

Bioassays of

Study Estates Wastewater Treatment Facility

Duval County

NPDES #FL0043419

Sampled March 29, 2004

June 2004

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

Study Estates Wastewater Treatment Facility, 8167 Old Kings Road, Jacksonville, Duval County, Florida, NPDES #FL0043419. Effluent samples for this facility were collected on March 29, 2004.

Introduction

Study Estates Wastewater Treatment Facility has a permitted capacity of 0.0175 million gallons per day (MGD). The treatment system includes: an influent pump station, a 19,000-gallon aeration unit, a secondary clarifier, a chlorine contact chamber, and a dechlorination unit. Residuals are held in an aerated tank before being hauled to a residuals management facility for further treatment and land application. Disinfection is performed using a chlorine solution. Dechlorination is performed using sodium bisulfite tablets that are contained in the dechlorination unit.

The average facility flow for the months of January 2003 through November 2003 was 0.0036 MGD. The facility is permitted to discharge 0.0175 MGD annual average of treated effluent to an unnamed ditch that flows to Nine Mile Creek and then to the St. Johns River (Class III fresh surface water) at a discharge location D-001. The facility does not have mixing zones at this time.

Methods

Samples were collected from the NPDES sampling point by Brian Kelsay and Kathleen Gerard (FDEP 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.

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_06. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

Toxicity Test Results

Tests were performed March 30 – April 1, 2004.

Ceriodaphnia dubia 48-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 5% mortality in 100% sample at 48 hours

Cyprinella leedsi 48-hr acute screening bioassay – Not Toxic; LC_{50} > 100%, 0% mortality in 100% sample at 48 hours

The bioassay sample was aerated for about 15 minutes to increase the initial dissolved oxygen from 5.5 mg/L to 8.2 mg/L.

See Appendix 1 for bioassay bench sheets.

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 111 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. The nutrient data suggests the effluent is phosphorus-limited. The predicted AGP based on ortho-phosphate concentration was 154.8 (±20%) mg dry wt/L (Table 2). 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 effluent AGP of 111 mg dry weight/L exceeded the "problem" threshold by a factor of more than 22.

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine was not detected in the bioassay sample in the laboratory or in the field.

Effluent dissolved oxygen measured in the field (1.8 mg/L) was less than the Class III Fresh Water Quality Criterion ($\geq$5.0 mg/L, 62-302.530(31) F.A.C.).

Total ammonia was measured as 1.58 mg/L in the laboratory on an unpreserved effluent sample; total ammonia of the preserved effluent sample analyzed by FDEP Chemistry Laboratory was 1.5 mg/L. Based on field measurements for pH and temperature, the calculated unionized ammonia content was $\leq$0.02 mg/L for both samples.

Aluminum, lead, iron and zinc were detected in the effluent at a level above the practical quantitation limit (PQL), while cadmium and copper were detected in the effluent at a level above the minimum detection limit and below the PQL. Metals content of the effluent complied with Class III Fresh Water Quality Criteria (62.302-530 F.A.C.).

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 Study Estates WWTF on March 29, 2004, did not show acute toxicity to either test species during the 48-hour acute screening bioassay tests. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters by a factor of more than 22. The effluent dissolved oxygen did not comply with the Class III Fresh Water Quality Criterion.

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) limitation*

Study Estates WWTF	AGP (measured)	Predicted AGP (OP) ± 20%	Inorganic N:P ratio
Effluent (mg dry wt/L)	111	154.8 ± 31.0	34.7

Table 2. *Effluent limits, Class III Criteria and chemical data for Study Estates WWTF effluent sampled March 29, 2004*

Study Estates WWTF	Class III Freshwater Stds	Effluent Limits	Effluent
Organic Constituents (µg/L)			
None Detected	-	-	-
Metals (µg/L unless otherwise noted)			
Aluminum	-	-	256
Arsenic	≤ 50	-	9 U
Cadmium	≤ 2.6 b	-	0.054 I
Calcium (mg/L)	-	-	91.7
Chromium-III	≤ 204.6 b	-	3 U
Copper	≤ 23 b	-	3.6 I
Iron	≤ 1000	-	367
Lead	≤ 12.2 b	-	0.84
Magnesium (mg/L)	-	-	14.2
Nickel	≤ 127.4 b	-	4 U
Selenium	≤ 5	-	1 U
Silver	≤ 0.07	-	0.02 U
Zinc	≤ 293.1 b	-	26
Nutrients (mg/L)			
Ortho-phosphate	-	Report	0.36
Total Phosphorus	-	Report	0.91
Ammonia	-	Report	1.5
Unionized Ammonia	≤ 0.02	≤ 0.02	< 0.02 c
Nitrate+Nitrite	-	Report	11
Total Kjeldahl Nitrogen	-	Report	4.2
Organic Nitrogen	-	Report	2.7 c
Total Nitrogen	-	Report	15.2 c
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥ 5	-	1.8
Conductivity (umhos/cm)	≤ 1275	-	794
pH (S.U.)	6.0-8.5	6.0-8.5	8.0
TSS (mg/L)	-	60.0 s	16
Flow (MGD)	-	0.0175 a	-
Hardness (mg/L)	-	-	287.5 c
Total Residual Chlorine (mg/L) (bioassay)	≤ 0.01	≤ 0.01	<0.03
Total Residual Chlorine (mg/L) (field)	≤ 0.01	≤ 0.01	< 0.01

Value exceeds Class III Water Quality Criteria

a - Annual average

b - Value is calculated based on hardness

c - Value is calculated.

I - Value reported is < the minimum quantitation limit, and ≥ the minimum detection limit

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

s - Single sample

FDEP Biology Section - Acute Screening Bioassay Bench Sheets

Facility: Study Estates MHP WWTF — Sample Collection: Date: 3-29-04 Time: 1400

Address: 8167 Old Kings Road

City: Jacksonville County: Duval

Contact/District: Brian Kelsay /NE

NPDES Permit #: FL 0043419

LIMS Job #: TLH2004-03-30-11 LIMS Sample #: 744474

Lims Data Entry: 4/2/04 MF — Data Entry Verification: 4/2/04 CAP

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

Comments:

Test Type: Screening
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:

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: 5.5 mg/L Final DO: 8.2 mg/L Duration: 15 minutes Rate: ~100 bubbles/min

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

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

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

Temperature Range °C
Incubator #3 Range 23.0 - 24.5 chart
Room B246: 23.5 - 24.0° C
Waterbath: —

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

Investigators' Signatures
Christa A. Greene
Marshall Faircloth
James Davids

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	0.01	—	Kelsay + Gerard	MF
Lab Total Residual Cl2 (mg/L):	<0.03	<0.03				<0.03	HACH	CAP	MF
Alkalinity (mg/L as $CaCO_3$):	102	135				259	HACH	JD	CAP
Hardness (mg/L as $CaCO_3$):	123	156				251	HACH	JD	CAP
Total Ammonia (mg/L as N):	<0.017	<0.017				1.58	DENVER	MF	JD
Salinity (ppt):	<1	<1				<1	YSI	CAP	MF

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 74474 Test #: 1 Test Started: Date 3-30-04 Time: 1245

Organism: C. dubia Test Ended: Date 4/1/04 Time: 1300

Organism Batch: 11 Diluent/ Batch: DMW 11

Organism Age: 24hr Food: YCT *P. subcapitata* *Artemia*

Chamber Size 30 mL Batch: 1 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			
	B		5	5	5			
	C		5	5	5			
	D		5	5	5			
100%	A		5	5	5			
	B		5	5	4D			
	C		5	5	5			
	D		5	5	5			

Organisms loaded by: CAP Checked by: MF CAP CAP

Loading Verified by: MF (initials)

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).

FDEP Biology Section - - Bioassay Bench Sheet
Survival

LIMS Sample #: 744474 **Test #:** 2 **Test Started: Date** 3-30-04 **Time:** 1315
Organism: C. leedsi **Test Ended: Date** 4/1/04 **Time:** 1300
Organism Batch: #7 **Diluent/ Batch:** Well 1 —
Organism Age: 11 days **Food:** YCT *P. subcapitata* (*Artemia*)
Chamber Size 1000 **mL** **Batch:** — — 0194825G
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	H21	5	5	5			
	B	H18	5	5	5			
	C	H19	5	5	5			
	D	H24	5	5	5			
100%	A	H17	5	5	5			
	B	H22	5	5	5			
	C	H23	5	5	5			
	D	H20	5	5	5			

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

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

Test Results:
% mortality in 100% sample Ø
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 # : 744474 Test # : 1 of 2

TEST SOP: TA07_01 Test Species: (Ceriodaphnia dubia) Cyprinella leedsi Pimephales promelas Americamysis bahia Menidia beryllina Other:

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Concentration CTRL	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	8.2		8.1			
Temperature °C	24.2		24.1			
Dissolved Oxygen mg/L	8.3		7.4			
Conductivity (µmhos) mmhos	202		180			
(initials) Measured by:	CAP		CAP			
(initials) Recorded by:	CAP		CAP			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		B			
pH (S.U.)	8.0		8.7			
Temperature °C	24.5		24.0			
Dissolved Oxygen mg/L	7.8		7.3			
Conductivity (µmhos) mmhos	730		735			
(initials) Measured by:	CAP		CAP			
(initials) Recorded by:	CAP		CAP			

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

Concentration	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate						
pH (S.U.)						
Temperature °C						
Dissolved Oxygen mg/L						
Conductivity µmhos mmhos						
(initials) Measured by:						
(initials) Recorded by:						

Comments:

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V.1 2/24/04

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Bioassay Parameters

LIMS Sample # : 744474 **Test # :** 2 **of** 2

TEST SOP: TA-07-02 **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			
pH (S.U.)	8.0	7.5	8.4			
Temperature °C	24.5	24.9	26.0			
Dissolved Oxygen mg/L	8.0	6.8	7.2			
Conductivity µmhos mmhos	280	360	350			
(initials) Measured by:	CAP	CAP	CAP			
(initials) Recorded by:	CAP	CAP	CAP			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A	B	C			
pH (S.U.)	8.0	7.5	8.5			
Temperature °C	25.2	24.7	25.6			
Dissolved Oxygen mg/L	7.8	6.8	7.0			
Conductivity µmhos mmhos	760	780	850			
(initials) Measured by:	CAP	CAP	CAP			
(initials) Recorded by:	CAP	CAP	CAP			

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:

[redacted]

Appendix 2. Chemical analyte list for Study Estates WWTF effluent sampled on March 29, 2004

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
3/29/2004 14:00	FINAL EFFLUENT	Bio-AGP/LimNut	Algal Growth Potential	111	mg DryWt/L		0.1	0.3
3/29/2004 14:00	FINAL EFFLUENT	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	1.2	ug/L	U	1.2	3.7
3/29/2004 14:00	FINAL EFFLUENT	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	1.2	ug/L	U	1.2	3.7
3/29/2004 14:00	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100	LC50	L		
3/29/2004 14:00	FINAL EFFLUENT	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100	LC50	L		
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Benzidine	95	ug/L	U	95	380
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7

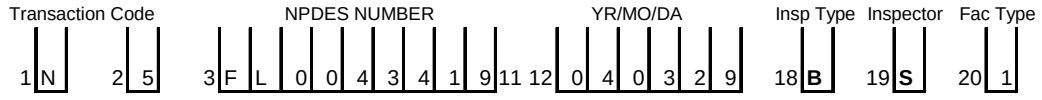
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	11
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Naled	0.76	ug/L	U	0.76	3.04
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Norflurazon	0.095	ug/L	U	0.095	0.38
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
3/29/2004 14:00	FINAL EFFLUENT	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Aluminum	256	ug/L		7	28
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Arsenic	9	ug/L	U	9	36
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Cadmium	0.054	ug/L	I	0.025	0.1
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Calcium	91.7	mg/L		0.05	0.2
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Chromium	3	ug/L	U	3	12
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Copper	3.6	ug/L	I	1	4
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Iron	367	ug/L		10	40
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Lead	0.84	ug/L		0.05	0.2
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Magnesium	14.2	mg/L		0.02	0.08
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Nickel	4	ug/L	U	4	16
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Selenium	1	ug/L	U	1	4
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
3/29/2004 14:00	FINAL EFFLUENT	Metals-Water	Zinc	26	ug/L		5	20

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
3/29/2004 14:00	FINAL EFFLUENT	Nutrients-Liquid	Ammonia-N	1.5	mg N/L		0.2	0.4
3/29/2004 14:00	FINAL EFFLUENT	Nutrients-Liquid	NO2NO3-N	11	mg N/L		0.08	0.2
3/29/2004 14:00	FINAL EFFLUENT	Nutrients-Liquid	N_KJEL_TOT	4.2	mg N/L		0.12	0.4
3/29/2004 14:00	FINAL EFFLUENT	Nutrients-Liquid	O-Phosphate-P	0.36	mg P/L		0.016	0.04
3/29/2004 14:00	FINAL EFFLUENT	Nutrients-Liquid	TSS	16	mg/L		4	16
3/29/2004 14:00	FINAL EFFLUENT	Nutrients-Liquid	Total-P	0.91	mg P/L		0.02	0.06
3/29/2004 10:20	FIELD BLANK	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
3/29/2004 10:20	FIELD BLANK	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58
3/29/2004 10:20	FIELD BLANK	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
3/29/2004 10:20	FIELD BLANK	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
3/29/2004 10:20	FIELD BLANK	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
3/29/2004 10:20	FIELD BLANK	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
3/29/2004 10:20	FIELD BLANK	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Benzidine	96	ug/L	U	96	380
3/29/2004 10:20	FIELD BLANK	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
3/29/2004 10:20	FIELD BLANK	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
3/29/2004 10:20	FIELD BLANK	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
3/29/2004 10:20	FIELD BLANK	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
3/29/2004 10:20	FIELD BLANK	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
3/29/2004 10:20	FIELD BLANK	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
3/29/2004 10:20	FIELD BLANK	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
3/29/2004 10:20	FIELD BLANK	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
3/29/2004 10:20	FIELD BLANK	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
3/29/2004 10:20	FIELD BLANK	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
3/29/2004 10:20	FIELD BLANK	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	UJ	2.9	12
3/29/2004 10:20	FIELD BLANK	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
3/29/2004 10:20	FIELD BLANK	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
3/29/2004 10:20	FIELD BLANK	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
3/29/2004 10:20	FIELD BLANK	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
3/29/2004 10:20	FIELD BLANK	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
3/29/2004 10:20	FIELD BLANK	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
3/29/2004 10:20	FIELD BLANK	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
3/29/2004 10:20	FIELD BLANK	GC-Water	Alachlor	0.57	ug/L	U	0.57	2.28
3/29/2004 10:20	FIELD BLANK	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
3/29/2004 10:20	FIELD BLANK	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
3/29/2004 10:20	FIELD BLANK	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	GC-Water	Chlorpyrifos Methyl	0.095	ug/L	U	0.095	0.38
3/29/2004 10:20	FIELD BLANK	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	GC-Water	Ethoprop	0.095	ug/L	U	0.095	0.38
3/29/2004 10:20	FIELD BLANK	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
3/29/2004 10:20	FIELD BLANK	GC-Water	Fonofos	0.095	ug/L	U	0.095	0.38
3/29/2004 10:20	FIELD BLANK	GC-Water	Hexazinone	0.095	ug/L	U	0.095	0.38
3/29/2004 10:20	FIELD BLANK	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
3/29/2004 10:20	FIELD BLANK	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
3/29/2004 10:20	FIELD BLANK	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
3/29/2004 10:20	FIELD BLANK	GC-Water	Metribuzin	0.095	ug/L	U	0.095	0.38
3/29/2004 10:20	FIELD BLANK	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
3/29/2004 10:20	FIELD BLANK	GC-Water	Naled	0.76	ug/L	U	0.76	3.04
3/29/2004 10:20	FIELD BLANK	GC-Water	Norflurazon	0.095	ug/L	U	0.095	0.38
3/29/2004 10:20	FIELD BLANK	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
3/29/2004 10:20	FIELD BLANK	GC-Water	Parathion Methyl	0.095	ug/L	U	0.095	0.38
3/29/2004 10:20	FIELD BLANK	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
3/29/2004 10:20	FIELD BLANK	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
3/29/2004 10:20	FIELD BLANK	Metals-Water	Aluminum	7	ug/L	U	7	28
3/29/2004 10:20	FIELD BLANK	Metals-Water	Arsenic	9	ug/L	U	9	36
3/29/2004 10:20	FIELD BLANK	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
3/29/2004 10:20	FIELD BLANK	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.2
3/29/2004 10:20	FIELD BLANK	Metals-Water	Chromium	3	ug/L	U	3	12
3/29/2004 10:20	FIELD BLANK	Metals-Water	Copper	1	ug/L	U	1	4
3/29/2004 10:20	FIELD BLANK	Metals-Water	Iron	10	ug/L	U	10	40
3/29/2004 10:20	FIELD BLANK	Metals-Water	Lead	0.05	ug/L	U	0.05	0.2
3/29/2004 10:20	FIELD BLANK	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
3/29/2004 10:20	FIELD BLANK	Metals-Water	Nickel	4	ug/L	U	4	16
3/29/2004 10:20	FIELD BLANK	Metals-Water	Selenium	1	ug/L	U	1	4
3/29/2004 10:20	FIELD BLANK	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
3/29/2004 10:20	FIELD BLANK	Metals-Water	Zinc	5	ug/L	U	5	20
3/29/2004 10:20	FIELD BLANK	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
3/29/2004 10:20	FIELD BLANK	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
3/29/2004 10:20	FIELD BLANK	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
3/29/2004 10:20	FIELD BLANK	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
3/29/2004 10:20	FIELD BLANK	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06

The Bioassay of Study Estates Wastewater Treatment Facility effluent sampled on March 29, 2004, NPDES #FL0043419.

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



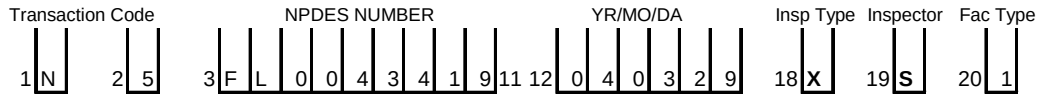
Remarks



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The Priority Pollutants Analysis for Bioassay of Study Estates Wastewater Treatment Facility effluent sampled on March 29, 2004, NPDES #FL0043419.

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



Remarks



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