	Bioassay-Chronic-Scrn-FW-C.dubia, NOEC	33	NOEC			
5/10/2004 9:00	JAX HT WWTP FINAL EFFLUENT	Bio-Toxicology	Bioassay-Chronic-Scrn-FW-Fish, NOEC	33	NOEC			
5/10/2004 9:00	JAX HT WWTP FINAL EFFLUENT	Bio-Toxicology	Bioassay-Chronic-Scrn-FW-Fish, NOEC		NOEC			
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,2-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,3-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,4-Dichlorobenzene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	0.97	ug/L	U	0.97	3.9

5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dichlorophenol	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dimethylphenol	49	ug/L	UJ	49	190
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	58
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,6-Dinitrotoluene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Chloronaphthalene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Chlorophenol	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Nitrophenol	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	U	39	160
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Nitrophenol	15	ug/L	U	15	58
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Acenaphthene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Acenaphthylene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Anthracene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzidine	97	ug/L	U	97	390
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(a)anthracene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(a)pyrene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(b)fluoranthene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(k)fluoranthene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	58
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	19
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Chrysene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	19
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Di-n-octyl phthalate	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Diethyl phthalate	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	190
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endrin	1.5	ug/L	UJ	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endrin aldehyde	3.9	ug/L	UJ	3.9	16
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Fluoranthene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Fluorene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachlorobenzene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Isophorone	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Naphthalene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Phenanthrene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Phenol	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Pyrene	0.97	ug/L	U	0.97	3.9
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.8

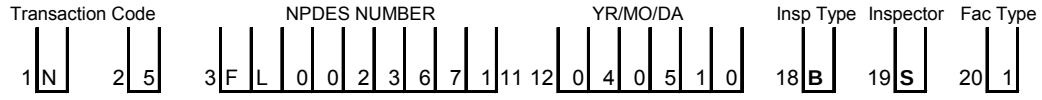
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Alachlor	0.6	ug/L	U	0.6	2.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Ametryn	0.05	ug/L	U	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Atrazine	0.63	ug/L	J	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Azinphos Methyl	0.05	ug/L	U	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Bromacil	0.2	ug/L	U	0.2	0.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Butylate	0.2	ug/L	U	0.2	0.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.05	ug/L	U	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.1	ug/L	U	0.1	0.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Diazinon	0.05	ug/L	U	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Ethion	0.05	ug/L	U	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Ethoprop	0.1	ug/L	U	0.1	0.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Fenamiphos	0.2	ug/L	U	0.2	0.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Fonofos	0.1	ug/L	U	0.1	0.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Hexazinone	0.1	ug/L	U	0.1	0.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Metalaxyl	0.25	ug/L	U	0.25	1
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Metolachlor	0.5	ug/L	U	0.5	2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Metribuzin	0.1	ug/L	U	0.1	0.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Mevinphos	0.2	ug/L	U	0.2	0.8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Naled	0.8	ug/L	UJ	0.8	3.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Norflurazon	0.1	ug/L	U	0.1	0.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Parathion Ethyl	0.15	ug/L	UJ	0.15	0.6
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Parathion Methyl	0.1	ug/L	U	0.1	0.4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Phorate	0.05	ug/L	U	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	GC-Water	Simazine	0.05	ug/L	U	0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Aluminum	44	ug/L		5	20
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Arsenic	5	ug/L	U	5	20
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Cadmium	0.048	ug/L	I	0.025	0.1
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Calcium	32.2	mg/L		0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Chromium	2	ug/L	U	2	8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Copper	1.8	ug/L	I	0.75	3
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Iron	35	ug/L		5	20
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Lead	1.2	ug/L		0.05	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Magnesium	12.6	mg/L		0.02	0.08
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Nickel	2	ug/L	U	2	8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Selenium	1	ug/L	U	1	4
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Zinc	57.6	ug/L		2	8
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Nutrients-Liquid	Ammonia-N	0.021	mg N/L	A	0.01	0.02
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Nutrients-Liquid	NO2NO3-N	3.5	mg N/L		0.04	0.1
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Nutrients-Liquid	N_KJEL_TOT	0.98	mg N/L	A	0.06	0.2
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Nutrients-Liquid	O-Phosphate-P	0.22	mg P/L		0.008	0.02
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Nutrients-Liquid	TSS	4	mg/L	U	4	16
5/10/2004 8:45	JAX HT WWTP FINAL EFFLUENT	Nutrients-Liquid	Total-P	0.27	mg P/L	A	0.02	0.06
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Bio-Toxicology	Bioassay-Chronic-Scrn-FW-C.dubia, NOEC		NOEC			
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Bio-Toxicology	Bioassay-Chronic-Scrn-FW-Fish, NOEC		NOEC			
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8

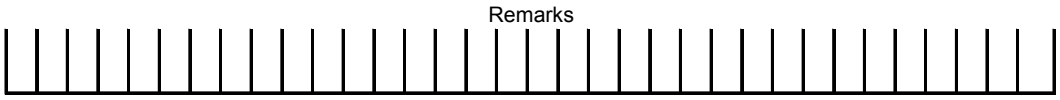
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzidine	96	ug/L	U	96	380
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endrin	1.4	ug/L	UJ	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Endrin aldehyde	3.8	ug/L	UJ	3.8	15
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Alachlor	0.57	ug/L	U	0.56604	2.26
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Ametryn	0.047	ug/L	U	0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Atrazine	0.19	ug/L		0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Azinphos Methyl	0.047	ug/L	U	0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Bromacil	0.19	ug/L	U	0.18868	0.755
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Butylate	0.19	ug/L	U	0.18868	0.755
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.047	ug/L	U	0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.094	ug/L	U	0.09434	0.377
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Diazinon	0.047	ug/L	U	0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Ethion	0.047	ug/L	U	0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Ethoprop	0.094	ug/L	U	0.09434	0.377
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Fenamiphos	0.19	ug/L	U	0.18868	0.755

5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Fonofos	0.094	ug/L	U	0.09434	0.377
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Hexazinone	0.094	ug/L	U	0.09434	0.377
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Malathion	0.14	ug/L	U	0.14151	0.566
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Metalaxyl	0.24	ug/L	U	0.23585	0.943
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Metolachlor	0.47	ug/L	U	0.4717	1.89
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Metribuzin	0.094	ug/L	U	0.09434	0.377
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Mevinphos	0.19	ug/L	U	0.18868	0.755
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Naled	0.75	ug/L	UJ	0.75472	3.02
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Norflurazon	0.094	ug/L	U	0.09434	0.377
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Parathion Ethyl	0.14	ug/L	UJ	0.14151	0.566
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Parathion Methyl	0.094	ug/L	U	0.09434	0.377
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Phorate	0.047	ug/L	U	0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Prometryn	0.14	ug/L	U	0.14151	0.566
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	GC-Water	Simazine	0.047	ug/L	U	0.04717	0.189
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Aluminum	41	ug/L	A	5	20
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Arsenic	5	ug/L	U	5	20
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Cadmium	0.05	ug/L	I	0.025	0.1
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Calcium	33.4	mg/L	A	0.05	0.2
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Chromium	2	ug/L	U	2	8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Copper	1.7	ug/L	I	0.75	3
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Iron	39	ug/L	A	5	20
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Lead	1.1	ug/L	A	0.05	0.2
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Magnesium	12.9	mg/L	A	0.02	0.08
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Nickel	2	ug/L	U	2	8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Selenium	1	ug/L	U	1	4
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Metals-Water	Zinc	56.8	ug/L	A	2	8
5/12/2004 8:30	JAX HT WWTP FINAL EFFLUENT	Nutrients-Liquid	Ammonia-N	0.018	mg N/L	I	0.01	0.02

The Bioassay of Jacksonville Heights WWTF effluent sampled on 10, 12, and 14 May 2004, NPDES #FL0023671.

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





The Priority Pollutants Analysis for Bioassay of Jacksonville Heights WWTF effluent sampled on 10, 12, and 14 May, 2004, NPDES #FL0023671.

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