

Bioassays of

City of Oldsmar Water Reclamation Facility

Pinellas County

NPDES #FL0027651

Sampled February 7, 2005

May 2005

Biology Section
Bureau of Laboratories
Division of Resource Assessment and Management

Quality Manual No. 870346G
NELAC Certification No. E31780

City of Oldsmar Water Reclamation Facility, 351 Lafayette Boulevard, Oldsmar, Pinellas County, Florida, NPDES #FL0027651. Effluent samples for this facility were collected on February 7 and 8, 2005.

Introduction

The City of Oldsmar Water Reclamation Facility is a domestic wastewater treatment facility. The design flow is 2.25 million gallons per day (MGD) based on a three-month average daily flow. The average flow from January through November 2004 was 1.12 MGD. The plant consists of an on-site influent pumping station with three variable frequency drive submersible pumps, a headwork with one mechanically cleaned fine bar screen, one grit removal basin, a screw collector grit washer, a five stage Bardenpho Biological Nutrient Removal system, chlorination via gaseous chlorination post aeration basins, and dechlorination by sulfur dioxide in a basin downstream of the post aeration basins. The facility's discharge flows through a 20-inch ductile iron pipe approximately 719.33 m (2,360 feet) in length extending to the south and west of the plant to a concrete outfall structure through D001. Effluent discharges into an unnamed ditch thence to Mobbly Bayou and into the Class II marine waters of Mobbly Bay. A 2000 administrative order (amended July 1, 2003) allowed for interim limits for copper and bromo-dichloromethane of 10 µg/L and 30 µg/L, respectively.

The facility conducted a routine chronic test, April 27 through May 4, 2004, that failed for *Ceriodaphnia dubia* reproduction. Three additional tests were conducted, and the third, conducted June 1-8, failed for *C. dubia* survival and reproduction. All other routine tests conducted to date have passed (facility information provided by Nahir Cornwell of FDEP Southwest District).

Methods

Samples were collected from the D001 NPDES sampling point by Nahir Cornwell and Michele Duggan (FDEP Southwest 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 48-hour acute screening toxicity tests and algal growth potential test 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.

While the 48-hour acute screening toxicity test does not reflect the permit required conditions, the Department uses it to provide reasonable assurance that the facility does not adversely affect waters of the state.

Prior to test initiation, bioassay samples were aerated for 30 minutes at approximately 100 bubbles per minute, to decrease the dissolved oxygen concentration from 11.4 mg/L to 8.9 mg/L.

Toxicity Test Results

Tests were performed February 8-10, 2005.

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

Bioassay samples were not acutely toxic to the test organisms.

See Appendix 1 for bioassay bench sheets.

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

Algal Growth Potential

The effluent Algal Growth Potential (AGP) was 22.3 mg dry wt/L of the unicellular green alga, *Pseudokirchneriella subcapitata*, formerly known as *Selenastrum capricornutum*. Raschke and Shultz (1987) found that AGP values above 5.0 mg dry weight/L represent a "problem" threshold for fresh receiving waters, implying nutrient enrichment. The analytical chemistry suggests that the effluent is nitrogen -limited. The predicted AGP based on inorganic nitrogen concentrations was 15.09 (±20%) mg dry wt/L (Table 1; Miller et al. 1978). A saltwater AGP test was not performed; however, the freshwater AGP results suggest that nutrient enrichment may be an issue.

See Table 1 for AGP results.

Chemistry Results

Total residual chlorine and total ammonia were not detected in the bioassay sample in the laboratory. The total ammonia concentration in the sample collected and preserved for chemical analysis was 0.057 mg/L. Based on the pH, salinity and temperature of the effluent as collected, the calculated unionized ammonia concentration was < 0.02 mg/L.

Atrazine was detected in the effluent. Chloroform, dibromochloromethane, aluminum, copper, iron, and zinc were detected in the effluent at levels that comply with Class II marine water quality criteria. Bromoform, lead, and nickel were detected between the laboratory minimum detection limits (MDL) and practical quantitation limits (PQL). The effluent bromodichloromethane concentration (35 µg/L) exceeded the Class II water quality criterion (≤ 22 µg/L; 62-302.530(36)(b)5, F.A.C.) and will exceed the annual average permit limit (30.0 µg/L) if this level continues.

See Table 2 for results of analytes detected in the effluent, and corresponding limits.

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

Conclusion

The effluent samples collected from D001 for this facility on February 7, 2005, were not acutely toxic to either test species during the 48-hour bioassays. The effluent AGP result exceeded the "problem" threshold for fresh receiving waters, suggesting nutrient enrichment. The effluent bromodichloromethane concentration (35 µg/L) exceeded the Class II water quality criterion (≤ 22 µg/L; 62-302.530(36)(b)5, F.A.C.) and will exceed the annual average effluent limit (30.0 µg/L) if this level continues.

Literature Cited

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

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

Table 1. Measured and predicted algal growth potential (AGP; mg dry weight/L) for total soluble inorganic nitrogen (TSIN) and total nitrogen (TN) limitation of Pseudokirchneriella subcapitata

City of Oldsmar Water Reclamation Facility	AGP (measured)	Predicted AGP (TSIN) ± 20%	Predicted AGP (TN) ± 20%	Inorganic N:P ratio	Total N:P ratio
Effluent Samples	22.3	15.09 ± 3.018	66.1 ± 13.2	3.05	7.25

Table 2. Effluent limits, Class II Marine Water Criteria and chemical data.

City of Oldsmar Water Reclamation Facility	Class II Stds	Effluent Limits	Effluent Grab Samples
Organic Constituents (µg/L)			
Atrazine	-	-	0.26
Bromodichloromethane	≤ 22	30.0 a	35
Bromoform	≤ 360	-	0.7 l
Chloroform	≤ 470.8	-	78
Dibromochloromethane	≤ 34	34.0 a	12
Metals (µg/L unless otherwise noted)			
Aluminum	≤ 1500	-	26
Arsenic	≤ 50	-	6 U
Cadmium	≤ 9.3	-	0.075 U
Calcium (mg/L)	-	-	89.2
Chromium-III	-	-	2 U
Copper	≤ 3.7	10.0 s	3.3
Iron	≤ 300	-	50
Lead	≤ 8.5	-	0.14 l
Magnesium (mg/L)	-	-	9.3
Nickel	≤ 8.3	-	4.4 l
Selenium	≤ 71	-	0.5 U
Silver	≤ 2.3	-	0.025 U
Zinc	≤ 86	-	32
Nutrients (mg/L)			
Organic Carbon	-	-	9.5
Ortho-phosphate	-	-	0.13
Total Phosphorus	-	-	0.24
Ammonia	-	-	0.057
Unionized Ammonia	-	-	< 0.02 c
Nitrate+Nitrite	-	-	0.34
Total Kjeldahl Nitrogen	-	-	1.4
Organic Nitrogen	-	-	1.34 c
Total Nitrogen	-	3.0 a	1.74 c
General Physical and Chemical Parameters			
Dissolved Oxygen (mg/L)	≥ 4 s	≥ 5 s	6.7
pH (S.U.)	6.5 - 8.5	6.5 - 8.5	7.3
Conductivity (umhos/cm)	-	-	1203
Temperature (C)	-	-	22.8
CBOD (mg/L)	-	5.0 a	1.5
Oil and Grease (mg/l)	≤ 5	-	1.7 U
Flow (MGD)	-	≤ 2.25 a	-
Color (PCU)	-	-	10
TSS (mg/L)	-	5.0 a	4 U
Turbidity (NTU)	29 t	-	0.8
Total Residual Chlorine (mg/L)	≤ 0.01	≤ 0.01	-
Hardness (mg/L)	-	-	261 c

Value exceeds the Class III Marine Water Quality Criteria (62-302, F.A.C.) and/or Effluent Limits

a - Annual average

c - calculated value

s - Single sample

t - Shall not exceed 29 NTUs above background

l - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limi

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

FDEP Biology Section - Acute
Bioassay Bench Sheets

Facility: City of Oldsmar WWTP

Address: ~~315~~ 351 Lafayette Blvd.

City: Oldsmar County: Pinellas

Contact/District: Jeri Pillsbury - Michele Duggan / Southwest Tampa

NPDES Permit #: FL 0027651

LIMS Job #: ~~013035~~ TLH-2005-02-013-73

LIMS Sample #: 013035

Lims Data Entry: 2-11-05 mf

Data Entry Verification: 2-11-05 JDP mf

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

Test Type: Screening/Definitive

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

Sample Collection: Date: 02-07-2005 Time: 10:15

Hold time Start: Date: 02-07-2005 Time: 10:15

Comments:

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

Aeration : yes no Initial DO: 11.4 mg/L Final DO: 8.9 mg/L Duration: 30 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 24.8 24.5
Room B246: 23.1 - 23.5
Waterbath: NA

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

Nicholson

Marshall Faircloth

REVIEWER

V.3 10/12/04

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	0.00	—	Jeri Pillsbury	MF
Lab Total Residual Cl2 (mg/L):	<0.03	<0.03				<0.03	HACH	RW	SP
Alkalinity (mg/L as $CaCO_3$):	96	144				216	HACH	SP	DN
Hardness (mg/L as $CaCO_3$):	99	127				272	HACH	SP	DN
Total Ammonia (mg/L as N):	<0.017	<0.017				<0.017	DENVER	DN	SP
Salinity (ppth):	<1 ppt	<1 ppt				<1 ppt	YSI Mettler	~~TMM~~	DN

FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 813635 Test #: 1 Test Started: Date 2/8/05 Time: 1300

Organism: C. dubia Test Ended: Date 2.10.05 Time: 1200

Organism Batch: 05-05 Diluent/ Batch: 20% DMW 4-05

Organism Age: < 24 hr Food: YCT, *P. subcapitata* Batch: 5, 43 *Artemia* _____

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	A ~~B17~~ (DN)	5	5	5			
	B	B ~~B14~~	5	5	5			
	C	C ~~B15~~	5	5	5			
	D	D ~~B16~~	5	5	5			
100%	A	A	5	5	5			
	B	B	5	5	5			
	C	C	5	5	5			
	D	D	5	5	5			
			~~50~~	~~50~~				
Organisms loaded by: JD		Checked by: SP		JD	50			
Loading Verified by: SP		(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).

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FDEP Biology Section - - Bioassay Bench Sheet

Survival

LIMS Sample #: 813635 Test #: 2 Test Started: Date 2/8/05 Time: 1200

Organism: C. leedsi Test Ended: Date 2/10/05 Time: 1200

Organism Batch: 06-05 Diluent/ Batch: Well H2O/ N/A

Organism Age: 7 days Food: YCT P. subcapitata Artemia

Chamber Size 1000 mL Batch: 5(DN) 41254256

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	B13	5	5	5			
	B	B14	5	5	5			
	C	B15	5	5	5			
	D	B16	5	5	5			
100%	A	B17	5	5	5			
	B	B18	5	5	5			
	C	B19	5	5	5			
	D	B20	5	4/0	4			
Organisms loaded by: JD		Checked by:	JD	JD	JD			

Loading Verified by: [initials] (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).

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Bioassay Parameters

LIMS Sample # : 813635 **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		A			
pH (S.U.)	7.9		8.4			
Temperature °C	24.3		24.0			
Dissolved Oxygen mg/L	8.7		7.2			
Conductivity (µmhos) mmhos	177		245			
(initials) Measured by:	JD		JD			
(initials) Recorded by:	JD		JD			

Comments:

Concentration 100%	0 Hr.	24 Hr.	48 Hr. before renewal	48 Hr. after renewal	72 Hr.	96 Hr.
Replicate	A		A			
pH (S.U.)	7.9		8.7			
Temperature °C	24.6		24.2			
Dissolved Oxygen mg/L	8.7		7.5			
Conductivity (µmhos) mmhos	1275		1700			
(initials) Measured by:	JD		JD			
(initials) Recorded by:	JD		JD			

Comments:

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

Comments:

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

Comments:

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Bioassay Parameters

LIMS Sample # : 813655 **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			
pH (S.U.)	7.7	7.9	8.4			
Temperature °C	24.2	24.1	24.3			
Dissolved Oxygen mg/L	7.9	6.8	7.2			
Conductivity µmhos mmhos	265	285	285			
(initials) Measured by:	SD	SD	SD			
(initials) Recorded by:	SD	SD	SD			

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.)	7.5	8.4	8.4			
Temperature °C	24.6	25.8	24.3			
Dissolved Oxygen mg/L	8.9	7.0	7.5			
Conductivity µmhos mmhos	1230	1300	1300			
(initials) Measured by:	SD	SD	SD			
(initials) Recorded by:	SD	SD	SD			

Comments:

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

Comments:

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

Comments:

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Appendix 2. Chemical Analyses performed on the effluent from the City of Oldsmar Water Reclamation Facility Outfall D001, sampled on February 7, 2005.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/8/2005 11:15	EFFLUENT	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.93	mg/L	I		
2/8/2005 11:15	Equipment Blank	Bio-BOD	Biochemical Oxygen Demand-5 Day,N-Inhib	0.2	mg/L	U		
2/7/2005 10:15	31766	Bio-Chl-a	Chlorophyll-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
2/7/2005 10:15	31766	Bio-Chl-a	Phaeophytin-A, Monochromatic, Water	0.85	ug/L	U	0.85	2.6
2/7/2005 10:15	31766	Bio-Toxicology	Bioassay-Acute-Screen-FW-C.dubia, LC50	100		LC50	L	
2/7/2005 10:15	31766	Bio-Toxicology	Bioassay-Acute-Screen-FW-Fish, LC50	100		LC50	L	
2/7/2005 10:15	31766	BNA-Water	1,2,4-Trichlorobenzene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	1,2-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	1,3-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	1,4-Dichlorobenzene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	2,4,6-Trichlorophenol	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	2,4-Dichlorophenol	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	2,4-Dimethylphenol	49	ug/L	U	49	200
2/7/2005 10:15	31766	BNA-Water	2,4-Dinitrophenol	15	ug/L	U	15	59
2/7/2005 10:15	31766	BNA-Water	2,4-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	2,6-Dinitrotoluene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	2-Chloronaphthalene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	2-Chlorophenol	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/7/2005 10:15	31766	BNA-Water	2-Nitrophenol	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	3,3'-Dichlorobenzidine	39	ug/L	UJ	39	160
2/7/2005 10:15	31766	BNA-Water	4,4'-DDD	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	4,4'-DDE	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	4,4'-DDT	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	4-Bromophenyl phenyl ether	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	4-Chloro-3-methylphenol	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	4-Chlorophenyl phenyl ether	2	ug/L	U	2	7.8
2/7/2005 10:15	31766	BNA-Water	4-Nitrophenol	15	ug/L	U	15	59
2/7/2005 10:15	31766	BNA-Water	Acenaphthene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Acenaphthylene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Aldrin	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	Anthracene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Benzidine	98	ug/L	U	98	390
2/7/2005 10:15	31766	BNA-Water	Benzo(a)anthracene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Benzo(a)pyrene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Benzo(b)fluoranthene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Benzo(g,h,i)perylene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Benzo(k)fluoranthene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Bis(2-chloroethoxy)methane	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Bis(2-chloroethyl)ether	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/7/2005 10:15	31766	BNA-Water	Bis(2-ethylhexyl)phthalate	15	ug/L	U	15	59
2/7/2005 10:15	31766	BNA-Water	Butyl benzyl phthalate	4.9	ug/L	U	4.9	20
2/7/2005 10:15	31766	BNA-Water	Chrysene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Di-n-butyl phthalate	4.9	ug/L	U	4.9	20
2/7/2005 10:15	31766	BNA-Water	Di-n-octyl phthalate	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Dibenzo(a,h)anthracene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Dieldrin	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	Diethyl phthalate	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Dimethyl phthalate	49	ug/L	U	49	200
2/7/2005 10:15	31766	BNA-Water	Endosulfan I	3.9	ug/L	U	3.9	16
2/7/2005 10:15	31766	BNA-Water	Endosulfan II	3.9	ug/L	U	3.9	16
2/7/2005 10:15	31766	BNA-Water	Endosulfan sulfate	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	Endrin	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	Endrin aldehyde	3.9	ug/L	U	3.9	16
2/7/2005 10:15	31766	BNA-Water	Fluoranthene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Fluorene	0.98	ug/L	U	0.98	3.9

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/7/2005 10:15	31766	BNA-Water	Heptachlor	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	Heptachlor epoxide	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	Hexachlorobenzene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/7/2005 10:15	31766	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/7/2005 10:15	31766	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
2/7/2005 10:15	31766	BNA-Water	Indeno(1,2,3-cd)pyrene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Isophorone	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	N-Nitrosodi-n-propylamine	2	ug/L	U	2	7.8
2/7/2005 10:15	31766	BNA-Water	N-Nitrosodimethylamine	2	ug/L	U	2	7.8
2/7/2005 10:15	31766	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
2/7/2005 10:15	31766	BNA-Water	Naphthalene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Nitrobenzene	2	ug/L	U	2	7.8
2/7/2005 10:15	31766	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/7/2005 10:15	31766	BNA-Water	Phenanthrene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Phenol	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	Pyrene	0.98	ug/L	U	0.98	3.9
2/7/2005 10:15	31766	BNA-Water	alpha-BHC	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	beta-BHC	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	delta-BHC	1.5	ug/L	U	1.5	5.9
2/7/2005 10:15	31766	BNA-Water	gamma-BHC	1.5	ug/L	U	1.5	5.9
2/7/2005 9:50	31767	BNA-Water	1,2,4-Trichlorobenzene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	1,2-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	1,3-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	1,4-Dichlorobenzene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	2,4,6-Trichlorophenol	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	2,4-Dichlorophenol	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
2/7/2005 9:50	31767	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	58
2/7/2005 9:50	31767	BNA-Water	2,4-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	2,6-Dinitrotoluene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	2-Chloronaphthalene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	2-Chlorophenol	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	12
2/7/2005 9:50	31767	BNA-Water	2-Nitrophenol	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	UJ	38	150
2/7/2005 9:50	31767	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	4-Bromophenyl phenyl ether	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	4-Chloro-3-methylphenol	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.7
2/7/2005 9:50	31767	BNA-Water	4-Nitrophenol	14	ug/L	U	14	58
2/7/2005 9:50	31767	BNA-Water	Acenaphthene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Acenaphthylene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	Anthracene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Benzidine	96	ug/L	U	96	380
2/7/2005 9:50	31767	BNA-Water	Benzo(a)anthracene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Benzo(a)pyrene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Benzo(b)fluoranthene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Benzo(g,h,i)perylene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Benzo(k)fluoranthene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Bis(2-chloroethoxy)methane	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Bis(2-chloroethyl)ether	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	12
2/7/2005 9:50	31767	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	58
2/7/2005 9:50	31767	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
2/7/2005 9:50	31767	BNA-Water	Chrysene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
2/7/2005 9:50	31767	BNA-Water	Di-n-octyl phthalate	0.96	ug/L	U	0.96	3.8

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/7/2005 9:50	31767	BNA-Water	Dibenzo(a,h)anthracene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	Diethyl phthalate	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
2/7/2005 9:50	31767	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
2/7/2005 9:50	31767	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
2/7/2005 9:50	31767	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
2/7/2005 9:50	31767	BNA-Water	Fluoranthene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Fluorene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	Hexachlorobenzene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	12
2/7/2005 9:50	31767	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	12
2/7/2005 9:50	31767	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	12
2/7/2005 9:50	31767	BNA-Water	Indeno(1,2,3-cd)pyrene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Isophorone	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.7
2/7/2005 9:50	31767	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.7
2/7/2005 9:50	31767	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	12
2/7/2005 9:50	31767	BNA-Water	Naphthalene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.7
2/7/2005 9:50	31767	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	12
2/7/2005 9:50	31767	BNA-Water	Phenanthrene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Phenol	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	Pyrene	0.96	ug/L	U	0.96	3.8
2/7/2005 9:50	31767	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.8
2/7/2005 9:50	31767	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.8
2/7/2005 10:15	31766	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.3
2/7/2005 10:15	31766	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.2
2/7/2005 10:15	31766	GC-Water	Atrazine	0.26	ug/L		0.049	0.2
2/7/2005 10:15	31766	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.2
2/7/2005 10:15	31766	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/7/2005 10:15	31766	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/7/2005 10:15	31766	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.2
2/7/2005 10:15	31766	GC-Water	Chlorpyrifos Methyl	0.097	ug/L	U	0.097	0.39
2/7/2005 10:15	31766	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.2
2/7/2005 10:15	31766	GC-Water	Ethion	0.049	ug/L	U	0.049	0.2
2/7/2005 10:15	31766	GC-Water	Ethoprop	0.097	ug/L	U	0.097	0.39
2/7/2005 10:15	31766	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/7/2005 10:15	31766	GC-Water	Fonofos	0.097	ug/L	U	0.097	0.39
2/7/2005 10:15	31766	GC-Water	Hexazinone	0.097	ug/L	U	0.097	0.39
2/7/2005 10:15	31766	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6
2/7/2005 10:15	31766	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
2/7/2005 10:15	31766	GC-Water	Metolachlor	0.49	ug/L	U	0.49	2
2/7/2005 10:15	31766	GC-Water	Metribuzin	0.097	ug/L	U	0.097	0.39
2/7/2005 10:15	31766	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
2/7/2005 10:15	31766	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.1
2/7/2005 10:15	31766	GC-Water	Norflurazon	0.097	ug/L	U	0.097	0.39
2/7/2005 10:15	31766	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
2/7/2005 10:15	31766	GC-Water	Parathion Methyl	0.097	ug/L	U	0.097	0.39
2/7/2005 10:15	31766	GC-Water	Phorate	0.049	ug/L	U	0.049	0.2
2/7/2005 10:15	31766	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
2/7/2005 10:15	31766	GC-Water	Simazine	0.049	ug/L	U	0.049	0.2
2/7/2005 9:50	31767	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.3
2/7/2005 9:50	31767	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.2
2/7/2005 9:50	31767	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.2

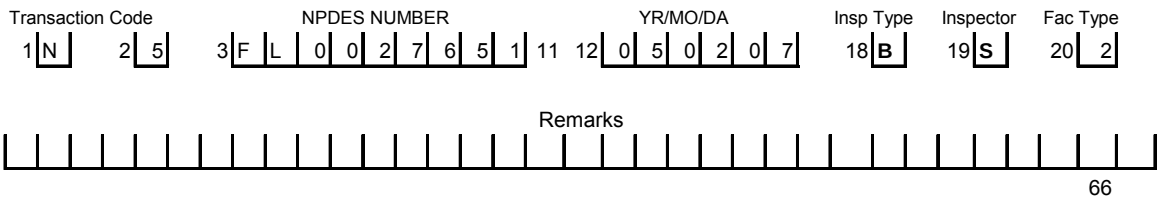
Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/7/2005 9:50	31767	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.2
2/7/2005 9:50	31767	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
2/7/2005 9:50	31767	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
2/7/2005 9:50	31767	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.2
2/7/2005 9:50	31767	GC-Water	Chlorpyrifos Methyl	0.097	ug/L	U	0.097	0.39
2/7/2005 9:50	31767	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.2
2/7/2005 9:50	31767	GC-Water	Ethion	0.049	ug/L	U	0.049	0.2
2/7/2005 9:50	31767	GC-Water	Ethoprop	0.097	ug/L	U	0.097	0.39
2/7/2005 9:50	31767	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
2/7/2005 9:50	31767	GC-Water	Fonofos	0.097	ug/L	U	0.097	0.39
2/7/2005 9:50	31767	GC-Water	Hexazinone	0.097	ug/L	U	0.097	0.39
2/7/2005 9:50	31767	GC-Water	Malathion	0.15	ug/L	UJ	0.15	0.6
2/7/2005 9:50	31767	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
2/7/2005 9:50	31767	GC-Water	Metolachlor	0.49	ug/L	U	0.49	2
2/7/2005 9:50	31767	GC-Water	Metribuzin	0.097	ug/L	U	0.097	0.39
2/7/2005 9:50	31767	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
2/7/2005 9:50	31767	GC-Water	Naled	0.78	ug/L	UJ	0.78	3.1
2/7/2005 9:50	31767	GC-Water	Norflurazon	0.097	ug/L	U	0.097	0.39
2/7/2005 9:50	31767	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
2/7/2005 9:50	31767	GC-Water	Parathion Methyl	0.097	ug/L	U	0.097	0.39
2/7/2005 9:50	31767	GC-Water	Phorate	0.049	ug/L	U	0.049	0.2
2/7/2005 9:50	31767	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
2/7/2005 9:50	31767	GC-Water	Simazine	0.049	ug/L	U	0.049	0.2
2/7/2005 10:15	31766	Metals-Water	Aluminum	26	ug/L		5	20
2/7/2005 10:15	31766	Metals-Water	Arsenic	6	ug/L	U	6	24
2/7/2005 10:15	31766	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
2/7/2005 10:15	31766	Metals-Water	Calcium	89.2	mg/L		0.075	0.3
2/7/2005 10:15	31766	Metals-Water	Chromium	2	ug/L	U	2	8
2/7/2005 10:15	31766	Metals-Water	Copper	3.3	ug/L		0.5	2
2/7/2005 10:15	31766	Metals-Water	Iron	50	ug/L		10	40
2/7/2005 10:15	31766	Metals-Water	Lead	0.14	ug/L	I	0.075	0.3
2/7/2005 10:15	31766	Metals-Water	Magnesium	9.3	mg/L		0.02	0.08
2/7/2005 10:15	31766	Metals-Water	Nickel	4.4	ug/L	I	2	8
2/7/2005 10:15	31766	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
2/7/2005 10:15	31766	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
2/7/2005 10:15	31766	Metals-Water	Zinc	32	ug/L		3	12
2/7/2005 9:50	31767	Metals-Water	Aluminum	5	ug/L	U	5	20
2/7/2005 9:50	31767	Metals-Water	Arsenic	6	ug/L	U	6	24
2/7/2005 9:50	31767	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
2/7/2005 9:50	31767	Metals-Water	Calcium	0.075	mg/L	U	0.075	0.3
2/7/2005 9:50	31767	Metals-Water	Chromium	2	ug/L	U	2	8
2/7/2005 9:50	31767	Metals-Water	Copper	0.5	ug/L	U	0.5	2
2/7/2005 9:50	31767	Metals-Water	Iron	10	ug/L	U	10	40
2/7/2005 9:50	31767	Metals-Water	Lead	0.075	ug/L	U	0.075	0.3
2/7/2005 9:50	31767	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
2/7/2005 9:50	31767	Metals-Water	Nickel	2	ug/L	U	2	8
2/7/2005 9:50	31767	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
2/7/2005 9:50	31767	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
2/7/2005 9:50	31767	Metals-Water	Zinc	3	ug/L	U	3	12
2/8/2005 11:15	EFFLUENT	Metals-Water	Aluminum	26	ug/L		5	20
2/8/2005 11:15	EFFLUENT	Metals-Water	Arsenic	6	ug/L	U	6	24
2/8/2005 11:15	EFFLUENT	Metals-Water	Cadmium	0.091	ug/L	I	0.075	0.3
2/8/2005 11:15	EFFLUENT	Metals-Water	Calcium	91.7	mg/L		0.075	0.3
2/8/2005 11:15	EFFLUENT	Metals-Water	Chromium	2	ug/L	U	2	8
2/8/2005 11:15	EFFLUENT	Metals-Water	Copper	2.7	ug/L		0.5	2
2/8/2005 11:15	EFFLUENT	Metals-Water	Iron	50	ug/L		10	40
2/8/2005 11:15	EFFLUENT	Metals-Water	Lead	0.19	ug/L	I	0.075	0.3
2/8/2005 11:15	EFFLUENT	Metals-Water	Magnesium	9.2	mg/L		0.02	0.08
2/8/2005 11:15	EFFLUENT	Metals-Water	Nickel	6	ug/L	I	2	8
2/8/2005 11:15	EFFLUENT	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
2/8/2005 11:15	EFFLUENT	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/8/2005 11:15	EFFLUENT	Metals-Water	Zinc	44	ug/L		3	12
2/8/2005 11:15	Equipment Blank	Metals-Water	Aluminum	5	ug/L	U	5	20
2/8/2005 11:15	Equipment Blank	Metals-Water	Arsenic	6	ug/L	U	6	24
2/8/2005 11:15	Equipment Blank	Metals-Water	Cadmium	0.075	ug/L	U	0.075	0.3
2/8/2005 11:15	Equipment Blank	Metals-Water	Calcium	0.075	mg/L	U	0.075	0.3
2/8/2005 11:15	Equipment Blank	Metals-Water	Chromium	2	ug/L	U	2	8
2/8/2005 11:15	Equipment Blank	Metals-Water	Copper	1.6	ug/L	I	0.5	2
2/8/2005 11:15	Equipment Blank	Metals-Water	Iron	10	ug/L	U	10	40
2/8/2005 11:15	Equipment Blank	Metals-Water	Lead	0.14	ug/L	I	0.075	0.3
2/8/2005 11:15	Equipment Blank	Metals-Water	Magnesium	0.02	mg/L	U	0.02	0.08
2/8/2005 11:15	Equipment Blank	Metals-Water	Nickel	2	ug/L	U	2	8
2/8/2005 11:15	Equipment Blank	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
2/8/2005 11:15	Equipment Blank	Metals-Water	Silver	0.025	ug/L	U	0.025	0.1
2/8/2005 11:15	Equipment Blank	Metals-Water	Zinc	3	ug/L	U	3	12
2/7/2005 10:15	31766	Nutrients-Liquid	Ammonia-N	0.057	mg N/L		0.01	0.02
2/7/2005 10:15	31766	Nutrients-Liquid	Color	10	PCU		5	5
2/7/2005 10:15	31766	Nutrients-Liquid	Kjeldahl Nitrogen	1.4	mg N/L		0.06	0.2
2/7/2005 10:15	31766	Nutrients-Liquid	NO2NO3-N	0.34	mg N/L		0.004	0.01
2/7/2005 10:15	31766	Nutrients-Liquid	O-Phosphate-P	0.13	mg P/L		0.004	0.01
2/7/2005 10:15	31766	Nutrients-Liquid	Organic Carbon	9.5	mg C/L		1	5
2/7/2005 10:15	31766	Nutrients-Liquid	TSS	4	mg/L	U	4	16
2/7/2005 10:15	31766	Nutrients-Liquid	Total-P	0.24	mg P/L		0.04	0.12
2/7/2005 10:15	31766	Nutrients-Liquid	Turbidity	0.8	NTU		0.05	0.05
2/7/2005 9:50	31767	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
2/7/2005 9:50	31767	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
2/7/2005 9:50	31767	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
2/7/2005 9:50	31767	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
2/7/2005 9:50	31767	Nutrients-Liquid	Organic Carbon	1	mg C/L	U	1	5
2/7/2005 9:50	31767	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
2/7/2005 9:00	BLANK	Nutrients-Liquid	NO2NO3-N	0.007	mg N/L	I	0.004	0.01
2/7/2005 9:00	BLANK	Nutrients-Liquid	TSS	4	mg/L	U	4	16
2/7/2005 13:10	BREEZE HILL	Nutrients-Liquid	NO2NO3-N	13	mg N/L		0.4	1
2/7/2005 13:10	BREEZE HILL	Nutrients-Liquid	TSS	12	mg/L	I	4	16
2/8/2005 11:15	EFFLUENT	Nutrients-Liquid	Ammonia-N	0.054	mg N/L	A	0.01	0.02
2/8/2005 11:15	EFFLUENT	Nutrients-Liquid	Kjeldahl Nitrogen	2.2	mg N/L		0.3	1
2/8/2005 11:15	EFFLUENT	Nutrients-Liquid	NO2NO3-N	24	mg N/L	A	0.4	1
2/8/2005 11:15	EFFLUENT	Nutrients-Liquid	TSS	4	mg/L	U	4	16
2/8/2005 11:15	EFFLUENT	Nutrients-Liquid	Total-P	0.16	mg P/L		0.02	0.06
2/8/2005 11:15	EFFLUENT	Nutrients-Liquid	Turbidity	0.65	NTU		0.05	0.05
2/8/2005 11:15	Equipment Blank	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
2/8/2005 11:15	Equipment Blank	Nutrients-Liquid	Kjeldahl Nitrogen	0.06	mg N/L	U	0.06	0.2
2/8/2005 11:15	Equipment Blank	Nutrients-Liquid	NO2NO3-N	3.1	mg N/L		0.04	0.1
2/8/2005 11:15	Equipment Blank	Nutrients-Liquid	TSS	4	mg/L	U	4	16
2/8/2005 11:15	Equipment Blank	Nutrients-Liquid	Total-P	0.02	mg P/L	U	0.02	0.06
2/8/2005 11:15	Equipment Blank	Nutrients-Liquid	Turbidity	0.05	NTU	U	0.05	0.05
2/7/2005 11:20	LAKEFRONT	Nutrients-Liquid	NO2NO3-N	0.02	mg N/L		0.004	0.01
2/7/2005 11:20	LAKEFRONT	Nutrients-Liquid	TSS	4	mg/L	I	4	16
2/7/2005 10:45	LAKEMONT	Nutrients-Liquid	NO2NO3-N	9.2	mg N/L		0.4	1
2/7/2005 10:45	LAKEMONT	Nutrients-Liquid	TSS	8	mg/L	I	4	16
2/7/2005 13:35	SADDLE BAG	Nutrients-Liquid	NO2NO3-N	0.004	mg N/L	U	0.004	0.01
2/7/2005 13:35	SADDLE BAG	Nutrients-Liquid	TSS	270	mg/L		22	89
2/7/2005 12:00	SUGAR SANDS	Nutrients-Liquid	NO2NO3-N	0.005	mg N/L	I	0.004	0.01
2/7/2005 12:00	SUGAR SANDS	Nutrients-Liquid	TSS	850	mg/L		50	200
2/7/2005 10:15	31766	Overflow	Oil and Grease	1.7	mg/l	U		
2/7/2005 9:50	31767	Overflow	Oil and Grease	1.7	mg/l	U		
2/7/2005 10:15	31766	VOC-Water	Bromodichloromethane	35	ug/L		0.2	1
2/7/2005 10:15	31766	VOC-Water	Bromoform	0.7	ug/L	I	0.5	2
2/7/2005 10:15	31766	VOC-Water	Chloroform	78	ug/L		78	390
2/7/2005 10:15	31766	VOC-Water	Dibromochloromethane	12	ug/L		0.2	1
2/7/2005 9:50	31767	VOC-Water	Bromodichloromethane	0.2	ug/L	U	0.2	1
2/7/2005 9:50	31767	VOC-Water	Bromoform	0.5	ug/L	U	0.5	2

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
2/7/2005 9:50	31767	VOC-Water	Chloroform	0.2	ug/L	U	0.2	1
2/7/2005 9:50	31767	VOC-Water	Dibromochloromethane	0.2	ug/L	U	0.2	1
2/7/2005 9:50	TB	VOC-Water	Bromodichloromethane	0.2	ug/L	U	0.2	1
2/7/2005 9:50	TB	VOC-Water	Bromoform	0.5	ug/L	U	0.5	2
2/7/2005 9:50	TB	VOC-Water	Chloroform	0.2	ug/L	U	0.2	1
2/7/2005 9:50	TB	VOC-Water	Dibromochloromethane	0.2	ug/L	U	0.2	1

The Bioassay of City of Oldsmar Water Reclamation Facility effluent sampled on February 7, 2005, NPDES #FL0027651.

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



The Priority Pollutants Analysis for Bioassay of City of Oldsmar Water Reclamation Facility effluent sampled on February 7, 2005, NPDES #FL0027651.

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

